#Herbicide by each

> #cor.test(test$Herbicide, test$Treatment) #non-numeric

> cor.test(test$Herbicide, test$LastB) #r is 0.164 #-0.010

Pearson's product-moment correlation

data: test$Herbicide and test$LastB

t = 0.9352, df = 77, p-value = 0.3526

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1178969 0.3195976

sample estimates:

cor

0.1059762

> cor.test(test$Herbicide, test$LastT) #r is -0.169 #-0.041

Pearson's product-moment correlation

data: test$Herbicide and test$LastT

t = -0.93943, df = 94, p-value = 0.3499

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2912964 0.1060945

sample estimates:

cor

-0.09644281

> cor.test(test$Herbicide, test$BA) #r is -0.173 #0.0.049

Pearson's product-moment correlation

data: test$Herbicide and test$BA

t = -0.6681, df = 99, p-value = 0.5056

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2590433 0.1301476

sample estimates:

cor

-0.0669958

> cor.test(test$Herbicide, test$Nsnags) #r is 0.007 #0.054

Pearson's product-moment correlation

data: test$Herbicide and test$Nsnags

t = 0.26753, df = 99, p-value = 0.7896

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1694517 0.2211552

sample estimates:

cor

0.0268777

> cor.test(test$Herbicide, test$Ccover) #r is -0.209 #-0.090

Pearson's product-moment correlation

data: test$Herbicide and test$Ccover

t = -1.5524, df = 99, p-value = 0.1238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33937145 0.04256479

sample estimates:

cor

-0.1541569

> cor.test(test$Herbicide, test$Ldepth) #r is -0.059 #-0.350

Pearson's product-moment correlation

data: test$Herbicide and test$Ldepth

t = -2.1081, df = 99, p-value = 0.03755

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38703251 -0.01233183

sample estimates:

cor

-0.2072715

> cor.test(test$Herbicide, test$TreeHt) #r is -0.167 #-0.342 #ish

Pearson's product-moment correlation

data: test$Herbicide and test$TreeHt

t = -2.6069, df = 99, p-value = 0.01055

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42770218 -0.06103255

sample estimates:

cor

-0.2534486

> cor.test(test$Herbicide, test$Age) #r is 0.102 #0.093

Pearson's product-moment correlation

data: test$Herbicide and test$Age

t = 1.0048, df = 99, p-value = 0.3175

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09687096 0.29021116

sample estimates:

cor

0.1004704

> cor.test(test$Herbicide, test$Nburns) #r is 0.350 #high-ISH #0.295

Pearson's product-moment correlation

data: test$Herbicide and test$Nburns

t = 3.4116, df = 99, p-value = 0.0009363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1376316 0.4888006

sample estimates:

cor

0.3243464

> cor.test(test$Herbicide, test$Nthins) #r is 0.101 #0.132

Pearson's product-moment correlation

data: test$Herbicide and test$Nthins

t = 1.1749, df = 99, p-value = 0.2429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08000738 0.30569869

sample estimates:

cor

0.1172655

> cor.test(test$Herbicide, test$TimeSinceB) #r is -0.300 #-0.352 #ish

Pearson's product-moment correlation

data: test$Herbicide and test$TimeSinceB

t = -3.4422, df = 99, p-value = 0.0008468

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4910062 -0.1404776

sample estimates:

cor

-0.3269408

> cor.test(test$Herbicide, test$TimeSinceT) #r is -0.064 #-0.145

Pearson's product-moment correlation

data: test$Herbicide and test$TimeSinceT

t = -1.0373, df = 99, p-value = 0.3021

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29318500 0.09365005

sample estimates:

cor

-0.103687

> cor.test(test$Herbicide, test$HWdens\_10) #r is -0.137 #-0.190

Pearson's product-moment correlation

data: test$Herbicide and test$HWdens\_10

t = -1.6741, df = 99, p-value = 0.09727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35000813 0.03051003

sample estimates:

cor

-0.1659186

> cor.test(test$Herbicide, test$HWdens\_50) #r is -0.041 #-0.173

Pearson's product-moment correlation

data: test$Herbicide and test$HWdens\_50

t = -1.0926, df = 99, p-value = 0.2772

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29823184 0.08816531

sample estimates:

cor

-0.1091548

> cor.test(test$Herbicide, test$HWdens\_100) #r is -0.135 #-0.073

Pearson's product-moment correlation

data: test$Herbicide and test$HWdens\_100

t = -1.0581, df = 99, p-value = 0.2926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29508834 0.09158432

sample estimates:

cor

-0.1057477

> cor.test(test$Herbicide, test$FG\_herb) #r is 0.221 #0.066

Pearson's product-moment correlation

data: test$Herbicide and test$FG\_herb

t = 1.5506, df = 99, p-value = 0.1242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04274323 0.33921327

sample estimates:

cor

0.1539824

> cor.test(test$Herbicide, test$FG\_shrub) #r is -0.038 #0.173

Pearson's product-moment correlation

data: test$Herbicide and test$FG\_shrub

t = 1.0151, df = 99, p-value = 0.3125

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09584364 0.29116049

sample estimates:

cor

0.1014968

> cor.test(test$Herbicide, test$NHW\_saplings) #r is -0.205 #-0.319 #ish

Pearson's product-moment correlation

data: test$Herbicide and test$NHW\_saplings

t = -2.6515, df = 99, p-value = 0.009331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43124036 -0.06535361

sample estimates:

cor

-0.2575039

> cor.test(test$Herbicide, test$NP\_over\_20cm) #r is -0.192 #0.207

Pearson's product-moment correlation

data: test$Herbicide and test$NP\_over\_20cm

t = -0.0055286, df = 99, p-value = 0.9956

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1959736 0.1949048

sample estimates:

cor

-0.0005556421

> cor.test(test$Herbicide, test$Rel\_HW2P\_canopy) #r is -0.390 #highest but still not 0.5 #cool #-0.076

Pearson's product-moment correlation

data: test$Herbicide and test$Rel\_HW2P\_canopy

t = -2.4266, df = 99, p-value = 0.01705

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41324071 -0.04351301

sample estimates:

cor

-0.2369373

> cor.test(test$Herbicide, test$Rel\_HW2P\_shrubcover) #r is -0.118 #-0.047

Pearson's product-moment correlation

data: test$Herbicide and test$Rel\_HW2P\_shrubcover

t = -0.82885, df = 99, p-value = 0.4092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.274009 0.114278

sample estimates:

cor

-0.08301534

> cor.test(test$Herbicide, test$LCR) #r is 0.006 #0.175

Pearson's product-moment correlation

data: test$Herbicide and test$LCR

t = -0.20187, df = 98, p-value = 0.8404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2159415 0.1767377

sample estimates:

cor

-0.02038813

> cor.test(test$Herbicide, test$HW\_dens\_1050) #r is -0.974 #-0.191

Pearson's product-moment correlation

data: test$Herbicide and test$HW\_dens\_1050

t = -1.4801, df = 99, p-value = 0.142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33299734 0.04973581

sample estimates:

cor

-0.1471336

> cor.test(test$Herbicide, test$HW\_shrub) #r is -0.366 #-0.244

Pearson's product-moment correlation

data: test$Herbicide and test$HW\_shrub

t = -3.0999, df = 99, p-value = 0.002521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4658083 -0.1083047

sample estimates:

cor

-0.2974479

> cor.test(test$Herbicide, test$Parea) #r is -0.277 #-0.245

Pearson's product-moment correlation

data: test$Herbicide and test$Parea

t = -2.6931, df = 99, p-value = 0.008315

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43451805 -0.06936881

sample estimates:

cor

-0.261266

> cor.test(test$Herbicide, test$ShapeIndex) #r is -0.260 #-0.308 #ish

Pearson's product-moment correlation

data: test$Herbicide and test$ShapeIndex

t = -2.9162, df = 99, p-value = 0.004383

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4518593 -0.0908108

sample estimates:

cor

-0.2812583

> cor.test(test$Herbicide, test$PAratio) #r is 0.169 #0.130

Pearson's product-moment correlation

data: test$Herbicide and test$PAratio

t = 1.5113, df = 99, p-value = 0.1339

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04663596 0.33575700

sample estimates:

cor

0.150172

> cor.test(test$Herbicide, test$FracDimIndex) #r is -0.136 #-0.199

Pearson's product-moment correlation

data: test$Herbicide and test$FracDimIndex

t = -1.6638, df = 99, p-value = 0.09932

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34911339 0.03152833

sample estimates:

cor

-0.1649272

> cor.test(test$Herbicide, test$CoreAreaIndex) #r is -0.228 #0.151

Pearson's product-moment correlation

data: test$Herbicide and test$CoreAreaIndex

t = -1.9411, df = 99, p-value = 0.05509

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.372962085 0.004113107

sample estimates:

cor

-0.1914801

> cor.test(test$Herbicide, test$Ag500m) #r is 0.062 #0.055

Pearson's product-moment correlation

data: test$Herbicide and test$Ag500m

t = 0.57945, df = 99, p-value = 0.5636

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1388785 0.2507291

sample estimates:

cor

0.05813878

> cor.test(test$Herbicide, test$Ag1km) #r is -0.074 #0.033

Pearson's product-moment correlation

data: test$Herbicide and test$Ag1km

t = -0.2114, df = 99, p-value = 0.833

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2157847 0.1749242

sample estimates:

cor

-0.02124125

> cor.test(test$Herbicide, test$Ag5km) #r is -0.085 #0.116

Pearson's product-moment correlation

data: test$Herbicide and test$Ag5km

t = 0.13957, df = 99, p-value = 0.8893

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1819117 0.2088929

sample estimates:

cor

0.01402628

> cor.test(test$Herbicide, test$Ag30km) #r is -0.055 #0.079

Pearson's product-moment correlation

data: test$Herbicide and test$Ag30km

t = 0.12663, df = 99, p-value = 0.8995

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1831686 0.2076490

sample estimates:

cor

0.01272621

> cor.test(test$Herbicide, test$Evergreen500m) #r is 0.076 #0.106

Pearson's product-moment correlation

data: test$Herbicide and test$Evergreen500m

t = 0.90145, df = 99, p-value = 0.3695

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1070984 0.2807185

sample estimates:

cor

0.0902295

> cor.test(test$Herbicide, test$Evergreen1km) #r is 0.321 #0.248

Pearson's product-moment correlation

data: test$Herbicide and test$Evergreen1km

t = 2.9507, df = 99, p-value = 0.003958

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09410601 0.45450038

sample estimates:

cor

0.2843161

> cor.test(test$Herbicide, test$Evergreen5km) #r is 0.235 #0.147

Pearson's product-moment correlation

data: test$Herbicide and test$Evergreen5km

t = 1.9318, df = 99, p-value = 0.05624

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.005033058 0.372169812

sample estimates:

cor

0.1905937

> cor.test(test$Herbicide, test$Evergreen30km) #r is 0.270 #0.281

Pearson's product-moment correlation

data: test$Herbicide and test$Evergreen30km

t = 2.8574, df = 99, p-value = 0.005207

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0851753 0.4473279

sample estimates:

cor

0.2760198

> cor.test(test$Herbicide, test$Imperv500m) #r is -0.075 -0.099

Pearson's product-moment correlation

data: test$Herbicide and test$Imperv500m

t = -0.86189, df = 99, p-value = 0.3908

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2770665 0.1110112

sample estimates:

cor

-0.08630042

> cor.test(test$Herbicide, test$Imperv1km) #r is 0.078 0.072

Pearson's product-moment correlation

data: test$Herbicide and test$Imperv1km

t = 0.74996, df = 99, p-value = 0.4551

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1220714 0.2666828

sample estimates:

cor

0.07516099

> cor.test(test$Herbicide, test$Imperv5km) #r is 0.125 0.098

Pearson's product-moment correlation

data: test$Herbicide and test$Imperv5km

t = 1.1195, df = 99, p-value = 0.2656

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08550227 0.30067450

sample estimates:

cor

0.1118053

> cor.test(test$Herbicide, test$Imperv30km) #r is -0.323 -0.329 #ish

Pearson's product-moment correlation

data: test$Herbicide and test$Imperv30km

t = -3.413, df = 99, p-value = 0.0009321

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4888992 -0.1377587

sample estimates:

cor

-0.3244623

> cor.test(test$Herbicide, test$Protected30km) #r is 0.073 -

Pearson's product-moment correlation

data: test$Herbicide and test$Protected30km

t = -0.12766, df = 99, p-value = 0.8987

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2077474 0.1830692

sample estimates:

cor

-0.01282903

> cor.test(test$Herbicide, test$HighDev500m) #r is -0.169

Pearson's product-moment correlation

data: test$Herbicide and test$HighDev500m

t = -1.8125, df = 99, p-value = 0.07295

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36197086 0.01681887

sample estimates:

cor

-0.1792095

> cor.test(test$Herbicide, test$HighDev1km) #r is 0.079

Pearson's product-moment correlation

data: test$Herbicide and test$HighDev1km

t = 0.69695, df = 99, p-value = 0.4875

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1273028 0.2617398

sample estimates:

cor

0.06987492

> cor.test(test$Herbicide, test$HighDev5km) #r is 0.126

Pearson's product-moment correlation

data: test$Herbicide and test$HighDev5km

t = 1.1253, df = 99, p-value = 0.2632

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08492426 0.30120401

sample estimates:

cor

0.1123802

> cor.test(test$Herbicide, test$HighDev30km) #r is 0.169

Pearson's product-moment correlation

data: test$Herbicide and test$HighDev30km

t = 1.7403, df = 99, p-value = 0.08491

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02395419 0.35575186

sample estimates:

cor

0.1722917

> cor.test(test$Herbicide, test$LowDev500m) #r is 0.179

Pearson's product-moment correlation

data: test$Herbicide and test$LowDev500m

t = 1.7724, df = 99, p-value = 0.0794

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02077471 0.35852719

sample estimates:

cor

0.1753766

> cor.test(test$Herbicide, test$LowDev1km) #r is 0.168

Pearson's product-moment correlation

data: test$Herbicide and test$LowDev1km

t = 1.7181, df = 99, p-value = 0.0889

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02615078 0.35383056

sample estimates:

cor

0.1701581

> cor.test(test$Herbicide, test$LowDev5km) #r is 0.151

Pearson's product-moment correlation

data: test$Herbicide and test$LowDev5km

t = 1.48, df = 99, p-value = 0.142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04973936 0.33299417

sample estimates:

cor

0.1471302

> cor.test(test$Herbicide, test$LowDev30km) #r is -0.340

Pearson's product-moment correlation

data: test$Herbicide and test$LowDev30km

t = -3.3325, df = 99, p-value = 0.001211

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4830462 -0.1302336

sample estimates:

cor

-0.3175894

> cor.test(test$Herbicide, test$OpenDev500m) #r is 0.390 -0.300

Pearson's product-moment correlation

data: test$Herbicide and test$OpenDev500m

t = 4.0082, df = 99, p-value = 0.0001186

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1922649 0.5303704

sample estimates:

cor

0.3736633

> cor.test(test$Herbicide, test$OpenDev1km) #r is 0.352 0.338

Pearson's product-moment correlation

data: test$Herbicide and test$OpenDev1km

t = 3.6723, df = 99, p-value = 0.00039

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1617523 0.5073525

sample estimates:

cor

0.3462458

> cor.test(test$Herbicide, test$OpenDev5km) #r is 0.158

Pearson's product-moment correlation

data: test$Herbicide and test$OpenDev5km

t = 1.2496, df = 99, p-value = 0.2144

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07259205 0.31244494

sample estimates:

cor

0.1246152

> cor.test(test$Herbicide, test$OpenDev30km) #r is -0.247

Pearson's product-moment correlation

data: test$Herbicide and test$OpenDev30km

t = -2.6022, df = 99, p-value = 0.01068

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42732825 -0.06057669

sample estimates:

cor

-0.2530204

> cor.test(test$Herbicide, test$Grass500m) #r is 0

Pearson's product-moment correlation

data: test$Herbicide and test$Grass500m

t = -0.081391, df = 99, p-value = 0.9353

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2032941 0.1875593

sample estimates:

cor

-0.008179791

> cor.test(test$Herbicide, test$Grass1km) #r is -0.338 -0.339

Pearson's product-moment correlation

data: test$Herbicide and test$Grass1km

t = -3.5436, df = 99, p-value = 0.0006042

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4982679 -0.1498890

sample estimates:

cor

-0.3355

> cor.test(test$Herbicide, test$Grass5km) #r is -0.335 nah

Pearson's product-moment correlation

data: test$Herbicide and test$Grass5km

t = -1.0461, df = 99, p-value = 0.2981

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29399293 0.09277359

sample estimates:

cor

-0.1045615

> cor.test(test$Herbicide, test$Grass30km) #r is -0.237

Pearson's product-moment correlation

data: test$Herbicide and test$Grass30km

t = 0.15878, df = 99, p-value = 0.8742

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1800447 0.2107381

sample estimates:

cor

0.015956

> cor.test(test$Herbicide, test$Schrubs500m) #r is -0.135

Pearson's product-moment correlation

data: test$Herbicide and test$Schrubs500m

t = -1.7144, df = 99, p-value = 0.08959

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35350690 0.02652046

sample estimates:

cor

-0.1697989

> cor.test(test$Herbicide, test$Schrubs1km) #r is -0.049

Pearson's product-moment correlation

data: test$Herbicide and test$Schrubs1km

t = -0.95153, df = 99, p-value = 0.3437

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2853282 0.1021421

sample estimates:

cor

-0.09519758

> cor.test(test$Herbicide, test$Schrubs5km) #r is 0.037 -

Pearson's product-moment correlation

data: test$Herbicide and test$Schrubs5km

t = -0.33168, df = 99, p-value = 0.7408

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2272760 0.1631852

sample estimates:

cor

-0.03331665

> cor.test(test$Herbicide, test$Schrubs30km) #r is -0.009 +

Pearson's product-moment correlation

data: test$Herbicide and test$Schrubs30km

t = 0.71493, df = 99, p-value = 0.4763

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1255288 0.2634183

sample estimates:

cor

0.07166874

> cor.test(test$Herbicide, test$Water500m) #r is 0.050

Pearson's product-moment correlation

data: test$Herbicide and test$Water500m

t = 1.2558, df = 99, p-value = 0.2122

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07198633 0.31299429

sample estimates:

cor

0.1252146

> cor.test(test$Herbicide, test$Water1km) #r is 0.100

Pearson's product-moment correlation

data: test$Herbicide and test$Water1km

t = 1.5285, df = 99, p-value = 0.1296

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04493423 0.33726920

sample estimates:

cor

0.1518385

> cor.test(test$Herbicide, test$Water5km) #r is 0.170

Pearson's product-moment correlation

data: test$Herbicide and test$Water5km

t = 1.637, df = 99, p-value = 0.1048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03417705 0.34678283

sample estimates:

cor

0.1623466

> cor.test(test$Herbicide, test$Water30km) #r is -0.002

Pearson's product-moment correlation

data: test$Herbicide and test$Water30km

t = -0.75074, df = 99, p-value = 0.4546

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2667550 0.1219949

sample estimates:

cor

-0.07523827

> cor.test(test$Herbicide, test$NSoilTypes) #r is -0.267

Pearson's product-moment correlation

data: test$Herbicide and test$NSoilTypes

t = -2.4525, df = 99, p-value = 0.01594

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41533772 -0.04603945

sample estimates:

cor

-0.2393253

> cor.test(test$Herbicide, test$FPSiteIndex) # r is -0.226

Pearson's product-moment correlation

data: test$Herbicide and test$FPSiteIndex

t = -1.7259, df = 91, p-value = 0.08776

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3683831 0.0266394

sample estimates:

cor

-0.178035

> cor.test(test$Herbicide, test$SiteIndexPrimaryS) # r is -0.203

Pearson's product-moment correlation

data: test$Herbicide and test$SiteIndexPrimaryS

t = -1.2155, df = 91, p-value = 0.2273

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3218162 0.0793577

sample estimates:

cor

-0.1263938

> cor.test(test$Herbicide, test$PISoils) # r is 0.229

Pearson's product-moment correlation

data: test$Herbicide and test$PISoils

t = 1.8827, df = 99, p-value = 0.06267

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.009876188 0.367989764

sample estimates:

cor

0.1859219

> cor.test(test$Herbicide, test$SISoils) # r is 0.070 -

Pearson's product-moment correlation

data: test$Herbicide and test$SISoils

t = 0.17413, df = 99, p-value = 0.8621

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1785517 0.2122117

sample estimates:

cor

0.01749821

> cor.test(test$Herbicide, test$HydricSoils) # r is -0.130 +

Pearson's product-moment correlation

data: test$Herbicide and test$HydricSoils

t = -0.091782, df = 99, p-value = 0.9271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2042950 0.1865516

sample estimates:

cor

-0.009224007

> #LastBurn by each

> #cor.test(test$LastB, test$Treatment) #non-numeric

> cor.test(test$LastB, test$Herbicide) # r is 0.164 -

Pearson's product-moment correlation

data: test$LastB and test$Herbicide

t = 0.9352, df = 77, p-value = 0.3526

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1178969 0.3195976

sample estimates:

cor

0.1059762

> #cor.test(test$LastB, test$LastB) # r is

> cor.test(test$LastB, test$LastT) #r is -0.170

Pearson's product-moment correlation

data: test$LastB and test$LastT

t = -1.4801, df = 74, p-value = 0.1431

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38047701 0.05811004

sample estimates:

cor

-0.169567

> cor.test(test$LastB, test$BA) #r is -0.101

Pearson's product-moment correlation

data: test$LastB and test$BA

t = -0.54311, df = 77, p-value = 0.5886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2790730 0.1615424

sample estimates:

cor

-0.06177448

> cor.test(test$LastB, test$Nsnags) #r is -0.090

Pearson's product-moment correlation

data: test$LastB and test$Nsnags

t = 0.33929, df = 77, p-value = 0.7353

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1840454 0.2575475

sample estimates:

cor

0.03863735

> cor.test(test$LastB, test$Ccover) #r is -0.164

Pearson's product-moment correlation

data: test$LastB and test$Ccover

t = -1.4881, df = 77, p-value = 0.1408

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.37446817 0.05597803

sample estimates:

cor

-0.1672019

> cor.test(test$LastB, test$Ldepth) #r is -0.469 # encouraging proxy! # -0.680

Pearson's product-moment correlation

data: test$LastB and test$Ldepth

t = -6.6281, df = 77, p-value = 4.17e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7269529 -0.4402882

sample estimates:

cor

-0.6027222

> cor.test(test$LastB, test$TreeHt) #r is -0.380 -0.383 #ish

Pearson's product-moment correlation

data: test$LastB and test$TreeHt

t = -4.7952, df = 77, p-value = 7.772e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6334777 -0.2890754

sample estimates:

cor

-0.4795351

> cor.test(test$LastB, test$Age) #r is -0.023

Pearson's product-moment correlation

data: test$LastB and test$Age

t = 0.75731, df = 77, p-value = 0.4512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1377454 0.3013647

sample estimates:

cor

0.08598378

> cor.test(test$LastB, test$Nburns) #r is 0.297

Pearson's product-moment correlation

data: test$LastB and test$Nburns

t = 2.2561, df = 77, p-value = 0.0269

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02951972 0.44558255

sample estimates:

cor

0.2490048

> cor.test(test$LastB, test$Nthins) #r is -0.096

Pearson's product-moment correlation

data: test$LastB and test$Nthins

t = 0.30999, df = 77, p-value = 0.7574

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1872675 0.2544291

sample estimates:

cor

0.03530479

> cor.test(test$LastB, test$TimeSinceB) #r is -1 # duh makes sense - redundant variable

Pearson's product-moment correlation

data: test$LastB and test$TimeSinceB

t = -40.511, df = 77, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.9854834 -0.9646938

sample estimates:

cor

-0.9773349

> cor.test(test$LastB, test$TimeSinceT) #r is 0.191

Pearson's product-moment correlation

data: test$LastB and test$TimeSinceT

t = 2.1177, df = 77, p-value = 0.03743

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01422632 0.43323624

sample estimates:

cor

0.2345988

> cor.test(test$LastB, test$HWdens\_10) #r is -0.127

Pearson's product-moment correlation

data: test$LastB and test$HWdens\_10

t = -0.81382, df = 77, p-value = 0.4183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3071847 0.1314478

sample estimates:

cor

-0.09234659

> cor.test(test$LastB, test$HWdens\_50) #r is -0.035

Pearson's product-moment correlation

data: test$LastB and test$HWdens\_50

t = -0.013629, df = 77, p-value = 0.9892

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2225871 0.2196327

sample estimates:

cor

-0.001553121

> cor.test(test$LastB, test$HWdens\_100) #r is -0.029

Pearson's product-moment correlation

data: test$LastB and test$HWdens\_100

t = -0.71995, df = 77, p-value = 0.4737

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2975031 0.1419044

sample estimates:

cor

-0.08177167

> cor.test(test$LastB, test$FG\_herb) #r is 0.437 # higher but not quite 0.5 - encouraging trend!

Pearson's product-moment correlation

data: test$LastB and test$FG\_herb

t = 2.3111, df = 77, p-value = 0.0235

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03558706 0.45043724

sample estimates:

cor

0.2546934

> cor.test(test$LastB, test$FG\_shrub) #r is 0.203

Pearson's product-moment correlation

data: test$LastB and test$FG\_shrub

t = 2.7292, df = 77, p-value = 0.007864

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08120662 0.48616988

sample estimates:

cor

0.2969845

> cor.test(test$LastB, test$NHW\_saplings) #r is -0.120

Pearson's product-moment correlation

data: test$LastB and test$NHW\_saplings

t = -1.0298, df = 77, p-value = 0.3063

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3291793 0.1073241

sample estimates:

cor

-0.1165522

> cor.test(test$LastB, test$NP\_over\_20cm) #r is -0.067

Pearson's product-moment correlation

data: test$LastB and test$NP\_over\_20cm

t = 0.33239, df = 77, p-value = 0.7405

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1848052 0.2568129

sample estimates:

cor

0.03785188

> cor.test(test$LastB, test$Rel\_HW2P\_canopy) #r is -0.232

Pearson's product-moment correlation

data: test$LastB and test$Rel\_HW2P\_canopy

t = -0.59719, df = 77, p-value = 0.5521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2847343 0.1555470

sample estimates:

cor

-0.06789861

> cor.test(test$LastB, test$Rel\_HW2P\_shrubcover) #r is -0.106

Pearson's product-moment correlation

data: test$LastB and test$Rel\_HW2P\_shrubcover

t = -0.24425, df = 77, p-value = 0.8077

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474121 0.1944831

sample estimates:

cor

-0.02782382

> cor.test(test$LastB, test$LCR) #r is 0.312

Pearson's product-moment correlation

data: test$LastB and test$LCR

t = -1.0535, df = 77, p-value = 0.2954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3315705 0.1046701

sample estimates:

cor

-0.119199

> cor.test(test$LastB, test$HW\_dens\_1050) #r is -0.089

Pearson's product-moment correlation

data: test$LastB and test$HW\_dens\_1050

t = -0.43696, df = 77, p-value = 0.6634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2678987 0.1732817

sample estimates:

cor

-0.04973429

> cor.test(test$LastB, test$HW\_shrub) #r is -0.112

Pearson's product-moment correlation

data: test$LastB and test$HW\_shrub

t = -1.1316, df = 77, p-value = 0.2613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33941279 0.09592204

sample estimates:

cor

-0.1279011

> cor.test(test$LastB, test$Parea) #r is 0.062

Pearson's product-moment correlation

data: test$LastB and test$Parea

t = 0.33943, df = 77, p-value = 0.7352

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1840309 0.2575615

sample estimates:

cor

0.03865229

> cor.test(test$LastB, test$ShapeIndex) #r is 0.249

Pearson's product-moment correlation

data: test$LastB and test$ShapeIndex

t = 1.9844, df = 77, p-value = 0.05077

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0005648949 0.4211438535

sample estimates:

cor

0.2205731

> cor.test(test$LastB, test$PAratio) #r is 0.022

Pearson's product-moment correlation

data: test$LastB and test$PAratio

t = -0.11182, df = 77, p-value = 0.9113

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2331959 0.2089566

sample estimates:

cor

-0.01274256

> cor.test(test$LastB, test$FracDimIndex) #r is 0.254

Pearson's product-moment correlation

data: test$LastB and test$FracDimIndex

t = 1.8262, df = 77, p-value = 0.0717

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01818412 0.40654111

sample estimates:

cor

0.2037455

> cor.test(test$LastB, test$CoreAreaIndex) #r is -0.062

Pearson's product-moment correlation

data: test$LastB and test$CoreAreaIndex

t = -0.24442, df = 77, p-value = 0.8076

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474301 0.1944647

sample estimates:

cor

-0.02784292

> cor.test(test$LastB, test$Ag500m) #r is 0.037

Pearson's product-moment correlation

data: test$LastB and test$Ag500m

t = 0.2234, df = 77, p-value = 0.8238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1967666 0.2451818

sample estimates:

cor

0.02545112

> cor.test(test$LastB, test$Ag1km) #r is -0.173

Pearson's product-moment correlation

data: test$LastB and test$Ag1km

t = -0.40774, df = 77, p-value = 0.6846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2648088 0.1765057

sample estimates:

cor

-0.04641617

> cor.test(test$LastB, test$Ag5km) #r is 0.416

Pearson's product-moment correlation

data: test$LastB and test$Ag5km

t = -2.0339, df = 77, p-value = 0.0454

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.425660342 -0.004938096

sample estimates:

cor

-0.225802

> cor.test(test$LastB, test$Ag30km) #r is -0.154

Pearson's product-moment correlation

data: test$LastB and test$Ag30km

t = -0.40229, df = 77, p-value = 0.6886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2642313 0.1771073

sample estimates:

cor

-0.04579654

> cor.test(test$LastB, test$Evergreen500m) #r is 0.040 #0.287

Pearson's product-moment correlation

data: test$LastB and test$Evergreen500m

t = 1.2654, df = 77, p-value = 0.2096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08093804 0.35270621

sample estimates:

cor

0.1427266

> cor.test(test$LastB, test$Evergreen1km) #r is 0.090

Pearson's product-moment correlation

data: test$LastB and test$Evergreen1km

t = 0.88389, df = 77, p-value = 0.3795

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1236288 0.3143653

sample estimates:

cor

0.1002212

> cor.test(test$LastB, test$Evergreen5km) #r is 0.224

Pearson's product-moment correlation

data: test$LastB and test$Evergreen5km

t = 1.5812, df = 77, p-value = 0.1179

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04555585 0.38341678

sample estimates:

cor

0.1773409

> cor.test(test$LastB, test$Evergreen30km) #r is 0.191

Pearson's product-moment correlation

data: test$LastB and test$Evergreen30km

t = 1.4982, df = 77, p-value = 0.1382

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05485235 0.37543857

sample estimates:

cor

0.1682993

> cor.test(test$LastB, test$Imperv500m) #r is -0.048

Pearson's product-moment correlation

data: test$LastB and test$Imperv500m

t = 0.25355, df = 77, p-value = 0.8005

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1934635 0.2484064

sample estimates:

cor

0.02888235

> cor.test(test$LastB, test$Imperv1km) #r is -0.215 #-0.432

Pearson's product-moment correlation

data: test$LastB and test$Imperv1km

t = -2.639, df = 77, p-value = 0.01006

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.47863390 -0.07144222

sample estimates:

cor

-0.2880031

> cor.test(test$LastB, test$Imperv5km) #r is 0.050 #-0.206

Pearson's product-moment correlation

data: test$LastB and test$Imperv5km

t = -0.50679, df = 77, p-value = 0.6138

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2752588 0.1655635

sample estimates:

cor

-0.05765759

> cor.test(test$LastB, test$Imperv30km) #r is 0.124

Pearson's product-moment correlation

data: test$LastB and test$Imperv30km

t = 0.8796, df = 77, p-value = 0.3818

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1241075 0.3139271

sample estimates:

cor

0.09973994

> cor.test(test$LastB, test$Protected30km) #r is 0.091

Pearson's product-moment correlation

data: test$LastB and test$Protected30km

t = 0.26955, df = 77, p-value = 0.7882

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1917080 0.2501163

sample estimates:

cor

0.0307039

> cor.test(test$LastB, test$HighDev500m) #r is ??? - there is only 1 value for HighDev - IGNORE

Pearson's product-moment correlation

data: test$LastB and test$HighDev500m

t = NA, df = 77, p-value = NA

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

NA NA

sample estimates:

cor

NA

Warning message:

In cor(x, y) : the standard deviation is zero

> cor.test(test$LastB, test$HighDev1km) #r is -0.194 ish #-0.456

Pearson's product-moment correlation

data: test$LastB and test$HighDev1km

t = -2.6315, df = 77, p-value = 0.01026

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.47800250 -0.07062764

sample estimates:

cor

-0.2872522

> cor.test(test$LastB, test$HighDev5km) #r is 0.060

Pearson's product-moment correlation

data: test$LastB and test$HighDev5km

t = -0.42938, df = 77, p-value = 0.6688

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2670981 0.1741179

sample estimates:

cor

-0.04887409

> cor.test(test$LastB, test$HighDev30km) #r is 0.065 #.258

Pearson's product-moment correlation

data: test$LastB and test$HighDev30km

t = 0.98944, df = 77, p-value = 0.3255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1118342 0.3251029

sample estimates:

cor

0.1120468

> cor.test(test$LastB, test$LowDev500m) #r is -0.008

Pearson's product-moment correlation

data: test$LastB and test$LowDev500m

t = 0.38191, df = 77, p-value = 0.7036

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1793530 0.2620725

sample estimates:

cor

0.04348172

> cor.test(test$LastB, test$LowDev1km) #r is -0.067

Pearson's product-moment correlation

data: test$LastB and test$LowDev1km

t = -0.14406, df = 77, p-value = 0.8858

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2366664 0.2054410

sample estimates:

cor

-0.01641502

> cor.test(test$LastB, test$LowDev5km) #r is 0.016

Pearson's product-moment correlation

data: test$LastB and test$LowDev5km

t = -0.63884, df = 77, p-value = 0.5248

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2890795 0.1509232

sample estimates:

cor

-0.07261027

> cor.test(test$LastB, test$LowDev30km) #r is 0.069

Pearson's product-moment correlation

data: test$LastB and test$LowDev30km

t = 0.92863, df = 77, p-value = 0.356

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1186317 0.3189283

sample estimates:

cor

0.1052392

> cor.test(test$LastB, test$OpenDev500m) #r is -0.139

Pearson's product-moment correlation

data: test$LastB and test$OpenDev500m

t = -1.1949, df = 77, p-value = 0.2358

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34572629 0.08883014

sample estimates:

cor

-0.1349305

> cor.test(test$LastB, test$OpenDev1km) #r is -0.141

Pearson's product-moment correlation

data: test$LastB and test$OpenDev1km

t = -1.0518, df = 77, p-value = 0.2962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3314025 0.1048568

sample estimates:

cor

-0.1190129

> cor.test(test$LastB, test$OpenDev5km) #r is 0.175

Pearson's product-moment correlation

data: test$LastB and test$OpenDev5km

t = 0.0041979, df = 77, p-value = 0.9967

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2206553 0.2215654

sample estimates:

cor

0.0004783967

> cor.test(test$LastB, test$OpenDev30km) #r is 0.129

Pearson's product-moment correlation

data: test$LastB and test$OpenDev30km

t = 0.64503, df = 77, p-value = 0.5208

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1502355 0.2897242

sample estimates:

cor

0.07331012

> cor.test(test$LastB, test$Grass500m) #r is 0.143

Pearson's product-moment correlation

data: test$LastB and test$Grass500m

t = 0.6807, df = 77, p-value = 0.4981

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1462708 0.2934334

sample estimates:

cor

0.077341

> cor.test(test$LastB, test$Grass1km) #r is 0.002

Pearson's product-moment correlation

data: test$LastB and test$Grass1km

t = -0.48703, df = 77, p-value = 0.6276

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2731795 0.1677495

sample estimates:

cor

-0.05541637

> cor.test(test$LastB, test$Grass5km) #r is -0.382

Pearson's product-moment correlation

data: test$LastB and test$Grass5km

t = -0.48842, df = 77, p-value = 0.6266

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2733266 0.1675949

sample estimates:

cor

-0.0555749

> cor.test(test$LastB, test$Grass30km) #r is -0.559

Pearson's product-moment correlation

data: test$LastB and test$Grass30km

t = -1.0347, df = 77, p-value = 0.304

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3296810 0.1067677

sample estimates:

cor

-0.1171073

> cor.test(test$LastB, test$Schrubs500m) #r is 0.207

Pearson's product-moment correlation

data: test$LastB and test$Schrubs500m

t = 1.2315, df = 77, p-value = 0.2219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08473065 0.34935797

sample estimates:

cor

0.1389836

> cor.test(test$LastB, test$Schrubs1km) #r is 0.283

Pearson's product-moment correlation

data: test$LastB and test$Schrubs1km

t = 1.2857, df = 77, p-value = 0.2024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0786622 0.3547101

sample estimates:

cor

0.1449697

> cor.test(test$LastB, test$Schrubs5km) #r is 0.344

Pearson's product-moment correlation

data: test$LastB and test$Schrubs5km

t = 2.1509, df = 77, p-value = 0.03462

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01790555 0.43622091

sample estimates:

cor

0.2380734

> cor.test(test$LastB, test$Schrubs30km) #r is -0.033 #0.321

Pearson's product-moment correlation

data: test$LastB and test$Schrubs30km

t = 1.1598, df = 77, p-value = 0.2497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09276944 0.34222421

sample estimates:

cor

0.1310287

> cor.test(test$LastB, test$Water500m) #r is -0.114

Pearson's product-moment correlation

data: test$LastB and test$Water500m

t = 0.12065, df = 77, p-value = 0.9043

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2079942 0.2341471

sample estimates:

cor

0.0137485

> cor.test(test$LastB, test$Water1km) #r is 0.048

Pearson's product-moment correlation

data: test$LastB and test$Water1km

t = 0.77247, df = 77, p-value = 0.4422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1360567 0.3029285

sample estimates:

cor

0.08769178

> cor.test(test$LastB, test$Water5km) #r is 0.159

Pearson's product-moment correlation

data: test$LastB and test$Water5km

t = 0.70479, df = 77, p-value = 0.4831

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1435916 0.2959324

sample estimates:

cor

0.08006071

> cor.test(test$LastB, test$Water30km) #r is 0.132

Pearson's product-moment correlation

data: test$LastB and test$Water30km

t = 1.2086, df = 77, p-value = 0.2305

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08729488 0.34708788

sample estimates:

cor

0.1364492

> cor.test(test$LastB, test$NSoilTypes) #r is -0.044

Pearson's product-moment correlation

data: test$LastB and test$NSoilTypes

t = 0.63011, df = 77, p-value = 0.5305

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1518930 0.2881697

sample estimates:

cor

0.07162291

> cor.test(test$LastB, test$FPSiteIndex) # r is -.108

Pearson's product-moment correlation

data: test$LastB and test$FPSiteIndex

t = -0.20861, df = 71, p-value = 0.8354

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2533739 0.2064937

sample estimates:

cor

-0.02474937

> cor.test(test$LastB, test$SiteIndexPrimaryS) # r is -0.019

Pearson's product-moment correlation

data: test$LastB and test$SiteIndexPrimaryS

t = 0.21385, df = 71, p-value = 0.8313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2058979 0.2539561

sample estimates:

cor

0.02537121

> cor.test(test$LastB, test$PISoils) # r is 0.251

Pearson's product-moment correlation

data: test$LastB and test$PISoils

t = 1.2042, df = 77, p-value = 0.2322

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08778717 0.34665148

sample estimates:

cor

0.1359624

> cor.test(test$LastB, test$SISoils) # r is 0.061 #-0.341

Pearson's product-moment correlation

data: test$LastB and test$SISoils

t = -1.1015, df = 77, p-value = 0.2741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33640035 0.09929038

sample estimates:

cor

-0.1245545

> cor.test(test$LastB, test$HydricSoils) # r is -0.205

Pearson's product-moment correlation

data: test$LastB and test$HydricSoils

t = 0.04103, df = 77, p-value = 0.9674

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2166587 0.2255529

sample estimates:

cor

0.004675709

> #LastThin by each

> #cor.test(test$LastT, test$Treatment) #non-numeric

> cor.test(test$LastT, test$Herbicide) # r is -0.170

Pearson's product-moment correlation

data: test$LastT and test$Herbicide

t = -0.93943, df = 94, p-value = 0.3499

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2912964 0.1060945

sample estimates:

cor

-0.09644281

> cor.test(test$LastT, test$LastB) # r is -0.170 #-0.275

Pearson's product-moment correlation

data: test$LastT and test$LastB

t = -1.4801, df = 74, p-value = 0.1431

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38047701 0.05811004

sample estimates:

cor

-0.169567

> #cor.test(test$LastT, test$LastT) #r is

> cor.test(test$LastT, test$BA) #r is -0.235

Pearson's product-moment correlation

data: test$LastT and test$BA

t = -2.5435, df = 94, p-value = 0.01261

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43224975 -0.05612342

sample estimates:

cor

-0.2537541

> cor.test(test$LastT, test$Nsnags) #r is -0.053

Pearson's product-moment correlation

data: test$LastT and test$Nsnags

t = 0.049176, df = 94, p-value = 0.9609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1956128 0.2053491

sample estimates:

cor

0.005072008

> cor.test(test$LastT, test$Ccover) #r is -0.203 #-0.407

Pearson's product-moment correlation

data: test$LastT and test$Ccover

t = -3.1113, df = 94, p-value = 0.002467

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4768363 -0.1119329

sample estimates:

cor

-0.3055617

> cor.test(test$LastT, test$Ldepth) #r is -0.087

Pearson's product-moment correlation

data: test$LastT and test$Ldepth

t = 0.6371, df = 94, p-value = 0.5256

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1367125 0.2626044

sample estimates:

cor

0.06557062

> cor.test(test$LastT, test$TreeHt) #r is -0.199

Pearson's product-moment correlation

data: test$LastT and test$TreeHt

t = -1.4347, df = 94, p-value = 0.1547

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33698037 0.05573761

sample estimates:

cor

-0.1463841

> cor.test(test$LastT, test$Age) #r is -0.332 # -0.410 #ISH, yes

Pearson's product-moment correlation

data: test$LastT and test$Age

t = -3.8844, df = 94, p-value = 0.0001907

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5326787 -0.1852367

sample estimates:

cor

-0.3719109

> cor.test(test$LastT, test$Nburns) #r is -0.224

Pearson's product-moment correlation

data: test$LastT and test$Nburns

t = -2.4874, df = 94, p-value = 0.01463

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4276879 -0.0505429

sample estimates:

cor

-0.2485107

> cor.test(test$LastT, test$Nthins) #r is -0.083

Pearson's product-moment correlation

data: test$LastT and test$Nthins

t = -0.59135, df = 94, p-value = 0.5557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2582139 0.1413314

sample estimates:

cor

-0.06087957

> cor.test(test$LastT, test$TimeSinceB) #r is -0.005

Pearson's product-moment correlation

data: test$LastT and test$TimeSinceB

t = -0.01013, df = 94, p-value = 0.9919

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2014885 0.1994829

sample estimates:

cor

-0.001044802

> cor.test(test$LastT, test$TimeSinceT) #r is -1 # duh correlated with time since thinned

Pearson's product-moment correlation

data: test$LastT and test$TimeSinceT

t = -66.292, df = 94, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.9929772 -0.9842361

sample estimates:

cor

-0.9894737

> cor.test(test$LastT, test$HWdens\_10) #r is 0.037

Pearson's product-moment correlation

data: test$LastT and test$HWdens\_10

t = 0.13676, df = 94, p-value = 0.8915

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1869097 0.2139856

sample estimates:

cor

0.01410481

> cor.test(test$LastT, test$HWdens\_50) #r is -0.094

Pearson's product-moment correlation

data: test$LastT and test$HWdens\_50

t = -0.75239, df = 94, p-value = 0.4537

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2736126 0.1250549

sample estimates:

cor

-0.07737089

> cor.test(test$LastT, test$HWdens\_100) #r is 0.037

Pearson's product-moment correlation

data: test$LastT and test$HWdens\_100

t = 0.91746, df = 94, p-value = 0.3613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1083244 0.2892306

sample estimates:

cor

0.09420746

> cor.test(test$LastT, test$FG\_herb) #r is -0.013

Pearson's product-moment correlation

data: test$LastT and test$FG\_herb

t = 0.45325, df = 94, p-value = 0.6514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1552408 0.2448917

sample estimates:

cor

0.04669853

> cor.test(test$LastT, test$FG\_shrub) #r is 0.142 #0.316 #ISH

Pearson's product-moment correlation

data: test$LastT and test$FG\_shrub

t = 2.4752, df = 94, p-value = 0.01511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0493196 0.4266854

sample estimates:

cor

0.2473597

> cor.test(test$LastT, test$NHW\_saplings) #r is -0.114

Pearson's product-moment correlation

data: test$LastT and test$NHW\_saplings

t = -0.5675, df = 94, p-value = 0.5717

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2559206 0.1437371

sample estimates:

cor

-0.0584327

> cor.test(test$LastT, test$NP\_over\_20cm) #r is 0.104

Pearson's product-moment correlation

data: test$LastT and test$NP\_over\_20cm

t = 0.95923, df = 94, p-value = 0.3399

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1040840 0.2931558

sample estimates:

cor

0.09845648

> cor.test(test$LastT, test$Rel\_HW2P\_canopy) #r is 0.040

Pearson's product-moment correlation

data: test$LastT and test$Rel\_HW2P\_canopy

t = -0.47069, df = 94, p-value = 0.639

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2465795 0.1534874

sample estimates:

cor

-0.04849071

> cor.test(test$LastT, test$Rel\_HW2P\_shrubcover) #r is -0.067

Pearson's product-moment correlation

data: test$LastT and test$Rel\_HW2P\_shrubcover

t = -0.44125, df = 94, p-value = 0.66

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2437287 0.1564477

sample estimates:

cor

-0.04546429

> cor.test(test$LastT, test$LCR) #r is 0.053

Pearson's product-moment correlation

data: test$LastT and test$LCR

t = 0.17981, df = 93, p-value = 0.8577

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1835906 0.2193610

sample estimates:

cor

0.01864215

> cor.test(test$LastT, test$HW\_dens\_1050) #r is -0.0255

Pearson's product-moment correlation

data: test$LastT and test$HW\_dens\_1050

t = -0.32981, df = 94, p-value = 0.7423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2328957 0.1676314

sample estimates:

cor

-0.03399713

> cor.test(test$LastT, test$HW\_shrub) #r is 0.131

Pearson's product-moment correlation

data: test$LastT and test$HW\_shrub

t = 0.68192, df = 94, p-value = 0.497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1321837 0.2668933

sample estimates:

cor

0.07016162

> cor.test(test$LastT, test$Parea) #r is -0.089

Pearson's product-moment correlation

data: test$LastT and test$Parea

t = -1.0181, df = 94, p-value = 0.3112

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29866754 0.09810502

sample estimates:

cor

-0.104435

> cor.test(test$LastT, test$ShapeIndex) #r is 0.089

Pearson's product-moment correlation

data: test$LastT and test$ShapeIndex

t = 0.62816, df = 94, p-value = 0.5314

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1376156 0.2617473

sample estimates:

cor

0.06465419

> cor.test(test$LastT, test$PAratio) #r is 0.171

Pearson's product-moment correlation

data: test$LastT and test$PAratio

t = 1.7126, df = 94, p-value = 0.09009

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02749898 0.36181410

sample estimates:

cor

0.173946

> cor.test(test$LastT, test$FracDimIndex) #r is 0.116

Pearson's product-moment correlation

data: test$LastT and test$FracDimIndex

t = 0.94631, df = 94, p-value = 0.3464

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1053959 0.2919428

sample estimates:

cor

0.09714267

> cor.test(test$LastT, test$CoreAreaIndex) #r is -0.113

Pearson's product-moment correlation

data: test$LastT and test$CoreAreaIndex

t = -1.1831, df = 94, p-value = 0.2398

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3139879 0.0813342

sample estimates:

cor

-0.1211269

> cor.test(test$LastT, test$Ag500m) #r is 0.064

Pearson's product-moment correlation

data: test$LastT and test$Ag500m

t = 0.99939, df = 94, p-value = 0.3202

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1000056 0.2969183

sample estimates:

cor

0.1025362

> cor.test(test$LastT, test$Ag1km) #r is 0.047

Pearson's product-moment correlation

data: test$LastT and test$Ag1km

t = 0.78186, df = 94, p-value = 0.4363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1220711 0.2764135

sample estimates:

cor

0.08038212

> cor.test(test$LastT, test$Ag5km) #r is 0.059

Pearson's product-moment correlation

data: test$LastT and test$Ag5km

t = 0.4821, df = 94, p-value = 0.6309

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1523389 0.2476837

sample estimates:

cor

0.04966388

> cor.test(test$LastT, test$Ag30km) #r is -0.048

Pearson's product-moment correlation

data: test$LastT and test$Ag30km

t = -0.67179, df = 94, p-value = 0.5034

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2659249 0.1332077

sample estimates:

cor

-0.06912427

> cor.test(test$LastT, test$Evergreen500m) #r is -0.390 #-0.305 ISH

Pearson's product-moment correlation

data: test$LastT and test$Evergreen500m

t = -3.6894, df = 94, p-value = 0.0003764

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5191265 -0.1670842

sample estimates:

cor

-0.3556564

> cor.test(test$LastT, test$Evergreen1km) #r is -0.299

Pearson's product-moment correlation

data: test$LastT and test$Evergreen1km

t = -2.2404, df = 94, p-value = 0.02742

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40724628 -0.02582221

sample estimates:

cor

-0.2251426

> cor.test(test$LastT, test$Evergreen5km) #r is -0.161

Pearson's product-moment correlation

data: test$LastT and test$Evergreen5km

t = -0.89026, df = 94, p-value = 0.3756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2866695 0.1110835

sample estimates:

cor

-0.09143882

> cor.test(test$LastT, test$Evergreen30km) #r is -0.094

Pearson's product-moment correlation

data: test$LastT and test$Evergreen30km

t = -0.54839, df = 94, p-value = 0.5847

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2540811 0.1456633

sample estimates:

cor

-0.05647186

> cor.test(test$LastT, test$Imperv500m) #r is -0.199

Pearson's product-moment correlation

data: test$LastT and test$Imperv500m

t = -2.1324, df = 94, p-value = 0.03558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39814377 -0.01496237

sample estimates:

cor

-0.214804

> cor.test(test$LastT, test$Imperv1km) #r is 0.081

Pearson's product-moment correlation

data: test$LastT and test$Imperv1km

t = 0.65614, df = 94, p-value = 0.5133

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1347895 0.2644275

sample estimates:

cor

0.06752113

> cor.test(test$LastT, test$Imperv5km) #r is 0.312 #0.339 ISH

Pearson's product-moment correlation

data: test$LastT and test$Imperv5km

t = 3.6169, df = 94, p-value = 0.0004821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1602667 0.5139905

sample estimates:

cor

0.3495221

> cor.test(test$LastT, test$Imperv30km) #r is 0.260

Pearson's product-moment correlation

data: test$LastT and test$Imperv30km

t = 2.3302, df = 94, p-value = 0.02194

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03483005 0.41473943

sample estimates:

cor

0.2336842

> cor.test(test$LastT, test$Protected30km) #r is -0.024

Pearson's product-moment correlation

data: test$LastT and test$Protected30km

t = 0.46661, df = 94, p-value = 0.6419

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1538974 0.2461850

sample estimates:

cor

0.04807174

> cor.test(test$LastT, test$HighDev500m) #r is -0.210

Pearson's product-moment correlation

data: test$LastT and test$HighDev500m

t = -2.2016, df = 94, p-value = 0.03014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40399466 -0.02193246

sample estimates:

cor

-0.2214447

> cor.test(test$LastT, test$HighDev1km) #r is 0.106

Pearson's product-moment correlation

data: test$LastT and test$HighDev1km

t = 0.95456, df = 94, p-value = 0.3422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1045580 0.2927177

sample estimates:

cor

0.09798187

> cor.test(test$LastT, test$HighDev5km) #r is 0.311 #0.343

Pearson's product-moment correlation

data: test$LastT and test$HighDev5km

t = 3.6407, df = 94, p-value = 0.0004446

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1625111 0.5156841

sample estimates:

cor

0.3515433

> cor.test(test$LastT, test$HighDev30km) #r is 0.017

Pearson's product-moment correlation

data: test$LastT and test$HighDev30km

t = 0.24515, df = 94, p-value = 0.8069

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1761014 0.2246246

sample estimates:

cor

0.02527699

> cor.test(test$LastT, test$LowDev500m) #r is -0.228

Pearson's product-moment correlation

data: test$LastT and test$LowDev500m

t = -2.332, df = 94, p-value = 0.02183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4148944 -0.0350170

sample estimates:

cor

-0.2338611

> cor.test(test$LastT, test$LowDev1km) #r is -0.003

Pearson's product-moment correlation

data: test$LastT and test$LowDev1km

t = 0.072452, df = 94, p-value = 0.9424

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1933029 0.2076475

sample estimates:

cor

0.007472686

> cor.test(test$LastT, test$LowDev5km) #r is 0.270

Pearson's product-moment correlation

data: test$LastT and test$LowDev5km

t = 3.1046, df = 94, p-value = 0.002518

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1112760 0.4763222

sample estimates:

cor

0.3049586

> cor.test(test$LastT, test$LowDev30km) #r is 0.270

Pearson's product-moment correlation

data: test$LastT and test$LowDev30km

t = 2.6121, df = 94, p-value = 0.01048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06293616 0.43779285

sample estimates:

cor

0.2601397

> cor.test(test$LastT, test$OpenDev500m) #r is -0.065

Pearson's product-moment correlation

data: test$LastT and test$OpenDev500m

t = -0.61171, df = 94, p-value = 0.5422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2601697 0.1392760

sample estimates:

cor

-0.06296816

> cor.test(test$LastT, test$OpenDev1km) #r is -0.030

Pearson's product-moment correlation

data: test$LastT and test$OpenDev1km

t = -0.39684, df = 94, p-value = 0.6924

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2394198 0.1609083

sample estimates:

cor

-0.04089695

> cor.test(test$LastT, test$OpenDev5km) #r is 0.202

Pearson's product-moment correlation

data: test$LastT and test$OpenDev5km

t = 1.8796, df = 94, p-value = 0.06326

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01056345 0.37644719

sample estimates:

cor

0.1903256

> cor.test(test$LastT, test$OpenDev30km) #r is 0.109

Pearson's product-moment correlation

data: test$LastT and test$OpenDev30km

t = 0.99185, df = 94, p-value = 0.3238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1007712 0.2962130

sample estimates:

cor

0.1017708

> cor.test(test$LastT, test$Grass500m) #r is 0.352

Pearson's product-moment correlation

data: test$LastT and test$Grass500m

t = 2.9884, df = 94, p-value = 0.003578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09997386 0.46743764

sample estimates:

cor

0.2945559

> cor.test(test$LastT, test$Grass1km) #r is 0.306

Pearson's product-moment correlation

data: test$LastT and test$Grass1km

t = 2.2919, df = 94, p-value = 0.02414

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03099368 0.41155444

sample estimates:

cor

0.2300501

> cor.test(test$LastT, test$Grass5km) #r is 0.180

Pearson's product-moment correlation

data: test$LastT and test$Grass5km

t = 1.1692, df = 94, p-value = 0.2453

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08274676 0.31270538

sample estimates:

cor

0.1197254

> cor.test(test$LastT, test$Grass30km) #r is 0.279

Pearson's product-moment correlation

data: test$LastT and test$Grass30km

t = 2.3525, df = 94, p-value = 0.02073

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03707095 0.41659555

sample estimates:

cor

0.2358044

> cor.test(test$LastT, test$Schrubs500m) #r is 0.050

Pearson's product-moment correlation

data: test$LastT and test$Schrubs500m

t = 0.14988, df = 94, p-value = 0.8812

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1856045 0.2152755

sample estimates:

cor

0.01545662

> cor.test(test$LastT, test$Schrubs1km) #r is -0.016

Pearson's product-moment correlation

data: test$LastT and test$Schrubs1km

t = -0.71963, df = 94, p-value = 0.4735

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2704921 0.1283707

sample estimates:

cor

-0.07402031

> cor.test(test$LastT, test$Schrubs5km) #r is -0.111

Pearson's product-moment correlation

data: test$LastT and test$Schrubs5km

t = -1.3039, df = 94, p-value = 0.1954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32508897 0.06904057

sample estimates:

cor

-0.1332903

> cor.test(test$LastT, test$Schrubs30km) #r is -0.171

Pearson's product-moment correlation

data: test$LastT and test$Schrubs30km

t = -1.1736, df = 94, p-value = 0.2435

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31311537 0.08229536

sample estimates:

cor

-0.1201733

> cor.test(test$LastT, test$Water500m) #r is 0.256

Pearson's product-moment correlation

data: test$LastT and test$Water500m

t = 2.2196, df = 94, p-value = 0.02885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02373445 0.40550222

sample estimates:

cor

0.2231585

> cor.test(test$LastT, test$Water1km) #r is 0.221

Pearson's product-moment correlation

data: test$LastT and test$Water1km

t = 1.7047, df = 94, p-value = 0.09156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02830327 0.36111435

sample estimates:

cor

0.1731653

> cor.test(test$LastT, test$Water5km) #r is 0.109

Pearson's product-moment correlation

data: test$LastT and test$Water5km

t = 0.70406, df = 94, p-value = 0.4831

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1299451 0.2690075

sample estimates:

cor

0.07242771

> cor.test(test$LastT, test$Water30km) #r is -0.197

Pearson's product-moment correlation

data: test$LastT and test$Water30km

t = -1.3077, df = 94, p-value = 0.1942

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32543472 0.06865576

sample estimates:

cor

-0.1336701

> cor.test(test$LastT, test$NSoilTypes) #r is -0.238 #-0.334

Pearson's product-moment correlation

data: test$LastT and test$NSoilTypes

t = -2.9044, df = 94, p-value = 0.004587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.46093285 -0.09175872

sample estimates:

cor

-0.2869655

> cor.test(test$LastT, test$FPSiteIndex) # r is -0.060

Pearson's product-moment correlation

data: test$LastT and test$FPSiteIndex

t = -0.055427, df = 86, p-value = 0.9559

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151497 0.2037206

sample estimates:

cor

-0.005976716

> cor.test(test$LastT, test$SiteIndexPrimaryS) # r is 0.016

Pearson's product-moment correlation

data: test$LastT and test$SiteIndexPrimaryS

t = 0.38287, df = 86, p-value = 0.7028

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1696577 0.2485453

sample estimates:

cor

0.04125035

> cor.test(test$LastT, test$PISoils) # r is -0.102

Pearson's product-moment correlation

data: test$LastT and test$PISoils

t = -0.68606, df = 94, p-value = 0.4944

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2672890 0.1317651

sample estimates:

cor

-0.07058553

> cor.test(test$LastT, test$SISoils) # r is 0.348 #0.367

Pearson's product-moment correlation

data: test$LastT and test$SISoils

t = 3.7847, df = 94, p-value = 0.0002708

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1759836 0.5257928

sample estimates:

cor

0.3636396

> cor.test(test$LastT, test$HydricSoils) # r is -0.031

Pearson's product-moment correlation

data: test$LastT and test$HydricSoils

t = -0.40121, df = 94, p-value = 0.6892

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2398440 0.1604699

sample estimates:

cor

-0.04134623

> #BA by each

> #cor.test(test$BA, test$Treatment) #non-numeric

> cor.test(test$BA, test$Herbicide) # r is -0.173

Pearson's product-moment correlation

data: test$BA and test$Herbicide

t = -0.6681, df = 99, p-value = 0.5056

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2590433 0.1301476

sample estimates:

cor

-0.0669958

> cor.test(test$BA, test$LastB) # r is -0.101

Pearson's product-moment correlation

data: test$BA and test$LastB

t = -0.54311, df = 77, p-value = 0.5886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2790730 0.1615424

sample estimates:

cor

-0.06177448

> cor.test(test$BA, test$LastT) #r is -0.235

Pearson's product-moment correlation

data: test$BA and test$LastT

t = -2.5435, df = 94, p-value = 0.01261

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43224975 -0.05612342

sample estimates:

cor

-0.2537541

> #cor.test(test$BA, test$BA) #r is

> cor.test(test$BA, test$Nsnags) #r is 0.174

Pearson's product-moment correlation

data: test$BA and test$Nsnags

t = 1.4967, df = 99, p-value = 0.1376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0480840 0.3344687

sample estimates:

cor

0.1487532

> cor.test(test$BA, test$Ccover) #r is 0.825 #0.746 YES THERE IS CORRELATION HERE ! ACKNOWLEDDGE!

Pearson's product-moment correlation

data: test$BA and test$Ccover

t = 12.643, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6975126 0.8506258

sample estimates:

cor

0.7858268

> cor.test(test$BA, test$Ldepth) #r is 0.224 #0.405

Pearson's product-moment correlation

data: test$BA and test$Ldepth

t = 3.4921, df = 99, p-value = 0.0007178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1451163 0.4945914

sample estimates:

cor

0.3311633

> cor.test(test$BA, test$TreeHt) #r is -0.119

Pearson's product-moment correlation

data: test$BA and test$TreeHt

t = -0.20452, df = 99, p-value = 0.8384

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151262 0.1755935

sample estimates:

cor

-0.02055099

> cor.test(test$BA, test$Age) #r is -0.470 #ish but less now (-0.288)

Pearson's product-moment correlation

data: test$BA and test$Age

t = -4.0829, df = 99, p-value = 9.027e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5353485 -0.1989509

sample estimates:

cor

-0.3796291

> cor.test(test$BA, test$Nburns) #r is -0.494 #-.410 #high but just under 0.5 - should acknowledge !

Pearson's product-moment correlation

data: test$BA and test$Nburns

t = -5.0624, df = 99, p-value = 1.915e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5960827 -0.2831251

sample estimates:

cor

-0.453472

> cor.test(test$BA, test$Nthins) #r is -0.536 #-.406 #high but just under 0.5 - should acknowledge !

Pearson's product-moment correlation

data: test$BA and test$Nthins

t = -5.2953, df = 99, p-value = 7.176e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6093028 -0.3021093

sample estimates:

cor

-0.4698092

> cor.test(test$BA, test$TimeSinceB) #r is 0.410 #high but less now, 0.317

Pearson's product-moment correlation

data: test$BA and test$TimeSinceB

t = 3.9208, df = 99, p-value = 0.0001628

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1843860 0.5244742

sample estimates:

cor

0.3666139

> cor.test(test$BA, test$TimeSinceT) #r is 0.208

Pearson's product-moment correlation

data: test$BA and test$TimeSinceT

t = 1.8146, df = 99, p-value = 0.07262

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0166109 0.3621516

sample estimates:

cor

0.1794108

> cor.test(test$BA, test$HWdens\_10) #r is -0.462 #-0.474 #high but just under 0.5 - should acknowledge !

Pearson's product-moment correlation

data: test$BA and test$HWdens\_10

t = -5.0383, df = 99, p-value = 2.117e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5946876 -0.2811358

sample estimates:

cor

-0.4517535

> cor.test(test$BA, test$HWdens\_50) #r is -0.392 #-0.431 #high-ISH but under 0.5 - should acknowledge !

Pearson's product-moment correlation

data: test$BA and test$HWdens\_50

t = -4.5152, df = 99, p-value = 1.748e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5631910 -0.2369325

sample estimates:

cor

-0.4132365

> cor.test(test$BA, test$HWdens\_100) #r is -0.272 #-0.363

Pearson's product-moment correlation

data: test$BA and test$HWdens\_100

t = -3.2805, df = 99, p-value = 0.001432

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4792315 -0.1253509

sample estimates:

cor

-0.3131192

> cor.test(test$BA, test$FG\_herb) #r is -0.391 #-0.356 #high-ISH but under 0.5 - should acknowledge !

Pearson's product-moment correlation

data: test$BA and test$FG\_herb

t = -4.1688, df = 99, p-value = 6.567e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5410102 -0.2065933

sample estimates:

cor

-0.3864299

> cor.test(test$BA, test$FG\_shrub) #r is 0.043 #-0.363

Pearson's product-moment correlation

data: test$BA and test$FG\_shrub

t = -2.3842, df = 99, p-value = 0.01902

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4098041 -0.0393828

sample estimates:

cor

-0.2330285

> cor.test(test$BA, test$NHW\_saplings) #r is -0.035

Pearson's product-moment correlation

data: test$BA and test$NHW\_saplings

t = -1.1315, df = 99, p-value = 0.2606

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30176841 0.08430787

sample estimates:

cor

-0.1129932

> cor.test(test$BA, test$NP\_over\_20cm) #r is 0.608 #high but less $0.408

Pearson's product-moment correlation

data: test$BA and test$NP\_over\_20cm

t = 5.4478, df = 99, p-value = 3.729e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3143161 0.6177139

sample estimates:

cor

0.4802536

> cor.test(test$BA, test$Rel\_HW2P\_canopy) #r is 0.213 #0.362

Pearson's product-moment correlation

data: test$BA and test$Rel\_HW2P\_canopy

t = 3.016, df = 99, p-value = 0.003255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1003332 0.4594741

sample estimates:

cor

0.2900842

> cor.test(test$BA, test$Rel\_HW2P\_shrubcover) #r is -0.070

Pearson's product-moment correlation

data: test$BA and test$Rel\_HW2P\_shrubcover

t = -0.046319, df = 99, p-value = 0.9631

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1999125 0.1909579

sample estimates:

cor

-0.004655144

> cor.test(test$BA, test$LCR) #r is 0.142 #-0.418

Pearson's product-moment correlation

data: test$BA and test$LCR

t = 0.03772, df = 98, p-value = 0.97

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1927521 0.2000787

sample estimates:

cor

0.003810288

> cor.test(test$BA, test$HW\_dens\_1050) #r is -0.470 not -0.471

Pearson's product-moment correlation

data: test$BA and test$HW\_dens\_1050

t = -5.2024, df = 99, p-value = 1.064e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6040855 -0.2945880

sample estimates:

cor

-0.4633503

> cor.test(test$BA, test$HW\_shrub) #r is -0.145

Pearson's product-moment correlation

data: test$BA and test$HW\_shrub

t = -1.7969, df = 99, p-value = 0.0754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36063464 0.01835523

sample estimates:

cor

-0.1777216

> cor.test(test$BA, test$Parea) #r is 0.204

Pearson's product-moment correlation

data: test$BA and test$Parea

t = 2.1488, df = 99, p-value = 0.03409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01632565 0.39042352

sample estimates:

cor

0.2110914

> cor.test(test$BA, test$ShapeIndex) #r is -0.067

Pearson's product-moment correlation

data: test$BA and test$ShapeIndex

t = -0.83868, df = 99, p-value = 0.4037

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2749186 0.1133070

sample estimates:

cor

-0.08399221

> cor.test(test$BA, test$PAratio) #r is -0.152

Pearson's product-moment correlation

data: test$BA and test$PAratio

t = -1.3359, df = 99, p-value = 0.1846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32018161 0.06403533

sample estimates:

cor

-0.1330693

> cor.test(test$BA, test$FracDimIndex) #r is -0.118

Pearson's product-moment correlation

data: test$BA and test$FracDimIndex

t = -1.1586, df = 99, p-value = 0.2494

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30422669 0.08161972

sample estimates:

cor

-0.1156646

> cor.test(test$BA, test$CoreAreaIndex) #r is 0.166

Pearson's product-moment correlation

data: test$BA and test$CoreAreaIndex

t = 1.7776, df = 99, p-value = 0.07854

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02026609 0.35897054

sample estimates:

cor

0.1758698

> cor.test(test$BA, test$Ag500m) #r is 0.232

Pearson's product-moment correlation

data: test$BA and test$Ag500m

t = 1.4337, df = 99, p-value = 0.1548

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05433257 0.32889292

sample estimates:

cor

0.1426211

> cor.test(test$BA, test$Ag1km) #r is 0.298

Pearson's product-moment correlation

data: test$BA and test$Ag1km

t = 1.464, df = 99, p-value = 0.1464

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05133163 0.33157408

sample estimates:

cor

0.145568

> cor.test(test$BA, test$Ag5km) #r is 0.324

Pearson's product-moment correlation

data: test$BA and test$Ag5km

t = 2.1334, df = 99, p-value = 0.03537

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01481518 0.38914223

sample estimates:

cor

0.2096474

> cor.test(test$BA, test$Ag30km) #r is 0.427

Pearson's product-moment correlation

data: test$BA and test$Ag30km

t = 3.6445, df = 99, p-value = 0.0004289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1592017 0.5054058

sample estimates:

cor

0.3439396

> cor.test(test$BA, test$Evergreen500m) #r is -0.239

Pearson's product-moment correlation

data: test$BA and test$Evergreen500m

t = -1.9537, df = 99, p-value = 0.05356

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.374026930 0.002875653

sample estimates:

cor

-0.1926719

> cor.test(test$BA, test$Evergreen1km) #r is -0.372

Pearson's product-moment correlation

data: test$BA and test$Evergreen1km

t = -2.7449, df = 99, p-value = 0.007189

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4385804 -0.0743617

sample estimates:

cor

-0.2659361

> cor.test(test$BA, test$Evergreen5km) #r is -0.462 #less now

Pearson's product-moment correlation

data: test$BA and test$Evergreen5km

t = -3.9038, df = 99, p-value = 0.000173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5233245 -0.1828548

sample estimates:

cor

-0.3652414

> cor.test(test$BA, test$Evergreen30km) #r is -0.149

Pearson's product-moment correlation

data: test$BA and test$Evergreen30km

t = -1.2139, df = 99, p-value = 0.2277

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30922146 0.07614054

sample estimates:

cor

-0.1211008

> cor.test(test$BA, test$Imperv500m) #r is -0.112

Pearson's product-moment correlation

data: test$BA and test$Imperv500m

t = -1.2902, df = 99, p-value = 0.2

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31608554 0.06857261

sample estimates:

cor

-0.12859

> cor.test(test$BA, test$Imperv1km) #r is 0.018

Pearson's product-moment correlation

data: test$BA and test$Imperv1km

t = -0.050522, df = 99, p-value = 0.9598

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2003181 0.1905508

sample estimates:

cor

-0.005077584

> cor.test(test$BA, test$Imperv5km) #r is 0.179

Pearson's product-moment correlation

data: test$BA and test$Imperv5km

t = 1.0501, df = 99, p-value = 0.2962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09237819 0.29435723

sample estimates:

cor

0.104956

> cor.test(test$BA, test$Imperv30km) #r is -0.053

Pearson's product-moment correlation

data: test$BA and test$Imperv30km

t = -0.53368, df = 99, p-value = 0.5948

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2464193 0.1433807

sample estimates:

cor

-0.05355945

> cor.test(test$BA, test$Protected30km) #r is -0.380 #-0.407

Pearson's product-moment correlation

data: test$BA and test$Protected30km

t = -4.1389, df = 99, p-value = 7.339e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5390493 -0.2039418

sample estimates:

cor

-0.3840726

> cor.test(test$BA, test$HighDev500m) #r is 0.099

Pearson's product-moment correlation

data: test$BA and test$HighDev500m

t = 0.20403, df = 99, p-value = 0.8388

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1756419 0.2150786

sample estimates:

cor

0.02050109

> cor.test(test$BA, test$HighDev1km) #r is 0.028

Pearson's product-moment correlation

data: test$BA and test$HighDev1km

t = -0.030604, df = 99, p-value = 0.9756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1983958 0.1924792

sample estimates:

cor

-0.003075796

> cor.test(test$BA, test$HighDev5km) #r is 0.178

Pearson's product-moment correlation

data: test$BA and test$HighDev5km

t = 1.006, df = 99, p-value = 0.3168

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09674343 0.29032906

sample estimates:

cor

0.1005979

> cor.test(test$BA, test$HighDev30km) #r is -0.477

Pearson's product-moment correlation

data: test$BA and test$HighDev30km

t = -3.7388, df = 99, p-value = 0.0003097

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5119943 -0.1678527

sample estimates:

cor

-0.3517527

> cor.test(test$BA, test$LowDev500m) #r is 0.065

Pearson's product-moment correlation

data: test$BA and test$LowDev500m

t = 0.18187, df = 99, p-value = 0.8561

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1777984 0.2129546

sample estimates:

cor

0.01827595

> cor.test(test$BA, test$LowDev1km) #r is 0.106

Pearson's product-moment correlation

data: test$BA and test$LowDev1km

t = 0.65623, df = 99, p-value = 0.5132

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1313175 0.2579325

sample estimates:

cor

0.06581075

> cor.test(test$BA, test$LowDev5km) #r is 0.302

Pearson's product-moment correlation

data: test$BA and test$LowDev5km

t = 2.0357, df = 99, p-value = 0.04445

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.00520583 0.38095679

sample estimates:

cor

0.2004412

> cor.test(test$BA, test$LowDev30km) #r is -0.026

Pearson's product-moment correlation

data: test$BA and test$LowDev30km

t = -0.64367, df = 99, p-value = 0.5213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2567566 0.1325549

sample estimates:

cor

-0.06455682

> cor.test(test$BA, test$OpenDev500m) #r is 0.203

Pearson's product-moment correlation

data: test$BA and test$OpenDev500m

t = 0.99706, df = 99, p-value = 0.3212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09763288 0.28950659

sample estimates:

cor

0.09970896

> cor.test(test$BA, test$OpenDev1km) #r is 0.304

Pearson's product-moment correlation

data: test$BA and test$OpenDev1km

t = 2.0849, df = 99, p-value = 0.03966

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01004536 0.38508657

sample estimates:

cor

0.205082

> cor.test(test$BA, test$OpenDev5km) #r is 0.379 #less 0.321

Pearson's product-moment correlation

data: test$BA and test$OpenDev5km

t = 3.6521, df = 99, p-value = 0.0004179

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1599023 0.5059408

sample estimates:

cor

0.3445732

> cor.test(test$BA, test$OpenDev30km) #r is 0.296

Pearson's product-moment correlation

data: test$BA and test$OpenDev30km

t = 2.3381, df = 99, p-value = 0.0214

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03487445 0.40604071

sample estimates:

cor

0.2287546

> cor.test(test$BA, test$Grass500m) #r is -0.080

Pearson's product-moment correlation

data: test$BA and test$Grass500m

t = -0.25515, df = 99, p-value = 0.7991

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2199718 0.1706596

sample estimates:

cor

-0.02563465

> cor.test(test$BA, test$Grass1km) #r is 0.186

Pearson's product-moment correlation

data: test$BA and test$Grass1km

t = 1.5168, df = 99, p-value = 0.1325

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04609349 0.33623927

sample estimates:

cor

0.1507034

> cor.test(test$BA, test$Grass5km) #r is 0.367

Pearson's product-moment correlation

data: test$BA and test$Grass5km

t = 2.2109, df = 99, p-value = 0.02934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02242932 0.39558639

sample estimates:

cor

0.2169177

> cor.test(test$BA, test$Grass30km) #r is 0.440

Pearson's product-moment correlation

data: test$BA and test$Grass30km

t = 1.8567, df = 99, p-value = 0.06633

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01244757 0.36576421

sample estimates:

cor

0.183438

> cor.test(test$BA, test$Schrubs500m) #r is -0.023

Pearson's product-moment correlation

data: test$BA and test$Schrubs500m

t = 0.53778, df = 99, p-value = 0.5919

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1429772 0.2468062

sample estimates:

cor

0.05397018

> cor.test(test$BA, test$Schrubs1km) #r is 0.064

Pearson's product-moment correlation

data: test$BA and test$Schrubs1km

t = 1.3502, df = 99, p-value = 0.18

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06261867 0.32145758

sample estimates:

cor

0.1344662

> cor.test(test$BA, test$Schrubs5km) #r is -0.074

Pearson's product-moment correlation

data: test$BA and test$Schrubs5km

t = 0.21856, df = 99, p-value = 0.8274

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1742261 0.2164711

sample estimates:

cor

0.02196094

> cor.test(test$BA, test$Schrubs30km) #r is -0.223

Pearson's product-moment correlation

data: test$BA and test$Schrubs30km

t = -1.3753, df = 99, p-value = 0.1722

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32369426 0.06013162

sample estimates:

cor

-0.1369167

> cor.test(test$BA, test$Water500m) #r is -0.347

Pearson's product-moment correlation

data: test$BA and test$Water500m

t = -2.4006, df = 99, p-value = 0.01824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41113461 -0.04098038

sample estimates:

cor

-0.2345412

> cor.test(test$BA, test$Water1km) #r is -0.137

Pearson's product-moment correlation

data: test$BA and test$Water1km

t = -0.29126, df = 99, p-value = 0.7715

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2234214 0.1671353

sample estimates:

cor

-0.02925978

> cor.test(test$BA, test$Water5km) #r is 0.292 #0.421

Pearson's product-moment correlation

data: test$BA and test$Water5km

t = 3.7772, df = 99, p-value = 0.0002709

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1713554 0.5146504

sample estimates:

cor

0.3549089

> cor.test(test$BA, test$Water30km) #r is -0.152

Pearson's product-moment correlation

data: test$BA and test$Water30km

t = -1.1658, df = 99, p-value = 0.2465

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30487544 0.08090936

sample estimates:

cor

-0.11637

> cor.test(test$BA, test$NSoilTypes) #r is 0.137

Pearson's product-moment correlation

data: test$BA and test$NSoilTypes

t = 1.8868, df = 99, p-value = 0.06212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.009473375 0.368338010

sample estimates:

cor

0.1863108

> cor.test(test$BA, test$FPSiteIndex) # r is -0.171 #-0.330

Pearson's product-moment correlation

data: test$BA and test$FPSiteIndex

t = -2.5299, df = 91, p-value = 0.01313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43721979 -0.05553444

sample estimates:

cor

-0.2563428

> cor.test(test$BA, test$SiteIndexPrimaryS) # r is -0.110 #-0.348

Pearson's product-moment correlation

data: test$BA and test$SiteIndexPrimaryS

t = -2.392, df = 91, p-value = 0.01881

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42582858 -0.04156953

sample estimates:

cor

-0.2432182

> cor.test(test$BA, test$PISoils) # r is 0.037

Pearson's product-moment correlation

data: test$BA and test$PISoils

t = 0.057251, df = 99, p-value = 0.9545

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1898990 0.2009671

sample estimates:

cor

0.005753803

> cor.test(test$BA, test$SISoils) # r is -0.121

Pearson's product-moment correlation

data: test$BA and test$SISoils

t = -1.5243, df = 99, p-value = 0.1306

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33690312 0.04534639

sample estimates:

cor

-0.151435

> cor.test(test$BA, test$HydricSoils) # r is 0.340 #less now

Pearson's product-moment correlation

data: test$BA and test$HydricSoils

t = 2.6149, df = 99, p-value = 0.01032

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06180731 0.42833740

sample estimates:

cor

0.2541762

> #Nsnags by each

> #cor.test(test$Nsnags, test$Treatment) #non-numeric

> cor.test(test$Nsnags, test$Herbicide) # r is 0.007

Pearson's product-moment correlation

data: test$Nsnags and test$Herbicide

t = 0.26753, df = 99, p-value = 0.7896

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1694517 0.2211552

sample estimates:

cor

0.0268777

> cor.test(test$Nsnags, test$LastB) # r is -0.090

Pearson's product-moment correlation

data: test$Nsnags and test$LastB

t = 0.33929, df = 77, p-value = 0.7353

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1840454 0.2575475

sample estimates:

cor

0.03863735

> cor.test(test$Nsnags, test$LastT) #r is -0.053

Pearson's product-moment correlation

data: test$Nsnags and test$LastT

t = 0.049176, df = 94, p-value = 0.9609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1956128 0.2053491

sample estimates:

cor

0.005072008

> cor.test(test$Nsnags, test$BA) #r is 0.174

Pearson's product-moment correlation

data: test$Nsnags and test$BA

t = 1.4967, df = 99, p-value = 0.1376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0480840 0.3344687

sample estimates:

cor

0.1487532

> #cor.test(test$Nsnags, test$Nsnags) #r is

> cor.test(test$Nsnags, test$Ccover) #r is 0.192

Pearson's product-moment correlation

data: test$Nsnags and test$Ccover

t = 1.3292, df = 99, p-value = 0.1868

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06469948 0.31958294

sample estimates:

cor

0.1324141

> cor.test(test$Nsnags, test$Ldepth) #r is -0.075

Pearson's product-moment correlation

data: test$Nsnags and test$Ldepth

t = -0.68459, df = 99, p-value = 0.4952

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2605847 0.1285222

sample estimates:

cor

-0.06864124

> cor.test(test$Nsnags, test$TreeHt) #r is -0.051

Pearson's product-moment correlation

data: test$Nsnags and test$TreeHt

t = -0.16063, df = 99, p-value = 0.8727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2109160 0.1798645

sample estimates:

cor

-0.01614217

> cor.test(test$Nsnags, test$Age) #r is 0.078 # interesting that NOT

Pearson's product-moment correlation

data: test$Nsnags and test$Age

t = 0.13941, df = 99, p-value = 0.8894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1819275 0.2088772

sample estimates:

cor

0.0140099

> cor.test(test$Nsnags, test$Nburns) #r is -0.040

Pearson's product-moment correlation

data: test$Nsnags and test$Nburns

t = -0.67503, df = 99, p-value = 0.5012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2596916 0.1294641

sample estimates:

cor

-0.06768779

> cor.test(test$Nsnags, test$Nthins) #r is -0.296

Pearson's product-moment correlation

data: test$Nsnags and test$Nthins

t = -2.8759, df = 99, p-value = 0.004934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44875747 -0.08695069

sample estimates:

cor

-0.2776713

> cor.test(test$Nsnags, test$TimeSinceB) #r is 0.160

Pearson's product-moment correlation

data: test$Nsnags and test$TimeSinceB

t = 0.73415, df = 99, p-value = 0.4646

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1236322 0.2652103

sample estimates:

cor

0.0735851

> cor.test(test$Nsnags, test$TimeSinceT) #r is 0.164

Pearson's product-moment correlation

data: test$Nsnags and test$TimeSinceT

t = 1.723, df = 99, p-value = 0.088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0256619 0.3542585

sample estimates:

cor

0.1706332

> cor.test(test$Nsnags, test$HWdens\_10) #r is -0.282 #-0.325

Pearson's product-moment correlation

data: test$Nsnags and test$HWdens\_10

t = -3.101, df = 99, p-value = 0.002512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4658946 -0.1084136

sample estimates:

cor

-0.2975483

> cor.test(test$Nsnags, test$HWdens\_50) #r is -0.139

Pearson's product-moment correlation

data: test$Nsnags and test$HWdens\_50

t = -1.6374, df = 99, p-value = 0.1047

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34681539 0.03414009

sample estimates:

cor

-0.1623826

> cor.test(test$Nsnags, test$HWdens\_100) #r is -0.150

Pearson's product-moment correlation

data: test$Nsnags and test$HWdens\_100

t = -1.134, df = 99, p-value = 0.2595

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30199688 0.08405827

sample estimates:

cor

-0.1132414

> cor.test(test$Nsnags, test$FG\_herb) #r is -0.011

Pearson's product-moment correlation

data: test$Nsnags and test$FG\_herb

t = -0.35881, df = 99, p-value = 0.7205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2298585 0.1605318

sample estimates:

cor

-0.03603816

> cor.test(test$Nsnags, test$FG\_shrub) #r is 0.106

Pearson's product-moment correlation

data: test$Nsnags and test$FG\_shrub

t = 0.38406, df = 99, p-value = 0.7018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1580598 0.2322594

sample estimates:

cor

0.03857096

> cor.test(test$Nsnags, test$NHW\_saplings) #r is -0.171

Pearson's product-moment correlation

data: test$Nsnags and test$NHW\_saplings

t = -1.9958, df = 99, p-value = 0.0487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.377595349 -0.001279634

sample estimates:

cor

-0.1966697

> cor.test(test$Nsnags, test$NP\_over\_20cm) #r is 0.184

Pearson's product-moment correlation

data: test$Nsnags and test$NP\_over\_20cm

t = 1.7579, df = 99, p-value = 0.08186

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02221368 0.35727196

sample estimates:

cor

0.1739809

> cor.test(test$Nsnags, test$Rel\_HW2P\_canopy) #r is -0.021

Pearson's product-moment correlation

data: test$Nsnags and test$Rel\_HW2P\_canopy

t = -0.088674, df = 99, p-value = 0.9295

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2039957 0.1868530

sample estimates:

cor

-0.008911718

> cor.test(test$Nsnags, test$Rel\_HW2P\_shrubcover) #r is -0.158

Pearson's product-moment correlation

data: test$Nsnags and test$Rel\_HW2P\_shrubcover

t = -0.85959, df = 99, p-value = 0.3921

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2768533 0.1112393

sample estimates:

cor

-0.08607121

> cor.test(test$Nsnags, test$LCR) #r is -0.091

Pearson's product-moment correlation

data: test$Nsnags and test$LCR

t = -0.26569, df = 98, p-value = 0.791

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2220769 0.1704875

sample estimates:

cor

-0.02682908

> cor.test(test$Nsnags, test$HW\_dens\_1050) #r is -0.232

Pearson's product-moment correlation

data: test$Nsnags and test$HW\_dens\_1050

t = -2.5015, df = 99, p-value = 0.01401

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41927878 -0.05080036

sample estimates:

cor

-0.2438189

> cor.test(test$Nsnags, test$HW\_shrub) #r is -0.062

Pearson's product-moment correlation

data: test$Nsnags and test$HW\_shrub

t = -1.2601, df = 99, p-value = 0.2106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31338474 0.07155565

sample estimates:

cor

-0.1256407

> cor.test(test$Nsnags, test$Parea) #r is 0.034

Pearson's product-moment correlation

data: test$Nsnags and test$Parea

t = 0.40803, df = 99, p-value = 0.6841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1557120 0.2345354

sample estimates:

cor

0.04097424

> cor.test(test$Nsnags, test$ShapeIndex) #r is 0.013

Pearson's product-moment correlation

data: test$Nsnags and test$ShapeIndex

t = 0.34127, df = 99, p-value = 0.7336

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1622472 0.2281895

sample estimates:

cor

0.03427901

> cor.test(test$Nsnags, test$PAratio) #r is 0.052

Pearson's product-moment correlation

data: test$Nsnags and test$PAratio

t = -0.033405, df = 99, p-value = 0.9734

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1986662 0.1922081

sample estimates:

cor

-0.003357299

> cor.test(test$Nsnags, test$FracDimIndex) #r is -0.019

Pearson's product-moment correlation

data: test$Nsnags and test$FracDimIndex

t = 0.12225, df = 99, p-value = 0.9029

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1835941 0.2072277

sample estimates:

cor

0.01228603

> cor.test(test$Nsnags, test$CoreAreaIndex) #r is 0.028

Pearson's product-moment correlation

data: test$Nsnags and test$CoreAreaIndex

t = 0.018345, df = 99, p-value = 0.9854

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1936653 0.1972120

sample estimates:

cor

0.001843767

> cor.test(test$Nsnags, test$Ag500m) #r is 0.110

Pearson's product-moment correlation

data: test$Nsnags and test$Ag500m

t = 1.3755, df = 99, p-value = 0.1721

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06011155 0.32371229

sample estimates:

cor

0.1369365

> cor.test(test$Nsnags, test$Ag1km) #r is 0.070

Pearson's product-moment correlation

data: test$Nsnags and test$Ag1km

t = 0.81734, df = 99, p-value = 0.4157

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1154163 0.2729418

sample estimates:

cor

0.08186973

> cor.test(test$Nsnags, test$Ag5km) #r is 0.079

Pearson's product-moment correlation

data: test$Nsnags and test$Ag5km

t = 0.94775, df = 99, p-value = 0.3456

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1025161 0.2849810

sample estimates:

cor

0.09482304

> cor.test(test$Nsnags, test$Ag30km) #r is 0.075

Pearson's product-moment correlation

data: test$Nsnags and test$Ag30km

t = 0.53177, df = 99, p-value = 0.5961

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1435678 0.2462399

sample estimates:

cor

0.05336898

> cor.test(test$Nsnags, test$Evergreen500m) #r is -0.216

Pearson's product-moment correlation

data: test$Nsnags and test$Evergreen500m

t = -2.0243, df = 99, p-value = 0.04563

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.379997532 -0.004084221

sample estimates:

cor

-0.1993643

> cor.test(test$Nsnags, test$Evergreen1km) #r is -0.223

Pearson's product-moment correlation

data: test$Nsnags and test$Evergreen1km

t = -2.2117, df = 99, p-value = 0.02928

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39565138 -0.02250633

sample estimates:

cor

-0.2169911

> cor.test(test$Nsnags, test$Evergreen5km) #r is -0.056

Pearson's product-moment correlation

data: test$Nsnags and test$Evergreen5km

t = -0.87172, df = 99, p-value = 0.3855

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2779742 0.1100399

sample estimates:

cor

-0.08727636

> cor.test(test$Nsnags, test$Evergreen30km) #r is 0.142

Pearson's product-moment correlation

data: test$Nsnags and test$Evergreen30km

t = 0.29107, df = 99, p-value = 0.7716

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1671538 0.2234033

sample estimates:

cor

0.02924073

> cor.test(test$Nsnags, test$Imperv500m) #r is -0.054

Pearson's product-moment correlation

data: test$Nsnags and test$Imperv500m

t = -0.50248, df = 99, p-value = 0.6164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2434762 0.1464458

sample estimates:

cor

-0.05043699

> cor.test(test$Nsnags, test$Imperv1km) #r is -0.096

Pearson's product-moment correlation

data: test$Nsnags and test$Imperv1km

t = -0.88336, df = 99, p-value = 0.3792

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2790495 0.1088881

sample estimates:

cor

-0.08843316

> cor.test(test$Nsnags, test$Imperv5km) #r is -0.149

Pearson's product-moment correlation

data: test$Nsnags and test$Imperv5km

t = -1.0226, df = 99, p-value = 0.309

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29184021 0.09510757

sample estimates:

cor

-0.102232

> cor.test(test$Nsnags, test$Imperv30km) #r is -0.097

Pearson's product-moment correlation

data: test$Nsnags and test$Imperv30km

t = -1.0905, df = 99, p-value = 0.2781

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29804135 0.08837276

sample estimates:

cor

-0.1089482

> cor.test(test$Nsnags, test$Protected30km) #r is 0.208

Pearson's product-moment correlation

data: test$Nsnags and test$Protected30km

t = 2.3341, df = 99, p-value = 0.02161

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03448599 0.40571585

sample estimates:

cor

0.228386

> cor.test(test$Nsnags, test$HighDev500m) #r is -0.061

Pearson's product-moment correlation

data: test$Nsnags and test$HighDev500m

t = -0.68062, df = 99, p-value = 0.4977

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2602138 0.1289134

sample estimates:

cor

-0.06824526

> cor.test(test$Nsnags, test$HighDev1km) #r is -0.075

Pearson's product-moment correlation

data: test$Nsnags and test$HighDev1km

t = -0.6709, df = 99, p-value = 0.5038

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2593046 0.1298721

sample estimates:

cor

-0.06727474

> cor.test(test$Nsnags, test$HighDev5km) #r is -0.150

Pearson's product-moment correlation

data: test$Nsnags and test$HighDev5km

t = -1.0463, df = 99, p-value = 0.298

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29401087 0.09275412

sample estimates:

cor

-0.104581

> cor.test(test$Nsnags, test$HighDev30km) #r is -0.108

Pearson's product-moment correlation

data: test$Nsnags and test$HighDev30km

t = -0.7112, df = 99, p-value = 0.4786

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2630699 0.1258972

sample estimates:

cor

-0.07129631

> cor.test(test$Nsnags, test$LowDev500m) #r is -0.088

Pearson's product-moment correlation

data: test$Nsnags and test$LowDev500m

t = -0.79881, df = 99, p-value = 0.4263

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2712228 0.1172475

sample estimates:

cor

-0.08002554

> cor.test(test$Nsnags, test$LowDev1km) #r is -0.006

Pearson's product-moment correlation

data: test$Nsnags and test$LowDev1km

t = -0.43861, df = 99, p-value = 0.6619

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2374353 0.1527140

sample estimates:

cor

-0.04403968

> cor.test(test$Nsnags, test$LowDev5km) #r is -0.129

Pearson's product-moment correlation

data: test$Nsnags and test$LowDev5km

t = -1.0146, df = 99, p-value = 0.3128

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29111218 0.09589594

sample estimates:

cor

-0.1014446

> cor.test(test$Nsnags, test$LowDev30km) #r is -0.076

Pearson's product-moment correlation

data: test$Nsnags and test$LowDev30km

t = -0.97259, df = 99, p-value = 0.3331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2872627 0.1000564

sample estimates:

cor

-0.09728523

> cor.test(test$Nsnags, test$OpenDev500m) #r is 0.158

Pearson's product-moment correlation

data: test$Nsnags and test$OpenDev500m

t = 1.665, df = 99, p-value = 0.09907

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03140496 0.34922184

sample estimates:

cor

0.1650473

> cor.test(test$Nsnags, test$OpenDev1km) #r is 0.127

Pearson's product-moment correlation

data: test$Nsnags and test$OpenDev1km

t = 1.248, df = 99, p-value = 0.215

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07275686 0.31229542

sample estimates:

cor

0.1244521

> cor.test(test$Nsnags, test$OpenDev5km) #r is -0.052

Pearson's product-moment correlation

data: test$Nsnags and test$OpenDev5km

t = -0.31024, df = 99, p-value = 0.757

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2252329 0.1652804

sample estimates:

cor

-0.03116553

> cor.test(test$Nsnags, test$OpenDev30km) #r is 0.067

Pearson's product-moment correlation

data: test$Nsnags and test$OpenDev30km

t = 0.22655, df = 99, p-value = 0.8212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1734473 0.2172364

sample estimates:

cor

0.02276361

> cor.test(test$Nsnags, test$Grass500m) #r is -0.049

Pearson's product-moment correlation

data: test$Nsnags and test$Grass500m

t = -0.20512, df = 99, p-value = 0.8379

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151833 0.1755356

sample estimates:

cor

-0.02061079

> cor.test(test$Nsnags, test$Grass1km) #r is 0.051

Pearson's product-moment correlation

data: test$Nsnags and test$Grass1km

t = 0.8375, df = 99, p-value = 0.4043

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1134237 0.2748093

sample estimates:

cor

0.08387487

> cor.test(test$Nsnags, test$Grass5km) #r is 0.173

Pearson's product-moment correlation

data: test$Nsnags and test$Grass5km

t = 0.85941, df = 99, p-value = 0.3922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1112566 0.2768372

sample estimates:

cor

0.08605382

> cor.test(test$Nsnags, test$Grass30km) #r is 0.116

Pearson's product-moment correlation

data: test$Nsnags and test$Grass30km

t = 0.12361, df = 99, p-value = 0.9019

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1834624 0.2073581

sample estimates:

cor

0.01242223

> cor.test(test$Nsnags, test$Schrubs500m) #r is 0.087

Pearson's product-moment correlation

data: test$Nsnags and test$Schrubs500m

t = 0.038753, df = 99, p-value = 0.9692

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1916904 0.1991825

sample estimates:

cor

0.003894822

> cor.test(test$Nsnags, test$Schrubs1km) #r is 0.083

Pearson's product-moment correlation

data: test$Nsnags and test$Schrubs1km

t = 0.22143, df = 99, p-value = 0.8252

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1739462 0.2167462

sample estimates:

cor

0.02224944

> cor.test(test$Nsnags, test$Schrubs5km) #r is 0.202

Pearson's product-moment correlation

data: test$Nsnags and test$Schrubs5km

t = 1.9158, df = 99, p-value = 0.05828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.006615587 0.370805631

sample estimates:

cor

0.1890681

> cor.test(test$Nsnags, test$Schrubs30km) #r is -0.029

Pearson's product-moment correlation

data: test$Nsnags and test$Schrubs30km

t = -0.79443, df = 99, p-value = 0.4288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2708171 0.1176794

sample estimates:

cor

-0.07959041

> cor.test(test$Nsnags, test$Water500m) #r is -0.155

Pearson's product-moment correlation

data: test$Nsnags and test$Water500m

t = -1.2534, df = 99, p-value = 0.213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31278678 0.07221516

sample estimates:

cor

-0.1249881

> cor.test(test$Nsnags, test$Water1km) #r is -0.161

Pearson's product-moment correlation

data: test$Nsnags and test$Water1km

t = -1.3986, df = 99, p-value = 0.165

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32577572 0.05781288

sample estimates:

cor

-0.1391992

> cor.test(test$Nsnags, test$Water5km) #r is 0.141

Pearson's product-moment correlation

data: test$Nsnags and test$Water5km

t = 1.3271, df = 99, p-value = 0.1875

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06490456 0.31939801

sample estimates:

cor

0.1322118

> cor.test(test$Nsnags, test$Water30km) #r is 0.417 #0.403

Pearson's product-moment correlation

data: test$Nsnags and test$Water30km

t = 4.469, df = 99, p-value = 2.093e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2329323 0.5602931

sample estimates:

cor

0.4097195

> cor.test(test$Nsnags, test$NSoilTypes) #r is 0.174

Pearson's product-moment correlation

data: test$Nsnags and test$NSoilTypes

t = 1.6492, df = 99, p-value = 0.1023

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0329761 0.3478401

sample estimates:

cor

0.163517

> cor.test(test$Nsnags, test$FPSiteIndex) # r is 0.100

Pearson's product-moment correlation

data: test$Nsnags and test$FPSiteIndex

t = 0.50385, df = 91, p-value = 0.6156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1526037 0.2537263

sample estimates:

cor

0.05274416

> cor.test(test$Nsnags, test$SiteIndexPrimaryS) # r is 0.074

Pearson's product-moment correlation

data: test$Nsnags and test$SiteIndexPrimaryS

t = 0.23292, df = 91, p-value = 0.8163

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1801951 0.2269888

sample estimates:

cor

0.02440921

> cor.test(test$Nsnags, test$PISoils) # r is 0.131

Pearson's product-moment correlation

data: test$Nsnags and test$PISoils

t = 1.1477, df = 99, p-value = 0.2539

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0827042 0.3032356

sample estimates:

cor

0.1145872

> cor.test(test$Nsnags, test$SISoils) # r is -0.207

Pearson's product-moment correlation

data: test$Nsnags and test$SISoils

t = -1.3591, df = 99, p-value = 0.1772

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32225759 0.06172965

sample estimates:

cor

-0.1353424

> cor.test(test$Nsnags, test$HydricSoils) # r is 0.146

Pearson's product-moment correlation

data: test$Nsnags and test$HydricSoils

t = 0.42896, df = 99, p-value = 0.6689

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1536608 0.2365202

sample estimates:

cor

0.04307197

> #Ccover by each

> #cor.test(test$Ccover, test$Treatment) #non-numeric

> cor.test(test$Ccover, test$Herbicide) # r is -0.209

Pearson's product-moment correlation

data: test$Ccover and test$Herbicide

t = -1.5524, df = 99, p-value = 0.1238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33937145 0.04256479

sample estimates:

cor

-0.1541569

> cor.test(test$Ccover, test$LastB) # r is -0.164

Pearson's product-moment correlation

data: test$Ccover and test$LastB

t = -1.4881, df = 77, p-value = 0.1408

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.37446817 0.05597803

sample estimates:

cor

-0.1672019

> cor.test(test$Ccover, test$LastT) #r is -0.203 #-0.407

Pearson's product-moment correlation

data: test$Ccover and test$LastT

t = -3.1113, df = 94, p-value = 0.002467

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4768363 -0.1119329

sample estimates:

cor

-0.3055617

> cor.test(test$Ccover, test$BA) #r is 0.825 # HIGH #0.746

Pearson's product-moment correlation

data: test$Ccover and test$BA

t = 12.643, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6975126 0.8506258

sample estimates:

cor

0.7858268

> cor.test(test$Ccover, test$Nsnags) #r is 0.192

Pearson's product-moment correlation

data: test$Ccover and test$Nsnags

t = 1.3292, df = 99, p-value = 0.1868

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06469948 0.31958294

sample estimates:

cor

0.1324141

> #cor.test(test$Ccover, test$Ccover) #r is

> cor.test(test$Ccover, test$Ldepth) #r is 0.305 #somewhat high? #0.442 - acknowledge

Pearson's product-moment correlation

data: test$Ccover and test$Ldepth

t = 4.3083, df = 99, p-value = 3.882e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2189132 0.5500736

sample estimates:

cor

0.3973521

> cor.test(test$Ccover, test$TreeHt) #r is 0.139

Pearson's product-moment correlation

data: test$Ccover and test$TreeHt

t = 1.5986, df = 99, p-value = 0.1131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0379867 0.3434225

sample estimates:

cor

0.1586303

> cor.test(test$Ccover, test$Age) #r is -0.321 #maybe somewhat high? but well under 0.5

Pearson's product-moment correlation

data: test$Ccover and test$Age

t = -2.2986, df = 99, p-value = 0.02363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40280844 -0.03101433

sample estimates:

cor

-0.2250892

> cor.test(test$Ccover, test$Nburns) #r is -0.485 #high -0.483 - should acknowledge !

Pearson's product-moment correlation

data: test$Ccover and test$Nburns

t = -5.5298, df = 99, p-value = 2.614e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6221523 -0.3207981

sample estimates:

cor

-0.4857806

> cor.test(test$Ccover, test$Nthins) #r is -0.467 #high -0.435 - should acknowledge !

Pearson's product-moment correlation

data: test$Ccover and test$Nthins

t = -5.0027, df = 99, p-value = 2.454e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5926165 -0.2781877

sample estimates:

cor

-0.4492043

> cor.test(test$Ccover, test$TimeSinceB) #r is 0.391 #high-ISH but still under 0.5 - acknowledge !

Pearson's product-moment correlation

data: test$Ccover and test$TimeSinceB

t = 3.6199, df = 99, p-value = 0.0004666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1569358 0.5036734

sample estimates:

cor

0.3418889

> cor.test(test$Ccover, test$TimeSinceT) #r is 0.200 #0.343 # interesting that less than burning

Pearson's product-moment correlation

data: test$Ccover and test$TimeSinceT

t = 2.6927, df = 99, p-value = 0.008325

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06932572 0.43448293

sample estimates:

cor

0.2612257

> cor.test(test$Ccover, test$HWdens\_10) #r is -0.385 #high #-0.507 - acknowledge !

Pearson's product-moment correlation

data: test$Ccover and test$HWdens\_10

t = -4.6483, df = 99, p-value = 1.034e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5714301 -0.2483666

sample estimates:

cor

-0.4232606

> cor.test(test$Ccover, test$HWdens\_50) #r is -0.344 #ditto above #-0.374

Pearson's product-moment correlation

data: test$Ccover and test$HWdens\_50

t = -3.8374, df = 99, p-value = 0.0002191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5187944 -0.1768375

sample estimates:

cor

-0.3598403

> cor.test(test$Ccover, test$HWdens\_100) #r is -0.196

Pearson's product-moment correlation

data: test$Ccover and test$HWdens\_100

t = -2.0883, df = 99, p-value = 0.03933

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38537917 -0.01038891

sample estimates:

cor

-0.2054111

> cor.test(test$Ccover, test$FG\_herb) #r is -0.376 #highish #-0.309 - acknowledge !

Pearson's product-moment correlation

data: test$Ccover and test$FG\_herb

t = -3.895, df = 99, p-value = 0.0001785

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5227225 -0.1820537

sample estimates:

cor

-0.3645231

> cor.test(test$Ccover, test$FG\_shrub) #r is -0.122 #-0.523 HIGH

Pearson's product-moment correlation

data: test$Ccover and test$FG\_shrub

t = -4.2772, df = 99, p-value = 4.369e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5480673 -0.2161769

sample estimates:

cor

-0.3949306

> cor.test(test$Ccover, test$NHW\_saplings) #r is 0.056

Pearson's product-moment correlation

data: test$Ccover and test$NHW\_saplings

t = 0.55562, df = 99, p-value = 0.5797

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1412229 0.2484868

sample estimates:

cor

0.05575528

> cor.test(test$Ccover, test$NP\_over\_20cm) #r is 0.508 # it's less #0.311 acknowledge but makes sense

Pearson's product-moment correlation

data: test$Ccover and test$NP\_over\_20cm

t = 4.0047, df = 99, p-value = 0.0001202

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1919487 0.5301345

sample estimates:

cor

0.3733808

> cor.test(test$Ccover, test$Rel\_HW2P\_canopy) #r is 0.258 # as should be #0.379

Pearson's product-moment correlation

data: test$Ccover and test$Rel\_HW2P\_canopy

t = 3.3672, df = 99, p-value = 0.001083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1334777 0.4855733

sample estimates:

cor

0.3205547

> cor.test(test$Ccover, test$Rel\_HW2P\_shrubcover) #r is -0.089

Pearson's product-moment correlation

data: test$Ccover and test$Rel\_HW2P\_shrubcover

t = -0.64609, df = 99, p-value = 0.5197

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2569828 0.1323170

sample estimates:

cor

-0.06479798

> cor.test(test$Ccover, test$LCR) # -0.347

Pearson's product-moment correlation

data: test$Ccover and test$LCR

t = 0.16641, df = 98, p-value = 0.8682

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1802050 0.2125245

sample estimates:

cor

0.016808

> cor.test(test$Ccover, test$HW\_dens\_1050) #r is -0.401 #-0.457

Pearson's product-moment correlation

data: test$Ccover and test$HW\_dens\_1050

t = -4.6092, df = 99, p-value = 1.208e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5690244 -0.2450186

sample estimates:

cor

-0.4203299

> cor.test(test$Ccover, test$HW\_shrub) #r is -0.026

Pearson's product-moment correlation

data: test$Ccover and test$HW\_shrub

t = -0.50182, df = 99, p-value = 0.6169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2434140 0.1465106

sample estimates:

cor

-0.05037099

> cor.test(test$Ccover, test$Parea) #r is 0.104

Pearson's product-moment correlation

data: test$Ccover and test$Parea

t = 1.0442, df = 99, p-value = 0.2989

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09296022 0.29382094

sample estimates:

cor

0.1043753

> cor.test(test$Ccover, test$ShapeIndex) #r is -0.108

Pearson's product-moment correlation

data: test$Ccover and test$ShapeIndex

t = -1.3312, df = 99, p-value = 0.1862

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31976482 0.06449775

sample estimates:

cor

-0.1326132

> cor.test(test$Ccover, test$PAratio) #r is -0.058

Pearson's product-moment correlation

data: test$Ccover and test$PAratio

t = -0.37675, df = 99, p-value = 0.7072

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2315642 0.1587760

sample estimates:

cor

-0.03783736

> cor.test(test$Ccover, test$FracDimIndex) #r is -0.102

Pearson's product-moment correlation

data: test$Ccover and test$FracDimIndex

t = -1.2005, df = 99, p-value = 0.2328

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30801669 0.07746429

sample estimates:

cor

-0.1197885

> cor.test(test$Ccover, test$CoreAreaIndex) #r is 0.054

Pearson's product-moment correlation

data: test$Ccover and test$CoreAreaIndex

t = 0.59442, df = 99, p-value = 0.5536

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1374052 0.2521361

sample estimates:

cor

0.05963551

> cor.test(test$Ccover, test$Ag500m) #r is 0.258

Pearson's product-moment correlation

data: test$Ccover and test$Ag500m

t = 2.2278, df = 99, p-value = 0.02815

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0240859 0.3969836

sample estimates:

cor

0.2184966

> cor.test(test$Ccover, test$Ag1km) #r is 0.294

Pearson's product-moment correlation

data: test$Ccover and test$Ag1km

t = 1.9863, df = 99, p-value = 0.04976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0003459114 0.3767944722

sample estimates:

cor

0.1957719

> cor.test(test$Ccover, test$Ag5km) #r is 0.392

Pearson's product-moment correlation

data: test$Ccover and test$Ag5km

t = 2.7962, df = 99, p-value = 0.006213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07930014 0.44258385

sample estimates:

cor

0.2705464

> cor.test(test$Ccover, test$Ag30km) #r is 0.428

Pearson's product-moment correlation

data: test$Ccover and test$Ag30km

t = 2.9538, df = 99, p-value = 0.003922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09440075 0.45473630

sample estimates:

cor

0.2845894

> cor.test(test$Ccover, test$Evergreen500m) #r is -0.217

Pearson's product-moment correlation

data: test$Ccover and test$Evergreen500m

t = -1.2991, df = 99, p-value = 0.1969

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31688946 0.06768335

sample estimates:

cor

-0.1294685

> cor.test(test$Ccover, test$Evergreen1km) #r is -0.421

Pearson's product-moment correlation

data: test$Ccover and test$Evergreen1km

t = -2.9037, df = 99, p-value = 0.004547

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45090172 -0.08961794

sample estimates:

cor

-0.2801504

> cor.test(test$Ccover, test$Evergreen5km) #r is -0.517

Pearson's product-moment correlation

data: test$Ccover and test$Evergreen5km

t = -4.1071, df = 99, p-value = 8.255e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5369530 -0.2011125

sample estimates:

cor

-0.3815547

> cor.test(test$Ccover, test$Evergreen30km) #r is -0.224

Pearson's product-moment correlation

data: test$Ccover and test$Evergreen30km

t = -1.0998, df = 99, p-value = 0.2741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29888390 0.08745495

sample estimates:

cor

-0.1098621

> cor.test(test$Ccover, test$Imperv500m) #r is -0.087

Pearson's product-moment correlation

data: test$Ccover and test$Imperv500m

t = -0.60074, df = 99, p-value = 0.5494

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2527290 0.1367838

sample estimates:

cor

-0.06026653

> cor.test(test$Ccover, test$Imperv1km) #r is 0.044

Pearson's product-moment correlation

data: test$Ccover and test$Imperv1km

t = 0.18248, df = 99, p-value = 0.8556

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1777392 0.2130129

sample estimates:

cor

0.01833705

> cor.test(test$Ccover, test$Imperv5km) #r is 0.126

Pearson's product-moment correlation

data: test$Ccover and test$Imperv5km

t = 0.10183, df = 99, p-value = 0.9191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1855766 0.2052625

sample estimates:

cor

0.0102338

> cor.test(test$Ccover, test$Imperv30km) #r is 0.095

Pearson's product-moment correlation

data: test$Ccover and test$Imperv30km

t = 0.061811, df = 99, p-value = 0.9508

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1894571 0.2014069

sample estimates:

cor

0.006212144

> cor.test(test$Ccover, test$Protected30km) #r is -0.356

Pearson's product-moment correlation

data: test$Ccover and test$Protected30km

t = -2.5592, df = 99, p-value = 0.012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42390665 -0.05641243

sample estimates:

cor

-0.2491053

> cor.test(test$Ccover, test$HighDev500m) #r is 0.116

Pearson's product-moment correlation

data: test$Ccover and test$HighDev500m

t = 1.0753, df = 99, p-value = 0.2848

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08987845 0.29665779

sample estimates:

cor

0.1074482

> cor.test(test$Ccover, test$HighDev1km) #r is 0.060

Pearson's product-moment correlation

data: test$Ccover and test$HighDev1km

t = 0.19311, df = 99, p-value = 0.8473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1767052 0.2140317

sample estimates:

cor

0.01940414

> cor.test(test$Ccover, test$HighDev5km) #r is 0.120

Pearson's product-moment correlation

data: test$Ccover and test$HighDev5km

t = 0.042806, df = 99, p-value = 0.9659

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1912979 0.1995736

sample estimates:

cor

0.004302161

> cor.test(test$Ccover, test$HighDev30km) #r is -0.533 #less now

Pearson's product-moment correlation

data: test$Ccover and test$HighDev30km

t = -4.2705, df = 99, p-value = 4.482e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5476343 -0.2155871

sample estimates:

cor

-0.3944083

> cor.test(test$Ccover, test$LowDev500m) #r is -0.019

Pearson's product-moment correlation

data: test$Ccover and test$LowDev500m

t = 0.36665, df = 99, p-value = 0.7147

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1597642 0.2306045

sample estimates:

cor

0.03682487

> cor.test(test$Ccover, test$LowDev1km) #r is 0.098

Pearson's product-moment correlation

data: test$Ccover and test$LowDev1km

t = 0.94926, df = 99, p-value = 0.3448

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1023667 0.2851196

sample estimates:

cor

0.09497259

> cor.test(test$Ccover, test$LowDev5km) #r is 0.215

Pearson's product-moment correlation

data: test$Ccover and test$LowDev5km

t = 0.86698, df = 99, p-value = 0.388

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1105078 0.2775370

sample estimates:

cor

0.08680628

> cor.test(test$Ccover, test$LowDev30km) #r is 0.123

Pearson's product-moment correlation

data: test$Ccover and test$LowDev30km

t = 0.13552, df = 99, p-value = 0.8925

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1823051 0.2085037

sample estimates:

cor

0.01361939

> cor.test(test$Ccover, test$OpenDev500m) #r is 0.108

Pearson's product-moment correlation

data: test$Ccover and test$OpenDev500m

t = 1.1328, df = 99, p-value = 0.2601

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08418522 0.30188069

sample estimates:

cor

0.1131151

> cor.test(test$Ccover, test$OpenDev1km) #r is 0.224

Pearson's product-moment correlation

data: test$Ccover and test$OpenDev1km

t = 1.7901, df = 99, p-value = 0.0765

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01903098 0.36004643

sample estimates:

cor

0.1770669

> cor.test(test$Ccover, test$OpenDev5km) #r is 0.280

Pearson's product-moment correlation

data: test$Ccover and test$OpenDev5km

t = 1.6877, df = 99, p-value = 0.09461

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0291589 0.3511942

sample estimates:

cor

0.1672334

> cor.test(test$Ccover, test$OpenDev30km) #r is 0.379

Pearson's product-moment correlation

data: test$Ccover and test$OpenDev30km

t = 2.6288, df = 99, p-value = 0.009934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06315632 0.42944258

sample estimates:

cor

0.2554426

> cor.test(test$Ccover, test$Grass500m) #r is -0.209

Pearson's product-moment correlation

data: test$Ccover and test$Grass500m

t = -2.2245, df = 99, p-value = 0.02839

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39670389 -0.02375412

sample estimates:

cor

-0.2181805

> cor.test(test$Ccover, test$Grass1km) #r is 0.097

Pearson's product-moment correlation

data: test$Ccover and test$Grass1km

t = 0.58607, df = 99, p-value = 0.5592

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1382276 0.2513510

sample estimates:

cor

0.0588002

> cor.test(test$Ccover, test$Grass5km) #r is 0.388

Pearson's product-moment correlation

data: test$Ccover and test$Grass5km

t = 2.2363, df = 99, p-value = 0.02757

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02491853 0.39768517

sample estimates:

cor

0.2192898

> cor.test(test$Ccover, test$Grass30km) #r is 0.472

Pearson's product-moment correlation

data: test$Ccover and test$Grass30km

t = 2.3735, df = 99, p-value = 0.01955

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03833404 0.40892973

sample estimates:

cor

0.2320349

> cor.test(test$Ccover, test$Schrubs500m) #r is -0.058

Pearson's product-moment correlation

data: test$Ccover and test$Schrubs500m

t = -0.34991, df = 99, p-value = 0.7271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2290118 0.1614024

sample estimates:

cor

-0.03514555

> cor.test(test$Ccover, test$Schrubs1km) #r is -0.019

Pearson's product-moment correlation

data: test$Ccover and test$Schrubs1km

t = 0.069395, df = 99, p-value = 0.9448

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1887222 0.2021380

sample estimates:

cor

0.006974298

> cor.test(test$Ccover, test$Schrubs5km) #r is -0.233

Pearson's product-moment correlation

data: test$Ccover and test$Schrubs5km

t = -1.4399, df = 99, p-value = 0.153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32944147 0.05371916

sample estimates:

cor

-0.1432238

> cor.test(test$Ccover, test$Schrubs30km) #r is -0.304

Pearson's product-moment correlation

data: test$Ccover and test$Schrubs30km

t = -1.7975, df = 99, p-value = 0.07531

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36068260 0.01830012

sample estimates:

cor

-0.177775

> cor.test(test$Ccover, test$Water500m) #r is -0.219

Pearson's product-moment correlation

data: test$Ccover and test$Water500m

t = -2.2604, df = 99, p-value = 0.02599

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39966972 -0.02727652

sample estimates:

cor

-0.2215348

> cor.test(test$Ccover, test$Water1km) #r is -0.149

Pearson's product-moment correlation

data: test$Ccover and test$Water1km

t = -1.4745, df = 99, p-value = 0.1435

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3325070 0.0502858

sample estimates:

cor

-0.1465942

> cor.test(test$Ccover, test$Water5km) #r is 0.141

Pearson's product-moment correlation

data: test$Ccover and test$Water5km

t = 1.2565, df = 99, p-value = 0.2119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07190808 0.31306524

sample estimates:

cor

0.125292

> cor.test(test$Ccover, test$Water30km) #r is -0.107

Pearson's product-moment correlation

data: test$Ccover and test$Water30km

t = -0.53888, df = 99, p-value = 0.5912

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2469098 0.1428691

sample estimates:

cor

-0.05408019

> cor.test(test$Ccover, test$NSoilTypes) #r is 0.109

Pearson's product-moment correlation

data: test$Ccover and test$NSoilTypes

t = 1.9653, df = 99, p-value = 0.05218

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001730271 0.375011660

sample estimates:

cor

0.1937745

> cor.test(test$Ccover, test$FPSiteIndex) # r is -0.203

Pearson's product-moment correlation

data: test$Ccover and test$FPSiteIndex

t = -2.1671, df = 91, p-value = 0.03284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4068733 -0.0186596

sample estimates:

cor

-0.2215258

> cor.test(test$Ccover, test$SiteIndexPrimaryS) # r is -0.122

Pearson's product-moment correlation

data: test$Ccover and test$SiteIndexPrimaryS

t = -1.7006, df = 91, p-value = 0.09244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36612054 0.02925261

sample estimates:

cor

-0.1755015

> cor.test(test$Ccover, test$PISoils) # r is -0.048

Pearson's product-moment correlation

data: test$Ccover and test$PISoils

t = -0.9018, df = 99, p-value = 0.3694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2807508 0.1070637

sample estimates:

cor

-0.09026432

> cor.test(test$Ccover, test$SISoils) # r is -0.115

Pearson's product-moment correlation

data: test$Ccover and test$SISoils

t = -1.5418, df = 99, p-value = 0.1263

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33843765 0.04361781

sample estimates:

cor

-0.1531268

> cor.test(test$Ccover, test$HydricSoils) # r is 0.220

Pearson's product-moment correlation

data: test$Ccover and test$HydricSoils

t = 1.8749, df = 99, p-value = 0.06376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0106521 0.3673187

sample estimates:

cor

0.1851727

> #Ldepth by each

> #cor.test(test$Ldepth, test$Treatment) #non-numeric

> cor.test(test$Ldepth, test$Herbicide) # r is -0.060 #-0.350

Pearson's product-moment correlation

data: test$Ldepth and test$Herbicide

t = -2.1081, df = 99, p-value = 0.03755

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38703251 -0.01233183

sample estimates:

cor

-0.2072715

> cor.test(test$Ldepth, test$LastB) # r is -0.465 # high- acknowledge #-0.680

Pearson's product-moment correlation

data: test$Ldepth and test$LastB

t = -6.6281, df = 77, p-value = 4.17e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7269529 -0.4402882

sample estimates:

cor

-0.6027222

> cor.test(test$Ldepth, test$LastT) #r is 0.087

Pearson's product-moment correlation

data: test$Ldepth and test$LastT

t = 0.6371, df = 94, p-value = 0.5256

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1367125 0.2626044

sample estimates:

cor

0.06557062

> cor.test(test$Ldepth, test$BA) #r is 0.224 #0.405

Pearson's product-moment correlation

data: test$Ldepth and test$BA

t = 3.4921, df = 99, p-value = 0.0007178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1451163 0.4945914

sample estimates:

cor

0.3311633

> cor.test(test$Ldepth, test$Nsnags) #r is -0.075

Pearson's product-moment correlation

data: test$Ldepth and test$Nsnags

t = -0.68459, df = 99, p-value = 0.4952

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2605847 0.1285222

sample estimates:

cor

-0.06864124

> cor.test(test$Ldepth, test$Ccover) #r is 0.305 #high-ISH #0.442

Pearson's product-moment correlation

data: test$Ldepth and test$Ccover

t = 4.3083, df = 99, p-value = 3.882e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2189132 0.5500736

sample estimates:

cor

0.3973521

> #cor.test(test$Ldepth, test$Ldepth) #r is

> cor.test(test$Ldepth, test$TreeHt) #r is 0.000 #0.266

Pearson's product-moment correlation

data: test$Ldepth and test$TreeHt

t = 2.3465, df = 99, p-value = 0.02094

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03570189 0.40673236

sample estimates:

cor

0.2295395

> cor.test(test$Ldepth, test$Age) #r is -0.267

Pearson's product-moment correlation

data: test$Ldepth and test$Age

t = -2.791, df = 99, p-value = 0.006306

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44217940 -0.07880043

sample estimates:

cor

-0.2700803

> cor.test(test$Ldepth, test$Nburns) #r is -0.484 # highISH- right proxy? #-0.475

Pearson's product-moment correlation

data: test$Ldepth and test$Nburns

t = -5.3768, df = 99, p-value = 5.063e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6138215 -0.3086547

sample estimates:

cor

-0.4754153

> cor.test(test$Ldepth, test$Nthins) #r is -0.192 #-0.375

Pearson's product-moment correlation

data: test$Ldepth and test$Nthins

t = -2.8977, df = 99, p-value = 0.004628

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45043830 -0.08904105

sample estimates:

cor

-0.2796144

> cor.test(test$Ldepth, test$TimeSinceB) #r is 0.366 # highISH #-.507

Pearson's product-moment correlation

data: test$Ldepth and test$TimeSinceB

t = 4.7657, df = 99, p-value = 6.462e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2583509 0.5785718

sample estimates:

cor

0.4319788

> cor.test(test$Ldepth, test$TimeSinceT) #r is 0.152

Pearson's product-moment correlation

data: test$Ldepth and test$TimeSinceT

t = 1.6702, df = 99, p-value = 0.09804

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03089561 0.34966942

sample estimates:

cor

0.1655432

> cor.test(test$Ldepth, test$HWdens\_10) #r is -0.105 #-0.324

Pearson's product-moment correlation

data: test$Ldepth and test$HWdens\_10

t = -1.7544, df = 99, p-value = 0.08246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35696953 0.02256015

sample estimates:

cor

-0.1736447

> cor.test(test$Ldepth, test$HWdens\_50) #r is -0.151

Pearson's product-moment correlation

data: test$Ldepth and test$HWdens\_50

t = -2.2658, df = 99, p-value = 0.02564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40011009 -0.02780031

sample estimates:

cor

-0.2220332

> cor.test(test$Ldepth, test$HWdens\_100) #r is 0.025

Pearson's product-moment correlation

data: test$Ldepth and test$HWdens\_100

t = -1.134, df = 99, p-value = 0.2595

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3019926 0.0840629

sample estimates:

cor

-0.1132368

> cor.test(test$Ldepth, test$FG\_herb) #r is -0.509 # AHA! indirect rel bw fire and forbes/grasses?! #but way less 2018

Pearson's product-moment correlation

data: test$Ldepth and test$FG\_herb

t = -4.1321, df = 99, p-value = 7.528e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5385978 -0.2033320

sample estimates:

cor

-0.3835302

> cor.test(test$Ldepth, test$FG\_shrub) #r is -0.267 #-0.310

Pearson's product-moment correlation

data: test$Ldepth and test$FG\_shrub

t = -3.5528, df = 99, p-value = 0.0005856

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4989277 -0.1507472

sample estimates:

cor

-0.3362791

> cor.test(test$Ldepth, test$NHW\_saplings) #r is 0.260

Pearson's product-moment correlation

data: test$Ldepth and test$NHW\_saplings

t = 1.0715, df = 99, p-value = 0.2866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09025859 0.29630823

sample estimates:

cor

0.1070694

> cor.test(test$Ldepth, test$NP\_over\_20cm) #r is 0.174

Pearson's product-moment correlation

data: test$Ldepth and test$NP\_over\_20cm

t = 0.68397, df = 99, p-value = 0.4956

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1285830 0.2605271

sample estimates:

cor

0.06857972

> cor.test(test$Ldepth, test$Rel\_HW2P\_canopy) #r is 0.183

Pearson's product-moment correlation

data: test$Ldepth and test$Rel\_HW2P\_canopy

t = 1.08, df = 99, p-value = 0.2828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0894122 0.2970864

sample estimates:

cor

0.1079128

> cor.test(test$Ldepth, test$Rel\_HW2P\_shrubcover) #r is -0.131

Pearson's product-moment correlation

data: test$Ldepth and test$Rel\_HW2P\_shrubcover

t = -1.1027, df = 99, p-value = 0.2728

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29915267 0.08716205

sample estimates:

cor

-0.1101537

> cor.test(test$Ldepth, test$LCR) #r is -0.207

Pearson's product-moment correlation

data: test$Ldepth and test$LCR

t = 0.98491, df = 98, p-value = 0.3271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.099348 0.289785

sample estimates:

cor

0.09900202

> cor.test(test$Ldepth, test$HW\_dens\_1050) #r is -0.139 #-0.318

Pearson's product-moment correlation

data: test$Ldepth and test$HW\_dens\_1050

t = -2.1538, df = 99, p-value = 0.03369

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39084039 -0.01681746

sample estimates:

cor

-0.2115614

> cor.test(test$Ldepth, test$HW\_shrub) #r is 0.004

Pearson's product-moment correlation

data: test$Ldepth and test$HW\_shrub

t = -0.34646, df = 99, p-value = 0.7297

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2286833 0.1617400

sample estimates:

cor

-0.0347993

> cor.test(test$Ldepth, test$Parea) #r is -0.184

Pearson's product-moment correlation

data: test$Ldepth and test$Parea

t = 0.082734, df = 99, p-value = 0.9342

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1874291 0.2034235

sample estimates:

cor

0.008314761

> cor.test(test$Ldepth, test$ShapeIndex) #r is 0.072

Pearson's product-moment correlation

data: test$Ldepth and test$ShapeIndex

t = -0.078262, df = 99, p-value = 0.9378

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2029926 0.1878627

sample estimates:

cor

-0.007865375

> cor.test(test$Ldepth, test$PAratio) #r is 0.211

Pearson's product-moment correlation

data: test$Ldepth and test$PAratio

t = 0.86002, df = 99, p-value = 0.3919

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1111968 0.2768930

sample estimates:

cor

0.08611388

> cor.test(test$Ldepth, test$FracDimIndex) #r is 0.145

Pearson's product-moment correlation

data: test$Ldepth and test$FracDimIndex

t = 0.2623, df = 99, p-value = 0.7936

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1699620 0.2206554

sample estimates:

cor

0.02635262

> cor.test(test$Ldepth, test$CoreAreaIndex) #r is -0.156

Pearson's product-moment correlation

data: test$Ldepth and test$CoreAreaIndex

t = 0.10227, df = 99, p-value = 0.9188

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1855341 0.2053047

sample estimates:

cor

0.01027786

> cor.test(test$Ldepth, test$Ag500m) #r is 0.222

Pearson's product-moment correlation

data: test$Ldepth and test$Ag500m

t = 1.7437, df = 99, p-value = 0.08431

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02361354 0.35604953

sample estimates:

cor

0.1726224

> cor.test(test$Ldepth, test$Ag1km) #r is 0.160

Pearson's product-moment correlation

data: test$Ldepth and test$Ag1km

t = 1.08, df = 99, p-value = 0.2828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08941214 0.29708645

sample estimates:

cor

0.1079129

> cor.test(test$Ldepth, test$Ag5km) #r is 0.215

Pearson's product-moment correlation

data: test$Ldepth and test$Ag5km

t = 1.3271, df = 99, p-value = 0.1875

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06490897 0.31939404

sample estimates:

cor

0.1322074

> cor.test(test$Ldepth, test$Ag30km) #r is 0.195

Pearson's product-moment correlation

data: test$Ldepth and test$Ag30km

t = 1.5846, df = 99, p-value = 0.1162

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03936959 0.34220032

sample estimates:

cor

0.1572798

> cor.test(test$Ldepth, test$Evergreen500m) #r is -0.272 #-0.335

Pearson's product-moment correlation

data: test$Ldepth and test$Evergreen500m

t = -3.0268, df = 99, p-value = 0.003151

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4602922 -0.1013602

sample estimates:

cor

-0.2910341

> cor.test(test$Ldepth, test$Evergreen1km) #r is -0.257 #-0.313

Pearson's product-moment correlation

data: test$Ldepth and test$Evergreen1km

t = -2.8027, df = 99, p-value = 0.006097

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44309263 -0.07992902

sample estimates:

cor

-0.2711328

> cor.test(test$Ldepth, test$Evergreen5km) #r is -0.243 #-0.353

Pearson's product-moment correlation

data: test$Ldepth and test$Evergreen5km

t = -2.8747, df = 99, p-value = 0.00495

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44866801 -0.08683952

sample estimates:

cor

-0.2775679

> cor.test(test$Ldepth, test$Evergreen30km) #r is -0.452 #less

Pearson's product-moment correlation

data: test$Ldepth and test$Evergreen30km

t = -3.4267, df = 99, p-value = 0.0008913

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4898855 -0.1390308

sample estimates:

cor

-0.3256222

> cor.test(test$Ldepth, test$Imperv500m) #r is 0.094

Pearson's product-moment correlation

data: test$Ldepth and test$Imperv500m

t = 0.29896, df = 99, p-value = 0.7656

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1663827 0.2241567

sample estimates:

cor

0.03003316

> cor.test(test$Ldepth, test$Imperv1km) #r is 0.149

Pearson's product-moment correlation

data: test$Ldepth and test$Imperv1km

t = 1.4099, df = 99, p-value = 0.1617

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05669188 0.32678068

sample estimates:

cor

0.1403019

> cor.test(test$Ldepth, test$Imperv5km) #r is 0.338

Pearson's product-moment correlation

data: test$Ldepth and test$Imperv5km

t = 2.1283, df = 99, p-value = 0.0358

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01431252 0.38871551

sample estimates:

cor

0.2091667

> cor.test(test$Ldepth, test$Imperv30km) #r is 0.110

Pearson's product-moment correlation

data: test$Ldepth and test$Imperv30km

t = 1.127, df = 99, p-value = 0.2625

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08475701 0.30135718

sample estimates:

cor

0.1125466

> cor.test(test$Ldepth, test$Protected30km) #r is 0.009

Pearson's product-moment correlation

data: test$Ldepth and test$Protected30km

t = -0.72297, df = 99, p-value = 0.4714

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2641680 0.1247357

sample estimates:

cor

-0.07247025

> cor.test(test$Ldepth, test$HighDev500m) #r is 0.166

Pearson's product-moment correlation

data: test$Ldepth and test$HighDev500m

t = 1.0766, df = 99, p-value = 0.2843

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08975419 0.29677204

sample estimates:

cor

0.1075721

> cor.test(test$Ldepth, test$HighDev1km) #r is 0.143

Pearson's product-moment correlation

data: test$Ldepth and test$HighDev1km

t = 1.4363, df = 99, p-value = 0.1541

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05407314 0.32912495

sample estimates:

cor

0.142876

> cor.test(test$Ldepth, test$HighDev5km) #r is 0.333

Pearson's product-moment correlation

data: test$Ldepth and test$HighDev5km

t = 2.0485, df = 99, p-value = 0.04316

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.006463758 0.382031682

sample estimates:

cor

0.2016483

> cor.test(test$Ldepth, test$HighDev30km) #r is -0.180 #-0.391

Pearson's product-moment correlation

data: test$Ldepth and test$HighDev30km

t = -2.6433, df = 99, p-value = 0.009546

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43058961 -0.06455783

sample estimates:

cor

-0.2567575

> cor.test(test$Ldepth, test$LowDev500m) #r is 0.144

Pearson's product-moment correlation

data: test$Ldepth and test$LowDev500m

t = 0.31946, df = 99, p-value = 0.7501

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1643800 0.2261114

sample estimates:

cor

0.03209023

> cor.test(test$Ldepth, test$LowDev1km) #r is 0.183

Pearson's product-moment correlation

data: test$Ldepth and test$LowDev1km

t = 1.1311, df = 99, p-value = 0.2608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0843501 0.3017297

sample estimates:

cor

0.1129512

> cor.test(test$Ldepth, test$LowDev5km) #r is 0.335

Pearson's product-moment correlation

data: test$Ldepth and test$LowDev5km

t = 2.3443, df = 99, p-value = 0.02106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03548095 0.40654772

sample estimates:

cor

0.22933

> cor.test(test$Ldepth, test$LowDev30km) #r is 0.200

Pearson's product-moment correlation

data: test$Ldepth and test$LowDev30km

t = 0.99351, df = 99, p-value = 0.3229

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09798466 0.28918115

sample estimates:

cor

0.0993573

> cor.test(test$Ldepth, test$OpenDev500m) #r is 0.185

Pearson's product-moment correlation

data: test$Ldepth and test$OpenDev500m

t = 0.96597, df = 99, p-value = 0.3364

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1007117 0.2866552

sample estimates:

cor

0.09662952

> cor.test(test$Ldepth, test$OpenDev1km) #r is 0.170

Pearson's product-moment correlation

data: test$Ldepth and test$OpenDev1km

t = 1.196, df = 99, p-value = 0.2345

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07791222 0.30760873

sample estimates:

cor

0.1193443

> cor.test(test$Ldepth, test$OpenDev5km) #r is 0.111 #0.370

Pearson's product-moment correlation

data: test$Ldepth and test$OpenDev5km

t = 2.2553, df = 99, p-value = 0.02632

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0267747 0.3992477

sample estimates:

cor

0.2210572

> cor.test(test$Ldepth, test$OpenDev30km) #r is 0.154 #0.378

Pearson's product-moment correlation

data: test$Ldepth and test$OpenDev30km

t = 2.4354, df = 99, p-value = 0.01666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04437516 0.41395675

sample estimates:

cor

0.2377525

> cor.test(test$Ldepth, test$Grass500m) #r is -0.102

Pearson's product-moment correlation

data: test$Ldepth and test$Grass500m

t = 0.13756, df = 99, p-value = 0.8909

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1821074 0.2086993

sample estimates:

cor

0.01382388

> cor.test(test$Ldepth, test$Grass1km) #r is 0.099 #0.345

Pearson's product-moment correlation

data: test$Ldepth and test$Grass1km

t = 1.9962, df = 99, p-value = 0.04866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.001316488 0.377626948

sample estimates:

cor

0.1967051

> cor.test(test$Ldepth, test$Grass5km) #r is 0.057

Pearson's product-moment correlation

data: test$Ldepth and test$Grass5km

t = -0.5414, df = 99, p-value = 0.5895

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2471468 0.1426218

sample estimates:

cor

-0.05433188

> cor.test(test$Ldepth, test$Grass30km) #r is 0.221

Pearson's product-moment correlation

data: test$Ldepth and test$Grass30km

t = -0.11356, df = 99, p-value = 0.9098

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2063913 0.1844383

sample estimates:

cor

-0.01141238

> cor.test(test$Ldepth, test$Schrubs500m) #r is -0.084

Pearson's product-moment correlation

data: test$Ldepth and test$Schrubs500m

t = 0.52431, df = 99, p-value = 0.6012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1443012 0.2455362

sample estimates:

cor

0.05262214

> cor.test(test$Ldepth, test$Schrubs1km) #r is -0.119

Pearson's product-moment correlation

data: test$Ldepth and test$Schrubs1km

t = -0.08168, df = 99, p-value = 0.9351

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2033219 0.1875312

sample estimates:

cor

-0.008208884

> cor.test(test$Ldepth, test$Schrubs5km) #r is -0.344

Pearson's product-moment correlation

data: test$Ldepth and test$Schrubs5km

t = -1.6222, df = 99, p-value = 0.1079

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34548859 0.03564568

sample estimates:

cor

-0.1609146

> cor.test(test$Ldepth, test$Schrubs30km) #r is -0.380

Pearson's product-moment correlation

data: test$Ldepth and test$Schrubs30km

t = -3.295, df = 99, p-value = 0.001367

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4802966 -0.1267125

sample estimates:

cor

-0.3143666

> cor.test(test$Ldepth, test$Water500m) #r is -0.135

Pearson's product-moment correlation

data: test$Ldepth and test$Water500m

t = -2.076, df = 99, p-value = 0.04048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384347033 -0.009177426

sample estimates:

cor

-0.2042503

> cor.test(test$Ldepth, test$Water1km) #r is -0.162

Pearson's product-moment correlation

data: test$Ldepth and test$Water1km

t = -1.8857, df = 99, p-value = 0.06226

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.368245186 0.009580755

sample estimates:

cor

-0.1862072

> cor.test(test$Ldepth, test$Water5km) #r is -0.127

Pearson's product-moment correlation

data: test$Ldepth and test$Water5km

t = 0.73592, df = 99, p-value = 0.4635

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1234577 0.2653750

sample estimates:

cor

0.07376135

> cor.test(test$Ldepth, test$Water30km) #r is 0.043

Pearson's product-moment correlation

data: test$Ldepth and test$Water30km

t = 0.13248, df = 99, p-value = 0.8949

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1826010 0.2082109

sample estimates:

cor

0.01331337

> cor.test(test$Ldepth, test$NSoilTypes) #r is 0.062

Pearson's product-moment correlation

data: test$Ldepth and test$NSoilTypes

t = 0.98043, df = 99, p-value = 0.3293

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09927955 0.28798244

sample estimates:

cor

0.09806243

> cor.test(test$Ldepth, test$FPSiteIndex) # r is 0.006

Pearson's product-moment correlation

data: test$Ldepth and test$FPSiteIndex

t = -0.99737, df = 91, p-value = 0.3212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3013112 0.1018809

sample estimates:

cor

-0.1039855

> cor.test(test$Ldepth, test$SiteIndexPrimaryS) # r is -0.016

Pearson's product-moment correlation

data: test$Ldepth and test$SiteIndexPrimaryS

t = -0.97339, df = 91, p-value = 0.3329

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2990361 0.1043547

sample estimates:

cor

-0.1015115

> cor.test(test$Ldepth, test$PISoils) # r is -0.296

Pearson's product-moment correlation

data: test$Ldepth and test$PISoils

t = -1.3988, df = 99, p-value = 0.165

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32578788 0.05779932

sample estimates:

cor

-0.1392125

> cor.test(test$Ldepth, test$SISoils) # r is 0.280

Pearson's product-moment correlation

data: test$Ldepth and test$SISoils

t = 2.0277, df = 99, p-value = 0.04528

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.004421313 0.380285916

sample estimates:

cor

0.199688

> cor.test(test$Ldepth, test$HydricSoils) # r is 0.006

Pearson's product-moment correlation

data: test$Ldepth and test$HydricSoils

t = 0.47582, df = 99, p-value = 0.6353

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1490641 0.2409566

sample estimates:

cor

0.04776674

> #TreeHt by each

> #cor.test(test$TreeHt, test$Treatment) #non-numeric

> cor.test(test$TreeHt, test$Herbicide) # r is -0.167

Pearson's product-moment correlation

data: test$TreeHt and test$Herbicide

t = -2.6069, df = 99, p-value = 0.01055

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42770218 -0.06103255

sample estimates:

cor

-0.2534486

> cor.test(test$TreeHt, test$LastB) # r is -0.380 #high-ISH but under 0.5

Pearson's product-moment correlation

data: test$TreeHt and test$LastB

t = -4.7952, df = 77, p-value = 7.772e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6334777 -0.2890754

sample estimates:

cor

-0.4795351

> cor.test(test$TreeHt, test$LastT) #r is -0.199

Pearson's product-moment correlation

data: test$TreeHt and test$LastT

t = -1.4347, df = 94, p-value = 0.1547

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33698037 0.05573761

sample estimates:

cor

-0.1463841

> cor.test(test$TreeHt, test$BA) #r is -0.119

Pearson's product-moment correlation

data: test$TreeHt and test$BA

t = -0.20452, df = 99, p-value = 0.8384

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151262 0.1755935

sample estimates:

cor

-0.02055099

> cor.test(test$TreeHt, test$Nsnags) #r is -0.051

Pearson's product-moment correlation

data: test$TreeHt and test$Nsnags

t = -0.16063, df = 99, p-value = 0.8727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2109160 0.1798645

sample estimates:

cor

-0.01614217

> cor.test(test$TreeHt, test$Ccover) #r is 0.139

Pearson's product-moment correlation

data: test$TreeHt and test$Ccover

t = 1.5986, df = 99, p-value = 0.1131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0379867 0.3434225

sample estimates:

cor

0.1586303

> cor.test(test$TreeHt, test$Ldepth) #r is 0.000

Pearson's product-moment correlation

data: test$TreeHt and test$Ldepth

t = 2.3465, df = 99, p-value = 0.02094

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03570189 0.40673236

sample estimates:

cor

0.2295395

> #cor.test(test$TreeHt, test$TreeHt) #r is

> cor.test(test$TreeHt, test$Age) #r is 0.594 # over 0.5 - high #less now

Pearson's product-moment correlation

data: test$TreeHt and test$Age

t = 4.0317, df = 99, p-value = 0.0001089

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1943679 0.5319387

sample estimates:

cor

0.3755414

> cor.test(test$TreeHt, test$Nburns) #r is 0.266

Pearson's product-moment correlation

data: test$TreeHt and test$Nburns

t = 1.1738, df = 99, p-value = 0.2433

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08011552 0.30560002

sample estimates:

cor

0.1171582

> cor.test(test$TreeHt, test$Nthins) #r is 0.438 # close to 0.5 - ACKNOWLEDGE THIS #but less now

Pearson's product-moment correlation

data: test$TreeHt and test$Nthins

t = 3.0845, df = 99, p-value = 0.002643

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1068503 0.4646554

sample estimates:

cor

0.2961061

> cor.test(test$TreeHt, test$TimeSinceB) #r is -0.082

Pearson's product-moment correlation

data: test$TreeHt and test$TimeSinceB

t = 0.53145, df = 99, p-value = 0.5963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1435993 0.2462097

sample estimates:

cor

0.05333691

> cor.test(test$TreeHt, test$TimeSinceT) #r is 0.083

Pearson's product-moment correlation

data: test$TreeHt and test$TimeSinceT

t = 0.54347, df = 99, p-value = 0.588

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1424178 0.2473423

sample estimates:

cor

0.0545395

> cor.test(test$TreeHt, test$HWdens\_10) #r is 0.123

Pearson's product-moment correlation

data: test$TreeHt and test$HWdens\_10

t = 0.86005, df = 99, p-value = 0.3918

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1111934 0.2768962

sample estimates:

cor

0.08611728

> cor.test(test$TreeHt, test$HWdens\_50) #r is 0.235

Pearson's product-moment correlation

data: test$TreeHt and test$HWdens\_50

t = -0.13566, df = 99, p-value = 0.8924

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2085165 0.1822922

sample estimates:

cor

-0.01363279

> cor.test(test$TreeHt, test$HWdens\_100) #r is 0.229

Pearson's product-moment correlation

data: test$TreeHt and test$HWdens\_100

t = -0.20486, df = 99, p-value = 0.8381

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151588 0.1755604

sample estimates:

cor

-0.02058517

> cor.test(test$TreeHt, test$FG\_herb) #r is -0.156

Pearson's product-moment correlation

data: test$TreeHt and test$FG\_herb

t = -2.0558, df = 99, p-value = 0.04243

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.382650224 -0.007188168

sample estimates:

cor

-0.2023432

> cor.test(test$TreeHt, test$FG\_shrub) #r is -0.331 # close to 0.5 - huh?

Pearson's product-moment correlation

data: test$TreeHt and test$FG\_shrub

t = -3.7661, df = 99, p-value = 0.0002816

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5138850 -0.1703452

sample estimates:

cor

-0.3539991

> cor.test(test$TreeHt, test$NHW\_saplings) #r is 0.215

Pearson's product-moment correlation

data: test$TreeHt and test$NHW\_saplings

t = 0.5753, df = 99, p-value = 0.5664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1392876 0.2503381

sample estimates:

cor

0.05772297

> cor.test(test$TreeHt, test$NP\_over\_20cm) #r is -0.187

Pearson's product-moment correlation

data: test$TreeHt and test$NP\_over\_20cm

t = -2.8773, df = 99, p-value = 0.004913

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44886921 -0.08708955

sample estimates:

cor

-0.2778005

> cor.test(test$TreeHt, test$Rel\_HW2P\_canopy) #r is 0.252

Pearson's product-moment correlation

data: test$TreeHt and test$Rel\_HW2P\_canopy

t = 1.8042, df = 99, p-value = 0.07425

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01763814 0.36125851

sample estimates:

cor

0.1784162

> cor.test(test$TreeHt, test$Rel\_HW2P\_shrubcover) #r is 0.092

Pearson's product-moment correlation

data: test$TreeHt and test$Rel\_HW2P\_shrubcover

t = 0.1309, df = 99, p-value = 0.8961

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1827541 0.2080594

sample estimates:

cor

0.01315504

> cor.test(test$TreeHt, test$LCR) #r is -0.630 #YES - CORRELATED - ACKNOWLEDGE #-0.479

Pearson's product-moment correlation

data: test$TreeHt and test$LCR

t = 0.72599, df = 98, p-value = 0.4696

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1250749 0.2657406

sample estimates:

cor

0.07314009

> cor.test(test$TreeHt, test$HW\_dens\_1050) #r is 0.195

Pearson's product-moment correlation

data: test$TreeHt and test$HW\_dens\_1050

t = 0.38403, df = 99, p-value = 0.7018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1580628 0.2322565

sample estimates:

cor

0.03856791

> cor.test(test$TreeHt, test$HW\_shrub) #r is 0.332

Pearson's product-moment correlation

data: test$TreeHt and test$HW\_shrub

t = 0.79812, df = 99, p-value = 0.4267

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1173152 0.2711593

sample estimates:

cor

0.07995734

> cor.test(test$TreeHt, test$Parea) #r is 0.085

Pearson's product-moment correlation

data: test$TreeHt and test$Parea

t = 1.7048, df = 99, p-value = 0.09138

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02747183 0.35267353

sample estimates:

cor

0.1688741

> cor.test(test$TreeHt, test$ShapeIndex) #r is 0.034

Pearson's product-moment correlation

data: test$TreeHt and test$ShapeIndex

t = 0.82338, df = 99, p-value = 0.4123

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1148193 0.2735015

sample estimates:

cor

0.08247057

> cor.test(test$TreeHt, test$PAratio) #r is -0.068

Pearson's product-moment correlation

data: test$TreeHt and test$PAratio

t = -1.1197, df = 99, p-value = 0.2656

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30069243 0.08548269

sample estimates:

cor

-0.1118248

> cor.test(test$TreeHt, test$FracDimIndex) #r is 0.033

Pearson's product-moment correlation

data: test$TreeHt and test$FracDimIndex

t = 0.53061, df = 99, p-value = 0.5969

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1436820 0.2461303

sample estimates:

cor

0.05325269

> cor.test(test$TreeHt, test$CoreAreaIndex) #r is 0.036

Pearson's product-moment correlation

data: test$TreeHt and test$CoreAreaIndex

t = 0.93382, df = 99, p-value = 0.3527

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1038949 0.2837000

sample estimates:

cor

0.09344175

> cor.test(test$TreeHt, test$Ag500m) #r is 0.106

Pearson's product-moment correlation

data: test$TreeHt and test$Ag500m

t = 0.951, df = 99, p-value = 0.3439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1021944 0.2852796

sample estimates:

cor

0.09514517

> cor.test(test$TreeHt, test$Ag1km) #r is 0.175

Pearson's product-moment correlation

data: test$TreeHt and test$Ag1km

t = 1.2417, df = 99, p-value = 0.2173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07338409 0.31172621

sample estimates:

cor

0.1238312

> cor.test(test$TreeHt, test$Ag5km) #r is 0.286

Pearson's product-moment correlation

data: test$TreeHt and test$Ag5km

t = 1.8477, df = 99, p-value = 0.06764

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01333916 0.36499152

sample estimates:

cor

0.1825761

> cor.test(test$TreeHt, test$Ag30km) #r is 0.113

Pearson's product-moment correlation

data: test$TreeHt and test$Ag30km

t = 1.1792, df = 99, p-value = 0.2411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07957459 0.30609350

sample estimates:

cor

0.1176951

> cor.test(test$TreeHt, test$Evergreen500m) #r is 0.233

Pearson's product-moment correlation

data: test$TreeHt and test$Evergreen500m

t = 1.0136, df = 99, p-value = 0.3133

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09599814 0.29101777

sample estimates:

cor

0.1013425

> cor.test(test$TreeHt, test$Evergreen1km) #r is -0.051

Pearson's product-moment correlation

data: test$TreeHt and test$Evergreen1km

t = -1.2684, df = 99, p-value = 0.2076

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31413284 0.07073006

sample estimates:

cor

-0.1264573

> cor.test(test$TreeHt, test$Evergreen5km) #r is -0.198

Pearson's product-moment correlation

data: test$TreeHt and test$Evergreen5km

t = -2.1227, df = 99, p-value = 0.03628

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38824846 -0.01376257

sample estimates:

cor

-0.2086406

> cor.test(test$TreeHt, test$Evergreen30km) #r is -0.151 #-0.344

Pearson's product-moment correlation

data: test$TreeHt and test$Evergreen30km

t = -2.6579, df = 99, p-value = 0.00917

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43173861 -0.06596321

sample estimates:

cor

-0.2580754

> cor.test(test$TreeHt, test$Imperv500m) #r is 0.204

Pearson's product-moment correlation

data: test$TreeHt and test$Imperv500m

t = 1.6162, df = 99, p-value = 0.1092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03624394 0.34496095

sample estimates:

cor

0.160331

> cor.test(test$TreeHt, test$Imperv1km) #r is 0.109

Pearson's product-moment correlation

data: test$TreeHt and test$Imperv1km

t = 1.896, df = 99, p-value = 0.06087

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.008563658 0.369124104

sample estimates:

cor

0.1871889

> cor.test(test$TreeHt, test$Imperv5km) #r is -0.279

Pearson's product-moment correlation

data: test$TreeHt and test$Imperv5km

t = -1.1297, df = 99, p-value = 0.2613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30160538 0.08448595

sample estimates:

cor

-0.1128161

> cor.test(test$TreeHt, test$Imperv30km) #r is -0.026

Pearson's product-moment correlation

data: test$TreeHt and test$Imperv30km

t = 0.35336, df = 99, p-value = 0.7246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1610648 0.2293401

sample estimates:

cor

0.03549166

> cor.test(test$TreeHt, test$Protected30km) #r is -0.106

Pearson's product-moment correlation

data: test$TreeHt and test$Protected30km

t = -0.79492, df = 99, p-value = 0.4286

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2708622 0.1176314

sample estimates:

cor

-0.07963876

> cor.test(test$TreeHt, test$HighDev500m) #r is 0.131

Pearson's product-moment correlation

data: test$TreeHt and test$HighDev500m

t = 1.0332, df = 99, p-value = 0.304

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09404847 0.29281755

sample estimates:

cor

0.1032893

> cor.test(test$TreeHt, test$HighDev1km) #r is 0.085 #0.3

Pearson's product-moment correlation

data: test$TreeHt and test$HighDev1km

t = 1.8829, df = 99, p-value = 0.06265

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.009857196 0.368006185

sample estimates:

cor

0.1859403

> cor.test(test$TreeHt, test$HighDev5km) #r is -0.282

Pearson's product-moment correlation

data: test$TreeHt and test$HighDev5km

t = -1.162, df = 99, p-value = 0.248

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30453584 0.08128126

sample estimates:

cor

-0.1160007

> cor.test(test$TreeHt, test$HighDev30km) #r is -0.112 #-0.311

Pearson's product-moment correlation

data: test$TreeHt and test$HighDev30km

t = -1.7292, df = 99, p-value = 0.0869

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35478770 0.02505696

sample estimates:

cor

-0.1712208

> cor.test(test$TreeHt, test$LowDev500m) #r is 0.119

Pearson's product-moment correlation

data: test$TreeHt and test$LowDev500m

t = -0.3172, df = 99, p-value = 0.7518

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2258963 0.1646005

sample estimates:

cor

-0.03186378

> cor.test(test$TreeHt, test$LowDev1km) #r is -0.064

Pearson's product-moment correlation

data: test$TreeHt and test$LowDev1km

t = -1.3237, df = 99, p-value = 0.1887

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31908953 0.06524659

sample estimates:

cor

-0.1318743

> cor.test(test$TreeHt, test$LowDev5km) #r is -0.296

Pearson's product-moment correlation

data: test$TreeHt and test$LowDev5km

t = -1.5026, df = 99, p-value = 0.1361

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33498774 0.04750079

sample estimates:

cor

-0.1493247

> cor.test(test$TreeHt, test$LowDev30km) #r is 0.034

Pearson's product-moment correlation

data: test$TreeHt and test$LowDev30km

t = 0.5343, df = 99, p-value = 0.5943

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1433189 0.2464785

sample estimates:

cor

0.05362229

> cor.test(test$TreeHt, test$OpenDev500m) #r is -0.040

Pearson's product-moment correlation

data: test$TreeHt and test$OpenDev500m

t = -0.6179, df = 99, p-value = 0.5381

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2543405 0.1350935

sample estimates:

cor

-0.06198222

> cor.test(test$TreeHt, test$OpenDev1km) #r is -0.150

Pearson's product-moment correlation

data: test$TreeHt and test$OpenDev1km

t = -1.4592, df = 99, p-value = 0.1477

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33114711 0.05180999

sample estimates:

cor

-0.1450985

> cor.test(test$TreeHt, test$OpenDev5km) #r is -0.398

Pearson's product-moment correlation

data: test$TreeHt and test$OpenDev5km

t = -2.1172, df = 99, p-value = 0.03675

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38779550 -0.01322942

sample estimates:

cor

-0.2081306

> cor.test(test$TreeHt, test$OpenDev30km) #r is -0.060

Pearson's product-moment correlation

data: test$TreeHt and test$OpenDev30km

t = 0.55478, df = 99, p-value = 0.5803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1413057 0.2484075

sample estimates:

cor

0.055671

> cor.test(test$TreeHt, test$Grass500m) #r is -0.380

Pearson's product-moment correlation

data: test$TreeHt and test$Grass500m

t = -2.7963, df = 99, p-value = 0.006211

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4425914 -0.0793095

sample estimates:

cor

-0.2705551

> cor.test(test$TreeHt, test$Grass1km) #r is -0.237

Pearson's product-moment correlation

data: test$TreeHt and test$Grass1km

t = -0.7166, df = 99, p-value = 0.4753

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2635739 0.1253642

sample estimates:

cor

-0.07183508

> cor.test(test$TreeHt, test$Grass5km) #r is 0.261

Pearson's product-moment correlation

data: test$TreeHt and test$Grass5km

t = 1.4784, df = 99, p-value = 0.1425

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04990421 0.33284723

sample estimates:

cor

0.1469685

> cor.test(test$TreeHt, test$Grass30km) #r is 0.272

Pearson's product-moment correlation

data: test$TreeHt and test$Grass30km

t = 0.47558, df = 99, p-value = 0.6354

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1490874 0.2409341

sample estimates:

cor

0.04774296

> cor.test(test$TreeHt, test$Schrubs500m) #r is -0.319

Pearson's product-moment correlation

data: test$TreeHt and test$Schrubs500m

t = -1.8078, df = 99, p-value = 0.07368

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36156979 0.01728019

sample estimates:

cor

-0.1787628

> cor.test(test$TreeHt, test$Schrubs1km) #r is -0.340

Pearson's product-moment correlation

data: test$TreeHt and test$Schrubs1km

t = -2.0779, df = 99, p-value = 0.0403

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384504952 -0.009362715

sample estimates:

cor

-0.2044279

> cor.test(test$TreeHt, test$Schrubs5km) #r is -0.430

Pearson's product-moment correlation

data: test$TreeHt and test$Schrubs5km

t = -2.9319, df = 99, p-value = 0.004184

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45306408 -0.09231296

sample estimates:

cor

-0.2826527

> cor.test(test$TreeHt, test$Schrubs30km) #r is -0.099

Pearson's product-moment correlation

data: test$TreeHt and test$Schrubs30km

t = -1.4434, df = 99, p-value = 0.1521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3297488 0.0533754

sample estimates:

cor

-0.1435614

> cor.test(test$TreeHt, test$Water500m) #r is 0.050

Pearson's product-moment correlation

data: test$TreeHt and test$Water500m

t = -0.65246, df = 99, p-value = 0.5156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2575796 0.1316889

sample estimates:

cor

-0.06543442

> cor.test(test$TreeHt, test$Water1km) #r is -0.146

Pearson's product-moment correlation

data: test$TreeHt and test$Water1km

t = -1.8516, df = 99, p-value = 0.06706

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36532805 0.01295092

sample estimates:

cor

-0.1829514

> cor.test(test$TreeHt, test$Water5km) #r is -0.532

Pearson's product-moment correlation

data: test$TreeHt and test$Water5km

t = -4.0627, df = 99, p-value = 9.723e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5340058 -0.1971444

sample estimates:

cor

-0.3780187

> cor.test(test$TreeHt, test$Water30km) #r is -0.188

Pearson's product-moment correlation

data: test$TreeHt and test$Water30km

t = -0.39393, df = 99, p-value = 0.6945

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2331965 0.1570936

sample estimates:

cor

-0.03956027

> cor.test(test$TreeHt, test$NSoilTypes) #r is 0.128

Pearson's product-moment correlation

data: test$TreeHt and test$NSoilTypes

t = 1.0424, df = 99, p-value = 0.2998

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09314183 0.29365356

sample estimates:

cor

0.1041941

> cor.test(test$TreeHt, test$FPSiteIndex) # r is 0.198

Pearson's product-moment correlation

data: test$TreeHt and test$FPSiteIndex

t = 2.0368, df = 91, p-value = 0.04457

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.005327566 0.395686511

sample estimates:

cor

0.2088092

> cor.test(test$TreeHt, test$SiteIndexPrimaryS) # r is 0.268

Pearson's product-moment correlation

data: test$TreeHt and test$SiteIndexPrimaryS

t = 2.1248, df = 91, p-value = 0.03631

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01434122 0.40326248

sample estimates:

cor

0.2174143

> cor.test(test$TreeHt, test$PISoils) # r is -0.221

Pearson's product-moment correlation

data: test$TreeHt and test$PISoils

t = -0.86317, df = 99, p-value = 0.3901

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2771844 0.1108851

sample estimates:

cor

-0.08642717

> cor.test(test$TreeHt, test$SISoils) # r is -0.143

Pearson's product-moment correlation

data: test$TreeHt and test$SISoils

t = -0.14785, df = 99, p-value = 0.8828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2096885 0.1811070

sample estimates:

cor

-0.01485812

> cor.test(test$TreeHt, test$HydricSoils) # r is -0.100

Pearson's product-moment correlation

data: test$TreeHt and test$HydricSoils

t = -1.3314, df = 99, p-value = 0.1861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31977895 0.06448207

sample estimates:

cor

-0.1326286

> #Age by each

> #cor.test(test$Age, test$Treatment) #non-numeric

> cor.test(test$Age, test$Herbicide) # r is 0.102

Pearson's product-moment correlation

data: test$Age and test$Herbicide

t = 1.0048, df = 99, p-value = 0.3175

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09687096 0.29021116

sample estimates:

cor

0.1004704

> cor.test(test$Age, test$LastB) # r is -0.023

Pearson's product-moment correlation

data: test$Age and test$LastB

t = 0.75731, df = 77, p-value = 0.4512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1377454 0.3013647

sample estimates:

cor

0.08598378

> cor.test(test$Age, test$LastT) #r is -0.332

Pearson's product-moment correlation

data: test$Age and test$LastT

t = -3.8844, df = 94, p-value = 0.0001907

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5326787 -0.1852367

sample estimates:

cor

-0.3719109

> cor.test(test$Age, test$BA) #r is -0.470 #close to 0.5 - acknowledge

Pearson's product-moment correlation

data: test$Age and test$BA

t = -4.0829, df = 99, p-value = 9.027e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5353485 -0.1989509

sample estimates:

cor

-0.3796291

> cor.test(test$Age, test$Nsnags) #r is 0.078

Pearson's product-moment correlation

data: test$Age and test$Nsnags

t = 0.13941, df = 99, p-value = 0.8894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1819275 0.2088772

sample estimates:

cor

0.0140099

> cor.test(test$Age, test$Ccover) #r is -0.321 #under 0.5 but high-ish

Pearson's product-moment correlation

data: test$Age and test$Ccover

t = -2.2986, df = 99, p-value = 0.02363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40280844 -0.03101433

sample estimates:

cor

-0.2250892

> cor.test(test$Age, test$Ldepth) #r is -0.267

Pearson's product-moment correlation

data: test$Age and test$Ldepth

t = -2.791, df = 99, p-value = 0.006306

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44217940 -0.07880043

sample estimates:

cor

-0.2700803

> cor.test(test$Age, test$TreeHt) #r is 0.594 #over 0.5 - acknowledge, duh

Pearson's product-moment correlation

data: test$Age and test$TreeHt

t = 4.0317, df = 99, p-value = 0.0001089

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1943679 0.5319387

sample estimates:

cor

0.3755414

> #cor.test(test$Age, test$Age) #r is

> cor.test(test$Age, test$Nburns) #r is 0.530 0.569 #over 0.5 - acknowledge \*AGE SAMPLING ISSUE

Pearson's product-moment correlation

data: test$Age and test$Nburns

t = 6.5744, df = 99, p-value = 2.314e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3988080 0.6740907

sample estimates:

cor

0.5512791

> cor.test(test$Age, test$Nthins) #r is 0.702 #0.641 #product of management timing!! ACKNOWLEDGE

Pearson's product-moment correlation

data: test$Age and test$Nthins

t = 9.0228, df = 99, p-value = 1.478e-14

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5482972 0.7665533

sample estimates:

cor

0.6717523

> cor.test(test$Age, test$TimeSinceB) #r is -0.340 #high-ISH but not yet 0.5

Pearson's product-moment correlation

data: test$Age and test$TimeSinceB

t = -3.676, df = 99, p-value = 0.000385

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5076145 -0.1620959

sample estimates:

cor

-0.3465563

> cor.test(test$Age, test$TimeSinceT) #r is 0.157

Pearson's product-moment correlation

data: test$Age and test$TimeSinceT

t = 1.8165, df = 99, p-value = 0.07232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01641939 0.36231804

sample estimates:

cor

0.1795962

> cor.test(test$Age, test$HWdens\_10) #r is 0.250

Pearson's product-moment correlation

data: test$Age and test$HWdens\_10

t = 2.4564, df = 99, p-value = 0.01578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04641171 0.41564638

sample estimates:

cor

0.2396769

> cor.test(test$Age, test$HWdens\_50) #r is 0.384 #high-ISH but not yet 0.5 - acknowledge

Pearson's product-moment correlation

data: test$Age and test$HWdens\_50

t = 3.131, df = 99, p-value = 0.00229

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1112536 0.4681423

sample estimates:

cor

0.3001663

> cor.test(test$Age, test$HWdens\_100) #r is 0.214

Pearson's product-moment correlation

data: test$Age and test$HWdens\_100

t = 1.6564, df = 99, p-value = 0.1008

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03226058 0.34846957

sample estimates:

cor

0.164214

> cor.test(test$Age, test$FG\_herb) #r is 0.200

Pearson's product-moment correlation

data: test$Age and test$FG\_herb

t = 1.9912, df = 99, p-value = 0.04921

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0008293492 0.3772091989

sample estimates:

cor

0.1962368

> cor.test(test$Age, test$FG\_shrub) #r is -0.081

Pearson's product-moment correlation

data: test$Age and test$FG\_shrub

t = -0.27039, df = 99, p-value = 0.7874

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214291 0.1691720

sample estimates:

cor

-0.02716548

> cor.test(test$Age, test$NHW\_saplings) #r is 0.164

Pearson's product-moment correlation

data: test$Age and test$NHW\_saplings

t = 1.1026, df = 99, p-value = 0.2729

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0871708 0.2991446

sample estimates:

cor

0.110145

> cor.test(test$Age, test$NP\_over\_20cm) #r is -0.487 # high - makes sense though - redundant proxy?

Pearson's product-moment correlation

data: test$Age and test$NP\_over\_20cm

t = -4.2907, df = 99, p-value = 4.151e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5489389 -0.2173650

sample estimates:

cor

-0.3959823

> cor.test(test$Age, test$Rel\_HW2P\_canopy) #r is -0.020

Pearson's product-moment correlation

data: test$Age and test$Rel\_HW2P\_canopy

t = 0.022039, df = 99, p-value = 0.9825

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1933079 0.1975688

sample estimates:

cor

0.002215023

> cor.test(test$Age, test$Rel\_HW2P\_shrubcover) #r is -0.101

Pearson's product-moment correlation

data: test$Age and test$Rel\_HW2P\_shrubcover

t = -0.8329, df = 99, p-value = 0.4069

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2743841 0.1138776

sample estimates:

cor

-0.0834182

> cor.test(test$Age, test$LCR) #r is -0.383 #high-ISH

Pearson's product-moment correlation

data: test$Age and test$LCR

t = -1.5564, df = 98, p-value = 0.1228

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34131885 0.04239843

sample estimates:

cor

-0.1553131

> cor.test(test$Age, test$HW\_dens\_1050) #r is 0.345

Pearson's product-moment correlation

data: test$Age and test$HW\_dens\_1050

t = 3.0388, df = 99, p-value = 0.003038

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1024999 0.4611994

sample estimates:

cor

0.2920879

> cor.test(test$Age, test$HW\_shrub) #r is 0.139

Pearson's product-moment correlation

data: test$Age and test$HW\_shrub

t = 0.54629, df = 99, p-value = 0.5861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1421410 0.2476075

sample estimates:

cor

0.0548212

> cor.test(test$Age, test$Parea) #r is 0.003

Pearson's product-moment correlation

data: test$Age and test$Parea

t = 0.10862, df = 99, p-value = 0.9137

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1849181 0.2059156

sample estimates:

cor

0.01091565

> cor.test(test$Age, test$ShapeIndex) #r is 0.091

Pearson's product-moment correlation

data: test$Age and test$ShapeIndex

t = 1.0916, df = 99, p-value = 0.2777

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08826651 0.29813891

sample estimates:

cor

0.109054

> cor.test(test$Age, test$PAratio) #r is -0.020

Pearson's product-moment correlation

data: test$Age and test$PAratio

t = -0.22689, df = 99, p-value = 0.821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2172688 0.1734143

sample estimates:

cor

-0.02279759

> cor.test(test$Age, test$FracDimIndex) #r is 0.082

Pearson's product-moment correlation

data: test$Age and test$FracDimIndex

t = 0.97086, df = 99, p-value = 0.334

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1002281 0.2871036

sample estimates:

cor

0.09711347

> cor.test(test$Age, test$CoreAreaIndex) #r is -0.027

Pearson's product-moment correlation

data: test$Age and test$CoreAreaIndex

t = -0.21462, df = 99, p-value = 0.8305

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2160940 0.1746096

sample estimates:

cor

-0.02156556

> cor.test(test$Age, test$Ag500m) #r is -0.060

Pearson's product-moment correlation

data: test$Age and test$Ag500m

t = -0.61826, df = 99, p-value = 0.5378

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2543743 0.1350580

sample estimates:

cor

-0.06201825

> cor.test(test$Age, test$Ag1km) #r is -0.094

Pearson's product-moment correlation

data: test$Age and test$Ag1km

t = -0.9708, df = 99, p-value = 0.334

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2870985 0.1002335

sample estimates:

cor

-0.09710805

> cor.test(test$Age, test$Ag5km) #r is -0.096

Pearson's product-moment correlation

data: test$Age and test$Ag5km

t = -0.98968, df = 99, p-value = 0.3247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2888300 0.0983641

sample estimates:

cor

-0.09897794

> cor.test(test$Age, test$Ag30km) #r is -0.224

Pearson's product-moment correlation

data: test$Age and test$Ag30km

t = -2.465, df = 99, p-value = 0.01542

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41634414 -0.04725363

sample estimates:

cor

-0.2404721

> cor.test(test$Age, test$Evergreen500m) #r is 0.401

Pearson's product-moment correlation

data: test$Age and test$Evergreen500m

t = 4.3586, df = 99, p-value = 3.205e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2233189 0.5532959

sample estimates:

cor

0.4012457

> cor.test(test$Age, test$Evergreen1km) #r is 0.234

Pearson's product-moment correlation

data: test$Age and test$Evergreen1km

t = 2.4135, df = 99, p-value = 0.01764

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04223229 0.41217618

sample estimates:

cor

0.2357259

> cor.test(test$Age, test$Evergreen5km) #r is 0.222

Pearson's product-moment correlation

data: test$Age and test$Evergreen5km

t = 2.2992, df = 99, p-value = 0.02359

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03107539 0.40285964

sample estimates:

cor

0.2251473

> cor.test(test$Age, test$Evergreen30km) #r is 0.160

Pearson's product-moment correlation

data: test$Age and test$Evergreen30km

t = 1.341, df = 99, p-value = 0.183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06352632 0.32064023

sample estimates:

cor

0.1335713

> cor.test(test$Age, test$Imperv500m) #r is 0.237

Pearson's product-moment correlation

data: test$Age and test$Imperv500m

t = 2.4416, df = 99, p-value = 0.0164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04497417 0.41445399

sample estimates:

cor

0.2383187

> cor.test(test$Age, test$Imperv1km) #r is 0.046

Pearson's product-moment correlation

data: test$Age and test$Imperv1km

t = 0.48283, df = 99, p-value = 0.6303

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1483759 0.2416194

sample estimates:

cor

0.04846889

> cor.test(test$Age, test$Imperv5km) #r is -0.288

Pearson's product-moment correlation

data: test$Age and test$Imperv5km

t = -2.9106, df = 99, p-value = 0.004456

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45143217 -0.09027856

sample estimates:

cor

-0.280764

> cor.test(test$Age, test$Imperv30km) #r is -0.070

Pearson's product-moment correlation

data: test$Age and test$Imperv30km

t = -0.6775, df = 99, p-value = 0.4997

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2599222 0.1292210

sample estimates:

cor

-0.0679339

> cor.test(test$Age, test$Protected30km) #r is 0.186

Pearson's product-moment correlation

data: test$Age and test$Protected30km

t = 2.0524, df = 99, p-value = 0.04277

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.006854647 0.382365486

sample estimates:

cor

0.2020233

> cor.test(test$Age, test$HighDev500m) #r is -0.092

Pearson's product-moment correlation

data: test$Age and test$HighDev500m

t = -0.90065, df = 99, p-value = 0.37

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2806450 0.1071772

sample estimates:

cor

-0.0901504

> cor.test(test$Age, test$HighDev1km) #r is 0.011

Pearson's product-moment correlation

data: test$Age and test$HighDev1km

t = 0.13589, df = 99, p-value = 0.8922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1822697 0.2085387

sample estimates:

cor

0.01365604

> cor.test(test$Age, test$HighDev5km) #r is -0.285

Pearson's product-moment correlation

data: test$Age and test$HighDev5km

t = -2.8776, df = 99, p-value = 0.004909

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44889045 -0.08711595

sample estimates:

cor

-0.277825

> cor.test(test$Age, test$HighDev30km) #r is 0.229

Pearson's product-moment correlation

data: test$Age and test$HighDev30km

t = 2.3202, df = 99, p-value = 0.02239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03312246 0.40457483

sample estimates:

cor

0.2270917

> cor.test(test$Age, test$LowDev500m) #r is 0.127

Pearson's product-moment correlation

data: test$Age and test$LowDev500m

t = 1.3345, df = 99, p-value = 0.1851

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06417413 0.32005652

sample estimates:

cor

0.1329324

> cor.test(test$Age, test$LowDev1km) #r is 0.009

Pearson's product-moment correlation

data: test$Age and test$LowDev1km

t = 0.13533, df = 99, p-value = 0.8926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.182324 0.208485

sample estimates:

cor

0.01359988

> cor.test(test$Age, test$LowDev5km) #r is -0.336

Pearson's product-moment correlation

data: test$Age and test$LowDev5km

t = -3.5241, df = 99, p-value = 0.0006449

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4968818 -0.1480877

sample estimates:

cor

-0.3338642

> cor.test(test$Age, test$LowDev30km) #r is -0.067

Pearson's product-moment correlation

data: test$Age and test$LowDev30km

t = -0.69409, df = 99, p-value = 0.4893

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2614727 0.1275849

sample estimates:

cor

-0.06958963

> cor.test(test$Age, test$OpenDev500m) #r is -0.027

Pearson's product-moment correlation

data: test$Age and test$OpenDev500m

t = -0.21478, df = 99, p-value = 0.8304

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2161086 0.1745948

sample estimates:

cor

-0.02158082

> cor.test(test$Age, test$OpenDev1km) #r is -0.129

Pearson's product-moment correlation

data: test$Age and test$OpenDev1km

t = -1.2015, df = 99, p-value = 0.2324

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30810528 0.07736699

sample estimates:

cor

-0.119885

> cor.test(test$Age, test$OpenDev5km) #r is -0.408

Pearson's product-moment correlation

data: test$Age and test$OpenDev5km

t = -4.3718, df = 99, p-value = 3.046e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5541398 -0.2244749

sample estimates:

cor

-0.4022663

> cor.test(test$Age, test$OpenDev30km) #r is -0.209

Pearson's product-moment correlation

data: test$Age and test$OpenDev30km

t = -2.1393, df = 99, p-value = 0.03487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38963461 -0.01539544

sample estimates:

cor

-0.2102022

> cor.test(test$Age, test$Grass500m) #r is -0.195

Pearson's product-moment correlation

data: test$Age and test$Grass500m

t = -1.8893, df = 99, p-value = 0.06178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.368549904 0.009228219

sample estimates:

cor

-0.1865475

> cor.test(test$Age, test$Grass1km) #r is -0.193

Pearson's product-moment correlation

data: test$Age and test$Grass1km

t = -1.838, df = 99, p-value = 0.06907

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36416007 0.01429788

sample estimates:

cor

-0.181649

> cor.test(test$Age, test$Grass5km) #r is -0.094

Pearson's product-moment correlation

data: test$Age and test$Grass5km

t = -1.3255, df = 99, p-value = 0.188

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31925303 0.06506532

sample estimates:

cor

-0.1320532

> cor.test(test$Age, test$Grass30km) #r is -0.218

Pearson's product-moment correlation

data: test$Age and test$Grass30km

t = -2.1321, df = 99, p-value = 0.03548

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38903340 -0.01468697

sample estimates:

cor

-0.2095248

> cor.test(test$Age, test$Schrubs500m) #r is -0.071

Pearson's product-moment correlation

data: test$Age and test$Schrubs500m

t = -0.67412, df = 99, p-value = 0.5018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2596064 0.1295540

sample estimates:

cor

-0.06759682

> cor.test(test$Age, test$Schrubs1km) #r is -0.151

Pearson's product-moment correlation

data: test$Age and test$Schrubs1km

t = -1.4365, df = 99, p-value = 0.154

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32913815 0.05405838

sample estimates:

cor

-0.1428905

> cor.test(test$Age, test$Schrubs5km) #r is -0.052

Pearson's product-moment correlation

data: test$Age and test$Schrubs5km

t = -0.38998, df = 99, p-value = 0.6974

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2328213 0.1574806

sample estimates:

cor

-0.03916405

> cor.test(test$Age, test$Schrubs30km) #r is 0.182

Pearson's product-moment correlation

data: test$Age and test$Schrubs30km

t = 1.4233, df = 99, p-value = 0.1578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05536951 0.32796505

sample estimates:

cor

0.1416021

> cor.test(test$Age, test$Water500m) #r is -0.011

Pearson's product-moment correlation

data: test$Age and test$Water500m

t = -0.27092, df = 99, p-value = 0.787

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214798 0.1691202

sample estimates:

cor

-0.02721876

> cor.test(test$Age, test$Water1km) #r is -0.145

Pearson's product-moment correlation

data: test$Age and test$Water1km

t = -1.485, df = 99, p-value = 0.1407

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33343083 0.04924937

sample estimates:

cor

-0.1476107

> cor.test(test$Age, test$Water5km) #r is -0.328

Pearson's product-moment correlation

data: test$Age and test$Water5km

t = -3.4076, df = 99, p-value = 0.0009487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4885108 -0.1372581

sample estimates:

cor

-0.3240057

> cor.test(test$Age, test$Water30km) #r is 0.095

Pearson's product-moment correlation

data: test$Age and test$Water30km

t = 1.0503, df = 99, p-value = 0.2961

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0923536 0.2943799

sample estimates:

cor

0.1049805

> cor.test(test$Age, test$NSoilTypes) #r is 0.132

Pearson's product-moment correlation

data: test$Age and test$NSoilTypes

t = 1.428, df = 99, p-value = 0.1564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05489724 0.32838774

sample estimates:

cor

0.1420663

> cor.test(test$Age, test$FPSiteIndex) # r is 0.143

Pearson's product-moment correlation

data: test$Age and test$FPSiteIndex

t = 1.0209, df = 91, p-value = 0.31

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09944843 0.30354379

sample estimates:

cor

0.1064157

> cor.test(test$Age, test$SiteIndexPrimaryS) # r is 0.178

Pearson's product-moment correlation

data: test$Age and test$SiteIndexPrimaryS

t = 1.1899, df = 91, p-value = 0.2372

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08200331 0.31942695

sample estimates:

cor

0.1237725

> cor.test(test$Age, test$PISoils) # r is -0.120

Pearson's product-moment correlation

data: test$Age and test$PISoils

t = -1.2051, df = 99, p-value = 0.231

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30843409 0.07700582

sample estimates:

cor

-0.1202431

> cor.test(test$Age, test$SISoils) # r is -0.252

Pearson's product-moment correlation

data: test$Age and test$SISoils

t = -2.583, df = 99, p-value = 0.01126

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42580276 -0.05871851

sample estimates:

cor

-0.2512742

> cor.test(test$Age, test$HydricSoils) # r is -0.180

Pearson's product-moment correlation

data: test$Age and test$HydricSoils

t = -2.039, df = 99, p-value = 0.04412

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381233262 -0.005529264

sample estimates:

cor

-0.2007516

> #Nburns by each

> #cor.test(test$Nburns, test$Treatment) #non-numeric

> cor.test(test$Nburns, test$Herbicide) # r is 0.350 #high-ish but less now

Pearson's product-moment correlation

data: test$Nburns and test$Herbicide

t = 3.4116, df = 99, p-value = 0.0009363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1376316 0.4888006

sample estimates:

cor

0.3243464

> cor.test(test$Nburns, test$LastB) # r is 0.297

Pearson's product-moment correlation

data: test$Nburns and test$LastB

t = 2.2561, df = 77, p-value = 0.0269

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02951972 0.44558255

sample estimates:

cor

0.2490048

> cor.test(test$Nburns, test$LastT) #r is -0.224

Pearson's product-moment correlation

data: test$Nburns and test$LastT

t = -2.4874, df = 94, p-value = 0.01463

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4276879 -0.0505429

sample estimates:

cor

-0.2485107

> cor.test(test$Nburns, test$BA) #r is -0.494 #close to 0.5 #-0.410

Pearson's product-moment correlation

data: test$Nburns and test$BA

t = -5.0624, df = 99, p-value = 1.915e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5960827 -0.2831251

sample estimates:

cor

-0.453472

> cor.test(test$Nburns, test$Nsnags) #r is -0.040

Pearson's product-moment correlation

data: test$Nburns and test$Nsnags

t = -0.67503, df = 99, p-value = 0.5012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2596916 0.1294641

sample estimates:

cor

-0.06768779

> cor.test(test$Nburns, test$Ccover) #r is -0.485 #close to 0.5

Pearson's product-moment correlation

data: test$Nburns and test$Ccover

t = -5.5298, df = 99, p-value = 2.614e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6221523 -0.3207981

sample estimates:

cor

-0.4857806

> cor.test(test$Nburns, test$Ldepth) #r is -0.484 #close to 0.5 - fire proxy

Pearson's product-moment correlation

data: test$Nburns and test$Ldepth

t = -5.3768, df = 99, p-value = 5.063e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6138215 -0.3086547

sample estimates:

cor

-0.4754153

> cor.test(test$Nburns, test$TreeHt) #r is 0.266

Pearson's product-moment correlation

data: test$Nburns and test$TreeHt

t = 1.1738, df = 99, p-value = 0.2433

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08011552 0.30560002

sample estimates:

cor

0.1171582

> cor.test(test$Nburns, test$Age) #r is 0.530

Pearson's product-moment correlation

data: test$Nburns and test$Age

t = 6.5744, df = 99, p-value = 2.314e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3988080 0.6740907

sample estimates:

cor

0.5512791

> #cor.test(test$Nburns, test$Nburns) #r is

> cor.test(test$Nburns, test$Nthins) #r is 0.494 #close to 0.5 #highr now 0.5

Pearson's product-moment correlation

data: test$Nburns and test$Nthins

t = 5.8382, df = 99, p-value = 6.71e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3447325 0.6383749

sample estimates:

cor

0.5060754

> cor.test(test$Nburns, test$TimeSinceB) #r is -0.515 #close to 0.5

Pearson's product-moment correlation

data: test$Nburns and test$TimeSinceB

t = -5.8516, df = 99, p-value = 6.322e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6390601 -0.3457520

sample estimates:

cor

-0.5069358

> cor.test(test$Nburns, test$TimeSinceT) #r is -0.001

Pearson's product-moment correlation

data: test$Nburns and test$TimeSinceT

t = 0.057285, df = 99, p-value = 0.9544

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1898956 0.2009704

sample estimates:

cor

0.005757301

> cor.test(test$Nburns, test$HWdens\_10) #r is 0.306 #higher now 0.447

Pearson's product-moment correlation

data: test$Nburns and test$HWdens\_10

t = 3.9171, df = 99, p-value = 0.0001649

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1840599 0.5242295

sample estimates:

cor

0.3663217

> cor.test(test$Nburns, test$HWdens\_50) #r is 0.504 #0.5 - rel with HW mid height density

Pearson's product-moment correlation

data: test$Nburns and test$HWdens\_50

t = 5.2249, df = 99, p-value = 9.678e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2964114 0.6053527

sample estimates:

cor

0.4649178

> cor.test(test$Nburns, test$HWdens\_100) #r is 0.158

Pearson's product-moment correlation

data: test$Nburns and test$HWdens\_100

t = 1.2925, df = 99, p-value = 0.1992

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06834348 0.31629273

sample estimates:

cor

0.1288164

> cor.test(test$Nburns, test$FG\_herb) #r is 0.542 #0.5 - rel with forbs at low height, lower now though

Pearson's product-moment correlation

data: test$Nburns and test$FG\_herb

t = 5.2407, df = 99, p-value = 9.051e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2976939 0.6062432

sample estimates:

cor

0.4660196

> cor.test(test$Nburns, test$FG\_shrub) #r is -0.081

Pearson's product-moment correlation

data: test$Nburns and test$FG\_shrub

t = 1.1307, df = 99, p-value = 0.2609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08438886 0.30169427

sample estimates:

cor

0.1129127

> cor.test(test$Nburns, test$NHW\_saplings) #r is -0.168

Pearson's product-moment correlation

data: test$Nburns and test$NHW\_saplings

t = -2.0968, df = 99, p-value = 0.03856

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38608684 -0.01122018

sample estimates:

cor

-0.2062073

> cor.test(test$Nburns, test$NP\_over\_20cm) #r is -0.332 #lower now

Pearson's product-moment correlation

data: test$Nburns and test$NP\_over\_20cm

t = -2.544, df = 99, p-value = 0.01251

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42268859 -0.05493307

sample estimates:

cor

-0.2477129

> cor.test(test$Nburns, test$Rel\_HW2P\_canopy) #r is -0.402 #high-ish, close to 0.5 #lower now

Pearson's product-moment correlation

data: test$Nburns and test$Rel\_HW2P\_canopy

t = -3.7553, df = 99, p-value = 0.0002924

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5131352 -0.1693562

sample estimates:

cor

-0.353108

> cor.test(test$Nburns, test$Rel\_HW2P\_shrubcover) #r is 0.060

Pearson's product-moment correlation

data: test$Nburns and test$Rel\_HW2P\_shrubcover

t = 0.44573, df = 99, p-value = 0.6568

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1520158 0.2381097

sample estimates:

cor

0.04475309

> cor.test(test$Nburns, test$LCR) #r is -0.106

Pearson's product-moment correlation

data: test$Nburns and test$LCR

t = -0.3727, df = 98, p-value = 0.7102

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2323228 0.1599788

sample estimates:

cor

-0.03762149

> cor.test(test$Nburns, test$HW\_dens\_1050) #r is 0.440

Pearson's product-moment correlation

data: test$Nburns and test$HW\_dens\_1050

t = 4.9837, df = 99, p-value = 2.654e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2766162 0.5915107

sample estimates:

cor

0.4478443

> cor.test(test$Nburns, test$HW\_shrub) #r is -0.018

Pearson's product-moment correlation

data: test$Nburns and test$HW\_shrub

t = 0.10621, df = 99, p-value = 0.9156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1851518 0.2056839

sample estimates:

cor

0.01067369

> cor.test(test$Nburns, test$Parea) #r is -0.064

Pearson's product-moment correlation

data: test$Nburns and test$Parea

t = -0.55911, df = 99, p-value = 0.5773

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2488151 0.1408799

sample estimates:

cor

-0.05610411

> cor.test(test$Nburns, test$ShapeIndex) #r is -0.122

Pearson's product-moment correlation

data: test$Nburns and test$ShapeIndex

t = -0.92665, df = 99, p-value = 0.3564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2830400 0.1046047

sample estimates:

cor

-0.09273032

> cor.test(test$Nburns, test$PAratio) #r is -0.014

Pearson's product-moment correlation

data: test$Nburns and test$PAratio

t = -0.37149, df = 99, p-value = 0.7111

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2310646 0.1592905

sample estimates:

cor

-0.03731025

> cor.test(test$Nburns, test$FracDimIndex) #r is -0.110

Pearson's product-moment correlation

data: test$Nburns and test$FracDimIndex

t = -0.83764, df = 99, p-value = 0.4043

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2748223 0.1134098

sample estimates:

cor

-0.08388882

> cor.test(test$Nburns, test$CoreAreaIndex) #r is -0.056

Pearson's product-moment correlation

data: test$Nburns and test$CoreAreaIndex

t = -0.41656, df = 99, p-value = 0.6779

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2353448 0.1548759

sample estimates:

cor

-0.04182948

> cor.test(test$Nburns, test$Ag500m) #r is -0.092

Pearson's product-moment correlation

data: test$Nburns and test$Ag500m

t = -1.3428, df = 99, p-value = 0.1824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32079701 0.06335226

sample estimates:

cor

-0.1337429

> cor.test(test$Nburns, test$Ag1km) #r is -0.059

Pearson's product-moment correlation

data: test$Nburns and test$Ag1km

t = -0.73521, df = 99, p-value = 0.464

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2653086 0.1235280

sample estimates:

cor

-0.07369029

> cor.test(test$Nburns, test$Ag5km) #r is -0.156

Pearson's product-moment correlation

data: test$Nburns and test$Ag5km

t = -1.3909, df = 99, p-value = 0.1674

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32508384 0.05858409

sample estimates:

cor

-0.1384403

> cor.test(test$Nburns, test$Ag30km) #r is -0.141

Pearson's product-moment correlation

data: test$Nburns and test$Ag30km

t = -1.3214, df = 99, p-value = 0.1894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31888741 0.06547065

sample estimates:

cor

-0.1316532

> cor.test(test$Nburns, test$Evergreen500m) #r is 0.250

Pearson's product-moment correlation

data: test$Nburns and test$Evergreen500m

t = 3.1983, df = 99, p-value = 0.001857

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1176177 0.4731624

sample estimates:

cor

0.3060224

> cor.test(test$Nburns, test$Evergreen1km) #r is 0.335 .4

Pearson's product-moment correlation

data: test$Nburns and test$Evergreen1km

t = 3.9744, df = 99, p-value = 0.0001342

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1892220 0.5280972

sample estimates:

cor

0.3709433

> cor.test(test$Nburns, test$Evergreen5km) #r is 0.287 .3

Pearson's product-moment correlation

data: test$Nburns and test$Evergreen5km

t = 3.1312, df = 99, p-value = 0.002289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1112697 0.4681550

sample estimates:

cor

0.3001811

> cor.test(test$Nburns, test$Evergreen30km) #r is 0.266

Pearson's product-moment correlation

data: test$Nburns and test$Evergreen30km

t = 2.7911, df = 99, p-value = 0.006303

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07881445 0.44219075

sample estimates:

cor

0.2700933

> cor.test(test$Nburns, test$Imperv500m) #r is -0.005

Pearson's product-moment correlation

data: test$Nburns and test$Imperv500m

t = 0.0068134, df = 99, p-value = 0.9946

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1947806 0.1960978

sample estimates:

cor

0.0006847737

> cor.test(test$Nburns, test$Imperv1km) #r is 0.044

Pearson's product-moment correlation

data: test$Nburns and test$Imperv1km

t = 0.32618, df = 99, p-value = 0.745

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1637229 0.2267520

sample estimates:

cor

0.03276472

> cor.test(test$Nburns, test$Imperv5km) #r is -0.186

Pearson's product-moment correlation

data: test$Nburns and test$Imperv5km

t = -2.0395, df = 99, p-value = 0.04406

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381282712 -0.005587122

sample estimates:

cor

-0.2008071

> cor.test(test$Nburns, test$Imperv30km) #r is -0.155

Pearson's product-moment correlation

data: test$Nburns and test$Imperv30km

t = -1.568, df = 99, p-value = 0.1201

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34074335 0.04101622

sample estimates:

cor

-0.1556709

> cor.test(test$Nburns, test$Protected30km) #r is -0.016

Pearson's product-moment correlation

data: test$Nburns and test$Protected30km

t = -0.10648, df = 99, p-value = 0.9154

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2057098 0.1851257

sample estimates:

cor

-0.01070075

> cor.test(test$Nburns, test$HighDev500m) #r is -0.125

Pearson's product-moment correlation

data: test$Nburns and test$HighDev500m

t = -1.3182, df = 99, p-value = 0.1905

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31859959 0.06578964

sample estimates:

cor

-0.1313384

> cor.test(test$Nburns, test$HighDev1km) #r is 0.038

Pearson's product-moment correlation

data: test$Nburns and test$HighDev1km

t = 0.2542, df = 99, p-value = 0.7999

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1707517 0.2198816

sample estimates:

cor

0.02553987

> cor.test(test$Nburns, test$HighDev5km) #r is -0.184

Pearson's product-moment correlation

data: test$Nburns and test$HighDev5km

t = -2.0305, df = 99, p-value = 0.04499

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.380517434 -0.004691995

sample estimates:

cor

-0.1999479

> cor.test(test$Nburns, test$HighDev30km) #r is 0.277

Pearson's product-moment correlation

data: test$Nburns and test$HighDev30km

t = 2.823, df = 99, p-value = 0.005751

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08187953 0.44466915

sample estimates:

cor

0.2729509

> cor.test(test$Nburns, test$LowDev500m) #r is -0.074

Pearson's product-moment correlation

data: test$Nburns and test$LowDev500m

t = -0.68399, df = 99, p-value = 0.4956

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2605290 0.1285809

sample estimates:

cor

-0.06858177

> cor.test(test$Nburns, test$LowDev1km) #r is -0.203

Pearson's product-moment correlation

data: test$Nburns and test$LowDev1km

t = -2.0023, df = 99, p-value = 0.04799

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.378139905 -0.001914894

sample estimates:

cor

-0.1972803

> cor.test(test$Nburns, test$LowDev5km) #r is -0.238

Pearson's product-moment correlation

data: test$Nburns and test$LowDev5km

t = -2.5858, df = 99, p-value = 0.01117

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42602385 -0.05898766

sample estimates:

cor

-0.2515272

> cor.test(test$Nburns, test$LowDev30km) #r is -0.188

Pearson's product-moment correlation

data: test$Nburns and test$LowDev30km

t = -1.8441, df = 99, p-value = 0.06816

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36468792 0.01368931

sample estimates:

cor

-0.1822375

> cor.test(test$Nburns, test$OpenDev500m) #r is -0.196

Pearson's product-moment correlation

data: test$Nburns and test$OpenDev500m

t = -1.8452, df = 99, p-value = 0.06799

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36478237 0.01358039

sample estimates:

cor

-0.1823428

> cor.test(test$Nburns, test$OpenDev1km) #r is -0.227

Pearson's product-moment correlation

data: test$Nburns and test$OpenDev1km

t = -2.1691, df = 99, p-value = 0.03247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39211330 -0.01832028

sample estimates:

cor

-0.2129969

> cor.test(test$Nburns, test$OpenDev5km) #r is -0.186

Pearson's product-moment correlation

data: test$Nburns and test$OpenDev5km

t = -2.0192, df = 99, p-value = 0.04617

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.379568574 -0.003582973

sample estimates:

cor

-0.198883

> cor.test(test$Nburns, test$OpenDev30km) #r is -0.257

Pearson's product-moment correlation

data: test$Nburns and test$OpenDev30km

t = -2.6085, df = 99, p-value = 0.0105

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42783139 -0.06119011

sample estimates:

cor

-0.2535966

> cor.test(test$Nburns, test$Grass500m) #r is 0.035

Pearson's product-moment correlation

data: test$Nburns and test$Grass500m

t = 0.51369, df = 99, p-value = 0.6086

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1453444 0.2445346

sample estimates:

cor

0.05155945

> cor.test(test$Nburns, test$Grass1km) #r is -0.187

Pearson's product-moment correlation

data: test$Nburns and test$Grass1km

t = -1.9292, df = 99, p-value = 0.05657

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.371947846 0.005290679

sample estimates:

cor

-0.1903454

> cor.test(test$Nburns, test$Grass5km) #r is -0.010

Pearson's product-moment correlation

data: test$Nburns and test$Grass5km

t = 0.10779, df = 99, p-value = 0.9144

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1849984 0.2058360

sample estimates:

cor

0.01083256

> cor.test(test$Nburns, test$Grass30km) #r is -0.284

Pearson's product-moment correlation

data: test$Nburns and test$Grass30km

t = -1.9777, df = 99, p-value = 0.05074

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3760629713 0.0005063544

sample estimates:

cor

-0.1949522

> cor.test(test$Nburns, test$Schrubs500m) #r is 0.110

Pearson's product-moment correlation

data: test$Nburns and test$Schrubs500m

t = 1.0113, df = 99, p-value = 0.3143

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09622467 0.29080847

sample estimates:

cor

0.1011162

> cor.test(test$Nburns, test$Schrubs1km) #r is -0.016

Pearson's product-moment correlation

data: test$Nburns and test$Schrubs1km

t = -0.24989, df = 99, p-value = 0.8032

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2194697 0.1711719

sample estimates:

cor

-0.02510733

> cor.test(test$Nburns, test$Schrubs5km) #r is 0.049

Pearson's product-moment correlation

data: test$Nburns and test$Schrubs5km

t = 0.72702, df = 99, p-value = 0.4689

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1243359 0.2645456

sample estimates:

cor

0.07287417

> cor.test(test$Nburns, test$Schrubs30km) #r is 0.226

Pearson's product-moment correlation

data: test$Nburns and test$Schrubs30km

t = 2.3878, df = 99, p-value = 0.01885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03973272 0.41009562

sample estimates:

cor

0.2333599

> cor.test(test$Nburns, test$Water500m) #r is 0.213

Pearson's product-moment correlation

data: test$Nburns and test$Water500m

t = 2.2761, df = 99, p-value = 0.025

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02880926 0.40095785

sample estimates:

cor

0.222993

> cor.test(test$Nburns, test$Water1km) #r is 0.004

Pearson's product-moment correlation

data: test$Nburns and test$Water1km

t = 0.081157, df = 99, p-value = 0.9355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1875820 0.2032715

sample estimates:

cor

0.008156269

> cor.test(test$Nburns, test$Water5km) #r is -0.242

Pearson's product-moment correlation

data: test$Nburns and test$Water5km

t = -2.635, df = 99, p-value = 0.009767

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42993007 -0.06375179

sample estimates:

cor

-0.2560014

> cor.test(test$Nburns, test$Water30km) #r is -0.117

Pearson's product-moment correlation

data: test$Nburns and test$Water30km

t = -1.1076, df = 99, p-value = 0.2707

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29959910 0.08667538

sample estimates:

cor

-0.1106381

> cor.test(test$Nburns, test$NSoilTypes) #r is -0.122

Pearson's product-moment correlation

data: test$Nburns and test$NSoilTypes

t = -0.75357, df = 99, p-value = 0.4529

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2670183 0.1217156

sample estimates:

cor

-0.07552015

> cor.test(test$Nburns, test$FPSiteIndex) # r is 0.177

Pearson's product-moment correlation

data: test$Nburns and test$FPSiteIndex

t = 1.569, df = 91, p-value = 0.1201

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04282878 0.35429055

sample estimates:

cor

0.1622955

> cor.test(test$Nburns, test$SiteIndexPrimaryS) # r is 0.235

Pearson's product-moment correlation

data: test$Nburns and test$SiteIndexPrimaryS

t = 1.9812, df = 91, p-value = 0.05059

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0003764191 0.3908647126

sample estimates:

cor

0.2033474

> cor.test(test$Nburns, test$PISoils) # r is 0.278

Pearson's product-moment correlation

data: test$Nburns and test$PISoils

t = 3.0722, df = 99, p-value = 0.002744

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1056827 0.4637289

sample estimates:

cor

0.2950283

> cor.test(test$Nburns, test$SISoils) # r is -0.062

Pearson's product-moment correlation

data: test$Nburns and test$SISoils

t = -1.142, df = 99, p-value = 0.2562

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30271695 0.08327129

sample estimates:

cor

-0.1140236

> cor.test(test$Nburns, test$HydricSoils) # r is -0.191

Pearson's product-moment correlation

data: test$Nburns and test$HydricSoils

t = -1.5803, df = 99, p-value = 0.1172

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34182088 0.03979862

sample estimates:

cor

-0.1568607

> #Nthins by each

> #cor.test(test$Nthins, test$Treatment) #non-numeric

> cor.test(test$Nthins, test$Herbicide) # r is 0.101

Pearson's product-moment correlation

data: test$Nthins and test$Herbicide

t = 1.1749, df = 99, p-value = 0.2429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08000738 0.30569869

sample estimates:

cor

0.1172655

> cor.test(test$Nthins, test$LastB) # r is -0.096

Pearson's product-moment correlation

data: test$Nthins and test$LastB

t = 0.30999, df = 77, p-value = 0.7574

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1872675 0.2544291

sample estimates:

cor

0.03530479

> cor.test(test$Nthins, test$LastT) #r is -0.083

Pearson's product-moment correlation

data: test$Nthins and test$LastT

t = -0.59135, df = 94, p-value = 0.5557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2582139 0.1413314

sample estimates:

cor

-0.06087957

> cor.test(test$Nthins, test$BA) #r is -0.536 #over 0.5 - acknowledge this duh link

Pearson's product-moment correlation

data: test$Nthins and test$BA

t = -5.2953, df = 99, p-value = 7.176e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6093028 -0.3021093

sample estimates:

cor

-0.4698092

> cor.test(test$Nthins, test$Nsnags) #r is -0.296

Pearson's product-moment correlation

data: test$Nthins and test$Nsnags

t = -2.8759, df = 99, p-value = 0.004934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44875747 -0.08695069

sample estimates:

cor

-0.2776713

> cor.test(test$Nthins, test$Ccover) #r is -0.467 #close - acknowledge this man. link

Pearson's product-moment correlation

data: test$Nthins and test$Ccover

t = -5.0027, df = 99, p-value = 2.454e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5926165 -0.2781877

sample estimates:

cor

-0.4492043

> cor.test(test$Nthins, test$Ldepth) #r is -0.192 #-0.375

Pearson's product-moment correlation

data: test$Nthins and test$Ldepth

t = -2.8977, df = 99, p-value = 0.004628

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45043830 -0.08904105

sample estimates:

cor

-0.2796144

> cor.test(test$Nthins, test$TreeHt) #r is 0.438 #less now

Pearson's product-moment correlation

data: test$Nthins and test$TreeHt

t = 3.0845, df = 99, p-value = 0.002643

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1068503 0.4646554

sample estimates:

cor

0.2961061

> cor.test(test$Nthins, test$Age) #r is 0.702 #ACKNOWLEDGE - unavoidable

Pearson's product-moment correlation

data: test$Nthins and test$Age

t = 9.0228, df = 99, p-value = 1.478e-14

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5482972 0.7665533

sample estimates:

cor

0.6717523

> cor.test(test$Nthins, test$Nburns) #r is 0.494 #close - acknowledge

Pearson's product-moment correlation

data: test$Nthins and test$Nburns

t = 5.8382, df = 99, p-value = 6.71e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3447325 0.6383749

sample estimates:

cor

0.5060754

> #cor.test(test$Nthins, test$Nthins) #r is

> cor.test(test$Nthins, test$TimeSinceB) #r is -0.387 #close-ish

Pearson's product-moment correlation

data: test$Nthins and test$TimeSinceB

t = -4.1955, df = 99, p-value = 5.944e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.542758 -0.208961

sample estimates:

cor

-0.3885329

> cor.test(test$Nthins, test$TimeSinceT) #r is -0.189

Pearson's product-moment correlation

data: test$Nthins and test$TimeSinceT

t = -2.0392, df = 99, p-value = 0.04409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381253965 -0.005553486

sample estimates:

cor

-0.2007748

> cor.test(test$Nthins, test$HWdens\_10) #r is 0.323 #high-ish

Pearson's product-moment correlation

data: test$Nthins and test$HWdens\_10

t = 2.8374, df = 99, p-value = 0.005518

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08325712 0.44578124

sample estimates:

cor

0.2742341

> cor.test(test$Nthins, test$HWdens\_50) #r is 0.331 #-high-ish

Pearson's product-moment correlation

data: test$Nthins and test$HWdens\_50

t = 1.8584, df = 99, p-value = 0.06608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01227906 0.36591019

sample estimates:

cor

0.1836008

> cor.test(test$Nthins, test$HWdens\_100) #r is 0.096

Pearson's product-moment correlation

data: test$Nthins and test$HWdens\_100

t = 0.22646, df = 99, p-value = 0.8213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1734562 0.2172276

sample estimates:

cor

0.0227544

> cor.test(test$Nthins, test$FG\_herb) #r is 0.171

Pearson's product-moment correlation

data: test$Nthins and test$FG\_herb

t = 1.9831, df = 99, p-value = 0.05012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

2.794691e-05 3.765216e-01

sample estimates:

cor

0.1954661

> cor.test(test$Nthins, test$FG\_shrub) #r is -0.105

Pearson's product-moment correlation

data: test$Nthins and test$FG\_shrub

t = 1.3906, df = 99, p-value = 0.1675

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05860505 0.32506503

sample estimates:

cor

0.1384196

> cor.test(test$Nthins, test$NHW\_saplings) #r is 0.080

Pearson's product-moment correlation

data: test$Nthins and test$NHW\_saplings

t = -0.52908, df = 99, p-value = 0.5979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2459860 0.1438324

sample estimates:

cor

-0.05309952

> cor.test(test$Nthins, test$NP\_over\_20cm) #r is -0.374 #high-ISH #higher now

Pearson's product-moment correlation

data: test$Nthins and test$NP\_over\_20cm

t = -4.1097, df = 99, p-value = 8.177e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5371229 -0.2013417

sample estimates:

cor

-0.3817587

> cor.test(test$Nthins, test$Rel\_HW2P\_canopy) #r is -0.202

Pearson's product-moment correlation

data: test$Nthins and test$Rel\_HW2P\_canopy

t = -2.5017, df = 99, p-value = 0.014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41929491 -0.05081989

sample estimates:

cor

-0.2438373

> cor.test(test$Nthins, test$Rel\_HW2P\_shrubcover) #r is -0.063

Pearson's product-moment correlation

data: test$Nthins and test$Rel\_HW2P\_shrubcover

t = -0.27885, df = 99, p-value = 0.7809

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2222370 0.1683465

sample estimates:

cor

-0.02801446

> cor.test(test$Nthins, test$LCR) #r is -0.359

Pearson's product-moment correlation

data: test$Nthins and test$LCR

t = -1.2686, df = 98, p-value = 0.2076

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3156443 0.0710863

sample estimates:

cor

-0.1271066

> cor.test(test$Nthins, test$HW\_dens\_1050) #r is 0.358

Pearson's product-moment correlation

data: test$Nthins and test$HW\_dens\_1050

t = 2.5138, df = 99, p-value = 0.01356

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05199859 0.42026848

sample estimates:

cor

0.2449486

> cor.test(test$Nthins, test$HW\_shrub) #r is -0.036

Pearson's product-moment correlation

data: test$Nthins and test$HW\_shrub

t = -1.1069, df = 99, p-value = 0.271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29953276 0.08674771

sample estimates:

cor

-0.1105661

> cor.test(test$Nthins, test$Parea) #r is 0.065

Pearson's product-moment correlation

data: test$Nthins and test$Parea

t = 0.46992, df = 99, p-value = 0.6394

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1496424 0.2403993

sample estimates:

cor

0.04717656

> cor.test(test$Nthins, test$ShapeIndex) #r is 0.144

Pearson's product-moment correlation

data: test$Nthins and test$ShapeIndex

t = 1.3554, df = 99, p-value = 0.1784

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06210124 0.32192327

sample estimates:

cor

0.1349762

> cor.test(test$Nthins, test$PAratio) #r is -0.014

Pearson's product-moment correlation

data: test$Nthins and test$PAratio

t = 0.0091782, df = 99, p-value = 0.9927

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1945519 0.1963263

sample estimates:

cor

0.0009224445

> cor.test(test$Nthins, test$FracDimIndex) #r is 0.111

Pearson's product-moment correlation

data: test$Nthins and test$FracDimIndex

t = 1.093, df = 99, p-value = 0.2771

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08812845 0.29826568

sample estimates:

cor

0.1091915

> cor.test(test$Nthins, test$CoreAreaIndex) #r is 0.040

Pearson's product-moment correlation

data: test$Nthins and test$CoreAreaIndex

t = 0.2603, df = 99, p-value = 0.7952

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1701564 0.2204649

sample estimates:

cor

0.02615253

> cor.test(test$Nthins, test$Ag500m) #r is -0.146

Pearson's product-moment correlation

data: test$Nthins and test$Ag500m

t = -1.2715, df = 99, p-value = 0.2065

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31440967 0.07042441

sample estimates:

cor

-0.1267595

> cor.test(test$Nthins, test$Ag1km) #r is -0.023

Pearson's product-moment correlation

data: test$Nthins and test$Ag1km

t = 0.15813, df = 99, p-value = 0.8747

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1801084 0.2106752

sample estimates:

cor

0.01589016

> cor.test(test$Nthins, test$Ag5km) #r is 0.085

Pearson's product-moment correlation

data: test$Nthins and test$Ag5km

t = 1.2219, df = 99, p-value = 0.2246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07534454 0.30994532

sample estimates:

cor

0.1218896

> cor.test(test$Nthins, test$Ag30km) #r is -0.063

Pearson's product-moment correlation

data: test$Nthins and test$Ag30km

t = -0.20848, df = 99, p-value = 0.8353

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2155050 0.1752086

sample estimates:

cor

-0.02094799

> cor.test(test$Nthins, test$Evergreen500m) #r is 0.381

Pearson's product-moment correlation

data: test$Nthins and test$Evergreen500m

t = 3.8448, df = 99, p-value = 0.0002134

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1775118 0.5193030

sample estimates:

cor

0.3604462

> cor.test(test$Nthins, test$Evergreen1km) #r is 0.223

Pearson's product-moment correlation

data: test$Nthins and test$Evergreen1km

t = 2.2233, df = 99, p-value = 0.02847

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02363874 0.39660660

sample estimates:

cor

0.2180705

> cor.test(test$Nthins, test$Evergreen5km) #r is 0.066

Pearson's product-moment correlation

data: test$Nthins and test$Evergreen5km

t = 0.59742, df = 99, p-value = 0.5516

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1371100 0.2524179

sample estimates:

cor

0.05993535

> cor.test(test$Nthins, test$Evergreen30km) #r is -0.133

Pearson's product-moment correlation

data: test$Nthins and test$Evergreen30km

t = -0.93112, df = 99, p-value = 0.3541

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2834518 0.1041619

sample estimates:

cor

-0.09317412

> cor.test(test$Nthins, test$Imperv500m) #r is 0.250

Pearson's product-moment correlation

data: test$Nthins and test$Imperv500m

t = 2.5029, df = 99, p-value = 0.01396

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05093789 0.41939242

sample estimates:

cor

0.2439486

> cor.test(test$Nthins, test$Imperv1km) #r is 0.082

Pearson's product-moment correlation

data: test$Nthins and test$Imperv1km

t = 0.82821, df = 99, p-value = 0.4095

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.114342 0.273949

sample estimates:

cor

0.08295093

> cor.test(test$Nthins, test$Imperv5km) #r is -0.037

Pearson's product-moment correlation

data: test$Nthins and test$Imperv5km

t = -0.28738, df = 99, p-value = 0.7744

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2230511 0.1675140

sample estimates:

cor

-0.02887043

> cor.test(test$Nthins, test$Imperv30km) #r is 0.152

Pearson's product-moment correlation

data: test$Nthins and test$Imperv30km

t = 1.6589, df = 99, p-value = 0.1003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03200891 0.34869089

sample estimates:

cor

0.1644592

> cor.test(test$Nthins, test$Protected30km) #r is -0.088

Pearson's product-moment correlation

data: test$Nthins and test$Protected30km

t = -1.0661, df = 99, p-value = 0.289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29581520 0.09079456

sample estimates:

cor

-0.1065351

> cor.test(test$Nthins, test$HighDev500m) #r is -0.114

Pearson's product-moment correlation

data: test$Nthins and test$HighDev500m

t = -1.1772, df = 99, p-value = 0.2419

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30590821 0.07977772

sample estimates:

cor

-0.1174935

> cor.test(test$Nthins, test$HighDev1km) #r is 0.041

Pearson's product-moment correlation

data: test$Nthins and test$HighDev1km

t = 0.46031, df = 99, p-value = 0.6463

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1505860 0.2394896

sample estimates:

cor

0.04621334

> cor.test(test$Nthins, test$HighDev5km) #r is -0.032

Pearson's product-moment correlation

data: test$Nthins and test$HighDev5km

t = -0.2342, df = 99, p-value = 0.8153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2179682 0.1727022

sample estimates:

cor

-0.02353133

> cor.test(test$Nthins, test$HighDev30km) #r is 0.192

Pearson's product-moment correlation

data: test$Nthins and test$HighDev30km

t = 1.523, df = 99, p-value = 0.131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04548085 0.33678368

sample estimates:

cor

0.1513033

> cor.test(test$Nthins, test$LowDev500m) #r is 0.178

Pearson's product-moment correlation

data: test$Nthins and test$LowDev500m

t = 1.8695, df = 99, p-value = 0.06451

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01118067 0.36686126

sample estimates:

cor

0.1846621

> cor.test(test$Nthins, test$LowDev1km) #r is 0.075

Pearson's product-moment correlation

data: test$Nthins and test$LowDev1km

t = 1.1518, df = 99, p-value = 0.2522

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08229538 0.30360929

sample estimates:

cor

0.1149934

> cor.test(test$Nthins, test$LowDev5km) #r is -0.079

Pearson's product-moment correlation

data: test$Nthins and test$LowDev5km

t = -0.6927, df = 99, p-value = 0.4901

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2613427 0.1277221

sample estimates:

cor

-0.06945079

> cor.test(test$Nthins, test$LowDev30km) #r is 0.160

Pearson's product-moment correlation

data: test$Nthins and test$LowDev30km

t = 1.9784, df = 99, p-value = 0.05066

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0004321236 0.3761267023

sample estimates:

cor

0.1950236

> cor.test(test$Nthins, test$OpenDev500m) #r is -0.060

Pearson's product-moment correlation

data: test$Nthins and test$OpenDev500m

t = -0.55079, df = 99, p-value = 0.583

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2480322 0.1416977

sample estimates:

cor

-0.05527223

> cor.test(test$Nthins, test$OpenDev1km) #r is -0.148

Pearson's product-moment correlation

data: test$Nthins and test$OpenDev1km

t = -1.3472, df = 99, p-value = 0.181

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32118907 0.06291691

sample estimates:

cor

-0.1341722

> cor.test(test$Nthins, test$OpenDev5km) #r is -0.278

Pearson's product-moment correlation

data: test$Nthins and test$OpenDev5km

t = -2.9018, df = 99, p-value = 0.004572

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45075609 -0.08943662

sample estimates:

cor

-0.279982

> cor.test(test$Nthins, test$OpenDev30km) #r is -0.075

Pearson's product-moment correlation

data: test$Nthins and test$OpenDev30km

t = -0.26261, df = 99, p-value = 0.7934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2206855 0.1699313

sample estimates:

cor

-0.02638425

> cor.test(test$Nthins, test$Grass500m) #r is -0.102

Pearson's product-moment correlation

data: test$Nthins and test$Grass500m

t = -0.95485, df = 99, p-value = 0.342

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2856334 0.1018133

sample estimates:

cor

-0.09552679

> cor.test(test$Nthins, test$Grass1km) #r is -0.138

Pearson's product-moment correlation

data: test$Nthins and test$Grass1km

t = -1.4537, df = 99, p-value = 0.1492

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33066661 0.05234811

sample estimates:

cor

-0.1445702

> cor.test(test$Nthins, test$Grass5km) #r is 0.040

Pearson's product-moment correlation

data: test$Nthins and test$Grass5km

t = 0.73481, df = 99, p-value = 0.4642

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1235671 0.2652717

sample estimates:

cor

0.07365087

> cor.test(test$Nthins, test$Grass30km) #r is 0.004

Pearson's product-moment correlation

data: test$Nthins and test$Grass30km

t = 0.83337, df = 99, p-value = 0.4066

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1138312 0.2744276

sample estimates:

cor

0.08346487

> cor.test(test$Nthins, test$Schrubs500m) #r is -0.074

Pearson's product-moment correlation

data: test$Nthins and test$Schrubs500m

t = -0.87186, df = 99, p-value = 0.3854

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2779877 0.1100254

sample estimates:

cor

-0.08729093

> cor.test(test$Nthins, test$Schrubs1km) #r is -0.183

Pearson's product-moment correlation

data: test$Nthins and test$Schrubs1km

t = -2.0425, df = 99, p-value = 0.04376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381528944 -0.005875262

sample estimates:

cor

-0.2010836

> cor.test(test$Nthins, test$Schrubs5km) #r is -0.295

Pearson's product-moment correlation

data: test$Nthins and test$Schrubs5km

t = -3.2633, df = 99, p-value = 0.001512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4779721 -0.1237426

sample estimates:

cor

-0.311645

> cor.test(test$Nthins, test$Schrubs30km) #r is 0.099

Pearson's product-moment correlation

data: test$Nthins and test$Schrubs30km

t = 0.77596, df = 99, p-value = 0.4396

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1195043 0.2691010

sample estimates:

cor

0.0777509

> cor.test(test$Nthins, test$Water500m) #r is 0.151

Pearson's product-moment correlation

data: test$Nthins and test$Water500m

t = 1.4202, df = 99, p-value = 0.1587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05567431 0.32769216

sample estimates:

cor

0.1413025

> cor.test(test$Nthins, test$Water1km) #r is 0.038

Pearson's product-moment correlation

data: test$Nthins and test$Water1km

t = 0.2219, df = 99, p-value = 0.8248

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1739005 0.2167911

sample estimates:

cor

0.02229652

> cor.test(test$Nthins, test$Water5km) #r is -0.310

Pearson's product-moment correlation

data: test$Nthins and test$Water5km

t = -3.3773, df = 99, p-value = 0.001048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4863077 -0.1344219

sample estimates:

cor

-0.3214171

> cor.test(test$Nthins, test$Water30km) #r is -0.195

Pearson's product-moment correlation

data: test$Nthins and test$Water30km

t = -2.2486, df = 99, p-value = 0.02675

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39869824 -0.02612171

sample estimates:

cor

-0.2204356

> cor.test(test$Nthins, test$NSoilTypes) #r is -0.058

Pearson's product-moment correlation

data: test$Nthins and test$NSoilTypes

t = -1.0861, df = 99, p-value = 0.2801

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29763575 0.08881435

sample estimates:

cor

-0.1085084

> cor.test(test$Nthins, test$FPSiteIndex) # r is 0.276

Pearson's product-moment correlation

data: test$Nthins and test$FPSiteIndex

t = 2.6785, df = 91, p-value = 0.008775

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07050624 0.44929779

sample estimates:

cor

0.2703318

> cor.test(test$Nthins, test$SiteIndexPrimaryS) # r is 0.261

Pearson's product-moment correlation

data: test$Nthins and test$SiteIndexPrimaryS

t = 2.4956, df = 91, p-value = 0.01438

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05206824 0.43440377

sample estimates:

cor

0.253092

> cor.test(test$Nthins, test$PISoils) # r is -0.134

Pearson's product-moment correlation

data: test$Nthins and test$PISoils

t = -1.0632, df = 99, p-value = 0.2903

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29555428 0.09107811

sample estimates:

cor

-0.1062525

> cor.test(test$Nthins, test$SISoils) # r is -0.100

Pearson's product-moment correlation

data: test$Nthins and test$SISoils

t = -1.3297, df = 99, p-value = 0.1867

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31962957 0.06464776

sample estimates:

cor

-0.1324652

> cor.test(test$Nthins, test$HydricSoils) # r is -0.173

Pearson's product-moment correlation

data: test$Nthins and test$HydricSoils

t = -1.3933, df = 99, p-value = 0.1666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32530155 0.05834147

sample estimates:

cor

-0.138679

> #TimeSinceB by each

> #cor.test(test$TimeSinceB, test$Treatment) #non-numeric

> cor.test(test$TimeSinceB, test$Herbicide) # r is -0.300 #high-ISH -0.352

Pearson's product-moment correlation

data: test$TimeSinceB and test$Herbicide

t = -3.4422, df = 99, p-value = 0.0008468

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4910062 -0.1404776

sample estimates:

cor

-0.3269408

> cor.test(test$TimeSinceB, test$LastB) # r is -1 #duh! timing since burn

Pearson's product-moment correlation

data: test$TimeSinceB and test$LastB

t = -40.511, df = 77, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.9854834 -0.9646938

sample estimates:

cor

-0.9773349

> cor.test(test$TimeSinceB, test$LastT) #r is -0.005

Pearson's product-moment correlation

data: test$TimeSinceB and test$LastT

t = -0.01013, df = 94, p-value = 0.9919

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2014885 0.1994829

sample estimates:

cor

-0.001044802

> cor.test(test$TimeSinceB, test$BA) #r is 0.413 #less now 0.317

Pearson's product-moment correlation

data: test$TimeSinceB and test$BA

t = 3.9208, df = 99, p-value = 0.0001628

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1843860 0.5244742

sample estimates:

cor

0.3666139

> cor.test(test$TimeSinceB, test$Nsnags) #r is 0.160

Pearson's product-moment correlation

data: test$TimeSinceB and test$Nsnags

t = 0.73415, df = 99, p-value = 0.4646

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1236322 0.2652103

sample estimates:

cor

0.0735851

> cor.test(test$TimeSinceB, test$Ccover) #r is 0.391 #high-ISH

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ccover

t = 3.6199, df = 99, p-value = 0.0004666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1569358 0.5036734

sample estimates:

cor

0.3418889

> cor.test(test$TimeSinceB, test$Ldepth) #r is 0.366 #higher #0.5

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ldepth

t = 4.7657, df = 99, p-value = 6.462e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2583509 0.5785718

sample estimates:

cor

0.4319788

> cor.test(test$TimeSinceB, test$TreeHt) #r is -0.082

Pearson's product-moment correlation

data: test$TimeSinceB and test$TreeHt

t = 0.53145, df = 99, p-value = 0.5963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1435993 0.2462097

sample estimates:

cor

0.05333691

> cor.test(test$TimeSinceB, test$Age) #r is -0.340 #high-ISH

Pearson's product-moment correlation

data: test$TimeSinceB and test$Age

t = -3.676, df = 99, p-value = 0.000385

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5076145 -0.1620959

sample estimates:

cor

-0.3465563

> cor.test(test$TimeSinceB, test$Nburns) #r is -0.515 #0.5 - makes sense

Pearson's product-moment correlation

data: test$TimeSinceB and test$Nburns

t = -5.8516, df = 99, p-value = 6.322e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6390601 -0.3457520

sample estimates:

cor

-0.5069358

> cor.test(test$TimeSinceB, test$Nthins) #r is -0.387 #high-ISH

Pearson's product-moment correlation

data: test$TimeSinceB and test$Nthins

t = -4.1955, df = 99, p-value = 5.944e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.542758 -0.208961

sample estimates:

cor

-0.3885329

> #cor.test(test$TimeSinceB, test$TimeSinceB) #r is

> cor.test(test$TimeSinceB, test$TimeSinceT) #r is 0.220

Pearson's product-moment correlation

data: test$TimeSinceB and test$TimeSinceT

t = 2.3303, df = 99, p-value = 0.02182

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0341178 0.4054079

sample estimates:

cor

0.2280365

> cor.test(test$TimeSinceB, test$HWdens\_10) #r is -0.296 #check out later and think

Pearson's product-moment correlation

data: test$TimeSinceB and test$HWdens\_10

t = -2.7242, df = 99, p-value = 0.007622

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4369574 -0.0723647

sample estimates:

cor

-0.2640693

> cor.test(test$TimeSinceB, test$HWdens\_50) #r is -0.364 # "

Pearson's product-moment correlation

data: test$TimeSinceB and test$HWdens\_50

t = -3.2625, df = 99, p-value = 0.001516

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4779076 -0.1236603

sample estimates:

cor

-0.3115695

> cor.test(test$TimeSinceB, test$HWdens\_100) #r is -0.337 # "

Pearson's product-moment correlation

data: test$TimeSinceB and test$HWdens\_100

t = -2.849, df = 99, p-value = 0.005335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44668322 -0.08437544

sample estimates:

cor

-0.2752753

> cor.test(test$TimeSinceB, test$FG\_herb) #r is -0.495 #high

Pearson's product-moment correlation

data: test$TimeSinceB and test$FG\_herb

t = -4.8109, df = 99, p-value = 5.384e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5812856 -0.2621631

sample estimates:

cor

-0.435299

> cor.test(test$TimeSinceB, test$FG\_shrub) #r is 0.071

Pearson's product-moment correlation

data: test$TimeSinceB and test$FG\_shrub

t = -1.0773, df = 99, p-value = 0.284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29683694 0.08968359

sample estimates:

cor

-0.1076424

> cor.test(test$TimeSinceB, test$NHW\_saplings) #r is 0.025

Pearson's product-moment correlation

data: test$TimeSinceB and test$NHW\_saplings

t = 0.55484, df = 99, p-value = 0.5803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1412999 0.2484130

sample estimates:

cor

0.05567687

> cor.test(test$TimeSinceB, test$NP\_over\_20cm) #r is 0.317 #high-ISH

Pearson's product-moment correlation

data: test$TimeSinceB and test$NP\_over\_20cm

t = 1.4704, df = 99, p-value = 0.1446

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0506913 0.3321454

sample estimates:

cor

0.1461963

> cor.test(test$TimeSinceB, test$Rel\_HW2P\_canopy) #r is 0.419 #high-ISH

Pearson's product-moment correlation

data: test$TimeSinceB and test$Rel\_HW2P\_canopy

t = 3.5987, df = 99, p-value = 0.0005015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1549809 0.5021766

sample estimates:

cor

0.3401182

> cor.test(test$TimeSinceB, test$Rel\_HW2P\_shrubcover) #r is -0.010

Pearson's product-moment correlation

data: test$TimeSinceB and test$Rel\_HW2P\_shrubcover

t = 0.30094, df = 99, p-value = 0.7641

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1661889 0.2243460

sample estimates:

cor

0.03023228

> cor.test(test$TimeSinceB, test$LCR) #r is 0.103 #-0.345

Pearson's product-moment correlation

data: test$TimeSinceB and test$LCR

t = 0.44885, df = 98, p-value = 0.6545

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1524805 0.2395809

sample estimates:

cor

0.04529421

> cor.test(test$TimeSinceB, test$HW\_dens\_1050) #r is -0.362

Pearson's product-moment correlation

data: test$TimeSinceB and test$HW\_dens\_1050

t = -3.2426, df = 99, p-value = 0.001615

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4764449 -0.1217949

sample estimates:

cor

-0.3098584

> cor.test(test$TimeSinceB, test$HW\_shrub) #r is -0.044

Pearson's product-moment correlation

data: test$TimeSinceB and test$HW\_shrub

t = -0.16004, df = 99, p-value = 0.8732

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2108590 0.1799223

sample estimates:

cor

-0.01608246

> cor.test(test$TimeSinceB, test$Parea) #r is 0.030

Pearson's product-moment correlation

data: test$TimeSinceB and test$Parea

t = 0.14113, df = 99, p-value = 0.8881

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1817602 0.2090427

sample estimates:

cor

0.01418293

> cor.test(test$TimeSinceB, test$ShapeIndex) #r is 0.042

Pearson's product-moment correlation

data: test$TimeSinceB and test$ShapeIndex

t = 0.32979, df = 99, p-value = 0.7423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1633696 0.2270963

sample estimates:

cor

0.03312734

> cor.test(test$TimeSinceB, test$PAratio) #r is -0.104

Pearson's product-moment correlation

data: test$TimeSinceB and test$PAratio

t = -0.68925, df = 99, p-value = 0.4923

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2610204 0.1280623

sample estimates:

cor

-0.06910654

> cor.test(test$TimeSinceB, test$FracDimIndex) #r is 0.030

Pearson's product-moment correlation

data: test$TimeSinceB and test$FracDimIndex

t = 0.27727, df = 99, p-value = 0.7822

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1685012 0.2220856

sample estimates:

cor

0.02785538

> cor.test(test$TimeSinceB, test$CoreAreaIndex) #r is 0.096

Pearson's product-moment correlation

data: test$TimeSinceB and test$CoreAreaIndex

t = 0.59821, df = 99, p-value = 0.5511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1370327 0.2524916

sample estimates:

cor

0.06001381

> cor.test(test$TimeSinceB, test$Ag500m) #r is 0.159

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ag500m

t = 2.0201, df = 99, p-value = 0.04607

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.00367179 0.37964459

sample estimates:

cor

0.1989683

> cor.test(test$TimeSinceB, test$Ag1km) #r is 0.206

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ag1km

t = 2.3263, df = 99, p-value = 0.02204

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0337207 0.4050756

sample estimates:

cor

0.2276596

> cor.test(test$TimeSinceB, test$Ag5km) #r is 0.149

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ag5km

t = 0.87728, df = 99, p-value = 0.3825

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1094899 0.2784878

sample estimates:

cor

0.08782882

> cor.test(test$TimeSinceB, test$Ag30km) #r is 0.366

Pearson's product-moment correlation

data: test$TimeSinceB and test$Ag30km

t = 3.2116, df = 99, p-value = 0.001781

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1188704 0.4741479

sample estimates:

cor

0.3071735

> cor.test(test$TimeSinceB, test$Evergreen500m) #r is -0.238

Pearson's product-moment correlation

data: test$TimeSinceB and test$Evergreen500m

t = -2.9768, df = 99, p-value = 0.003661

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45649566 -0.09660076

sample estimates:

cor

-0.2866286

> cor.test(test$TimeSinceB, test$Evergreen1km) #r is -0.340

Pearson's product-moment correlation

data: test$TimeSinceB and test$Evergreen1km

t = -3.4816, df = 99, p-value = 0.0007431

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4938429 -0.1441465

sample estimates:

cor

-0.3302811

> cor.test(test$TimeSinceB, test$Evergreen5km) #r is -0.308 #-0.268

Pearson's product-moment correlation

data: test$TimeSinceB and test$Evergreen5km

t = -2.9806, df = 99, p-value = 0.00362

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45678418 -0.09696187

sample estimates:

cor

-0.2869631

> cor.test(test$TimeSinceB, test$Evergreen30km) #r is -0.313 #-0.2

Pearson's product-moment correlation

data: test$TimeSinceB and test$Evergreen30km

t = -3.0496, df = 99, p-value = 0.00294

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4620225 -0.1035347

sample estimates:

cor

-0.2930443

> cor.test(test$TimeSinceB, test$Imperv500m) #r is 0.171

Pearson's product-moment correlation

data: test$TimeSinceB and test$Imperv500m

t = 1.8253, df = 99, p-value = 0.07096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0155447 0.3630779

sample estimates:

cor

0.1804428

> cor.test(test$TimeSinceB, test$Imperv1km) #r is -0.087

Pearson's product-moment correlation

data: test$TimeSinceB and test$Imperv1km

t = -0.72798, df = 99, p-value = 0.4683

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2646352 0.1242412

sample estimates:

cor

-0.0729699

> cor.test(test$TimeSinceB, test$Imperv5km) #r is 0.140

Pearson's product-moment correlation

data: test$TimeSinceB and test$Imperv5km

t = 1.7154, df = 99, p-value = 0.0894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02642039 0.35359452

sample estimates:

cor

0.1698961

> cor.test(test$TimeSinceB, test$Imperv30km) #r is -0.055

Pearson's product-moment correlation

data: test$TimeSinceB and test$Imperv30km

t = -0.59646, df = 99, p-value = 0.5522

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2523277 0.1372045

sample estimates:

cor

-0.05983937

> cor.test(test$TimeSinceB, test$Protected30km) #r is -0.193

Pearson's product-moment correlation

data: test$TimeSinceB and test$Protected30km

t = -1.9481, df = 99, p-value = 0.05423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373555765 0.003423335

sample estimates:

cor

-0.1921445

> cor.test(test$TimeSinceB, test$HighDev500m) #r is 0.254

Pearson's product-moment correlation

data: test$TimeSinceB and test$HighDev500m

t = 2.7684, df = 99, p-value = 0.006724

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07663193 0.44042260

sample estimates:

cor

0.2680565

> cor.test(test$TimeSinceB, test$HighDev1km) #r is -0.070

Pearson's product-moment correlation

data: test$TimeSinceB and test$HighDev1km

t = -0.53665, df = 99, p-value = 0.5927

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2466993 0.1430887

sample estimates:

cor

-0.05385667

> cor.test(test$TimeSinceB, test$HighDev5km) #r is 0.144

Pearson's product-moment correlation

data: test$TimeSinceB and test$HighDev5km

t = 1.7542, df = 99, p-value = 0.0825

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02258433 0.35694841

sample estimates:

cor

0.1736213

> cor.test(test$TimeSinceB, test$HighDev30km) #r is -0.302

Pearson's product-moment correlation

data: test$TimeSinceB and test$HighDev30km

t = -3.0531, df = 99, p-value = 0.002909

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4622843 -0.1038641

sample estimates:

cor

-0.2933487

> cor.test(test$TimeSinceB, test$LowDev500m) #r is -0.013

Pearson's product-moment correlation

data: test$TimeSinceB and test$LowDev500m

t = -0.11946, df = 99, p-value = 0.9052

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2069588 0.1838655

sample estimates:

cor

-0.01200514

> cor.test(test$TimeSinceB, test$LowDev1km) #r is 0.030

Pearson's product-moment correlation

data: test$TimeSinceB and test$LowDev1km

t = 0.38459, df = 99, p-value = 0.7014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1580083 0.2323094

sample estimates:

cor

0.03862371

> cor.test(test$TimeSinceB, test$LowDev5km) #r is 0.168

Pearson's product-moment correlation

data: test$TimeSinceB and test$LowDev5km

t = 1.9462, df = 99, p-value = 0.05446

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.003608864 0.373396113

sample estimates:

cor

0.1919658

> cor.test(test$TimeSinceB, test$LowDev30km) #r is 0.002

Pearson's product-moment correlation

data: test$TimeSinceB and test$LowDev30km

t = -0.20628, df = 99, p-value = 0.837

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2152947 0.1754223

sample estimates:

cor

-0.02072763

> cor.test(test$TimeSinceB, test$OpenDev500m) #r is 0.130

Pearson's product-moment correlation

data: test$TimeSinceB and test$OpenDev500m

t = 1.0246, df = 99, p-value = 0.308

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09490056 0.29203131

sample estimates:

cor

0.1024387

> cor.test(test$TimeSinceB, test$OpenDev1km) #r is 0.206

Pearson's product-moment correlation

data: test$TimeSinceB and test$OpenDev1km

t = 2.0532, df = 99, p-value = 0.04269

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.006931439 0.382431053

sample estimates:

cor

0.2020969

> cor.test(test$TimeSinceB, test$OpenDev5km) #r is 0.201 #.3

Pearson's product-moment correlation

data: test$TimeSinceB and test$OpenDev5km

t = 2.5847, df = 99, p-value = 0.0112

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05888556 0.42593998

sample estimates:

cor

0.2514312

> cor.test(test$TimeSinceB, test$OpenDev30km) #r is 0.168

Pearson's product-moment correlation

data: test$TimeSinceB and test$OpenDev30km

t = 1.6407, df = 99, p-value = 0.104

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03381019 0.34710592

sample estimates:

cor

0.1627042

> cor.test(test$TimeSinceB, test$Grass500m) #r is -0.022

Pearson's product-moment correlation

data: test$TimeSinceB and test$Grass500m

t = 0.13204, df = 99, p-value = 0.8952

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1826433 0.2081690

sample estimates:

cor

0.01326964

> cor.test(test$TimeSinceB, test$Grass1km) #r is -0.032

Pearson's product-moment correlation

data: test$TimeSinceB and test$Grass1km

t = 0.064838, df = 99, p-value = 0.9484

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1891639 0.2016987

sample estimates:

cor

0.006516279

> cor.test(test$TimeSinceB, test$Grass5km) #r is 0.242

Pearson's product-moment correlation

data: test$TimeSinceB and test$Grass5km

t = 1.0805, df = 99, p-value = 0.2826

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0893689 0.2971262

sample estimates:

cor

0.1079559

> cor.test(test$TimeSinceB, test$Grass30km) #r is 0.322

Pearson's product-moment correlation

data: test$TimeSinceB and test$Grass30km

t = 1.1578, df = 99, p-value = 0.2497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08169765 0.30415550

sample estimates:

cor

0.1155872

> cor.test(test$TimeSinceB, test$Schrubs500m) #r is 0.102

Pearson's product-moment correlation

data: test$TimeSinceB and test$Schrubs500m

t = 1.3784, df = 99, p-value = 0.1712

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05981993 0.32397427

sample estimates:

cor

0.1372236

> cor.test(test$TimeSinceB, test$Schrubs1km) #r is 0.067

Pearson's product-moment correlation

data: test$TimeSinceB and test$Schrubs1km

t = 1.02, df = 99, p-value = 0.3102

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0953566 0.2916103

sample estimates:

cor

0.1019833

> cor.test(test$TimeSinceB, test$Schrubs5km) #r is -0.074

Pearson's product-moment correlation

data: test$TimeSinceB and test$Schrubs5km

t = -0.46027, df = 99, p-value = 0.6463

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2394858 0.1505899

sample estimates:

cor

-0.04620939

> cor.test(test$TimeSinceB, test$Schrubs30km) #r is -0.184

Pearson's product-moment correlation

data: test$TimeSinceB and test$Schrubs30km

t = -2.0931, df = 99, p-value = 0.0389

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38577851 -0.01085794

sample estimates:

cor

-0.2058603

> cor.test(test$TimeSinceB, test$Water500m) #r is -0.220

Pearson's product-moment correlation

data: test$TimeSinceB and test$Water500m

t = -2.3602, df = 99, p-value = 0.02023

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4078430 -0.0370316

sample estimates:

cor

-0.2308005

> cor.test(test$TimeSinceB, test$Water1km) #r is -0.007

Pearson's product-moment correlation

data: test$TimeSinceB and test$Water1km

t = -0.14648, df = 99, p-value = 0.8838

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2095562 0.1812409

sample estimates:

cor

-0.01471976

> cor.test(test$TimeSinceB, test$Water5km) #r is 0.150

Pearson's product-moment correlation

data: test$TimeSinceB and test$Water5km

t = 1.4811, df = 99, p-value = 0.1417

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04963111 0.33309065

sample estimates:

cor

0.1472363

> cor.test(test$TimeSinceB, test$Water30km) #r is 0.087

Pearson's product-moment correlation

data: test$TimeSinceB and test$Water30km

t = 0.64399, df = 99, p-value = 0.5211

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1325237 0.2567862

sample estimates:

cor

0.06458839

> cor.test(test$TimeSinceB, test$NSoilTypes) #r is 0.030

Pearson's product-moment correlation

data: test$TimeSinceB and test$NSoilTypes

t = -0.12378, df = 99, p-value = 0.9017

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2073743 0.1834461

sample estimates:

cor

-0.01243915

> cor.test(test$TimeSinceB, test$FPSiteIndex) # r is 0.046

Pearson's product-moment correlation

data: test$TimeSinceB and test$FPSiteIndex

t = -0.019921, df = 91, p-value = 0.9842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2057090 0.2017058

sample estimates:

cor

-0.002088257

> cor.test(test$TimeSinceB, test$SiteIndexPrimaryS) # r is 0.060

Pearson's product-moment correlation

data: test$TimeSinceB and test$SiteIndexPrimaryS

t = -0.049636, df = 91, p-value = 0.9605

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2086903 0.1987157

sample estimates:

cor

-0.005203193

> cor.test(test$TimeSinceB, test$PISoils) # r is -0.171

Pearson's product-moment correlation

data: test$TimeSinceB and test$PISoils

t = -1.3624, df = 99, p-value = 0.1762

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32255132 0.06140309

sample estimates:

cor

-0.1356642

> cor.test(test$TimeSinceB, test$SISoils) # r is 0.041

Pearson's product-moment correlation

data: test$TimeSinceB and test$SISoils

t = 0.61249, df = 99, p-value = 0.5416

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1356265 0.2538326

sample estimates:

cor

0.06144133

> cor.test(test$TimeSinceB, test$HydricSoils) # r is 0.098

Pearson's product-moment correlation

data: test$TimeSinceB and test$HydricSoils

t = 0.26905, df = 99, p-value = 0.7885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1693031 0.2213007

sample estimates:

cor

0.02703056

> #TimeSinceT by each

> #cor.test(test$TimeSinceT, test$Treatment) #non-numeric

> cor.test(test$TimeSinceT, test$Herbicide) # r is -0.064

Pearson's product-moment correlation

data: test$TimeSinceT and test$Herbicide

t = -1.0373, df = 99, p-value = 0.3021

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29318500 0.09365005

sample estimates:

cor

-0.103687

> cor.test(test$TimeSinceT, test$LastB) # r is 0.191

Pearson's product-moment correlation

data: test$TimeSinceT and test$LastB

t = 2.1177, df = 77, p-value = 0.03743

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01422632 0.43323624

sample estimates:

cor

0.2345988

> cor.test(test$TimeSinceT, test$LastT) #r is -1 #duh

Pearson's product-moment correlation

data: test$TimeSinceT and test$LastT

t = -66.292, df = 94, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.9929772 -0.9842361

sample estimates:

cor

-0.9894737

> cor.test(test$TimeSinceT, test$BA) #r is 0.210

Pearson's product-moment correlation

data: test$TimeSinceT and test$BA

t = 1.8146, df = 99, p-value = 0.07262

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0166109 0.3621516

sample estimates:

cor

0.1794108

> cor.test(test$TimeSinceT, test$Nsnags) #r is 0.164

Pearson's product-moment correlation

data: test$TimeSinceT and test$Nsnags

t = 1.723, df = 99, p-value = 0.088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0256619 0.3542585

sample estimates:

cor

0.1706332

> cor.test(test$TimeSinceT, test$Ccover) #r is 0.199 0.343

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ccover

t = 2.6927, df = 99, p-value = 0.008325

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06932572 0.43448293

sample estimates:

cor

0.2612257

> cor.test(test$TimeSinceT, test$Ldepth) #r is 0.152

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ldepth

t = 1.6702, df = 99, p-value = 0.09804

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03089561 0.34966942

sample estimates:

cor

0.1655432

> cor.test(test$TimeSinceT, test$TreeHt) #r is 0.083

Pearson's product-moment correlation

data: test$TimeSinceT and test$TreeHt

t = 0.54347, df = 99, p-value = 0.588

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1424178 0.2473423

sample estimates:

cor

0.0545395

> cor.test(test$TimeSinceT, test$Age) #r is 0.157

Pearson's product-moment correlation

data: test$TimeSinceT and test$Age

t = 1.8165, df = 99, p-value = 0.07232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01641939 0.36231804

sample estimates:

cor

0.1795962

> cor.test(test$TimeSinceT, test$Nburns) #r is -0.001

Pearson's product-moment correlation

data: test$TimeSinceT and test$Nburns

t = 0.057285, df = 99, p-value = 0.9544

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1898956 0.2009704

sample estimates:

cor

0.005757301

> cor.test(test$TimeSinceT, test$Nthins) #r is -0.189

Pearson's product-moment correlation

data: test$TimeSinceT and test$Nthins

t = -2.0392, df = 99, p-value = 0.04409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381253965 -0.005553486

sample estimates:

cor

-0.2007748

> cor.test(test$TimeSinceT, test$TimeSinceB) #r is 0.220

Pearson's product-moment correlation

data: test$TimeSinceT and test$TimeSinceB

t = 2.3303, df = 99, p-value = 0.02182

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0341178 0.4054079

sample estimates:

cor

0.2280365

> #cor.test(test$TimeSinceT, test$TimeSinceT) #r is

> cor.test(test$TimeSinceT, test$HWdens\_10) #r is -0.115

Pearson's product-moment correlation

data: test$TimeSinceT and test$HWdens\_10

t = -0.91197, df = 99, p-value = 0.364

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2816879 0.1060576

sample estimates:

cor

-0.09127353

> cor.test(test$TimeSinceT, test$HWdens\_50) #r is 0.053

Pearson's product-moment correlation

data: test$TimeSinceT and test$HWdens\_50

t = 0.11102, df = 99, p-value = 0.9118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1846845 0.2061472

sample estimates:

cor

0.01115747

> cor.test(test$TimeSinceT, test$HWdens\_100) #r is -0.084

Pearson's product-moment correlation

data: test$TimeSinceT and test$HWdens\_100

t = -1.0629, df = 99, p-value = 0.2904

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29552398 0.09111104

sample estimates:

cor

-0.1062196

> cor.test(test$TimeSinceT, test$FG\_herb) #r is -0.156

Pearson's product-moment correlation

data: test$TimeSinceT and test$FG\_herb

t = -1.9483, df = 99, p-value = 0.05421

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373572314 0.003404103

sample estimates:

cor

-0.192163

> cor.test(test$TimeSinceT, test$FG\_shrub) #r is -0.161

Pearson's product-moment correlation

data: test$TimeSinceT and test$FG\_shrub

t = -1.9707, df = 99, p-value = 0.05155

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.375471088 0.001195553

sample estimates:

cor

-0.1942891

> cor.test(test$TimeSinceT, test$NHW\_saplings) #r is -0.031

Pearson's product-moment correlation

data: test$TimeSinceT and test$NHW\_saplings

t = -0.38786, df = 99, p-value = 0.699

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2326200 0.1576881

sample estimates:

cor

-0.0389516

> cor.test(test$TimeSinceT, test$NP\_over\_20cm) #r is -0.029

Pearson's product-moment correlation

data: test$TimeSinceT and test$NP\_over\_20cm

t = -0.54413, df = 99, p-value = 0.5876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474042 0.1423532

sample estimates:

cor

-0.05460526

> cor.test(test$TimeSinceT, test$Rel\_HW2P\_canopy) #r is 0.164

Pearson's product-moment correlation

data: test$TimeSinceT and test$Rel\_HW2P\_canopy

t = 1.3648, df = 99, p-value = 0.1754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0611731 0.3227581

sample estimates:

cor

0.1358908

> cor.test(test$TimeSinceT, test$Rel\_HW2P\_shrubcover) #r is 0.041

Pearson's product-moment correlation

data: test$TimeSinceT and test$Rel\_HW2P\_shrubcover

t = 0.75046, df = 99, p-value = 0.4548

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1220222 0.2667292

sample estimates:

cor

0.07521066

> cor.test(test$TimeSinceT, test$LCR) #r is 0.137

Pearson's product-moment correlation

data: test$TimeSinceT and test$LCR

t = 0.047732, df = 98, p-value = 0.962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1917782 0.2010493

sample estimates:

cor

0.004821572

> cor.test(test$TimeSinceT, test$HW\_dens\_1050) #r is -0.038

Pearson's product-moment correlation

data: test$TimeSinceT and test$HW\_dens\_1050

t = -0.41801, df = 99, p-value = 0.6768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2354821 0.1547340

sample estimates:

cor

-0.04197466

> cor.test(test$TimeSinceT, test$HW\_shrub) #r is -0.081

Pearson's product-moment correlation

data: test$TimeSinceT and test$HW\_shrub

t = -0.84279, df = 99, p-value = 0.4014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2752995 0.1129002

sample estimates:

cor

-0.08440138

> cor.test(test$TimeSinceT, test$Parea) #r is -0.071

Pearson's product-moment correlation

data: test$TimeSinceT and test$Parea

t = -0.62241, df = 99, p-value = 0.5351

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2547634 0.1346495

sample estimates:

cor

-0.06243272

> cor.test(test$TimeSinceT, test$ShapeIndex) #r is -0.066

Pearson's product-moment correlation

data: test$TimeSinceT and test$ShapeIndex

t = -0.54551, df = 99, p-value = 0.5866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2475344 0.1422173

sample estimates:

cor

-0.05474352

> cor.test(test$TimeSinceT, test$PAratio) #r is 0.105

Pearson's product-moment correlation

data: test$TimeSinceT and test$PAratio

t = 1.0271, df = 99, p-value = 0.3069

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09465727 0.29225585

sample estimates:

cor

0.1026816

> cor.test(test$TimeSinceT, test$FracDimIndex) #r is -0.016

Pearson's product-moment correlation

data: test$TimeSinceT and test$FracDimIndex

t = -0.079212, df = 99, p-value = 0.937

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2030842 0.1877705

sample estimates:

cor

-0.007960871

> cor.test(test$TimeSinceT, test$CoreAreaIndex) #r is -0.065

Pearson's product-moment correlation

data: test$TimeSinceT and test$CoreAreaIndex

t = -0.60584, df = 99, p-value = 0.546

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2532082 0.1362815

sample estimates:

cor

-0.06077657

> cor.test(test$TimeSinceT, test$Ag500m) #r is 0.348

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ag500m

t = 3.4973, df = 99, p-value = 0.0007055

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1455964 0.4949619

sample estimates:

cor

0.3315999

> cor.test(test$TimeSinceT, test$Ag1km) #r is 0.058

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ag1km

t = 0.41194, df = 99, p-value = 0.6813

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1553285 0.2349067

sample estimates:

cor

0.04136653

> cor.test(test$TimeSinceT, test$Ag5km) #r is -0.173

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ag5km

t = -1.7309, df = 99, p-value = 0.08658

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35493945 0.02488345

sample estimates:

cor

-0.1713893

> cor.test(test$TimeSinceT, test$Ag30km) #r is -0.209

Pearson's product-moment correlation

data: test$TimeSinceT and test$Ag30km

t = -2.0901, df = 99, p-value = 0.03917

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3855268 -0.0105623

sample estimates:

cor

-0.2055772

> cor.test(test$TimeSinceT, test$Evergreen500m) #r is 0.014

Pearson's product-moment correlation

data: test$TimeSinceT and test$Evergreen500m

t = -0.00025553, df = 99, p-value = 0.9998

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1954640 0.1954146

sample estimates:

cor

-2.568178e-05

> cor.test(test$TimeSinceT, test$Evergreen1km) #r is 0.084

Pearson's product-moment correlation

data: test$TimeSinceT and test$Evergreen1km

t = 0.50072, df = 99, p-value = 0.6177

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1466186 0.2433101

sample estimates:

cor

0.05026088

> cor.test(test$TimeSinceT, test$Evergreen5km) #r is 0.207

Pearson's product-moment correlation

data: test$TimeSinceT and test$Evergreen5km

t = 1.8126, df = 99, p-value = 0.07292

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01680342 0.36198429

sample estimates:

cor

0.1792244

> cor.test(test$TimeSinceT, test$Evergreen30km) #r is 0.138

Pearson's product-moment correlation

data: test$TimeSinceT and test$Evergreen30km

t = 1.0593, df = 99, p-value = 0.292

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09146541 0.29519780

sample estimates:

cor

0.1058663

> cor.test(test$TimeSinceT, test$Imperv500m) #r is 0.065

Pearson's product-moment correlation

data: test$TimeSinceT and test$Imperv500m

t = 0.73118, df = 99, p-value = 0.4664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1239256 0.2649332

sample estimates:

cor

0.07328866

> cor.test(test$TimeSinceT, test$Imperv1km) #r is -0.071

Pearson's product-moment correlation

data: test$TimeSinceT and test$Imperv1km

t = -0.65042, df = 99, p-value = 0.5169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2573881 0.1318906

sample estimates:

cor

-0.06523011

> cor.test(test$TimeSinceT, test$Imperv5km) #r is -0.180

Pearson's product-moment correlation

data: test$TimeSinceT and test$Imperv5km

t = -1.9633, df = 99, p-value = 0.05242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.37484008 0.00192992

sample estimates:

cor

-0.1935824

> cor.test(test$TimeSinceT, test$Imperv30km) #r is -0.150

Pearson's product-moment correlation

data: test$TimeSinceT and test$Imperv30km

t = -1.394, df = 99, p-value = 0.1664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32536062 0.05827563

sample estimates:

cor

-0.1387438

> cor.test(test$TimeSinceT, test$Protected30km) #r is 0.313

Pearson's product-moment correlation

data: test$TimeSinceT and test$Protected30km

t = 3.0836, df = 99, p-value = 0.00265

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1067607 0.4645843

sample estimates:

cor

0.2960234

> cor.test(test$TimeSinceT, test$HighDev500m) #r is 0.078

Pearson's product-moment correlation

data: test$TimeSinceT and test$HighDev500m

t = 0.83967, df = 99, p-value = 0.4031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1132089 0.2750105

sample estimates:

cor

0.08409091

> cor.test(test$TimeSinceT, test$HighDev1km) #r is -0.079

Pearson's product-moment correlation

data: test$TimeSinceT and test$HighDev1km

t = -0.75645, df = 99, p-value = 0.4512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2672865 0.1214310

sample estimates:

cor

-0.07580732

> cor.test(test$TimeSinceT, test$HighDev5km) #r is -0.178

Pearson's product-moment correlation

data: test$TimeSinceT and test$HighDev5km

t = -1.9505, df = 99, p-value = 0.05394

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373761216 0.003184546

sample estimates:

cor

-0.1923744

> cor.test(test$TimeSinceT, test$HighDev30km) #r is 0.174

Pearson's product-moment correlation

data: test$TimeSinceT and test$HighDev30km

t = 1.7773, df = 99, p-value = 0.07859

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02029532 0.35894506

sample estimates:

cor

0.1758414

> cor.test(test$TimeSinceT, test$LowDev500m) #r is 0.116

Pearson's product-moment correlation

data: test$TimeSinceT and test$LowDev500m

t = 1.1925, df = 99, p-value = 0.2359

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07825544 0.30729605

sample estimates:

cor

0.1190039

> cor.test(test$TimeSinceT, test$LowDev1km) #r is 0.012

Pearson's product-moment correlation

data: test$TimeSinceT and test$LowDev1km

t = 0.068183, df = 99, p-value = 0.9458

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1888397 0.2020212

sample estimates:

cor

0.006852501

> cor.test(test$TimeSinceT, test$LowDev5km) #r is -0.210

Pearson's product-moment correlation

data: test$TimeSinceT and test$LowDev5km

t = -2.2997, df = 99, p-value = 0.02357

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40289553 -0.03111819

sample estimates:

cor

-0.2251879

> cor.test(test$TimeSinceT, test$LowDev30km) #r is -0.122

Pearson's product-moment correlation

data: test$TimeSinceT and test$LowDev30km

t = -1.2004, df = 99, p-value = 0.2329

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30800380 0.07747844

sample estimates:

cor

-0.1197745

> cor.test(test$TimeSinceT, test$OpenDev500m) #r is 0.019

Pearson's product-moment correlation

data: test$TimeSinceT and test$OpenDev500m

t = 0.18465, df = 99, p-value = 0.8539

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1775282 0.2132209

sample estimates:

cor

0.01855488

> cor.test(test$TimeSinceT, test$OpenDev1km) #r is -0.024

Pearson's product-moment correlation

data: test$TimeSinceT and test$OpenDev1km

t = -0.18999, df = 99, p-value = 0.8497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2137333 0.1770082

sample estimates:

cor

-0.01909156

> cor.test(test$TimeSinceT, test$OpenDev5km) #r is -0.202

Pearson's product-moment correlation

data: test$TimeSinceT and test$OpenDev5km

t = -2.0098, df = 99, p-value = 0.04717

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.378780154 -0.002662173

sample estimates:

cor

-0.1979984

> cor.test(test$TimeSinceT, test$OpenDev30km) #r is -0.131

Pearson's product-moment correlation

data: test$TimeSinceT and test$OpenDev30km

t = -1.3173, df = 99, p-value = 0.1908

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31851801 0.06588004

sample estimates:

cor

-0.1312491

> cor.test(test$TimeSinceT, test$Grass500m) #r is -0.153

Pearson's product-moment correlation

data: test$TimeSinceT and test$Grass500m

t = -1.2833, df = 99, p-value = 0.2024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31546894 0.06925425

sample estimates:

cor

-0.1279164

> cor.test(test$TimeSinceT, test$Grass1km) #r is 0.058

Pearson's product-moment correlation

data: test$TimeSinceT and test$Grass1km

t = 0.9881, df = 99, p-value = 0.3255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09852073 0.28868505

sample estimates:

cor

0.09882132

> cor.test(test$TimeSinceT, test$Grass5km) #r is -0.150

Pearson's product-moment correlation

data: test$TimeSinceT and test$Grass5km

t = -1.2418, df = 99, p-value = 0.2172

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31173868 0.07337035

sample estimates:

cor

-0.1238448

> cor.test(test$TimeSinceT, test$Grass30km) #r is -0.320

Pearson's product-moment correlation

data: test$TimeSinceT and test$Grass30km

t = -2.7592, df = 99, p-value = 0.006903

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43970280 -0.07574443

sample estimates:

cor

-0.2672278

> cor.test(test$TimeSinceT, test$Schrubs500m) #r is -0.091

Pearson's product-moment correlation

data: test$TimeSinceT and test$Schrubs500m

t = -0.74142, df = 99, p-value = 0.4602

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2658871 0.1229151

sample estimates:

cor

-0.07430926

> cor.test(test$TimeSinceT, test$Schrubs1km) #r is -0.062

Pearson's product-moment correlation

data: test$TimeSinceT and test$Schrubs1km

t = -0.343, df = 99, p-value = 0.7323

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2283538 0.1620785

sample estimates:

cor

-0.03445208

> cor.test(test$TimeSinceT, test$Schrubs5km) #r is 0.106

Pearson's product-moment correlation

data: test$TimeSinceT and test$Schrubs5km

t = 1.1897, df = 99, p-value = 0.237

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07853452 0.30704174

sample estimates:

cor

0.1187271

> cor.test(test$TimeSinceT, test$Schrubs30km) #r is 0.171

Pearson's product-moment correlation

data: test$TimeSinceT and test$Schrubs30km

t = 1.4181, df = 99, p-value = 0.1593

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05588429 0.32750413

sample estimates:

cor

0.141096

> cor.test(test$TimeSinceT, test$Water500m) #r is -0.175

Pearson's product-moment correlation

data: test$TimeSinceT and test$Water500m

t = -1.6199, df = 99, p-value = 0.1084

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34528762 0.03587358

sample estimates:

cor

-0.1606923

> cor.test(test$TimeSinceT, test$Water1km) #r is -0.184

Pearson's product-moment correlation

data: test$TimeSinceT and test$Water1km

t = -1.635, df = 99, p-value = 0.1052

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34660784 0.03437572

sample estimates:

cor

-0.1621529

> cor.test(test$TimeSinceT, test$Water5km) #r is -0.114

Pearson's product-moment correlation

data: test$TimeSinceT and test$Water5km

t = -0.97278, df = 99, p-value = 0.333

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2872799 0.1000379

sample estimates:

cor

-0.09730378

> cor.test(test$TimeSinceT, test$Water30km) #r is 0.443

Pearson's product-moment correlation

data: test$TimeSinceT and test$Water30km

t = 4.7724, df = 99, p-value = 6.29e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2589174 0.5789754

sample estimates:

cor

0.4324724

> cor.test(test$TimeSinceT, test$NSoilTypes) #r is 0.140

Pearson's product-moment correlation

data: test$TimeSinceT and test$NSoilTypes

t = 1.6964, df = 99, p-value = 0.09294

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02829473 0.35195222

sample estimates:

cor

0.168074

> cor.test(test$TimeSinceT, test$FPSiteIndex) # r is 0.105

Pearson's product-moment correlation

data: test$TimeSinceT and test$FPSiteIndex

t = 0.73841, df = 91, p-value = 0.4622

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1285536 0.2765365

sample estimates:

cor

0.07717573

> cor.test(test$TimeSinceT, test$SiteIndexPrimaryS) # r is 0.066

Pearson's product-moment correlation

data: test$TimeSinceT and test$SiteIndexPrimaryS

t = 0.44881, df = 91, p-value = 0.6546

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1582271 0.2483269

sample estimates:

cor

0.04699595

> cor.test(test$TimeSinceT, test$PISoils) # r is 0.156

Pearson's product-moment correlation

data: test$TimeSinceT and test$PISoils

t = 1.4461, df = 99, p-value = 0.1513

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05309976 0.32999511

sample estimates:

cor

0.1438322

> cor.test(test$TimeSinceT, test$SISoils) # r is -0.216

Pearson's product-moment correlation

data: test$TimeSinceT and test$SISoils

t = -2.2803, df = 99, p-value = 0.02473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40130585 -0.02922364

sample estimates:

cor

-0.223387

> cor.test(test$TimeSinceT, test$HydricSoils) # r is -0.048

Pearson's product-moment correlation

data: test$TimeSinceT and test$HydricSoils

t = -0.35061, df = 99, p-value = 0.7266

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2290782 0.1613341

sample estimates:

cor

-0.03521553

> #HWdens\_10 by each

> #cor.test(test$HWdens\_10, test$Treatment) #non-numeric

> cor.test(test$HWdens\_10, test$Herbicide) # r is -0.137

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Herbicide

t = -1.6741, df = 99, p-value = 0.09727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35000813 0.03051003

sample estimates:

cor

-0.1659186

> cor.test(test$HWdens\_10, test$LastB) # r is -0.127

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LastB

t = -0.81382, df = 77, p-value = 0.4183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3071847 0.1314478

sample estimates:

cor

-0.09234659

> cor.test(test$HWdens\_10, test$LastT) #r is 0.037

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LastT

t = 0.13676, df = 94, p-value = 0.8915

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1869097 0.2139856

sample estimates:

cor

0.01410481

> cor.test(test$HWdens\_10, test$BA) #r is -0.462 #high-ISH - close to 0.5

Pearson's product-moment correlation

data: test$HWdens\_10 and test$BA

t = -5.0383, df = 99, p-value = 2.117e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5946876 -0.2811358

sample estimates:

cor

-0.4517535

> cor.test(test$HWdens\_10, test$Nsnags) #r is -0.282 #-.325

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Nsnags

t = -3.101, df = 99, p-value = 0.002512

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4658946 -0.1084136

sample estimates:

cor

-0.2975483

> cor.test(test$HWdens\_10, test$Ccover) #r is -0.385 #higher -0.507

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ccover

t = -4.6483, df = 99, p-value = 1.034e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5714301 -0.2483666

sample estimates:

cor

-0.4232606

> cor.test(test$HWdens\_10, test$Ldepth) #r is -0.105 #-0.324

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ldepth

t = -1.7544, df = 99, p-value = 0.08246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35696953 0.02256015

sample estimates:

cor

-0.1736447

> cor.test(test$HWdens\_10, test$TreeHt) #r is 0.128

Pearson's product-moment correlation

data: test$HWdens\_10 and test$TreeHt

t = 0.86005, df = 99, p-value = 0.3918

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1111934 0.2768962

sample estimates:

cor

0.08611728

> cor.test(test$HWdens\_10, test$Age) #r is 0.250

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Age

t = 2.4564, df = 99, p-value = 0.01578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04641171 0.41564638

sample estimates:

cor

0.2396769

> cor.test(test$HWdens\_10, test$Nburns) #r is 0.306 #higher 0.447

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Nburns

t = 3.9171, df = 99, p-value = 0.0001649

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1840599 0.5242295

sample estimates:

cor

0.3663217

> cor.test(test$HWdens\_10, test$Nthins) #r is 0.323 #less now

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Nthins

t = 2.8374, df = 99, p-value = 0.005518

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08325712 0.44578124

sample estimates:

cor

0.2742341

> cor.test(test$HWdens\_10, test$TimeSinceB) #r is -0.296

Pearson's product-moment correlation

data: test$HWdens\_10 and test$TimeSinceB

t = -2.7242, df = 99, p-value = 0.007622

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4369574 -0.0723647

sample estimates:

cor

-0.2640693

> cor.test(test$HWdens\_10, test$TimeSinceT) #r is -0.115

Pearson's product-moment correlation

data: test$HWdens\_10 and test$TimeSinceT

t = -0.91197, df = 99, p-value = 0.364

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2816879 0.1060576

sample estimates:

cor

-0.09127353

> #cor.test(test$HWdens\_10, test$HWdens\_10) #r is

> cor.test(test$HWdens\_10, test$HWdens\_50) #r is 0.670 #higher now, duh

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HWdens\_50

t = 10.689, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6260744 0.8113292

sample estimates:

cor

0.7319524

> cor.test(test$HWdens\_10, test$HWdens\_100) #r is 0.428 #slightly less so, but still high

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HWdens\_100

t = 5.7527, df = 99, p-value = 9.815e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3381713 0.6339535

sample estimates:

cor

0.5005295

> cor.test(test$HWdens\_10, test$FG\_herb) #r is 0.343 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_10 and test$FG\_herb

t = 3.4173, df = 99, p-value = 0.0009191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1381580 0.4892089

sample estimates:

cor

0.3248265

> cor.test(test$HWdens\_10, test$FG\_shrub) #r is -0.271

Pearson's product-moment correlation

data: test$HWdens\_10 and test$FG\_shrub

t = 0.08241, df = 99, p-value = 0.9345

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1874605 0.2033923

sample estimates:

cor

0.008282214

> cor.test(test$HWdens\_10, test$NHW\_saplings) #r is 0.189 0.420

Pearson's product-moment correlation

data: test$HWdens\_10 and test$NHW\_saplings

t = 3.0624, df = 99, p-value = 0.002827

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1047503 0.4629885

sample estimates:

cor

0.2941673

> cor.test(test$HWdens\_10, test$NP\_over\_20cm) #r is -0.278

Pearson's product-moment correlation

data: test$HWdens\_10 and test$NP\_over\_20cm

t = -2.7437, df = 99, p-value = 0.007213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43848848 -0.07424853

sample estimates:

cor

-0.2658303

> cor.test(test$HWdens\_10, test$Rel\_HW2P\_canopy) #r is 0.046

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Rel\_HW2P\_canopy

t = 0.099176, df = 99, p-value = 0.9212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1858342 0.2050070

sample estimates:

cor

0.009967042

> cor.test(test$HWdens\_10, test$Rel\_HW2P\_shrubcover) #r is 0.327 #high-ISH; good! should be

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Rel\_HW2P\_shrubcover

t = 3.1197, df = 99, p-value = 0.002372

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1101859 0.4672978

sample estimates:

cor

0.2991824

> cor.test(test$HWdens\_10, test$LCR) #r is -0.125

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LCR

t = 1.1732, df = 98, p-value = 0.2436

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08059364 0.30700879

sample estimates:

cor

0.1176875

> cor.test(test$HWdens\_10, test$HW\_dens\_1050) #r is 0.921 0.942

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HW\_dens\_1050

t = 24.632, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8937250 0.9504202

sample estimates:

cor

0.9272096

> cor.test(test$HWdens\_10, test$HW\_shrub) #r is 0.382 0.457

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HW\_shrub

t = 4.4441, df = 99, p-value = 2.305e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2307747 0.5587268

sample estimates:

cor

0.4078203

> cor.test(test$HWdens\_10, test$Parea) #r is -0.017

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Parea

t = -0.13846, df = 99, p-value = 0.8902

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2087857 0.1820200

sample estimates:

cor

-0.01391425

> cor.test(test$HWdens\_10, test$ShapeIndex) #r is 0.168

Pearson's product-moment correlation

data: test$HWdens\_10 and test$ShapeIndex

t = 2.047, df = 99, p-value = 0.04331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.006321106 0.381909838

sample estimates:

cor

0.2015114

> cor.test(test$HWdens\_10, test$PAratio) #r is -0.045

Pearson's product-moment correlation

data: test$HWdens\_10 and test$PAratio

t = -0.60899, df = 99, p-value = 0.5439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2535043 0.1359709

sample estimates:

cor

-0.06109183

> cor.test(test$HWdens\_10, test$FracDimIndex) #r is 0.149

Pearson's product-moment correlation

data: test$HWdens\_10 and test$FracDimIndex

t = 1.8148, df = 99, p-value = 0.07259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01658854 0.36217105

sample estimates:

cor

0.1794325

> cor.test(test$HWdens\_10, test$CoreAreaIndex) #r is -0.048

Pearson's product-moment correlation

data: test$HWdens\_10 and test$CoreAreaIndex

t = -0.21545, df = 99, p-value = 0.8299

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2161727 0.1745296

sample estimates:

cor

-0.02164808

> cor.test(test$HWdens\_10, test$Ag500m) #r is -0.295

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ag500m

t = -2.9819, df = 99, p-value = 0.003606

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45688397 -0.09708679

sample estimates:

cor

-0.2870789

> cor.test(test$HWdens\_10, test$Ag1km) #r is -0.291

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ag1km

t = -3.0014, df = 99, p-value = 0.003401

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45836898 -0.09894714

sample estimates:

cor

-0.2888015

> cor.test(test$HWdens\_10, test$Ag5km) #r is -0.266 -0.387

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ag5km

t = -3.4133, df = 99, p-value = 0.0009313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4889195 -0.1377850

sample estimates:

cor

-0.3244863

> cor.test(test$HWdens\_10, test$Ag30km) #r is -0.430

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Ag30km

t = -4.8441, df = 99, p-value = 4.704e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5832731 -0.2649612

sample estimates:

cor

-0.437733

> cor.test(test$HWdens\_10, test$Evergreen500m) #r is 0.330

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Evergreen500m

t = 2.7597, df = 99, p-value = 0.006894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0757877 0.4397379

sample estimates:

cor

0.2672682

> cor.test(test$HWdens\_10, test$Evergreen1km) #r is 0.356

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Evergreen1km

t = 2.9605, df = 99, p-value = 0.003844

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09503991 0.45524773

sample estimates:

cor

0.285182

> cor.test(test$HWdens\_10, test$Evergreen5km) #r is 0.432

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Evergreen5km

t = 4.8403, df = 99, p-value = 4.778e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2646376 0.5830434

sample estimates:

cor

0.4374516

> cor.test(test$HWdens\_10, test$Evergreen30km) #r is 0.228

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Evergreen30km

t = 2.1064, df = 99, p-value = 0.0377

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01216069 0.38688697

sample estimates:

cor

0.2071077

> cor.test(test$HWdens\_10, test$Imperv500m) #r is -0.0355

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Imperv500m

t = -0.40579, df = 99, p-value = 0.6858

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2343229 0.1559313

sample estimates:

cor

-0.04074982

> cor.test(test$HWdens\_10, test$Imperv1km) #r is -0.051

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Imperv1km

t = -0.5939, df = 99, p-value = 0.5539

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2520872 0.1374565

sample estimates:

cor

-0.05958344

> cor.test(test$HWdens\_10, test$Imperv5km) #r is -0.068

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Imperv5km

t = -1.2035, df = 99, p-value = 0.2317

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30828489 0.07716972

sample estimates:

cor

-0.1200806

> cor.test(test$HWdens\_10, test$Imperv30km) #r is -0.076

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Imperv30km

t = 0.57408, df = 99, p-value = 0.5672

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1394077 0.2502233

sample estimates:

cor

0.05760093

> cor.test(test$HWdens\_10, test$Protected30km) #r is 0.315

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Protected30km

t = 3.0834, df = 99, p-value = 0.002652

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1067371 0.4645656

sample estimates:

cor

0.2960016

> cor.test(test$HWdens\_10, test$HighDev500m) #r is -0.081

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HighDev500m

t = -0.55555, df = 99, p-value = 0.5798

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2484803 0.1412297

sample estimates:

cor

-0.05574834

> cor.test(test$HWdens\_10, test$HighDev1km) #r is -0.051

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HighDev1km

t = -0.58768, df = 99, p-value = 0.5581

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2515023 0.1380691

sample estimates:

cor

-0.05896113

> cor.test(test$HWdens\_10, test$HighDev5km) #r is -0.059

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HighDev5km

t = -1.1306, df = 99, p-value = 0.261

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30168207 0.08440218

sample estimates:

cor

-0.1128994

> cor.test(test$HWdens\_10, test$HighDev30km) #r is 0.378

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HighDev30km

t = 4.1708, df = 99, p-value = 6.517e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2067751 0.5411444

sample estimates:

cor

0.3865914

> cor.test(test$HWdens\_10, test$LowDev500m) #r is -0.203

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LowDev500m

t = -2.1614, df = 99, p-value = 0.03307

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39147687 -0.01756868

sample estimates:

cor

-0.2122791

> cor.test(test$HWdens\_10, test$LowDev1km) #r is -0.292

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LowDev1km

t = -2.9962, df = 99, p-value = 0.003455

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45796952 -0.09844646

sample estimates:

cor

-0.288338

> cor.test(test$HWdens\_10, test$LowDev5km) #r is -0.233

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LowDev5km

t = -2.6108, df = 99, p-value = 0.01044

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42800796 -0.06140545

sample estimates:

cor

-0.2537989

> cor.test(test$HWdens\_10, test$LowDev30km) #r is -0.093

Pearson's product-moment correlation

data: test$HWdens\_10 and test$LowDev30km

t = 0.32512, df = 99, p-value = 0.7458

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1638261 0.2266514

sample estimates:

cor

0.03265882

> cor.test(test$HWdens\_10, test$OpenDev500m) #r is -0.236

Pearson's product-moment correlation

data: test$HWdens\_10 and test$OpenDev500m

t = -3.002, df = 99, p-value = 0.003395

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45841211 -0.09900121

sample estimates:

cor

-0.2888516

> cor.test(test$HWdens\_10, test$OpenDev1km) #r is -0.346

Pearson's product-moment correlation

data: test$HWdens\_10 and test$OpenDev1km

t = -3.9371, df = 99, p-value = 0.0001535

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5255836 -0.1858652

sample estimates:

cor

-0.367939

> cor.test(test$HWdens\_10, test$OpenDev5km) #r is -0.392

Pearson's product-moment correlation

data: test$HWdens\_10 and test$OpenDev5km

t = -3.7248, df = 99, p-value = 0.0003251

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5110217 -0.1665723

sample estimates:

cor

-0.350598

> cor.test(test$HWdens\_10, test$OpenDev30km) #r is -0.395

Pearson's product-moment correlation

data: test$HWdens\_10 and test$OpenDev30km

t = -3.1452, df = 99, p-value = 0.002192

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4692040 -0.1125972

sample estimates:

cor

-0.3014038

> cor.test(test$HWdens\_10, test$Grass500m) #r is -0.122

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Grass500m

t = -0.40914, df = 99, p-value = 0.6833

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2346401 0.1556038

sample estimates:

cor

-0.04108493

> cor.test(test$HWdens\_10, test$Grass1km) #r is -0.072

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Grass1km

t = 0.11603, df = 99, p-value = 0.9079

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1841983 0.2066291

sample estimates:

cor

0.01166072

> cor.test(test$HWdens\_10, test$Grass5km) #r is -0.208

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Grass5km

t = -1.986, df = 99, p-value = 0.04979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3767680817 -0.0003151546

sample estimates:

cor

-0.1957424

> cor.test(test$HWdens\_10, test$Grass30km) #r is -0.210

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Grass30km

t = -2.1653, df = 99, p-value = 0.03276

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39180349 -0.01795436

sample estimates:

cor

-0.2126474

> cor.test(test$HWdens\_10, test$Schrubs500m) #r is -0.026

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Schrubs500m

t = 0.2955, df = 99, p-value = 0.7682

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1667204 0.2238268

sample estimates:

cor

0.02968618

> cor.test(test$HWdens\_10, test$Schrubs1km) #r is -0.093

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Schrubs1km

t = -0.13113, df = 99, p-value = 0.8959

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2080808 0.1827324

sample estimates:

cor

-0.01317745

> cor.test(test$HWdens\_10, test$Schrubs5km) #r is -0.064

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Schrubs5km

t = 0.11469, df = 99, p-value = 0.9089

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1843281 0.2065005

sample estimates:

cor

0.01152638

> cor.test(test$HWdens\_10, test$Schrubs30km) #r is 0.303

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Schrubs30km

t = 2.9225, df = 99, p-value = 0.004302

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09141598 0.45234485

sample estimates:

cor

0.2818202

> cor.test(test$HWdens\_10, test$Water500m) #r is 0.278

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Water500m

t = 3.2436, df = 99, p-value = 0.001609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1218884 0.4765183

sample estimates:

cor

0.3099442

> cor.test(test$HWdens\_10, test$Water1km) #r is 0.203

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Water1km

t = 1.8142, df = 99, p-value = 0.07268

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0166460 0.3621211

sample estimates:

cor

0.1793768

> cor.test(test$HWdens\_10, test$Water5km) #r is -0.375

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Water5km

t = -3.1682, df = 99, p-value = 0.00204

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4709247 -0.1147773

sample estimates:

cor

-0.3034105

> cor.test(test$HWdens\_10, test$Water30km) #r is 0.043

Pearson's product-moment correlation

data: test$HWdens\_10 and test$Water30km

t = 0.61908, df = 99, p-value = 0.5373

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1349773 0.2544512

sample estimates:

cor

0.06210016

> cor.test(test$HWdens\_10, test$NSoilTypes) #r is -0.071

Pearson's product-moment correlation

data: test$HWdens\_10 and test$NSoilTypes

t = -0.63456, df = 99, p-value = 0.5272

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2559024 0.1334530

sample estimates:

cor

-0.0636463

> cor.test(test$HWdens\_10, test$FPSiteIndex) # r is 0.332

Pearson's product-moment correlation

data: test$HWdens\_10 and test$FPSiteIndex

t = 2.5791, df = 91, p-value = 0.01151

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06049804 0.44123932

sample estimates:

cor

0.2609899

> cor.test(test$HWdens\_10, test$SiteIndexPrimaryS) # r is 0.228

Pearson's product-moment correlation

data: test$HWdens\_10 and test$SiteIndexPrimaryS

t = 1.6478, df = 91, p-value = 0.1028

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03469081 0.36139710

sample estimates:

cor

0.1702204

> cor.test(test$HWdens\_10, test$PISoils) # r is -0.118

Pearson's product-moment correlation

data: test$HWdens\_10 and test$PISoils

t = -0.8522, df = 99, p-value = 0.3962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2761700 0.1119699

sample estimates:

cor

-0.08533677

> cor.test(test$HWdens\_10, test$SISoils) # r is 0.111

Pearson's product-moment correlation

data: test$HWdens\_10 and test$SISoils

t = 1.2105, df = 99, p-value = 0.229

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07647427 0.30891784

sample estimates:

cor

0.12077

> cor.test(test$HWdens\_10, test$HydricSoils) # r is -0.234

Pearson's product-moment correlation

data: test$HWdens\_10 and test$HydricSoils

t = -2.0089, df = 99, p-value = 0.04727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.378697911 -0.002566159

sample estimates:

cor

-0.1979062

> #HWdens\_50 by each

> #cor.test(test$HWdens\_50, test$Treatment) #non-numeric

> cor.test(test$HWdens\_50, test$Herbicide) # r is -0.041

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Herbicide

t = -1.0926, df = 99, p-value = 0.2772

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29823184 0.08816531

sample estimates:

cor

-0.1091548

> cor.test(test$HWdens\_50, test$LastB) # r is -0.035

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LastB

t = -0.013629, df = 77, p-value = 0.9892

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2225871 0.2196327

sample estimates:

cor

-0.001553121

> cor.test(test$HWdens\_50, test$LastT) #r is -0.094

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LastT

t = -0.75239, df = 94, p-value = 0.4537

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2736126 0.1250549

sample estimates:

cor

-0.07737089

> cor.test(test$HWdens\_50, test$BA) #r is -0.392 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_50 and test$BA

t = -4.5152, df = 99, p-value = 1.748e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5631910 -0.2369325

sample estimates:

cor

-0.4132365

> cor.test(test$HWdens\_50, test$Nsnags) #r is -0.139

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Nsnags

t = -1.6374, df = 99, p-value = 0.1047

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34681539 0.03414009

sample estimates:

cor

-0.1623826

> cor.test(test$HWdens\_50, test$Ccover) #r is -0.344 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ccover

t = -3.8374, df = 99, p-value = 0.0002191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5187944 -0.1768375

sample estimates:

cor

-0.3598403

> cor.test(test$HWdens\_50, test$Ldepth) #r is -0.151

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ldepth

t = -2.2658, df = 99, p-value = 0.02564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40011009 -0.02780031

sample estimates:

cor

-0.2220332

> cor.test(test$HWdens\_50, test$TreeHt) #r is 0.235

Pearson's product-moment correlation

data: test$HWdens\_50 and test$TreeHt

t = -0.13566, df = 99, p-value = 0.8924

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2085165 0.1822922

sample estimates:

cor

-0.01363279

> cor.test(test$HWdens\_50, test$Age) #r is 0.384 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Age

t = 3.131, df = 99, p-value = 0.00229

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1112536 0.4681423

sample estimates:

cor

0.3001663

> cor.test(test$HWdens\_50, test$Nburns) #r is 0.504 #high

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Nburns

t = 5.2249, df = 99, p-value = 9.678e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2964114 0.6053527

sample estimates:

cor

0.4649178

> cor.test(test$HWdens\_50, test$Nthins) #r is 0.331 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Nthins

t = 1.8584, df = 99, p-value = 0.06608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01227906 0.36591019

sample estimates:

cor

0.1836008

> cor.test(test$HWdens\_50, test$TimeSinceB) #r is -0.364 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_50 and test$TimeSinceB

t = -3.2625, df = 99, p-value = 0.001516

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4779076 -0.1236603

sample estimates:

cor

-0.3115695

> cor.test(test$HWdens\_50, test$TimeSinceT) #r is 0.053

Pearson's product-moment correlation

data: test$HWdens\_50 and test$TimeSinceT

t = 0.11102, df = 99, p-value = 0.9118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1846845 0.2061472

sample estimates:

cor

0.01115747

> cor.test(test$HWdens\_50, test$HWdens\_10) #r is 0.670 0.8 #YES - corr with lower level

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HWdens\_10

t = 10.689, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6260744 0.8113292

sample estimates:

cor

0.7319524

> #cor.test(test$HWdens\_50, test$HWdens\_50) #r is

> cor.test(test$HWdens\_50, test$HWdens\_100) #r is 0.705 # YES - corr with highest level

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HWdens\_100

t = 11.543, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6596552 0.8300121

sample estimates:

cor

0.757443

> cor.test(test$HWdens\_50, test$FG\_herb) #r is 0.400 #high

Pearson's product-moment correlation

data: test$HWdens\_50 and test$FG\_herb

t = 4.5803, df = 99, p-value = 1.354e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2425420 0.5672412

sample estimates:

cor

0.4181596

> cor.test(test$HWdens\_50, test$FG\_shrub) #r is -0.265

Pearson's product-moment correlation

data: test$HWdens\_50 and test$FG\_shrub

t = 0.1258, df = 99, p-value = 0.9001

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1832498 0.2075686

sample estimates:

cor

0.01264223

> cor.test(test$HWdens\_50, test$NHW\_saplings) #r is 0.293 #higher 0.501 now

Pearson's product-moment correlation

data: test$HWdens\_50 and test$NHW\_saplings

t = 4.4741, df = 99, p-value = 2.052e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2333729 0.5606127

sample estimates:

cor

0.4101071

> cor.test(test$HWdens\_50, test$NP\_over\_20cm) #r is 0.285

Pearson's product-moment correlation

data: test$HWdens\_50 and test$NP\_over\_20cm

t = -1.5992, df = 99, p-value = 0.113

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34347723 0.03792477

sample estimates:

cor

-0.1586907

> cor.test(test$HWdens\_50, test$Rel\_HW2P\_canopy) #r is -0.003

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Rel\_HW2P\_canopy

t = -0.59771, df = 99, p-value = 0.5514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2524449 0.1370817

sample estimates:

cor

-0.0599641

> cor.test(test$HWdens\_50, test$Rel\_HW2P\_shrubcover) #r is 0.416 #high

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Rel\_HW2P\_shrubcover

t = 4.1439, df = 99, p-value = 7.205e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2043824 0.5393754

sample estimates:

cor

0.3844645

> cor.test(test$HWdens\_50, test$LCR) #r is -0.274

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LCR

t = -0.42895, df = 98, p-value = 0.6689

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2376865 0.1544419

sample estimates:

cor

-0.0432894

> cor.test(test$HWdens\_50, test$HW\_dens\_1050) #r is 0.907 0.959

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HW\_dens\_1050

t = 25.939, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9030024 0.9548663

sample estimates:

cor

0.9336663

> cor.test(test$HWdens\_50, test$HW\_shrub) #r is 0.563 #0.660

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HW\_shrub

t = 7.8029, df = 99, p-value = 6.331e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4794812 0.7250841

sample estimates:

cor

0.617093

> cor.test(test$HWdens\_50, test$Parea) #r is -0.083

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Parea

t = -0.72438, df = 99, p-value = 0.4705

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2642996 0.1245964

sample estimates:

cor

-0.07261101

> cor.test(test$HWdens\_50, test$ShapeIndex) #r is 0.024

Pearson's product-moment correlation

data: test$HWdens\_50 and test$ShapeIndex

t = 0.8002, df = 99, p-value = 0.4255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1171093 0.2713526

sample estimates:

cor

0.08016472

> cor.test(test$HWdens\_50, test$PAratio) #r is -0.023

Pearson's product-moment correlation

data: test$HWdens\_50 and test$PAratio

t = -0.35868, df = 99, p-value = 0.7206

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2298465 0.1605441

sample estimates:

cor

-0.0360255

> cor.test(test$HWdens\_50, test$FracDimIndex) #r is 0.033

Pearson's product-moment correlation

data: test$HWdens\_50 and test$FracDimIndex

t = 0.73688, df = 99, p-value = 0.4629

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1233633 0.2654641

sample estimates:

cor

0.07385664

> cor.test(test$HWdens\_50, test$CoreAreaIndex) #r is -0.082

Pearson's product-moment correlation

data: test$HWdens\_50 and test$CoreAreaIndex

t = -0.58948, df = 99, p-value = 0.5569

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2516714 0.1378920

sample estimates:

cor

-0.05914109

> cor.test(test$HWdens\_50, test$Ag500m) #r is -0.236

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ag500m

t = -3.0531, df = 99, p-value = 0.002909

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4622829 -0.1038623

sample estimates:

cor

-0.293347

> cor.test(test$HWdens\_50, test$Ag1km) #r is -0.323

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ag1km

t = -3.4236, df = 99, p-value = 0.0009002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4896669 -0.1387487

sample estimates:

cor

-0.3253651

> cor.test(test$HWdens\_50, test$Ag5km) #r is -0.284

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ag5km

t = -3.3574, df = 99, p-value = 0.001118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4848604 -0.1325617

sample estimates:

cor

-0.3197178

> cor.test(test$HWdens\_50, test$Ag30km) #r is -0.446

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Ag30km

t = -5.4648, df = 99, p-value = 3.465e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.618635 -0.315659

sample estimates:

cor

-0.4813997

> cor.test(test$HWdens\_50, test$Evergreen500m) #r is 0.250

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Evergreen500m

t = 2.3073, df = 99, p-value = 0.02312

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03186582 0.40352223

sample estimates:

cor

0.2258982

> cor.test(test$HWdens\_50, test$Evergreen1km) #r is 0.344

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Evergreen1km

t = 2.9752, df = 99, p-value = 0.003679

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09644903 0.45637441

sample estimates:

cor

0.286488

> cor.test(test$HWdens\_50, test$Evergreen5km) #r is 0.456

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Evergreen5km

t = 5.268, df = 99, p-value = 8.06e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2999057 0.6077769

sample estimates:

cor

0.4679187

> cor.test(test$HWdens\_50, test$Evergreen30km) #r is 0.287

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Evergreen30km

t = 3.412, df = 99, p-value = 0.0009351

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1376672 0.4888282

sample estimates:

cor

0.3243789

> cor.test(test$HWdens\_50, test$Imperv500m) #r is -0.062

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Imperv500m

t = -0.83888, df = 99, p-value = 0.4036

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2749372 0.1132871

sample estimates:

cor

-0.08401224

> cor.test(test$HWdens\_50, test$Imperv1km) #r is -0.002

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Imperv1km

t = -0.88401, df = 99, p-value = 0.3788

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2791096 0.1088236

sample estimates:

cor

-0.08849783

> cor.test(test$HWdens\_50, test$Imperv5km) #r is -0.221

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Imperv5km

t = -2.3261, df = 99, p-value = 0.02205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4050628 -0.0337054

sample estimates:

cor

-0.2276451

> cor.test(test$HWdens\_50, test$Imperv30km) #r is -0.142

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Imperv30km

t = -0.50616, df = 99, p-value = 0.6139

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2438235 0.1460845

sample estimates:

cor

-0.05080529

> cor.test(test$HWdens\_50, test$Protected30km) #r is 0.323

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Protected30km

t = 3.6256, df = 99, p-value = 0.0004575

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1574658 0.5040789

sample estimates:

cor

0.3423687

> cor.test(test$HWdens\_50, test$HighDev500m) #r is -0.122

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HighDev500m

t = -1.0693, df = 99, p-value = 0.2875

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29610595 0.09047851

sample estimates:

cor

-0.1068502

> cor.test(test$HWdens\_50, test$HighDev1km) #r is -0.001

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HighDev1km

t = -0.82922, df = 99, p-value = 0.409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2740431 0.1142416

sample estimates:

cor

-0.08305199

> cor.test(test$HWdens\_50, test$HighDev5km) #r is -0.212

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HighDev5km

t = -2.2581, df = 99, p-value = 0.02613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39948001 -0.02705092

sample estimates:

cor

-0.2213201

> cor.test(test$HWdens\_50, test$HighDev30km) #r is 0.372

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HighDev30km

t = 3.8275, df = 99, p-value = 0.0002269

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1759358 0.5181139

sample estimates:

cor

0.3590299

> cor.test(test$HWdens\_50, test$LowDev500m) #r is -0.152

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LowDev500m

t = -2.1769, df = 99, p-value = 0.03186

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39276608 -0.01909164

sample estimates:

cor

-0.2137334

> cor.test(test$HWdens\_50, test$LowDev1km) #r is -0.318

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LowDev1km

t = -3.3844, df = 99, p-value = 0.001024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4868234 -0.1350853

sample estimates:

cor

-0.3220228

> cor.test(test$HWdens\_50, test$LowDev5km) #r is -0.325

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LowDev5km

t = -3.3424, df = 99, p-value = 0.001173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4837713 -0.1311637

sample estimates:

cor

-0.3184399

> cor.test(test$HWdens\_50, test$LowDev30km) #r is -0.132

Pearson's product-moment correlation

data: test$HWdens\_50 and test$LowDev30km

t = -0.77151, df = 99, p-value = 0.4422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2686877 0.1199435

sample estimates:

cor

-0.07730801

> cor.test(test$HWdens\_50, test$OpenDev500m) #r is -0.294

Pearson's product-moment correlation

data: test$HWdens\_50 and test$OpenDev500m

t = -3.428, df = 99, p-value = 0.0008873

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4899825 -0.1391560

sample estimates:

cor

-0.3257364

> cor.test(test$HWdens\_50, test$OpenDev1km) #r is -0.410

Pearson's product-moment correlation

data: test$HWdens\_50 and test$OpenDev1km

t = -4.2241, df = 99, p-value = 5.338e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5446268 -0.2114967

sample estimates:

cor

-0.390783

> cor.test(test$HWdens\_50, test$OpenDev5km) #r is -0.438

Pearson's product-moment correlation

data: test$HWdens\_50 and test$OpenDev5km

t = -3.8209, df = 99, p-value = 0.0002322

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5176620 -0.1753374

sample estimates:

cor

-0.3584919

> cor.test(test$HWdens\_50, test$OpenDev30km) #r is -0.466

Pearson's product-moment correlation

data: test$HWdens\_50 and test$OpenDev30km

t = -4.0829, df = 99, p-value = 9.026e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5353494 -0.1989521

sample estimates:

cor

-0.3796302

> cor.test(test$HWdens\_50, test$Grass500m) #r is -0.217

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Grass500m

t = -1.1632, df = 99, p-value = 0.2476

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30463805 0.08116934

sample estimates:

cor

-0.1161119

> cor.test(test$HWdens\_50, test$Grass1km) #r is -0.215

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Grass1km

t = -0.72745, df = 99, p-value = 0.4687

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2645858 0.1242935

sample estimates:

cor

-0.07291709

> cor.test(test$HWdens\_50, test$Grass5km) #r is -0.180

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Grass5km

t = -2.1959, df = 99, p-value = 0.03043

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39433935 -0.02095248

sample estimates:

cor

-0.2155092

> cor.test(test$HWdens\_50, test$Grass30km) #r is -0.276

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Grass30km

t = -2.6029, df = 99, p-value = 0.01066

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42738797 -0.06064948

sample estimates:

cor

-0.2530888

> cor.test(test$HWdens\_50, test$Schrubs500m) #r is 0.195

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Schrubs500m

t = 2.2185, df = 99, p-value = 0.0288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02317155 0.39621261

sample estimates:

cor

0.2176253

> cor.test(test$HWdens\_50, test$Schrubs1km) #r is 0.031

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Schrubs1km

t = 1.0906, df = 99, p-value = 0.2781

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0883611 0.2980521

sample estimates:

cor

0.1089598

> cor.test(test$HWdens\_50, test$Schrubs5km) #r is 0.079

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Schrubs5km

t = 1.6315, df = 99, p-value = 0.106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03472548 0.34629969

sample estimates:

cor

0.161812

> cor.test(test$HWdens\_50, test$Schrubs30km) #r is 0.284

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Schrubs30km

t = 2.7384, df = 99, p-value = 0.007322

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07373981 0.43807522

sample estimates:

cor

0.2653549

> cor.test(test$HWdens\_50, test$Water500m) #r is -0.029

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Water500m

t = 0.23709, df = 99, p-value = 0.8131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1724203 0.2182449

sample estimates:

cor

0.02382173

> cor.test(test$HWdens\_50, test$Water1km) #r is -0.078

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Water1km

t = -0.26201, df = 99, p-value = 0.7939

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2206282 0.1699898

sample estimates:

cor

-0.02632398

> cor.test(test$HWdens\_50, test$Water5km) #r is -0.313

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Water5km

t = -2.4391, df = 99, p-value = 0.0165

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41425357 -0.04473269

sample estimates:

cor

-0.2380904

> cor.test(test$HWdens\_50, test$Water30km) #r is 0.119

Pearson's product-moment correlation

data: test$HWdens\_50 and test$Water30km

t = 1.014, df = 99, p-value = 0.313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09595087 0.29106144

sample estimates:

cor

0.1013897

> cor.test(test$HWdens\_50, test$NSoilTypes) #r is -0.054

Pearson's product-moment correlation

data: test$HWdens\_50 and test$NSoilTypes

t = -0.51619, df = 99, p-value = 0.6069

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2447699 0.1450994

sample estimates:

cor

-0.05180909

> cor.test(test$HWdens\_50, test$FPSiteIndex) # r is 0.286

Pearson's product-moment correlation

data: test$HWdens\_50 and test$FPSiteIndex

t = 1.7715, df = 91, p-value = 0.07982

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02194127 0.37243898

sample estimates:

cor

0.1825831

> cor.test(test$HWdens\_50, test$SiteIndexPrimaryS) # r is 0.221

Pearson's product-moment correlation

data: test$HWdens\_50 and test$SiteIndexPrimaryS

t = 1.2658, df = 91, p-value = 0.2088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07415939 0.32649581

sample estimates:

cor

0.131536

> cor.test(test$HWdens\_50, test$PISoils) # r is -0.027

Pearson's product-moment correlation

data: test$HWdens\_50 and test$PISoils

t = -0.21333, df = 99, p-value = 0.8315

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2159703 0.1747355

sample estimates:

cor

-0.02143578

> cor.test(test$HWdens\_50, test$SISoils) # r is 0.004

Pearson's product-moment correlation

data: test$HWdens\_50 and test$SISoils

t = 0.44594, df = 99, p-value = 0.6566

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1519957 0.2381291

sample estimates:

cor

0.0447736

> cor.test(test$HWdens\_50, test$HydricSoils) # r is -0.245

Pearson's product-moment correlation

data: test$HWdens\_50 and test$HydricSoils

t = -2.2179, df = 99, p-value = 0.02885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39616148 -0.02311094

sample estimates:

cor

-0.2175675

> #HWdens\_100 by each

> #cor.test(test$HWdens\_100, test$Treatment) #non-numeric

> cor.test(test$HWdens\_100, test$Herbicide) # r is -0.135

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Herbicide

t = -1.0581, df = 99, p-value = 0.2926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29508834 0.09158432

sample estimates:

cor

-0.1057477

> cor.test(test$HWdens\_100, test$LastB) # r is -0.029

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LastB

t = -0.71995, df = 77, p-value = 0.4737

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2975031 0.1419044

sample estimates:

cor

-0.08177167

> cor.test(test$HWdens\_100, test$LastT) #r is 0.037

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LastT

t = 0.91746, df = 94, p-value = 0.3613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1083244 0.2892306

sample estimates:

cor

0.09420746

> cor.test(test$HWdens\_100, test$BA) #r is -0.272

Pearson's product-moment correlation

data: test$HWdens\_100 and test$BA

t = -3.2805, df = 99, p-value = 0.001432

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4792315 -0.1253509

sample estimates:

cor

-0.3131192

> cor.test(test$HWdens\_100, test$Nsnags) #r is -0.150

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Nsnags

t = -1.134, df = 99, p-value = 0.2595

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30199688 0.08405827

sample estimates:

cor

-0.1132414

> cor.test(test$HWdens\_100, test$Ccover) #r is -0.196

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ccover

t = -2.0883, df = 99, p-value = 0.03933

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38537917 -0.01038891

sample estimates:

cor

-0.2054111

> cor.test(test$HWdens\_100, test$Ldepth) #r is 0.025

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ldepth

t = -1.134, df = 99, p-value = 0.2595

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3019926 0.0840629

sample estimates:

cor

-0.1132368

> cor.test(test$HWdens\_100, test$TreeHt) #r is 0.229

Pearson's product-moment correlation

data: test$HWdens\_100 and test$TreeHt

t = -0.20486, df = 99, p-value = 0.8381

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151588 0.1755604

sample estimates:

cor

-0.02058517

> cor.test(test$HWdens\_100, test$Age) #r is 0.214

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Age

t = 1.6564, df = 99, p-value = 0.1008

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03226058 0.34846957

sample estimates:

cor

0.164214

> cor.test(test$HWdens\_100, test$Nburns) #r is 0.158

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Nburns

t = 1.2925, df = 99, p-value = 0.1992

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06834348 0.31629273

sample estimates:

cor

0.1288164

> cor.test(test$HWdens\_100, test$Nthins) #r is 0.096

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Nthins

t = 0.22646, df = 99, p-value = 0.8213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1734562 0.2172276

sample estimates:

cor

0.0227544

> cor.test(test$HWdens\_100, test$TimeSinceB) #r is -0.337 #high-ISH

Pearson's product-moment correlation

data: test$HWdens\_100 and test$TimeSinceB

t = -2.849, df = 99, p-value = 0.005335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44668322 -0.08437544

sample estimates:

cor

-0.2752753

> cor.test(test$HWdens\_100, test$TimeSinceT) #r is -0.084

Pearson's product-moment correlation

data: test$HWdens\_100 and test$TimeSinceT

t = -1.0629, df = 99, p-value = 0.2904

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29552398 0.09111104

sample estimates:

cor

-0.1062196

> cor.test(test$HWdens\_100, test$HWdens\_10) #r is 0.428 #high/ish

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HWdens\_10

t = 5.7527, df = 99, p-value = 9.815e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3381713 0.6339535

sample estimates:

cor

0.5005295

> cor.test(test$HWdens\_100, test$HWdens\_50) #r is 0.705 #YES - corr with mid-level

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HWdens\_50

t = 11.543, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6596552 0.8300121

sample estimates:

cor

0.757443

> #cor.test(test$HWdens\_100, test$HWdens\_100) #r is

> cor.test(test$HWdens\_100, test$FG\_herb) #r is 0.267

Pearson's product-moment correlation

data: test$HWdens\_100 and test$FG\_herb

t = 3.0926, df = 99, p-value = 0.002578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1076188 0.4652647

sample estimates:

cor

0.2968151

> cor.test(test$HWdens\_100, test$FG\_shrub) #r is -0.229

Pearson's product-moment correlation

data: test$HWdens\_100 and test$FG\_shrub

t = -0.27022, df = 99, p-value = 0.7876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214130 0.1691885

sample estimates:

cor

-0.0271485

> cor.test(test$HWdens\_100, test$NHW\_saplings) #r is 0.523 #0.7

Pearson's product-moment correlation

data: test$HWdens\_100 and test$NHW\_saplings

t = 7.6734, df = 99, p-value = 1.194e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4715301 0.7201751

sample estimates:

cor

0.6106909

> cor.test(test$HWdens\_100, test$NP\_over\_20cm) #r is -0.218

Pearson's product-moment correlation

data: test$HWdens\_100 and test$NP\_over\_20cm

t = -1.3375, df = 99, p-value = 0.1841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32032682 0.06387418

sample estimates:

cor

-0.1332282

> cor.test(test$HWdens\_100, test$Rel\_HW2P\_canopy) #r is 0.088

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Rel\_HW2P\_canopy

t = 1.1125, df = 99, p-value = 0.2686

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08619799 0.30003684

sample estimates:

cor

0.1111131

> cor.test(test$HWdens\_100, test$Rel\_HW2P\_shrubcover) #r is 0.493 #high - close to 0.5

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Rel\_HW2P\_shrubcover

t = 5.1659, df = 99, p-value = 1.241e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2916141 0.6020152

sample estimates:

cor

0.4607915

> cor.test(test$HWdens\_100, test$LCR) #r is -0.360 #odd?

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LCR

t = -0.48417, df = 98, p-value = 0.6293

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2429368 0.1489981

sample estimates:

cor

-0.04884969

> cor.test(test$HWdens\_100, test$HW\_dens\_1050) #r is 0.615

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HW\_dens\_1050

t = 9.2066, df = 99, p-value = 5.883e-15

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5577521 0.7721121

sample estimates:

cor

0.6791585

> cor.test(test$HWdens\_100, test$HW\_shrub) #r is 0.779 #duh

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HW\_shrub

t = 11.459, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6565322 0.8282906

sample estimates:

cor

0.7550848

> cor.test(test$HWdens\_100, test$Parea) #r is 0.007

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Parea

t = -0.60478, df = 99, p-value = 0.5467

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2531091 0.1363854

sample estimates:

cor

-0.06067106

> cor.test(test$HWdens\_100, test$ShapeIndex) #r is 0.212

Pearson's product-moment correlation

data: test$HWdens\_100 and test$ShapeIndex

t = 1.4245, df = 99, p-value = 0.1575

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0552497 0.3280723

sample estimates:

cor

0.1417198

> cor.test(test$HWdens\_100, test$PAratio) #r is -0.001

Pearson's product-moment correlation

data: test$HWdens\_100 and test$PAratio

t = 0.15721, df = 99, p-value = 0.8754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1801977 0.2105870

sample estimates:

cor

0.01579798

> cor.test(test$HWdens\_100, test$FracDimIndex) #r is 0.192

Pearson's product-moment correlation

data: test$HWdens\_100 and test$FracDimIndex

t = 1.3198, df = 99, p-value = 0.1899

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06563245 0.31874143

sample estimates:

cor

0.1314935

> cor.test(test$HWdens\_100, test$CoreAreaIndex) #r is -0.014

Pearson's product-moment correlation

data: test$HWdens\_100 and test$CoreAreaIndex

t = -0.54133, df = 99, p-value = 0.5895

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2471409 0.1426279

sample estimates:

cor

-0.05432565

> cor.test(test$HWdens\_100, test$Ag500m) #r is -0.121

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ag500m

t = -2.0274, df = 99, p-value = 0.0453

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.380263798 -0.004395455

sample estimates:

cor

-0.1996632

> cor.test(test$HWdens\_100, test$Ag1km) #r is -0.250

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ag1km

t = -2.9169, df = 99, p-value = 0.004374

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45191634 -0.09088183

sample estimates:

cor

-0.2813242

> cor.test(test$HWdens\_100, test$Ag5km) #r is -0.213

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ag5km

t = -2.6164, df = 99, p-value = 0.01028

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42845644 -0.06195255

sample estimates:

cor

-0.2543126

> cor.test(test$HWdens\_100, test$Ag30km) #r is -0.398

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Ag30km

t = -5.6657, df = 99, p-value = 1.441e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6293988 -0.3314420

sample estimates:

cor

-0.4948279

> cor.test(test$HWdens\_100, test$Evergreen500m) #r is 0.142

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Evergreen500m

t = 1.1116, df = 99, p-value = 0.269

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08628127 0.29996049

sample estimates:

cor

0.1110303

> cor.test(test$HWdens\_100, test$Evergreen1km) #r is 0.164

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Evergreen1km

t = 1.5598, df = 99, p-value = 0.122

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04183532 0.34001790

sample estimates:

cor

0.1548702

> cor.test(test$HWdens\_100, test$Evergreen5km) #r is 0.341

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Evergreen5km

t = 4.1967, df = 99, p-value = 5.916e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2090723 0.5428401

sample estimates:

cor

0.3886317

> cor.test(test$HWdens\_100, test$Evergreen30km) #r is 0.236

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Evergreen30km

t = 2.7809, df = 99, p-value = 0.006491

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07782574 0.44139011

sample estimates:

cor

0.2691709

> cor.test(test$HWdens\_100, test$Imperv500m) #r is -0.114

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Imperv500m

t = -0.82046, df = 99, p-value = 0.4139

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2732308 0.1151081

sample estimates:

cor

-0.08217998

> cor.test(test$HWdens\_100, test$Imperv1km) #r is -0.106

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Imperv1km

t = -1.4821, df = 99, p-value = 0.1415

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33317822 0.04953285

sample estimates:

cor

-0.1473327

> cor.test(test$HWdens\_100, test$Imperv5km) #r is -0.286

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Imperv5km

t = -2.3335, df = 99, p-value = 0.02164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40566570 -0.03442603

sample estimates:

cor

-0.2283291

> cor.test(test$HWdens\_100, test$Imperv30km) #r is -0.080

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Imperv30km

t = -0.86253, df = 99, p-value = 0.3905

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2771250 0.1109487

sample estimates:

cor

-0.08636323

> cor.test(test$HWdens\_100, test$Protected30km) #r is 0.319

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Protected30km

t = 4.3114, df = 99, p-value = 3.837e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2191876 0.5502746

sample estimates:

cor

0.3975947

> cor.test(test$HWdens\_100, test$HighDev500m) #r is -0.058

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HighDev500m

t = -0.48247, df = 99, p-value = 0.6305

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2415852 0.1484113

sample estimates:

cor

-0.04843274

> cor.test(test$HWdens\_100, test$HighDev1km) #r is -0.113

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HighDev1km

t = -1.503, df = 99, p-value = 0.136

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33502353 0.04746056

sample estimates:

cor

-0.1493642

> cor.test(test$HWdens\_100, test$HighDev5km) #r is -0.280

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HighDev5km

t = -2.2635, df = 99, p-value = 0.02579

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39992295 -0.02757769

sample estimates:

cor

-0.2218214

> cor.test(test$HWdens\_100, test$HighDev30km) #r is 0.261

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HighDev30km

t = 3.562, df = 99, p-value = 0.0005678

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1515941 0.4995784

sample estimates:

cor

0.3370475

> cor.test(test$HWdens\_100, test$LowDev500m) #r is 0.007

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LowDev500m

t = -0.71454, df = 99, p-value = 0.4766

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2633820 0.1255673

sample estimates:

cor

-0.07162985

> cor.test(test$HWdens\_100, test$LowDev1km) #r is -0.179

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LowDev1km

t = -2.0926, df = 99, p-value = 0.03894

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38573409 -0.01080576

sample estimates:

cor

-0.2058104

> cor.test(test$HWdens\_100, test$LowDev5km) #r is -0.298

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LowDev5km

t = -2.9269, df = 99, p-value = 0.004247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45267695 -0.09183008

sample estimates:

cor

-0.2822046

> cor.test(test$HWdens\_100, test$LowDev30km) #r is -0.069

Pearson's product-moment correlation

data: test$HWdens\_100 and test$LowDev30km

t = -0.95536, df = 99, p-value = 0.3417

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2856808 0.1017622

sample estimates:

cor

-0.09557791

> cor.test(test$HWdens\_100, test$OpenDev500m) #r is -0.279

Pearson's product-moment correlation

data: test$HWdens\_100 and test$OpenDev500m

t = -2.6016, df = 99, p-value = 0.0107

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42728362 -0.06052228

sample estimates:

cor

-0.2529693

> cor.test(test$HWdens\_100, test$OpenDev1km) #r is -0.386

Pearson's product-moment correlation

data: test$HWdens\_100 and test$OpenDev1km

t = -3.619, df = 99, p-value = 0.0004681

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5036082 -0.1568506

sample estimates:

cor

-0.3418117

> cor.test(test$HWdens\_100, test$OpenDev5km) #r is -0.398

Pearson's product-moment correlation

data: test$HWdens\_100 and test$OpenDev5km

t = -4.0753, df = 99, p-value = 9.285e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5348403 -0.1982669

sample estimates:

cor

-0.3790195

> cor.test(test$HWdens\_100, test$OpenDev30km) #r is -0.357 .4

Pearson's product-moment correlation

data: test$HWdens\_100 and test$OpenDev30km

t = -4.5416, df = 99, p-value = 1.576e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5648350 -0.2392069

sample estimates:

cor

-0.4152338

> cor.test(test$HWdens\_100, test$Grass500m) #r is -0.314

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Grass500m

t = -2.4339, df = 99, p-value = 0.01673

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41382908 -0.04422139

sample estimates:

cor

-0.2376071

> cor.test(test$HWdens\_100, test$Grass1km) #r is -0.117

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Grass1km

t = -0.8581, df = 99, p-value = 0.3929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2767155 0.1113867

sample estimates:

cor

-0.08592304

> cor.test(test$HWdens\_100, test$Grass5km) #r is -0.214

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Grass5km

t = -2.7737, df = 99, p-value = 0.006624

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44083441 -0.07713994

sample estimates:

cor

-0.2685308

> cor.test(test$HWdens\_100, test$Grass30km) #r is -0.240

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Grass30km

t = -2.0749, df = 99, p-value = 0.04059

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384254208 -0.009068527

sample estimates:

cor

-0.204146

> cor.test(test$HWdens\_100, test$Schrubs500m) #r is 0.051

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Schrubs500m

t = 0.73834, df = 99, p-value = 0.4621

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1232185 0.2656008

sample estimates:

cor

0.07400291

> cor.test(test$HWdens\_100, test$Schrubs1km) #r is 0.097

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Schrubs1km

t = 1.2628, df = 99, p-value = 0.2096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0712914 0.3136242

sample estimates:

cor

0.1259021

> cor.test(test$HWdens\_100, test$Schrubs5km) #r is 0.146

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Schrubs5km

t = 1.3077, df = 99, p-value = 0.194

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06683527 0.31765563

sample estimates:

cor

0.1303061

> cor.test(test$HWdens\_100, test$Schrubs30km) #r is 0.186

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Schrubs30km

t = 1.6588, df = 99, p-value = 0.1003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03202163 0.34867971

sample estimates:

cor

0.1644468

> cor.test(test$HWdens\_100, test$Water500m) #r is -0.034

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Water500m

t = -0.096144, df = 99, p-value = 0.9236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2047151 0.1861284

sample estimates:

cor

-0.009662392

> cor.test(test$HWdens\_100, test$Water1km) #r is -0.040

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Water1km

t = 0.13346, df = 99, p-value = 0.8941

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1825052 0.2083057

sample estimates:

cor

0.0134125

> cor.test(test$HWdens\_100, test$Water5km) #r is -0.203

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Water5km

t = -1.7513, df = 99, p-value = 0.083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35669986 0.02286901

sample estimates:

cor

-0.173345

> cor.test(test$HWdens\_100, test$Water30km) #r is 0.055

Pearson's product-moment correlation

data: test$HWdens\_100 and test$Water30km

t = 0.55704, df = 99, p-value = 0.5788

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1410838 0.2486200

sample estimates:

cor

0.05589673

> cor.test(test$HWdens\_100, test$NSoilTypes) #r is 0.118

Pearson's product-moment correlation

data: test$HWdens\_100 and test$NSoilTypes

t = 0.25523, df = 99, p-value = 0.7991

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1706516 0.2199797

sample estimates:

cor

0.02564293

> cor.test(test$HWdens\_100, test$FPSiteIndex) # r is 0.056

Pearson's product-moment correlation

data: test$HWdens\_100 and test$FPSiteIndex

t = 0.57816, df = 91, p-value = 0.5646

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1449983 0.2609888

sample estimates:

cor

0.06049687

> cor.test(test$HWdens\_100, test$SiteIndexPrimaryS) # r is -0.029

Pearson's product-moment correlation

data: test$HWdens\_100 and test$SiteIndexPrimaryS

t = -0.055544, df = 91, p-value = 0.9558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2092826 0.1981207

sample estimates:

cor

-0.00582253

> cor.test(test$HWdens\_100, test$PISoils) # r is -0.191

Pearson's product-moment correlation

data: test$HWdens\_100 and test$PISoils

t = -2.3391, df = 99, p-value = 0.02134

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40612098 -0.03497045

sample estimates:

cor

-0.2288456

> cor.test(test$HWdens\_100, test$SISoils) # r is 0.045

Pearson's product-moment correlation

data: test$HWdens\_100 and test$SISoils

t = 1.25, df = 99, p-value = 0.2142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07255342 0.31247998

sample estimates:

cor

0.1246534

> cor.test(test$HWdens\_100, test$HydricSoils) # r is -0.082

Pearson's product-moment correlation

data: test$HWdens\_100 and test$HydricSoils

t = -1.3513, df = 99, p-value = 0.1797

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32155498 0.06251047

sample estimates:

cor

-0.1345729

> #FG\_herb by each

> #cor.test(test$FG\_herb, test$Treatment) #non-numeric

> cor.test(test$FG\_herb, test$Herbicide) # r is 0.221

Pearson's product-moment correlation

data: test$FG\_herb and test$Herbicide

t = 1.5506, df = 99, p-value = 0.1242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04274323 0.33921327

sample estimates:

cor

0.1539824

> cor.test(test$FG\_herb, test$LastB) # r is 0.437 #high - close to 0.5

Pearson's product-moment correlation

data: test$FG\_herb and test$LastB

t = 2.3111, df = 77, p-value = 0.0235

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03558706 0.45043724

sample estimates:

cor

0.2546934

> cor.test(test$FG\_herb, test$LastT) #r is -0.013

Pearson's product-moment correlation

data: test$FG\_herb and test$LastT

t = 0.45325, df = 94, p-value = 0.6514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1552408 0.2448917

sample estimates:

cor

0.04669853

> cor.test(test$FG\_herb, test$BA) #r is -0.391 #high-ISH

Pearson's product-moment correlation

data: test$FG\_herb and test$BA

t = -4.1688, df = 99, p-value = 6.567e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5410102 -0.2065933

sample estimates:

cor

-0.3864299

> cor.test(test$FG\_herb, test$Nsnags) #r is -0.011

Pearson's product-moment correlation

data: test$FG\_herb and test$Nsnags

t = -0.35881, df = 99, p-value = 0.7205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2298585 0.1605318

sample estimates:

cor

-0.03603816

> cor.test(test$FG\_herb, test$Ccover) #r is -0.375 #high-ISH

Pearson's product-moment correlation

data: test$FG\_herb and test$Ccover

t = -3.895, df = 99, p-value = 0.0001785

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5227225 -0.1820537

sample estimates:

cor

-0.3645231

> cor.test(test$FG\_herb, test$Ldepth) #r is -0.510 #high

Pearson's product-moment correlation

data: test$FG\_herb and test$Ldepth

t = -4.1321, df = 99, p-value = 7.528e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5385978 -0.2033320

sample estimates:

cor

-0.3835302

> cor.test(test$FG\_herb, test$TreeHt) #r is -0.156

Pearson's product-moment correlation

data: test$FG\_herb and test$TreeHt

t = -2.0558, df = 99, p-value = 0.04243

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.382650224 -0.007188168

sample estimates:

cor

-0.2023432

> cor.test(test$FG\_herb, test$Age) #r is 0.200

Pearson's product-moment correlation

data: test$FG\_herb and test$Age

t = 1.9912, df = 99, p-value = 0.04921

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0008293492 0.3772091989

sample estimates:

cor

0.1962368

> cor.test(test$FG\_herb, test$Nburns) #r is 0.542 #high

Pearson's product-moment correlation

data: test$FG\_herb and test$Nburns

t = 5.2407, df = 99, p-value = 9.051e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2976939 0.6062432

sample estimates:

cor

0.4660196

> cor.test(test$FG\_herb, test$Nthins) #r is 0.171

Pearson's product-moment correlation

data: test$FG\_herb and test$Nthins

t = 1.9831, df = 99, p-value = 0.05012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

2.794691e-05 3.765216e-01

sample estimates:

cor

0.1954661

> cor.test(test$FG\_herb, test$TimeSinceB) #r is -0.495 #high

Pearson's product-moment correlation

data: test$FG\_herb and test$TimeSinceB

t = -4.8109, df = 99, p-value = 5.384e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5812856 -0.2621631

sample estimates:

cor

-0.435299

> cor.test(test$FG\_herb, test$TimeSinceT) #r is -0.156

Pearson's product-moment correlation

data: test$FG\_herb and test$TimeSinceT

t = -1.9483, df = 99, p-value = 0.05421

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373572314 0.003404103

sample estimates:

cor

-0.192163

> cor.test(test$FG\_herb, test$HWdens\_10) #r is 0.343 #high-ISH

Pearson's product-moment correlation

data: test$FG\_herb and test$HWdens\_10

t = 3.4173, df = 99, p-value = 0.0009191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1381580 0.4892089

sample estimates:

cor

0.3248265

> cor.test(test$FG\_herb, test$HWdens\_50) #r is 0.400 #high-ISH

Pearson's product-moment correlation

data: test$FG\_herb and test$HWdens\_50

t = 4.5803, df = 99, p-value = 1.354e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2425420 0.5672412

sample estimates:

cor

0.4181596

> cor.test(test$FG\_herb, test$HWdens\_100) #r is 0.267

Pearson's product-moment correlation

data: test$FG\_herb and test$HWdens\_100

t = 3.0926, df = 99, p-value = 0.002578

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1076188 0.4652647

sample estimates:

cor

0.2968151

> #cor.test(test$FG\_herb, test$FG\_herb) #r is

> cor.test(test$FG\_herb, test$FG\_shrub) #r is 0.227

Pearson's product-moment correlation

data: test$FG\_herb and test$FG\_shrub

t = 3.4878, df = 99, p-value = 0.0007281

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1447159 0.4942824

sample estimates:

cor

0.3307991

> cor.test(test$FG\_herb, test$NHW\_saplings) #r is -0.065

Pearson's product-moment correlation

data: test$FG\_herb and test$NHW\_saplings

t = -0.021642, df = 99, p-value = 0.9828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1975304 0.1933463

sample estimates:

cor

-0.002175146

> cor.test(test$FG\_herb, test$NP\_over\_20cm) #r is -0.206

Pearson's product-moment correlation

data: test$FG\_herb and test$NP\_over\_20cm

t = -0.8994, df = 99, p-value = 0.3706

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2805294 0.1073013

sample estimates:

cor

-0.09002589

> cor.test(test$FG\_herb, test$Rel\_HW2P\_canopy) #r is -0.268

Pearson's product-moment correlation

data: test$FG\_herb and test$Rel\_HW2P\_canopy

t = -1.9357, df = 99, p-value = 0.05575

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.372504463 0.004644555

sample estimates:

cor

-0.1909681

> cor.test(test$FG\_herb, test$Rel\_HW2P\_shrubcover) #r is 0.128

Pearson's product-moment correlation

data: test$FG\_herb and test$Rel\_HW2P\_shrubcover

t = 0.92158, df = 99, p-value = 0.359

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1051067 0.2825730

sample estimates:

cor

0.09222704

> cor.test(test$FG\_herb, test$LCR) #r is 0.079

Pearson's product-moment correlation

data: test$FG\_herb and test$LCR

t = -1.0714, df = 98, p-value = 0.2866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29772177 0.09074017

sample estimates:

cor

-0.1075956

> cor.test(test$FG\_herb, test$HW\_dens\_1050) #r is 0.406

Pearson's product-moment correlation

data: test$FG\_herb and test$HW\_dens\_1050

t = 4.3062, df = 99, p-value = 3.915e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2187224 0.5499338

sample estimates:

cor

0.3971833

> cor.test(test$FG\_herb, test$HW\_shrub) #r is 0.212

Pearson's product-moment correlation

data: test$FG\_herb and test$HW\_shrub

t = 3.3145, df = 99, p-value = 0.001284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1285449 0.4817284

sample estimates:

cor

0.3160443

> cor.test(test$FG\_herb, test$Parea) #r is 0.210

Pearson's product-moment correlation

data: test$FG\_herb and test$Parea

t = 1.9301, df = 99, p-value = 0.05646

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.005203025 0.372023374

sample estimates:

cor

0.1904299

> cor.test(test$FG\_herb, test$ShapeIndex) #r is 0.031

Pearson's product-moment correlation

data: test$FG\_herb and test$ShapeIndex

t = 0.59141, df = 99, p-value = 0.5556

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1377017 0.2518531

sample estimates:

cor

0.05933435

> cor.test(test$FG\_herb, test$PAratio) #r is -0.147

Pearson's product-moment correlation

data: test$FG\_herb and test$PAratio

t = -1.4711, df = 99, p-value = 0.1444

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33220845 0.05062059

sample estimates:

cor

-0.1462657

> cor.test(test$FG\_herb, test$FracDimIndex) #r is -0.015

Pearson's product-moment correlation

data: test$FG\_herb and test$FracDimIndex

t = 0.04308, df = 99, p-value = 0.9657

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1912714 0.1996000

sample estimates:

cor

0.004329674

> cor.test(test$FG\_herb, test$CoreAreaIndex) #r is 0.129

Pearson's product-moment correlation

data: test$FG\_herb and test$CoreAreaIndex

t = 1.2151, df = 99, p-value = 0.2272

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07601391 0.30933665

sample estimates:

cor

0.1212263

> cor.test(test$FG\_herb, test$Ag500m) #r is -0.242

Pearson's product-moment correlation

data: test$FG\_herb and test$Ag500m

t = -2.8034, df = 99, p-value = 0.006085

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44314766 -0.07999706

sample estimates:

cor

-0.2711963

> cor.test(test$FG\_herb, test$Ag1km) #r is -0.387

Pearson's product-moment correlation

data: test$FG\_herb and test$Ag1km

t = -3.3398, df = 99, p-value = 0.001183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4835821 -0.1309209

sample estimates:

cor

-0.3182179

> cor.test(test$FG\_herb, test$Ag5km) #r is -0.585

Pearson's product-moment correlation

data: test$FG\_herb and test$Ag5km

t = -5.0446, df = 99, p-value = 2.063e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5950497 -0.2816519

sample estimates:

cor

-0.4521995

> cor.test(test$FG\_herb, test$Ag30km) #r is -0.523

Pearson's product-moment correlation

data: test$FG\_herb and test$Ag30km

t = -3.9969, df = 99, p-value = 0.0001236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5296092 -0.1912452

sample estimates:

cor

-0.3727522

> cor.test(test$FG\_herb, test$Evergreen500m) #r is 0.287

Pearson's product-moment correlation

data: test$FG\_herb and test$Evergreen500m

t = 2.1431, df = 99, p-value = 0.03456

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01577117 0.38995333

sample estimates:

cor

0.2105614

> cor.test(test$FG\_herb, test$Evergreen1km) #r is 0.509

Pearson's product-moment correlation

data: test$FG\_herb and test$Evergreen1km

t = 4.2364, df = 99, p-value = 5.098e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2125772 0.5454221

sample estimates:

cor

0.3917412

> cor.test(test$FG\_herb, test$Evergreen5km) #r is 0.601

Pearson's product-moment correlation

data: test$FG\_herb and test$Evergreen5km

t = 5.3197, df = 99, p-value = 6.466e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3040748 0.6106618

sample estimates:

cor

0.471494

> cor.test(test$FG\_herb, test$Evergreen30km) #r is 0.630

Pearson's product-moment correlation

data: test$FG\_herb and test$Evergreen30km

t = 6.4183, df = 99, p-value = 4.786e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3877030 0.6668596

sample estimates:

cor

0.5420684

> cor.test(test$FG\_herb, test$Imperv500m) #r is -0.163

Pearson's product-moment correlation

data: test$FG\_herb and test$Imperv500m

t = -0.2834, df = 99, p-value = 0.7775

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2226719 0.1679019

sample estimates:

cor

-0.02847169

> cor.test(test$FG\_herb, test$Imperv1km) #r is -0.289

Pearson's product-moment correlation

data: test$FG\_herb and test$Imperv1km

t = -1.9753, df = 99, p-value = 0.05102

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3758598790 0.0007428785

sample estimates:

cor

-0.1947247

> cor.test(test$FG\_herb, test$Imperv5km) #r is -0.349

Pearson's product-moment correlation

data: test$FG\_herb and test$Imperv5km

t = -2.446, df = 99, p-value = 0.01621

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41481178 -0.04540536

sample estimates:

cor

-0.2387262

> cor.test(test$FG\_herb, test$Imperv30km) #r is -0.104

Pearson's product-moment correlation

data: test$FG\_herb and test$Imperv30km

t = -0.51869, df = 99, p-value = 0.6051

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2450059 0.1448536

sample estimates:

cor

-0.05205947

> cor.test(test$FG\_herb, test$Protected30km) #r is 0.313

Pearson's product-moment correlation

data: test$FG\_herb and test$Protected30km

t = 2.1154, df = 99, p-value = 0.03691

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01304892 0.38764211

sample estimates:

cor

0.2079578

> cor.test(test$FG\_herb, test$HighDev500m) #r is -0.206

Pearson's product-moment correlation

data: test$FG\_herb and test$HighDev500m

t = -0.99014, df = 99, p-value = 0.3245

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28887235 0.09831837

sample estimates:

cor

-0.09902366

> cor.test(test$FG\_herb, test$HighDev1km) #r is -0.273

Pearson's product-moment correlation

data: test$FG\_herb and test$HighDev1km

t = -1.9011, df = 99, p-value = 0.0602

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.369557315 0.008062051

sample estimates:

cor

-0.1876729

> cor.test(test$FG\_herb, test$HighDev5km) #r is -0.338

Pearson's product-moment correlation

data: test$FG\_herb and test$HighDev5km

t = -2.3496, df = 99, p-value = 0.02078

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40698407 -0.03600315

sample estimates:

cor

-0.2298253

> cor.test(test$FG\_herb, test$HighDev30km) #r is 0.401

Pearson's product-moment correlation

data: test$FG\_herb and test$HighDev30km

t = 3.1009, df = 99, p-value = 0.002514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1083976 0.4658819

sample estimates:

cor

0.2975336

> cor.test(test$FG\_herb, test$LowDev500m) #r is -0.328

Pearson's product-moment correlation

data: test$FG\_herb and test$LowDev500m

t = -3.006, df = 99, p-value = 0.003355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45871340 -0.09937896

sample estimates:

cor

-0.2892012

> cor.test(test$FG\_herb, test$LowDev1km) #r is -0.393

Pearson's product-moment correlation

data: test$FG\_herb and test$LowDev1km

t = -3.2544, df = 99, p-value = 0.001555

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4773134 -0.1229022

sample estimates:

cor

-0.3108743

> cor.test(test$FG\_herb, test$LowDev5km) #r is -0.386

Pearson's product-moment correlation

data: test$FG\_herb and test$LowDev5km

t = -2.8035, df = 99, p-value = 0.006084

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44315366 -0.08000448

sample estimates:

cor

-0.2712032

> cor.test(test$FG\_herb, test$LowDev30km) #r is -0.236

Pearson's product-moment correlation

data: test$FG\_herb and test$LowDev30km

t = -1.5722, df = 99, p-value = 0.1191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34111063 0.04060132

sample estimates:

cor

-0.1560764

> cor.test(test$FG\_herb, test$OpenDev500m) #r is -0.347

Pearson's product-moment correlation

data: test$FG\_herb and test$OpenDev500m

t = -2.8473, df = 99, p-value = 0.005362

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44654648 -0.08420585

sample estimates:

cor

-0.2751175

> cor.test(test$FG\_herb, test$OpenDev1km) #r is -0.397

Pearson's product-moment correlation

data: test$FG\_herb and test$OpenDev1km

t = -3.2471, df = 99, p-value = 0.001592

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4767747 -0.1222152

sample estimates:

cor

-0.3102441

> cor.test(test$FG\_herb, test$OpenDev5km) #r is -0.204

Pearson's product-moment correlation

data: test$FG\_herb and test$OpenDev5km

t = -1.3492, df = 99, p-value = 0.1804

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32136619 0.06272018

sample estimates:

cor

-0.1343661

> cor.test(test$FG\_herb, test$OpenDev30km) #r is -0.291

Pearson's product-moment correlation

data: test$FG\_herb and test$OpenDev30km

t = -1.7938, df = 99, p-value = 0.07589

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36036873 0.01866076

sample estimates:

cor

-0.1774256

> cor.test(test$FG\_herb, test$Grass500m) #r is 0.019

Pearson's product-moment correlation

data: test$FG\_herb and test$Grass500m

t = 0.26643, df = 99, p-value = 0.7905

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1695590 0.2210502

sample estimates:

cor

0.02676734

> cor.test(test$FG\_herb, test$Grass1km) #r is -0.023

Pearson's product-moment correlation

data: test$FG\_herb and test$Grass1km

t = 0.37516, df = 99, p-value = 0.7083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1589310 0.2314138

sample estimates:

cor

0.03767863

> cor.test(test$FG\_herb, test$Grass5km) #r is -0.401

Pearson's product-moment correlation

data: test$FG\_herb and test$Grass5km

t = -1.4164, df = 99, p-value = 0.1598

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32735857 0.05604682

sample estimates:

cor

-0.1409362

> cor.test(test$FG\_herb, test$Grass30km) #r is -0.518

Pearson's product-moment correlation

data: test$FG\_herb and test$Grass30km

t = -1.4584, df = 99, p-value = 0.1479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33108467 0.05187993

sample estimates:

cor

-0.1450298

> cor.test(test$FG\_herb, test$Schrubs500m) #r is 0.228

Pearson's product-moment correlation

data: test$FG\_herb and test$Schrubs500m

t = 2.3611, df = 99, p-value = 0.02018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03712292 0.40791919

sample estimates:

cor

0.230887

> cor.test(test$FG\_herb, test$Schrubs1km) #r is 0.178

Pearson's product-moment correlation

data: test$FG\_herb and test$Schrubs1km

t = 1.843, df = 99, p-value = 0.06833

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01380294 0.36458938

sample estimates:

cor

0.1821276

> cor.test(test$FG\_herb, test$Schrubs5km) #r is 0.419

Pearson's product-moment correlation

data: test$FG\_herb and test$Schrubs5km

t = 3.0564, df = 99, p-value = 0.00288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1041794 0.4625349

sample estimates:

cor

0.29364

> cor.test(test$FG\_herb, test$Schrubs30km) #r is 0.514

Pearson's product-moment correlation

data: test$FG\_herb and test$Schrubs30km

t = 4.9178, df = 99, p-value = 3.482e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2711298 0.5876412

sample estimates:

cor

0.44309

> cor.test(test$FG\_herb, test$Water500m) #r is 0.164

Pearson's product-moment correlation

data: test$FG\_herb and test$Water500m

t = 1.6966, df = 99, p-value = 0.09292

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02828093 0.35196431

sample estimates:

cor

0.1680874

> cor.test(test$FG\_herb, test$Water1km) #r is 0.042

Pearson's product-moment correlation

data: test$FG\_herb and test$Water1km

t = 0.609, df = 99, p-value = 0.5439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1359701 0.2535050

sample estimates:

cor

0.06109261

> cor.test(test$FG\_herb, test$Water5km) #r is 0.223

Pearson's product-moment correlation

data: test$FG\_herb and test$Water5km

t = 1.7389, df = 99, p-value = 0.08515

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02408881 0.35563421

sample estimates:

cor

0.172161

> cor.test(test$FG\_herb, test$Water30km) #r is 0.224

Pearson's product-moment correlation

data: test$FG\_herb and test$Water30km

t = 0.70153, df = 99, p-value = 0.4846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1268507 0.2621678

sample estimates:

cor

0.07033217

> cor.test(test$FG\_herb, test$NSoilTypes) #r is 0.041

Pearson's product-moment correlation

data: test$FG\_herb and test$NSoilTypes

t = 0.29051, df = 99, p-value = 0.772

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1672077 0.2233506

sample estimates:

cor

0.02918535

> cor.test(test$FG\_herb, test$FPSiteIndex) # r is 0.110

Pearson's product-moment correlation

data: test$FG\_herb and test$FPSiteIndex

t = 2.0249, df = 91, p-value = 0.04581

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.004103763 0.394653793

sample estimates:

cor

0.2076385

> cor.test(test$FG\_herb, test$SiteIndexPrimaryS) # r is 0.075

Pearson's product-moment correlation

data: test$FG\_herb and test$SiteIndexPrimaryS

t = 1.9288, df = 91, p-value = 0.05688

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.005760376 0.386293662

sample estimates:

cor

0.1981804

> cor.test(test$FG\_herb, test$PISoils) # r is 0.106

Pearson's product-moment correlation

data: test$FG\_herb and test$PISoils

t = 0.46223, df = 99, p-value = 0.6449

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1503971 0.2396718

sample estimates:

cor

0.04640624

> cor.test(test$FG\_herb, test$SISoils) # r is 0.038

Pearson's product-moment correlation

data: test$FG\_herb and test$SISoils

t = -0.39851, df = 99, p-value = 0.6911

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2336320 0.1566443

sample estimates:

cor

-0.04002012

> cor.test(test$FG\_herb, test$HydricSoils) # r is 0.093

Pearson's product-moment correlation

data: test$FG\_herb and test$HydricSoils

t = 2.0813, df = 99, p-value = 0.03999

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009696444 0.384789330

sample estimates:

cor

0.2047477

> #FG\_shrub by each

> #cor.test(test$FG\_shrub, test$Treatment) #non-numeric

> cor.test(test$FG\_shrub, test$Herbicide) # r is -0.038

Pearson's product-moment correlation

data: test$FG\_shrub and test$Herbicide

t = 1.0151, df = 99, p-value = 0.3125

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09584364 0.29116049

sample estimates:

cor

0.1014968

> cor.test(test$FG\_shrub, test$LastB) # r is 0.203

Pearson's product-moment correlation

data: test$FG\_shrub and test$LastB

t = 2.7292, df = 77, p-value = 0.007864

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08120662 0.48616988

sample estimates:

cor

0.2969845

> cor.test(test$FG\_shrub, test$LastT) #r is 0.142

Pearson's product-moment correlation

data: test$FG\_shrub and test$LastT

t = 2.4752, df = 94, p-value = 0.01511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0493196 0.4266854

sample estimates:

cor

0.2473597

> cor.test(test$FG\_shrub, test$BA) #r is 0.043

Pearson's product-moment correlation

data: test$FG\_shrub and test$BA

t = -2.3842, df = 99, p-value = 0.01902

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4098041 -0.0393828

sample estimates:

cor

-0.2330285

> cor.test(test$FG\_shrub, test$Nsnags) #r is 0.106

Pearson's product-moment correlation

data: test$FG\_shrub and test$Nsnags

t = 0.38406, df = 99, p-value = 0.7018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1580598 0.2322594

sample estimates:

cor

0.03857096

> cor.test(test$FG\_shrub, test$Ccover) #r is -0.122 -0.523

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ccover

t = -4.2772, df = 99, p-value = 4.369e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5480673 -0.2161769

sample estimates:

cor

-0.3949306

> cor.test(test$FG\_shrub, test$Ldepth) #r is -0.267

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ldepth

t = -3.5528, df = 99, p-value = 0.0005856

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4989277 -0.1507472

sample estimates:

cor

-0.3362791

> cor.test(test$FG\_shrub, test$TreeHt) #r is -0.332

Pearson's product-moment correlation

data: test$FG\_shrub and test$TreeHt

t = -3.7661, df = 99, p-value = 0.0002816

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5138850 -0.1703452

sample estimates:

cor

-0.3539991

> cor.test(test$FG\_shrub, test$Age) #r is -0.081

Pearson's product-moment correlation

data: test$FG\_shrub and test$Age

t = -0.27039, df = 99, p-value = 0.7874

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214291 0.1691720

sample estimates:

cor

-0.02716548

> cor.test(test$FG\_shrub, test$Nburns) #r is -0.081

Pearson's product-moment correlation

data: test$FG\_shrub and test$Nburns

t = 1.1307, df = 99, p-value = 0.2609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08438886 0.30169427

sample estimates:

cor

0.1129127

> cor.test(test$FG\_shrub, test$Nthins) #r is -0.105

Pearson's product-moment correlation

data: test$FG\_shrub and test$Nthins

t = 1.3906, df = 99, p-value = 0.1675

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05860505 0.32506503

sample estimates:

cor

0.1384196

> cor.test(test$FG\_shrub, test$TimeSinceB) #r is 0.071

Pearson's product-moment correlation

data: test$FG\_shrub and test$TimeSinceB

t = -1.0773, df = 99, p-value = 0.284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29683694 0.08968359

sample estimates:

cor

-0.1076424

> cor.test(test$FG\_shrub, test$TimeSinceT) #r is 0.161

Pearson's product-moment correlation

data: test$FG\_shrub and test$TimeSinceT

t = -1.9707, df = 99, p-value = 0.05155

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.375471088 0.001195553

sample estimates:

cor

-0.1942891

> cor.test(test$FG\_shrub, test$HWdens\_10) #r is -0.271

Pearson's product-moment correlation

data: test$FG\_shrub and test$HWdens\_10

t = 0.08241, df = 99, p-value = 0.9345

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1874605 0.2033923

sample estimates:

cor

0.008282214

> cor.test(test$FG\_shrub, test$HWdens\_50) #r is -0.265

Pearson's product-moment correlation

data: test$FG\_shrub and test$HWdens\_50

t = 0.1258, df = 99, p-value = 0.9001

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1832498 0.2075686

sample estimates:

cor

0.01264223

> cor.test(test$FG\_shrub, test$HWdens\_100) #r is -0.230

Pearson's product-moment correlation

data: test$FG\_shrub and test$HWdens\_100

t = -0.27022, df = 99, p-value = 0.7876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214130 0.1691885

sample estimates:

cor

-0.0271485

> cor.test(test$FG\_shrub, test$FG\_herb) #r is 0.227

Pearson's product-moment correlation

data: test$FG\_shrub and test$FG\_herb

t = 3.4878, df = 99, p-value = 0.0007281

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1447159 0.4942824

sample estimates:

cor

0.3307991

> #cor.test(test$FG\_shrub, test$FG\_shrub) #r is

> cor.test(test$FG\_shrub, test$NHW\_saplings) #r is -0.224

Pearson's product-moment correlation

data: test$FG\_shrub and test$NHW\_saplings

t = -1.789, df = 99, p-value = 0.07667

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35995341 0.01913781

sample estimates:

cor

-0.1769633

> cor.test(test$FG\_shrub, test$NP\_over\_20cm) #r is 0.054

Pearson's product-moment correlation

data: test$FG\_shrub and test$NP\_over\_20cm

t = 0.38903, df = 99, p-value = 0.6981

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1575737 0.2327310

sample estimates:

cor

0.03906873

> cor.test(test$FG\_shrub, test$Rel\_HW2P\_canopy) #r is -0.123

Pearson's product-moment correlation

data: test$FG\_shrub and test$Rel\_HW2P\_canopy

t = -1.3745, df = 99, p-value = 0.1724

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32363046 0.06020262

sample estimates:

cor

-0.1368468

> cor.test(test$FG\_shrub, test$Rel\_HW2P\_shrubcover) #r is -0.223

Pearson's product-moment correlation

data: test$FG\_shrub and test$Rel\_HW2P\_shrubcover

t = -1.1173, df = 99, p-value = 0.2666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3004815 0.0857129

sample estimates:

cor

-0.1115958

> cor.test(test$FG\_shrub, test$LCR) #r is 0.254 .407

Pearson's product-moment correlation

data: test$FG\_shrub and test$LCR

t = -0.48513, df = 98, p-value = 0.6287

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2430287 0.1489026

sample estimates:

cor

-0.04894709

> cor.test(test$FG\_shrub, test$HW\_dens\_1050) #r is 0.093

Pearson's product-moment correlation

data: test$FG\_shrub and test$HW\_dens\_1050

t = 0.072519, df = 99, p-value = 0.9423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1884194 0.2024391

sample estimates:

cor

0.007288212

> cor.test(test$FG\_shrub, test$HW\_shrub) #r is -0.167

Pearson's product-moment correlation

data: test$FG\_shrub and test$HW\_shrub

t = -1.0352, df = 99, p-value = 0.3031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29299983 0.09385083

sample estimates:

cor

-0.1034866

> cor.test(test$FG\_shrub, test$Parea) #r is 0.337

Pearson's product-moment correlation

data: test$FG\_shrub and test$Parea

t = -0.35398, df = 99, p-value = 0.7241

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2293995 0.1610037

sample estimates:

cor

-0.03555429

> cor.test(test$FG\_shrub, test$ShapeIndex) #r is 0.103

Pearson's product-moment correlation

data: test$FG\_shrub and test$ShapeIndex

t = 1.1006, df = 99, p-value = 0.2737

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08737382 0.29895836

sample estimates:

cor

0.1099429

> cor.test(test$FG\_shrub, test$PAratio) #r is -0.199

Pearson's product-moment correlation

data: test$FG\_shrub and test$PAratio

t = 0.97833, df = 99, p-value = 0.3303

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09948749 0.28778983

sample estimates:

cor

0.09785443

> cor.test(test$FG\_shrub, test$FracDimIndex) #r is 0.049

Pearson's product-moment correlation

data: test$FG\_shrub and test$FracDimIndex

t = 1.446, df = 99, p-value = 0.1513

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0531159 0.3299807

sample estimates:

cor

0.1438163

> cor.test(test$FG\_shrub, test$CoreAreaIndex) #r is 0.261

Pearson's product-moment correlation

data: test$FG\_shrub and test$CoreAreaIndex

t = -0.70537, df = 99, p-value = 0.4822

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2625255 0.1264727

sample estimates:

cor

-0.07071443

> cor.test(test$FG\_shrub, test$Ag500m) #r is -0.181

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ag500m

t = -1.7591, df = 99, p-value = 0.08165

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35737454 0.02209614

sample estimates:

cor

-0.1740949

> cor.test(test$FG\_shrub, test$Ag1km) #r is -0.098

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ag1km

t = -0.99892, df = 99, p-value = 0.3203

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28967683 0.09744882

sample estimates:

cor

-0.09989293

> cor.test(test$FG\_shrub, test$Ag5km) #r is -0.158

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ag5km

t = -1.9024, df = 99, p-value = 0.06003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.369664199 0.007938262

sample estimates:

cor

-0.1877924

> cor.test(test$FG\_shrub, test$Ag30km) #r is 0.036

Pearson's product-moment correlation

data: test$FG\_shrub and test$Ag30km

t = -0.66558, df = 99, p-value = 0.5072

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2588077 0.1303957

sample estimates:

cor

-0.06674448

> cor.test(test$FG\_shrub, test$Evergreen500m) #r is 0.111

Pearson's product-moment correlation

data: test$FG\_shrub and test$Evergreen500m

t = 1.4581, df = 99, p-value = 0.148

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0519140 0.3310542

sample estimates:

cor

0.1449964

> cor.test(test$FG\_shrub, test$Evergreen1km) #r is 0.069

Pearson's product-moment correlation

data: test$FG\_shrub and test$Evergreen1km

t = 1.4583, df = 99, p-value = 0.1479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05189267 0.33107330

sample estimates:

cor

0.1450173

> cor.test(test$FG\_shrub, test$Evergreen5km) #r is -0.062

Pearson's product-moment correlation

data: test$FG\_shrub and test$Evergreen5km

t = 1.3239, df = 99, p-value = 0.1886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06522612 0.31910800

sample estimates:

cor

0.1318945

> cor.test(test$FG\_shrub, test$Evergreen30km) #r is 0.221

Pearson's product-moment correlation

data: test$FG\_shrub and test$Evergreen30km

t = 2.4525, df = 99, p-value = 0.01593

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04604112 0.41533911

sample estimates:

cor

0.2393269

> cor.test(test$FG\_shrub, test$Imperv500m) #r is -0.052

Pearson's product-moment correlation

data: test$FG\_shrub and test$Imperv500m

t = 0.36178, df = 99, p-value = 0.7183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1602414 0.2301408

sample estimates:

cor

0.03633583

> cor.test(test$FG\_shrub, test$Imperv1km) #r is -0.160

Pearson's product-moment correlation

data: test$FG\_shrub and test$Imperv1km

t = -1.4885, df = 99, p-value = 0.1398

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33374300 0.04889895

sample estimates:

cor

-0.1479543

> cor.test(test$FG\_shrub, test$Imperv5km) #r is -0.186

Pearson's product-moment correlation

data: test$FG\_shrub and test$Imperv5km

t = -0.6236, df = 99, p-value = 0.5343

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2548751 0.1345322

sample estimates:

cor

-0.06255173

> cor.test(test$FG\_shrub, test$Imperv30km) #r is -0.050

Pearson's product-moment correlation

data: test$FG\_shrub and test$Imperv30km

t = 0.89219, df = 99, p-value = 0.3745

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1080142 0.2798647

sample estimates:

cor

0.08931046

> cor.test(test$FG\_shrub, test$Protected30km) #r is -0.079

Pearson's product-moment correlation

data: test$FG\_shrub and test$Protected30km

t = 0.018722, df = 99, p-value = 0.9851

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1936288 0.1972484

sample estimates:

cor

0.00188166

> cor.test(test$FG\_shrub, test$HighDev500m) #r is -0.100

Pearson's product-moment correlation

data: test$FG\_shrub and test$HighDev500m

t = -1.0621, df = 99, p-value = 0.2908

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29545010 0.09119132

sample estimates:

cor

-0.1061396

> cor.test(test$FG\_shrub, test$HighDev1km) #r is -0.139

Pearson's product-moment correlation

data: test$FG\_shrub and test$HighDev1km

t = -1.3749, df = 99, p-value = 0.1723

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32365899 0.06017088

sample estimates:

cor

-0.136878

> cor.test(test$FG\_shrub, test$HighDev5km) #r is -0.183

Pearson's product-moment correlation

data: test$FG\_shrub and test$HighDev5km

t = -0.55939, df = 99, p-value = 0.5772

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2488419 0.1408519

sample estimates:

cor

-0.05613259

> cor.test(test$FG\_shrub, test$HighDev30km) #r is -0.139

Pearson's product-moment correlation

data: test$FG\_shrub and test$HighDev30km

t = 1.184, df = 99, p-value = 0.2392

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07910199 0.30652447

sample estimates:

cor

0.118164

> cor.test(test$FG\_shrub, test$LowDev500m) #r is -0.184

Pearson's product-moment correlation

data: test$FG\_shrub and test$LowDev500m

t = -1.2859, df = 99, p-value = 0.2015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31570559 0.06899267

sample estimates:

cor

-0.1281749

> cor.test(test$FG\_shrub, test$LowDev1km) #r is -0.089

Pearson's product-moment correlation

data: test$FG\_shrub and test$LowDev1km

t = -0.85841, df = 99, p-value = 0.3927

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2767445 0.1113557

sample estimates:

cor

-0.08595424

> cor.test(test$FG\_shrub, test$LowDev5km) #r is -0.125

Pearson's product-moment correlation

data: test$FG\_shrub and test$LowDev5km

t = -0.56514, df = 99, p-value = 0.5733

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2493823 0.1402871

sample estimates:

cor

-0.05670691

> cor.test(test$FG\_shrub, test$LowDev30km) #r is -0.014

Pearson's product-moment correlation

data: test$FG\_shrub and test$LowDev30km

t = 1.0355, df = 99, p-value = 0.303

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09382856 0.29302037

sample estimates:

cor

0.1035088

> cor.test(test$FG\_shrub, test$OpenDev500m) #r is 0.030

Pearson's product-moment correlation

data: test$FG\_shrub and test$OpenDev500m

t = -0.065012, df = 99, p-value = 0.9483

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2017155 0.1891470

sample estimates:

cor

-0.006533803

> cor.test(test$FG\_shrub, test$OpenDev1km) #r is 0.068

Pearson's product-moment correlation

data: test$FG\_shrub and test$OpenDev1km

t = 0.20159, df = 99, p-value = 0.8407

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1758793 0.2148450

sample estimates:

cor

0.02025627

> cor.test(test$FG\_shrub, test$OpenDev5km) #r is 0.200

Pearson's product-moment correlation

data: test$FG\_shrub and test$OpenDev5km

t = 0.38515, df = 99, p-value = 0.701

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1579533 0.2323627

sample estimates:

cor

0.03868005

> cor.test(test$FG\_shrub, test$OpenDev30km) #r is 0.161

Pearson's product-moment correlation

data: test$FG\_shrub and test$OpenDev30km

t = 0.093251, df = 99, p-value = 0.9259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1864090 0.2044365

sample estimates:

cor

0.00937164

> cor.test(test$FG\_shrub, test$Grass500m) #r is 0.251

Pearson's product-moment correlation

data: test$FG\_shrub and test$Grass500m

t = 2.2247, df = 99, p-value = 0.02837

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02378229 0.39672764

sample estimates:

cor

0.2182073

> cor.test(test$FG\_shrub, test$Grass1km) #r is 0.137

Pearson's product-moment correlation

data: test$FG\_shrub and test$Grass1km

t = 0.60383, df = 99, p-value = 0.5473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1364797 0.2530191

sample estimates:

cor

0.06057532

> cor.test(test$FG\_shrub, test$Grass5km) #r is -0.048

Pearson's product-moment correlation

data: test$FG\_shrub and test$Grass5km

t = 1.1254, df = 99, p-value = 0.2632

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08491651 0.30121110

sample estimates:

cor

0.1123879

> cor.test(test$FG\_shrub, test$Grass30km) #r is -0.057

Pearson's product-moment correlation

data: test$FG\_shrub and test$Grass30km

t = 1.8165, df = 99, p-value = 0.07232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01642053 0.36231705

sample estimates:

cor

0.1795951

> cor.test(test$FG\_shrub, test$Schrubs500m) #r is 0.140

Pearson's product-moment correlation

data: test$FG\_shrub and test$Schrubs500m

t = 0.067865, df = 99, p-value = 0.946

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1888705 0.2019906

sample estimates:

cor

0.00682056

> cor.test(test$FG\_shrub, test$Schrubs1km) #r is 0.175

Pearson's product-moment correlation

data: test$FG\_shrub and test$Schrubs1km

t = 0.50486, df = 99, p-value = 0.6148

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1462122 0.2437008

sample estimates:

cor

0.0506751

> cor.test(test$FG\_shrub, test$Schrubs5km) #r is 0.372

Pearson's product-moment correlation

data: test$FG\_shrub and test$Schrubs5km

t = 0.86569, df = 99, p-value = 0.3888

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1106361 0.2774171

sample estimates:

cor

0.08667732

> cor.test(test$FG\_shrub, test$Schrubs30km) #r is 0.097

Pearson's product-moment correlation

data: test$FG\_shrub and test$Schrubs30km

t = 1.9718, df = 99, p-value = 0.05142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001084679 0.375566327

sample estimates:

cor

0.1943958

> cor.test(test$FG\_shrub, test$Water500m) #r is -0.250

Pearson's product-moment correlation

data: test$FG\_shrub and test$Water500m

t = 1.8382, df = 99, p-value = 0.06903

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01427653 0.36417859

sample estimates:

cor

0.1816696

> cor.test(test$FG\_shrub, test$Water1km) #r is -0.077

Pearson's product-moment correlation

data: test$FG\_shrub and test$Water1km

t = 1.5074, df = 99, p-value = 0.1349

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04702834 0.33540804

sample estimates:

cor

0.1497876

> cor.test(test$FG\_shrub, test$Water5km) #r is 0.508

Pearson's product-moment correlation

data: test$FG\_shrub and test$Water5km

t = 2.205, df = 99, p-value = 0.02977

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02184422 0.39509250

sample estimates:

cor

0.2163598

> cor.test(test$FG\_shrub, test$Water30km) #r is -0.008

Pearson's product-moment correlation

data: test$FG\_shrub and test$Water30km

t = -0.18484, df = 99, p-value = 0.8537

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2132394 0.1775094

sample estimates:

cor

-0.01857427

> cor.test(test$FG\_shrub, test$NSoilTypes) #r is 0.190

Pearson's product-moment correlation

data: test$FG\_shrub and test$NSoilTypes

t = -0.87433, df = 99, p-value = 0.3841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2782160 0.1097809

sample estimates:

cor

-0.08753645

> cor.test(test$FG\_shrub, test$FPSiteIndex) # r is -0.168

Pearson's product-moment correlation

data: test$FG\_shrub and test$FPSiteIndex

t = 0.69554, df = 91, p-value = 0.4885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1329584 0.2723926

sample estimates:

cor

0.07271946

> cor.test(test$FG\_shrub, test$SiteIndexPrimaryS) # r is -0.055

Pearson's product-moment correlation

data: test$FG\_shrub and test$SiteIndexPrimaryS

t = 1.769, df = 91, p-value = 0.08025

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02220304 0.37221338

sample estimates:

cor

0.1823299

> cor.test(test$FG\_shrub, test$PISoils) # r is 0.041

Pearson's product-moment correlation

data: test$FG\_shrub and test$PISoils

t = -0.98588, df = 99, p-value = 0.3266

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28848164 0.09874045

sample estimates:

cor

-0.0986016

> cor.test(test$FG\_shrub, test$SISoils) # r is -0.046

Pearson's product-moment correlation

data: test$FG\_shrub and test$SISoils

t = 1.2536, df = 99, p-value = 0.213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07220372 0.31279716

sample estimates:

cor

0.1249995

> cor.test(test$FG\_shrub, test$HydricSoils) # r is 0.202

Pearson's product-moment correlation

data: test$FG\_shrub and test$HydricSoils

t = 1.8064, df = 99, p-value = 0.07389

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01741634 0.36145141

sample estimates:

cor

0.178631

> #NHW\_saplings by each

> #cor.test(test$NHW\_saplings, test$Treatment) #non-numeric

> cor.test(test$NHW\_saplings, test$Herbicide) # r is -0.205

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Herbicide

t = -2.6515, df = 99, p-value = 0.009331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43124036 -0.06535361

sample estimates:

cor

-0.2575039

> cor.test(test$NHW\_saplings, test$LastB) # r is -0.120

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LastB

t = -1.0298, df = 77, p-value = 0.3063

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3291793 0.1073241

sample estimates:

cor

-0.1165522

> cor.test(test$NHW\_saplings, test$LastT) #r is -0.114

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LastT

t = -0.5675, df = 94, p-value = 0.5717

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2559206 0.1437371

sample estimates:

cor

-0.0584327

> cor.test(test$NHW\_saplings, test$BA) #r is -0.035

Pearson's product-moment correlation

data: test$NHW\_saplings and test$BA

t = -1.1315, df = 99, p-value = 0.2606

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30176841 0.08430787

sample estimates:

cor

-0.1129932

> cor.test(test$NHW\_saplings, test$Nsnags) #r is -0.171

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Nsnags

t = -1.9958, df = 99, p-value = 0.0487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.377595349 -0.001279634

sample estimates:

cor

-0.1966697

> cor.test(test$NHW\_saplings, test$Ccover) #r is 0.056

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ccover

t = 0.55562, df = 99, p-value = 0.5797

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1412229 0.2484868

sample estimates:

cor

0.05575528

> cor.test(test$NHW\_saplings, test$Ldepth) #r is 0.259

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ldepth

t = 1.0715, df = 99, p-value = 0.2866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09025859 0.29630823

sample estimates:

cor

0.1070694

> cor.test(test$NHW\_saplings, test$TreeHt) #r is 0.215

Pearson's product-moment correlation

data: test$NHW\_saplings and test$TreeHt

t = 0.5753, df = 99, p-value = 0.5664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1392876 0.2503381

sample estimates:

cor

0.05772297

> cor.test(test$NHW\_saplings, test$Age) #r is 0.164

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Age

t = 1.1026, df = 99, p-value = 0.2729

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0871708 0.2991446

sample estimates:

cor

0.110145

> cor.test(test$NHW\_saplings, test$Nburns) #r is -0.168

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Nburns

t = -2.0968, df = 99, p-value = 0.03856

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38608684 -0.01122018

sample estimates:

cor

-0.2062073

> cor.test(test$NHW\_saplings, test$Nthins) #r is 0.080

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Nthins

t = -0.52908, df = 99, p-value = 0.5979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2459860 0.1438324

sample estimates:

cor

-0.05309952

> cor.test(test$NHW\_saplings, test$TimeSinceB) #r is 0.025

Pearson's product-moment correlation

data: test$NHW\_saplings and test$TimeSinceB

t = 0.55484, df = 99, p-value = 0.5803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1412999 0.2484130

sample estimates:

cor

0.05567687

> cor.test(test$NHW\_saplings, test$TimeSinceT) #r is -0.031

Pearson's product-moment correlation

data: test$NHW\_saplings and test$TimeSinceT

t = -0.38786, df = 99, p-value = 0.699

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2326200 0.1576881

sample estimates:

cor

-0.0389516

> cor.test(test$NHW\_saplings, test$HWdens\_10) #r is 0.189 0.420

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HWdens\_10

t = 3.0624, df = 99, p-value = 0.002827

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1047503 0.4629885

sample estimates:

cor

0.2941673

> cor.test(test$NHW\_saplings, test$HWdens\_50) #r is 0.293 0.501

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HWdens\_50

t = 4.4741, df = 99, p-value = 2.052e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2333729 0.5606127

sample estimates:

cor

0.4101071

> cor.test(test$NHW\_saplings, test$HWdens\_100) #r is 0.522 0.701 #high

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HWdens\_100

t = 7.6734, df = 99, p-value = 1.194e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4715301 0.7201751

sample estimates:

cor

0.6106909

> cor.test(test$NHW\_saplings, test$FG\_herb) #r is -0.065

Pearson's product-moment correlation

data: test$NHW\_saplings and test$FG\_herb

t = -0.021642, df = 99, p-value = 0.9828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1975304 0.1933463

sample estimates:

cor

-0.002175146

> cor.test(test$NHW\_saplings, test$FG\_shrub) #r is -0.224

Pearson's product-moment correlation

data: test$NHW\_saplings and test$FG\_shrub

t = -1.789, df = 99, p-value = 0.07667

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35995341 0.01913781

sample estimates:

cor

-0.1769633

> #cor.test(test$NHW\_saplings, test$NHW\_saplings) #r is

> cor.test(test$NHW\_saplings, test$NP\_over\_20cm) #r is -0.187

Pearson's product-moment correlation

data: test$NHW\_saplings and test$NP\_over\_20cm

t = -1.6853, df = 99, p-value = 0.09508

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3509836 0.0293990

sample estimates:

cor

-0.1669998

> cor.test(test$NHW\_saplings, test$Rel\_HW2P\_canopy) #r is 0.501 #high

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Rel\_HW2P\_canopy

t = 4.4215, df = 99, p-value = 2.516e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2288053 0.5572950

sample estimates:

cor

0.4060854

> cor.test(test$NHW\_saplings, test$Rel\_HW2P\_shrubcover) #r is 0.305

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Rel\_HW2P\_shrubcover

t = 3.2982, df = 99, p-value = 0.001352

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1270188 0.4805361

sample estimates:

cor

0.3146471

> cor.test(test$NHW\_saplings, test$LCR) #r is -0.360 #ish

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LCR

t = -1.8465, df = 98, p-value = 0.06783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36658111 0.01353986

sample estimates:

cor

-0.1833659

> cor.test(test$NHW\_saplings, test$HW\_dens\_1050) #r is 0.260 #0.489

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HW\_dens\_1050

t = 4.0872, df = 99, p-value = 8.886e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1993331 0.5356324

sample estimates:

cor

0.3799697

> cor.test(test$NHW\_saplings, test$HW\_shrub) #r is 0.526 #0.721

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HW\_shrub

t = 8.1643, df = 99, p-value = 1.066e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5009998 0.7382457

sample estimates:

cor

0.6343288

> cor.test(test$NHW\_saplings, test$Parea) #r is 0.012

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Parea

t = -0.20176, df = 99, p-value = 0.8405

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2148612 0.1758628

sample estimates:

cor

-0.02027329

> cor.test(test$NHW\_saplings, test$ShapeIndex) #r is 0.283

Pearson's product-moment correlation

data: test$NHW\_saplings and test$ShapeIndex

t = 2.3558, df = 99, p-value = 0.02045

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03660849 0.40748969

sample estimates:

cor

0.2303993

> cor.test(test$NHW\_saplings, test$PAratio) #r is -0.039

Pearson's product-moment correlation

data: test$NHW\_saplings and test$PAratio

t = 0.029102, df = 99, p-value = 0.9768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1926245 0.1982508

sample estimates:

cor

0.002924841

> cor.test(test$NHW\_saplings, test$FracDimIndex) #r is 0.227

Pearson's product-moment correlation

data: test$NHW\_saplings and test$FracDimIndex

t = 2.1701, df = 99, p-value = 0.03239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01842402 0.39220111

sample estimates:

cor

0.213096

> cor.test(test$NHW\_saplings, test$CoreAreaIndex) #r is -0.041

Pearson's product-moment correlation

data: test$NHW\_saplings and test$CoreAreaIndex

t = -0.38865, df = 99, p-value = 0.6984

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2326948 0.1576110

sample estimates:

cor

-0.03903057

> cor.test(test$NHW\_saplings, test$Ag500m) #r is -0.053

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ag500m

t = -0.80012, df = 99, p-value = 0.4256

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2713449 0.1171175

sample estimates:

cor

-0.08015645

> cor.test(test$NHW\_saplings, test$Ag1km) #r is -0.150

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ag1km

t = -1.9157, df = 99, p-value = 0.05829

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.370799367 0.006622849

sample estimates:

cor

-0.1890611

> cor.test(test$NHW\_saplings, test$Ag5km) #r is 0.013

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ag5km

t = -1.1728, df = 99, p-value = 0.2437

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30551039 0.08021375

sample estimates:

cor

-0.1170607

> cor.test(test$NHW\_saplings, test$Ag30km) #r is -0.002 -0.378

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Ag30km

t = -1.909, df = 99, p-value = 0.05916

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.370230492 0.007282215

sample estimates:

cor

-0.1884252

> cor.test(test$NHW\_saplings, test$Evergreen500m) #r is 0.051

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Evergreen500m

t = 0.34883, df = 99, p-value = 0.728

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.161508 0.228909

sample estimates:

cor

0.03503724

> cor.test(test$NHW\_saplings, test$Evergreen1km) #r is -0.051

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Evergreen1km

t = -0.10784, df = 99, p-value = 0.9143

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2058406 0.1849938

sample estimates:

cor

-0.01083729

> cor.test(test$NHW\_saplings, test$Evergreen5km) #r is 0.064

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Evergreen5km

t = 1.6821, df = 99, p-value = 0.0957

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02971343 0.35070758

sample estimates:

cor

0.1666939

> cor.test(test$NHW\_saplings, test$Evergreen30km) #r is -0.116

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Evergreen30km

t = 0.060674, df = 99, p-value = 0.9517

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1895673 0.2012972

sample estimates:

cor

0.006097849

> cor.test(test$NHW\_saplings, test$Imperv500m) #r is -0.041

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Imperv500m

t = 0.066304, df = 99, p-value = 0.9473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1890218 0.2018401

sample estimates:

cor

0.006663667

> cor.test(test$NHW\_saplings, test$Imperv1km) #r is -0.039

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Imperv1km

t = -0.83774, df = 99, p-value = 0.4042

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2748320 0.1133995

sample estimates:

cor

-0.08389917

> cor.test(test$NHW\_saplings, test$Imperv5km) #r is -0.160

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Imperv5km

t = -2.0294, df = 99, p-value = 0.0451

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.380425966 -0.004585047

sample estimates:

cor

-0.1998452

> cor.test(test$NHW\_saplings, test$Imperv30km) #r is -0.097

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Imperv30km

t = -0.84164, df = 99, p-value = 0.402

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2751931 0.1130139

sample estimates:

cor

-0.08428705

> cor.test(test$NHW\_saplings, test$Protected30km) #r is 0.036 0.399

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Protected30km

t = 2.1605, df = 99, p-value = 0.03315

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01747816 0.39140019

sample estimates:

cor

0.2121926

> cor.test(test$NHW\_saplings, test$HighDev500m) #r is 0.018

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HighDev500m

t = 0.84961, df = 99, p-value = 0.3976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1122261 0.2759304

sample estimates:

cor

0.08507923

> cor.test(test$NHW\_saplings, test$HighDev1km) #r is -0.057

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HighDev1km

t = -0.93955, df = 99, p-value = 0.3497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2842275 0.1033272

sample estimates:

cor

-0.0940105

> cor.test(test$NHW\_saplings, test$HighDev5km) #r is -0.157

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HighDev5km

t = -1.9801, df = 99, p-value = 0.05047

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3762669227 0.0002687872

sample estimates:

cor

-0.1951807

> cor.test(test$NHW\_saplings, test$HighDev30km) #r is 0.021

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HighDev30km

t = 0.75155, df = 99, p-value = 0.4541

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1219150 0.2668304

sample estimates:

cor

0.07531893

> cor.test(test$NHW\_saplings, test$LowDev500m) #r is 0.057

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LowDev500m

t = 0.42644, df = 99, p-value = 0.6707

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1539080 0.2362811

sample estimates:

cor

0.0428192

> cor.test(test$NHW\_saplings, test$LowDev1km) #r is -0.135

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LowDev1km

t = -1.4132, df = 99, p-value = 0.1607

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3270701 0.0563688

sample estimates:

cor

-0.1406196

> cor.test(test$NHW\_saplings, test$LowDev5km) #r is -0.143

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LowDev5km

t = -2.2394, df = 99, p-value = 0.02737

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39793928 -0.02522022

sample estimates:

cor

-0.2195772

> cor.test(test$NHW\_saplings, test$LowDev30km) #r is -0.079

Pearson's product-moment correlation

data: test$NHW\_saplings and test$LowDev30km

t = -0.7566, df = 99, p-value = 0.4511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2673002 0.1214166

sample estimates:

cor

-0.07582192

> cor.test(test$NHW\_saplings, test$OpenDev500m) #r is -0.100

Pearson's product-moment correlation

data: test$NHW\_saplings and test$OpenDev500m

t = -1.0284, df = 99, p-value = 0.3063

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29237174 0.09453168

sample estimates:

cor

-0.102807

> cor.test(test$NHW\_saplings, test$OpenDev1km) #r is -0.247

Pearson's product-moment correlation

data: test$NHW\_saplings and test$OpenDev1km

t = -2.6138, df = 99, p-value = 0.01035

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42824681 -0.06169679

sample estimates:

cor

-0.2540725

> cor.test(test$NHW\_saplings, test$OpenDev5km) #r is -0.257 -0.377

Pearson's product-moment correlation

data: test$NHW\_saplings and test$OpenDev5km

t = -3.3002, df = 99, p-value = 0.001344

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4806826 -0.1272062

sample estimates:

cor

-0.3148187

> cor.test(test$NHW\_saplings, test$OpenDev30km) #r is -0.141

Pearson's product-moment correlation

data: test$NHW\_saplings and test$OpenDev30km

t = -2.0744, df = 99, p-value = 0.04064

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38421096 -0.00901779

sample estimates:

cor

-0.2040973

> cor.test(test$NHW\_saplings, test$Grass500m) #r is -0.264 -0.305

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Grass500m

t = -2.9127, df = 99, p-value = 0.004429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45158804 -0.09047275

sample estimates:

cor

-0.2809444

> cor.test(test$NHW\_saplings, test$Grass1km) #r is 0.017

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Grass1km

t = -0.45615, df = 99, p-value = 0.6493

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2390957 0.1509942

sample estimates:

cor

-0.04579648

> cor.test(test$NHW\_saplings, test$Grass5km) #r is -0.076 -0.397

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Grass5km

t = -2.4856, df = 99, p-value = 0.01461

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41800695 -0.04926212

sample estimates:

cor

-0.2423679

> cor.test(test$NHW\_saplings, test$Grass30km) #r is -0.094

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Grass30km

t = -1.2722, df = 99, p-value = 0.2063

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3144711 0.0703566

sample estimates:

cor

-0.1268266

> cor.test(test$NHW\_saplings, test$Schrubs500m) #r is 0.039

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Schrubs500m

t = 0.18628, df = 99, p-value = 0.8526

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1773699 0.2133769

sample estimates:

cor

0.01871823

> cor.test(test$NHW\_saplings, test$Schrubs1km) #r is 0.159

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Schrubs1km

t = 1.403, df = 99, p-value = 0.1637

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05737826 0.32616546

sample estimates:

cor

0.1396268

> cor.test(test$NHW\_saplings, test$Schrubs5km) #r is 0.112

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Schrubs5km

t = 0.97687, df = 99, p-value = 0.331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09963242 0.28765556

sample estimates:

cor

0.09770945

> cor.test(test$NHW\_saplings, test$Schrubs30km) #r is 0.112

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Schrubs30km

t = 0.51082, df = 99, p-value = 0.6106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1456269 0.2442632

sample estimates:

cor

0.05127158

> cor.test(test$NHW\_saplings, test$Water500m) #r is -0.046

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Water500m

t = -0.76298, df = 99, p-value = 0.4473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2678943 0.1207860

sample estimates:

cor

-0.07645817

> cor.test(test$NHW\_saplings, test$Water1km) #r is 0.087

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Water1km

t = 0.22593, df = 99, p-value = 0.8217

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1735077 0.2171771

sample estimates:

cor

0.02270138

> cor.test(test$NHW\_saplings, test$Water5km) #r is -0.126

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Water5km

t = -1.4747, df = 99, p-value = 0.1435

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3325264 0.0502641

sample estimates:

cor

-0.1466154

> cor.test(test$NHW\_saplings, test$Water30km) #r is 0.027

Pearson's product-moment correlation

data: test$NHW\_saplings and test$Water30km

t = 0.70016, df = 99, p-value = 0.4855

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1269864 0.2620394

sample estimates:

cor

0.07019497

> cor.test(test$NHW\_saplings, test$NSoilTypes) #r is 0.178

Pearson's product-moment correlation

data: test$NHW\_saplings and test$NSoilTypes

t = 1.0529, df = 99, p-value = 0.295

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09210499 0.29460888

sample estimates:

cor

0.1052285

> cor.test(test$NHW\_saplings, test$FPSiteIndex) # r is -0.138

Pearson's product-moment correlation

data: test$NHW\_saplings and test$FPSiteIndex

t = -0.88161, df = 91, p-value = 0.3803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2902924 0.1138159

sample estimates:

cor

-0.09202607

> cor.test(test$NHW\_saplings, test$SiteIndexPrimaryS) # r is -0.241

Pearson's product-moment correlation

data: test$NHW\_saplings and test$SiteIndexPrimaryS

t = -1.5463, df = 91, p-value = 0.1255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35223604 0.04517169

sample estimates:

cor

-0.160009

> cor.test(test$NHW\_saplings, test$PISoils) # r is -0.172

Pearson's product-moment correlation

data: test$NHW\_saplings and test$PISoils

t = -2.7333, df = 99, p-value = 0.007428

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43767408 -0.07324619

sample estimates:

cor

-0.2648935

> cor.test(test$NHW\_saplings, test$SISoils) # r is -0.001

Pearson's product-moment correlation

data: test$NHW\_saplings and test$SISoils

t = 1.2228, df = 99, p-value = 0.2243

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07525684 0.31002505

sample estimates:

cor

0.1219765

> cor.test(test$NHW\_saplings, test$HydricSoils) # r is -0.065

Pearson's product-moment correlation

data: test$NHW\_saplings and test$HydricSoils

t = -1.241, df = 99, p-value = 0.2176

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31166369 0.07345296

sample estimates:

cor

-0.123763

> #inserted test of HW\_Shrub(2) layer:

> #basically, this would be a cover-based alternative to the count-based NHW\_saplings layer

> cor.test(test$HW\_shrub, test$Herbicide) # r is -0.366 #ish

Pearson's product-moment correlation

data: test$HW\_shrub and test$Herbicide

t = -3.0999, df = 99, p-value = 0.002521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4658083 -0.1083047

sample estimates:

cor

-0.2974479

> cor.test(test$HW\_shrub, test$LastB) # r is -0.112

Pearson's product-moment correlation

data: test$HW\_shrub and test$LastB

t = -1.1316, df = 77, p-value = 0.2613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33941279 0.09592204

sample estimates:

cor

-0.1279011

> cor.test(test$HW\_shrub, test$LastT) #r is 0.131

Pearson's product-moment correlation

data: test$HW\_shrub and test$LastT

t = 0.68192, df = 94, p-value = 0.497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1321837 0.2668933

sample estimates:

cor

0.07016162

> cor.test(test$HW\_shrub, test$BA) #r is -0.145

Pearson's product-moment correlation

data: test$HW\_shrub and test$BA

t = -1.7969, df = 99, p-value = 0.0754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36063464 0.01835523

sample estimates:

cor

-0.1777216

> cor.test(test$HW\_shrub, test$Nsnags) #r is -0.062

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nsnags

t = -1.2601, df = 99, p-value = 0.2106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31338474 0.07155565

sample estimates:

cor

-0.1256407

> cor.test(test$HW\_shrub, test$Ccover) #r is -0.026

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ccover

t = -0.50182, df = 99, p-value = 0.6169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2434140 0.1465106

sample estimates:

cor

-0.05037099

> cor.test(test$HW\_shrub, test$Ldepth) #r is 0.003

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ldepth

t = -0.34646, df = 99, p-value = 0.7297

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2286833 0.1617400

sample estimates:

cor

-0.0347993

> cor.test(test$HW\_shrub, test$TreeHt) #r is 0.332 #ish

Pearson's product-moment correlation

data: test$HW\_shrub and test$TreeHt

t = 0.79812, df = 99, p-value = 0.4267

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1173152 0.2711593

sample estimates:

cor

0.07995734

> cor.test(test$HW\_shrub, test$Age) #r is 0.139

Pearson's product-moment correlation

data: test$HW\_shrub and test$Age

t = 0.54629, df = 99, p-value = 0.5861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1421410 0.2476075

sample estimates:

cor

0.0548212

> cor.test(test$HW\_shrub, test$Nburns) #r is -0.018

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nburns

t = 0.10621, df = 99, p-value = 0.9156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1851518 0.2056839

sample estimates:

cor

0.01067369

> cor.test(test$HW\_shrub, test$Nthins) #r is -0.036

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nthins

t = -1.1069, df = 99, p-value = 0.271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29953276 0.08674771

sample estimates:

cor

-0.1105661

> cor.test(test$HW\_shrub, test$TimeSinceB) #r is -0.044

Pearson's product-moment correlation

data: test$HW\_shrub and test$TimeSinceB

t = -0.16004, df = 99, p-value = 0.8732

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2108590 0.1799223

sample estimates:

cor

-0.01608246

> cor.test(test$HW\_shrub, test$TimeSinceT) #r is -0.081

Pearson's product-moment correlation

data: test$HW\_shrub and test$TimeSinceT

t = -0.84279, df = 99, p-value = 0.4014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2752995 0.1129002

sample estimates:

cor

-0.08440138

> cor.test(test$HW\_shrub, test$HWdens\_10) #r is 0.382 #ish but wouldnt use

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_10

t = 4.4441, df = 99, p-value = 2.305e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2307747 0.5587268

sample estimates:

cor

0.4078203

> cor.test(test$HW\_shrub, test$HWdens\_50) #r is 0.563 #high - less

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_50

t = 7.8029, df = 99, p-value = 6.331e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4794812 0.7250841

sample estimates:

cor

0.617093

> cor.test(test$HW\_shrub, test$HWdens\_100) #r is 0.778 #highly - but wouldnt use 0.660

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_100

t = 11.459, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6565322 0.8282906

sample estimates:

cor

0.7550848

> cor.test(test$HW\_shrub, test$HW\_dens\_1050) #r is 0.511 #high 0.595

Pearson's product-moment correlation

data: test$HW\_shrub and test$HW\_dens\_1050

t = 6.5907, df = 99, p-value = 2.144e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3999533 0.6748335

sample estimates:

cor

0.5522269

> cor.test(test$HW\_shrub, test$FG\_herb) #r is 0.212 -0.397

Pearson's product-moment correlation

data: test$HW\_shrub and test$FG\_herb

t = 3.3145, df = 99, p-value = 0.001284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1285449 0.4817284

sample estimates:

cor

0.3160443

> cor.test(test$HW\_shrub, test$FG\_shrub) #r is -0.167

Pearson's product-moment correlation

data: test$HW\_shrub and test$FG\_shrub

t = -1.0352, df = 99, p-value = 0.3031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29299983 0.09385083

sample estimates:

cor

-0.1034866

> cor.test(test$HW\_shrub, test$NHW\_saplings) #r is 0.526 #wouldn't include 0.721

Pearson's product-moment correlation

data: test$HW\_shrub and test$NHW\_saplings

t = 8.1643, df = 99, p-value = 1.066e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5009998 0.7382457

sample estimates:

cor

0.6343288

> cor.test(test$HW\_shrub, test$NP\_over\_20cm) #r is -0.096

Pearson's product-moment correlation

data: test$HW\_shrub and test$NP\_over\_20cm

t = -0.38435, df = 99, p-value = 0.7015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2322872 0.1580311

sample estimates:

cor

-0.03860034

> cor.test(test$HW\_shrub, test$Rel\_HW2P\_canopy) #r is 0.442 #high

Pearson's product-moment correlation

data: test$HW\_shrub and test$Rel\_HW2P\_canopy

t = 3.4508, df = 99, p-value = 0.0008231

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1412774 0.4916252

sample estimates:

cor

0.3276694

> cor.test(test$HW\_shrub, test$Rel\_HW2P\_shrubcover) #r is 0.477 #high but scrapped variable 0.510

Pearson's product-moment correlation

data: test$HW\_shrub and test$Rel\_HW2P\_shrubcover

t = 5.6444, df = 99, p-value = 1.583e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3297846 0.6282738

sample estimates:

cor

0.4934214

> cor.test(test$HW\_shrub, test$LCR) #r is -0.328 #ish

Pearson's product-moment correlation

data: test$HW\_shrub and test$LCR

t = -1.2226, df = 98, p-value = 0.2244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31148630 0.07567287

sample estimates:

cor

-0.122567

> cor.test(test$HW\_shrub, test$HW\_dens\_1050) #r is 0.512

Pearson's product-moment correlation

data: test$HW\_shrub and test$HW\_dens\_1050

t = 6.5907, df = 99, p-value = 2.144e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3999533 0.6748335

sample estimates:

cor

0.5522269

> #cor.test(test$HW\_shrub, test$HW\_shrub) #r is

> cor.test(test$HW\_shrub, test$Parea) #r is 0.254

Pearson's product-moment correlation

data: test$HW\_shrub and test$Parea

t = 1.8703, df = 99, p-value = 0.0644

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01110383 0.36692776

sample estimates:

cor

0.1847363

> cor.test(test$HW\_shrub, test$ShapeIndex) #r is 0.205

Pearson's product-moment correlation

data: test$HW\_shrub and test$ShapeIndex

t = 1.2602, df = 99, p-value = 0.2106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07154513 0.31339427

sample estimates:

cor

0.1256511

> cor.test(test$HW\_shrub, test$PAratio) #r is -0.186

Pearson's product-moment correlation

data: test$HW\_shrub and test$PAratio

t = -1.4636, df = 99, p-value = 0.1465

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33153977 0.05137008

sample estimates:

cor

-0.1455303

> cor.test(test$HW\_shrub, test$FracDimIndex) #r is 0.150

Pearson's product-moment correlation

data: test$HW\_shrub and test$FracDimIndex

t = 0.88494, df = 99, p-value = 0.3783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1087315 0.2791956

sample estimates:

cor

0.08859035

> cor.test(test$HW\_shrub, test$CoreAreaIndex) #r is 0.203

Pearson's product-moment correlation

data: test$HW\_shrub and test$CoreAreaIndex

t = 1.6593, df = 99, p-value = 0.1002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03196824 0.34872666

sample estimates:

cor

0.1644988

> cor.test(test$HW\_shrub, test$Ag500m) #r is -0.113

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag500m

t = -1.7039, df = 99, p-value = 0.09153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35260088 0.02755474

sample estimates:

cor

-0.1687935

> cor.test(test$HW\_shrub, test$Ag1km) #r is -0.210

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag1km

t = -2.3742, df = 99, p-value = 0.01951

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40899042 -0.03840682

sample estimates:

cor

-0.2321039

> cor.test(test$HW\_shrub, test$Ag5km) #r is -0.165 -0.4

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag5km

t = -2.9698, df = 99, p-value = 0.003739

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45596097 -0.09593177

sample estimates:

cor

-0.2860087

> cor.test(test$HW\_shrub, test$Ag30km) #r is -0.233 -0.4

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag30km

t = -3.6431, df = 99, p-value = 0.0004311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5053043 -0.1590689

sample estimates:

cor

-0.3438194

> cor.test(test$HW\_shrub, test$Evergreen500m) #r is 0.108

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen500m

t = 0.66939, df = 99, p-value = 0.5048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1300204 0.2591640

sample estimates:

cor

0.06712462

> cor.test(test$HW\_shrub, test$Evergreen1km) #r is 0.096

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen1km

t = 1.2554, df = 99, p-value = 0.2123

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07201984 0.31296391

sample estimates:

cor

0.1251814

> cor.test(test$HW\_shrub, test$Evergreen5km) #r is 0.190 0.445

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen5km

t = 3.3156, df = 99, p-value = 0.001279

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1286511 0.4818113

sample estimates:

cor

0.3161415

> cor.test(test$HW\_shrub, test$Evergreen30km) #r is 0.154 0.278

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen30km

t = 2.3288, df = 99, p-value = 0.0219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03396746 0.40528208

sample estimates:

cor

0.2278938

> cor.test(test$HW\_shrub, test$Imperv500m) #r is -0.038

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv500m

t = 0.30414, df = 99, p-value = 0.7617

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1658769 0.2246507

sample estimates:

cor

0.03055283

> cor.test(test$HW\_shrub, test$Imperv1km) #r is -0.175

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv1km

t = -2.1024, df = 99, p-value = 0.03805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38655770 -0.01177358

sample estimates:

cor

-0.2067371

> cor.test(test$HW\_shrub, test$Imperv5km) #r is -0.284

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv5km

t = -2.6207, df = 99, p-value = 0.01016

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42879981 -0.06237158

sample estimates:

cor

-0.254706

> cor.test(test$HW\_shrub, test$Imperv30km) #r is -0.167

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv30km

t = -1.7349, df = 99, p-value = 0.08587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35528307 0.02449049

sample estimates:

cor

-0.1717709

> cor.test(test$HW\_shrub, test$Protected30km) #r is 0.195 0.331

Pearson's product-moment correlation

data: test$HW\_shrub and test$Protected30km

t = 2.6515, df = 99, p-value = 0.009333

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06534744 0.43123533

sample estimates:

cor

0.2574981

> cor.test(test$HW\_shrub, test$HighDev500m) #r is 0.043

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev500m

t = 1.2622, df = 99, p-value = 0.2098

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07134405 0.31357652

sample estimates:

cor

0.12585

> cor.test(test$HW\_shrub, test$HighDev1km) #r is -0.181

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev1km

t = -2.0511, df = 99, p-value = 0.0429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.382251755 -0.006721453

sample estimates:

cor

-0.2018955

> cor.test(test$HW\_shrub, test$HighDev5km) #r is -0.278

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev5km

t = -2.5241, df = 99, p-value = 0.01319

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42109639 -0.05300175

sample estimates:

cor

-0.2458939

> cor.test(test$HW\_shrub, test$HighDev30km) #r is 0.117

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev30km

t = 2.0896, df = 99, p-value = 0.03922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0105075 0.3854802

sample estimates:

cor

0.2055247

> cor.test(test$HW\_shrub, test$LowDev500m) #r is -0.104

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev500m

t = -1.3693, df = 99, p-value = 0.174

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32315985 0.06072628

sample estimates:

cor

-0.136331

> cor.test(test$HW\_shrub, test$LowDev1km) #r is -0.283

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev1km

t = -2.9362, df = 99, p-value = 0.004132

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45338887 -0.09271822

sample estimates:

cor

-0.2830288

> cor.test(test$HW\_shrub, test$LowDev5km) #r is -0.321

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev5km

t = -3.3766, df = 99, p-value = 0.00105

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4862578 -0.1343577

sample estimates:

cor

-0.3213585

> cor.test(test$HW\_shrub, test$LowDev30km) #r is -0.175

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev30km

t = -2.0744, df = 99, p-value = 0.04064

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384207710 -0.009013979

sample estimates:

cor

-0.2040937

> cor.test(test$HW\_shrub, test$OpenDev500m) #r is -0.303

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev500m

t = -3.4049, df = 99, p-value = 0.0009571

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4883159 -0.1370070

sample estimates:

cor

-0.3237766

> cor.test(test$HW\_shrub, test$OpenDev1km) #r is -0.457

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev1km

t = -4.6568, df = 99, p-value = 9.999e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5719500 -0.2490911

sample estimates:

cor

-0.4238942

> cor.test(test$HW\_shrub, test$OpenDev5km) #r is -0.387

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev5km

t = -3.7243, df = 99, p-value = 0.0003257

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5109868 -0.1665264

sample estimates:

cor

-0.3505565

> cor.test(test$HW\_shrub, test$OpenDev30km) #r is -0.271

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev30km

t = -3.2787, df = 99, p-value = 0.001439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4791052 -0.1251895

sample estimates:

cor

-0.3129713

> cor.test(test$HW\_shrub, test$Grass500m) #r is -0.318

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass500m

t = -2.3379, df = 99, p-value = 0.02141

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40602418 -0.03485468

sample estimates:

cor

-0.2287358

> cor.test(test$HW\_shrub, test$Grass1km) #r is -0.143

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass1km

t = -0.72844, df = 99, p-value = 0.4681

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2646776 0.1241962

sample estimates:

cor

-0.07301532

> cor.test(test$HW\_shrub, test$Grass5km) #r is -0.071

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass5km

t = -1.9225, df = 99, p-value = 0.05742

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.371379752 0.005949804

sample estimates:

cor

-0.1897101

> cor.test(test$HW\_shrub, test$Grass30km) #r is -0.031

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass30km

t = -1.254, df = 99, p-value = 0.2128

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31283770 0.07215901

sample estimates:

cor

-0.1250437

> cor.test(test$HW\_shrub, test$Schrubs500m) #r is 0.070

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs500m

t = 1.716, df = 99, p-value = 0.08929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02635902 0.35364826

sample estimates:

cor

0.1699558

> cor.test(test$HW\_shrub, test$Schrubs1km) #r is 0.021

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs1km

t = 1.6857, df = 99, p-value = 0.09501

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02935999 0.35101778

sample estimates:

cor

0.1670378

> cor.test(test$HW\_shrub, test$Schrubs5km) #r is 0.127

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs5km

t = 2.3273, df = 99, p-value = 0.02199

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03381996 0.40515865

sample estimates:

cor

0.2277538

> cor.test(test$HW\_shrub, test$Schrubs30km) #r is 0.189

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs30km

t = 2.2566, df = 99, p-value = 0.02623

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02690672 0.39935873

sample estimates:

cor

0.2211829

> cor.test(test$HW\_shrub, test$Water500m) #r is -0.062

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water500m

t = -0.53321, df = 99, p-value = 0.5951

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2463758 0.1434260

sample estimates:

cor

-0.05351325

> cor.test(test$HW\_shrub, test$Water1km) #r is -0.087

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water1km

t = -0.31142, df = 99, p-value = 0.7561

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2253452 0.1651653

sample estimates:

cor

-0.03128376

> cor.test(test$HW\_shrub, test$Water5km) #r is -0.211

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water5km

t = -1.2397, df = 99, p-value = 0.218

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31154808 0.07358031

sample estimates:

cor

-0.1236369

> cor.test(test$HW\_shrub, test$Water30km) #r is -0.014

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water30km

t = 0.33276, df = 99, p-value = 0.74

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1630794 0.2273791

sample estimates:

cor

0.03342519

> cor.test(test$HW\_shrub, test$NSoilTypes) #r is 0.252

Pearson's product-moment correlation

data: test$HW\_shrub and test$NSoilTypes

t = 1.0296, df = 99, p-value = 0.3057

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0944085 0.2924854

sample estimates:

cor

0.1029299

> cor.test(test$HW\_shrub, test$FPSiteIndex) # r is 0.087

Pearson's product-moment correlation

data: test$HW\_shrub and test$FPSiteIndex

t = 1.0345, df = 91, p-value = 0.3037

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0980523 0.3048232

sample estimates:

cor

0.1078094

> cor.test(test$HW\_shrub, test$SiteIndexPrimaryS) # r is 0.052

Pearson's product-moment correlation

data: test$HW\_shrub and test$SiteIndexPrimaryS

t = 0.65046, df = 91, p-value = 0.517

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1375865 0.2680224

sample estimates:

cor

0.06802839

> cor.test(test$HW\_shrub, test$PISoils) # r is -0.187

Pearson's product-moment correlation

data: test$HW\_shrub and test$PISoils

t = -1.4988, df = 99, p-value = 0.1371

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33465415 0.04787564

sample estimates:

cor

-0.1489574

> cor.test(test$HW\_shrub, test$SISoils) # r is -0.034

Pearson's product-moment correlation

data: test$HW\_shrub and test$SISoils

t = 0.30596, df = 99, p-value = 0.7603

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1656988 0.2248245

sample estimates:

cor

0.0307358

> cor.test(test$HW\_shrub, test$HydricSoils) # r is 0.078

Pearson's product-moment correlation

data: test$HW\_shrub and test$HydricSoils

t = 0.14088, df = 99, p-value = 0.8883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1817848 0.2090184

sample estimates:

cor

0.01415748

> #NP\_over\_20cm by each

> #cor.test(test$NP\_over\_20cm, test$Treatment) #non-numeric

> cor.test(test$NP\_over\_20cm, test$Herbicide) # r is 0.192

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Herbicide

t = -0.0055286, df = 99, p-value = 0.9956

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1959736 0.1949048

sample estimates:

cor

-0.0005556421

> cor.test(test$NP\_over\_20cm, test$LastB) # r is -0.067

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LastB

t = 0.33239, df = 77, p-value = 0.7405

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1848052 0.2568129

sample estimates:

cor

0.03785188

> cor.test(test$NP\_over\_20cm, test$LastT) #r is 0.104

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LastT

t = 0.95923, df = 94, p-value = 0.3399

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1040840 0.2931558

sample estimates:

cor

0.09845648

> cor.test(test$NP\_over\_20cm, test$BA) #r is 0.608 #high - yep

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$BA

t = 5.4478, df = 99, p-value = 3.729e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3143161 0.6177139

sample estimates:

cor

0.4802536

> cor.test(test$NP\_over\_20cm, test$Nsnags) #r is 0.18

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Nsnags

t = 1.7579, df = 99, p-value = 0.08186

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02221368 0.35727196

sample estimates:

cor

0.1739809

> cor.test(test$NP\_over\_20cm, test$Ccover) #r is 0.508 #high .3 now

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ccover

t = 4.0047, df = 99, p-value = 0.0001202

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1919487 0.5301345

sample estimates:

cor

0.3733808

> cor.test(test$NP\_over\_20cm, test$Ldepth) #r is 0.174

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ldepth

t = 0.68397, df = 99, p-value = 0.4956

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1285830 0.2605271

sample estimates:

cor

0.06857972

> cor.test(test$NP\_over\_20cm, test$TreeHt) #r is -0.187

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$TreeHt

t = -2.8773, df = 99, p-value = 0.004913

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44886921 -0.08708955

sample estimates:

cor

-0.2778005

> cor.test(test$NP\_over\_20cm, test$Age) #r is -0.487 #high

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Age

t = -4.2907, df = 99, p-value = 4.151e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5489389 -0.2173650

sample estimates:

cor

-0.3959823

> cor.test(test$NP\_over\_20cm, test$Nburns) #r is -0.332 #high-ISH

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Nburns

t = -2.544, df = 99, p-value = 0.01251

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42268859 -0.05493307

sample estimates:

cor

-0.2477129

> cor.test(test$NP\_over\_20cm, test$Nthins) #r is -0.374 #high-ISH

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Nthins

t = -4.1097, df = 99, p-value = 8.177e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5371229 -0.2013417

sample estimates:

cor

-0.3817587

> cor.test(test$NP\_over\_20cm, test$TimeSinceB) #r is 0.317 #high-ISH

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$TimeSinceB

t = 1.4704, df = 99, p-value = 0.1446

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0506913 0.3321454

sample estimates:

cor

0.1461963

> cor.test(test$NP\_over\_20cm, test$TimeSinceT) #r is -0.029

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$TimeSinceT

t = -0.54413, df = 99, p-value = 0.5876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474042 0.1423532

sample estimates:

cor

-0.05460526

> cor.test(test$NP\_over\_20cm, test$HWdens\_10) #r is -0.278

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HWdens\_10

t = -2.7437, df = 99, p-value = 0.007213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43848848 -0.07424853

sample estimates:

cor

-0.2658303

> cor.test(test$NP\_over\_20cm, test$HWdens\_50) #r is -0.285

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HWdens\_50

t = -1.5992, df = 99, p-value = 0.113

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34347723 0.03792477

sample estimates:

cor

-0.1586907

> cor.test(test$NP\_over\_20cm, test$HWdens\_100) #r is -0.218

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HWdens\_100

t = -1.3375, df = 99, p-value = 0.1841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32032682 0.06387418

sample estimates:

cor

-0.1332282

> cor.test(test$NP\_over\_20cm, test$FG\_herb) #r is -0.206

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$FG\_herb

t = -0.8994, df = 99, p-value = 0.3706

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2805294 0.1073013

sample estimates:

cor

-0.09002589

> cor.test(test$NP\_over\_20cm, test$FG\_shrub) #r is 0.054

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$FG\_shrub

t = 0.38903, df = 99, p-value = 0.6981

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1575737 0.2327310

sample estimates:

cor

0.03906873

> cor.test(test$NP\_over\_20cm, test$NHW\_saplings) #r is -0.187

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$NHW\_saplings

t = -1.6853, df = 99, p-value = 0.09508

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3509836 0.0293990

sample estimates:

cor

-0.1669998

> #cor.test(test$NP\_over\_20cm, test$NP\_over\_20cm) #r is

> cor.test(test$NP\_over\_20cm, test$Rel\_HW2P\_canopy) #r is 0.027

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Rel\_HW2P\_canopy

t = 0.65457, df = 99, p-value = 0.5143

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1314811 0.2577771

sample estimates:

cor

0.06564499

> cor.test(test$NP\_over\_20cm, test$Rel\_HW2P\_shrubcover) #r is -0.213

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Rel\_HW2P\_shrubcover

t = -1.3761, df = 99, p-value = 0.1719

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32377236 0.06004469

sample estimates:

cor

-0.1370023

> cor.test(test$NP\_over\_20cm, test$LCR) #r is -0.021

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LCR

t = -2.1233, df = 98, p-value = 0.03625

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39006458 -0.01386692

sample estimates:

cor

-0.2097138

> cor.test(test$NP\_over\_20cm, test$HW\_dens\_1050) #r is -0.308

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HW\_dens\_1050

t = -2.3166, df = 99, p-value = 0.02259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40428183 -0.03277255

sample estimates:

cor

-0.2267594

> cor.test(test$NP\_over\_20cm, test$HW\_shrub) #r is -0.097

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HW\_shrub

t = -0.38435, df = 99, p-value = 0.7015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2322872 0.1580311

sample estimates:

cor

-0.03860034

> cor.test(test$NP\_over\_20cm, test$Parea) #r is 0.244

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Parea

t = 1.6428, df = 99, p-value = 0.1036

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03361089 0.34728139

sample estimates:

cor

0.1628984

> cor.test(test$NP\_over\_20cm, test$ShapeIndex) #r is 0.016

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$ShapeIndex

t = -1.0725, df = 99, p-value = 0.2861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2963977 0.0901613

sample estimates:

cor

-0.1071663

> cor.test(test$NP\_over\_20cm, test$PAratio) #r is -0.130

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$PAratio

t = -1.1025, df = 99, p-value = 0.2729

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29912835 0.08718855

sample estimates:

cor

-0.1101273

> cor.test(test$NP\_over\_20cm, test$FracDimIndex) #r is -0.034

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$FracDimIndex

t = -1.4287, df = 99, p-value = 0.1562

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32845120 0.05482632

sample estimates:

cor

-0.142136

> cor.test(test$NP\_over\_20cm, test$CoreAreaIndex) #r is 0.210

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$CoreAreaIndex

t = 1.3842, df = 99, p-value = 0.1694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05924925 0.32448678

sample estimates:

cor

0.1377855

> cor.test(test$NP\_over\_20cm, test$Ag500m) #r is 0.192

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ag500m

t = 0.75953, df = 99, p-value = 0.4493

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1211268 0.2675733

sample estimates:

cor

0.07611436

> cor.test(test$NP\_over\_20cm, test$Ag1km) #r is 0.340

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ag1km

t = 2.1947, df = 99, p-value = 0.03052

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02083334 0.39423868

sample estimates:

cor

0.2153956

> cor.test(test$NP\_over\_20cm, test$Ag5km) #r is 0.345

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ag5km

t = 2.2216, df = 99, p-value = 0.02859

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0234722 0.3964662

sample estimates:

cor

0.2179118

> cor.test(test$NP\_over\_20cm, test$Ag30km) #r is 0.379

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Ag30km

t = 2.1393, df = 99, p-value = 0.03487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01539284 0.38963241

sample estimates:

cor

0.2101997

> cor.test(test$NP\_over\_20cm, test$Evergreen500m) #r is -0.294

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Evergreen500m

t = -2.1792, df = 99, p-value = 0.03169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39295863 -0.01931924

sample estimates:

cor

-0.2139507

> cor.test(test$NP\_over\_20cm, test$Evergreen1km) #r is -0.402

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Evergreen1km

t = -2.944, df = 99, p-value = 0.004038

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45398748 -0.09346545

sample estimates:

cor

-0.283722

> cor.test(test$NP\_over\_20cm, test$Evergreen5km) #r is -0.394

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Evergreen5km

t = -2.8283, df = 99, p-value = 0.005664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44507979 -0.08238804

sample estimates:

cor

-0.2734247

> cor.test(test$NP\_over\_20cm, test$Evergreen30km) #r is -0.249

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Evergreen30km

t = -0.45583, df = 99, p-value = 0.6495

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2390654 0.1510257

sample estimates:

cor

-0.04576433

> cor.test(test$NP\_over\_20cm, test$Imperv500m) #r is -0.114

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Imperv500m

t = -1.9256, df = 99, p-value = 0.05703

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.371639312 0.005648693

sample estimates:

cor

-0.1900003

> cor.test(test$NP\_over\_20cm, test$Imperv1km) #r is -0.078

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Imperv1km

t = -0.73978, df = 99, p-value = 0.4612

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2657342 0.1230770

sample estimates:

cor

-0.07414572

> cor.test(test$NP\_over\_20cm, test$Imperv5km) #r is 0.313

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Imperv5km

t = 2.3418, df = 99, p-value = 0.02119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03524089 0.40634707

sample estimates:

cor

0.2291022

> cor.test(test$NP\_over\_20cm, test$Imperv30km) #r is 0.121

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Imperv30km

t = 0.52508, df = 99, p-value = 0.6007

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1442255 0.2456088

sample estimates:

cor

0.05269918

> cor.test(test$NP\_over\_20cm, test$Protected30km) #r is -0.290

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Protected30km

t = -2.0105, df = 99, p-value = 0.0471

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.378833965 -0.002724999

sample estimates:

cor

-0.1980588

> cor.test(test$NP\_over\_20cm, test$HighDev500m) #r is 0.021

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HighDev500m

t = -0.58614, df = 99, p-value = 0.5591

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2513573 0.1382209

sample estimates:

cor

-0.05880693

> cor.test(test$NP\_over\_20cm, test$HighDev1km) #r is -0.051

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HighDev1km

t = -0.49541, df = 99, p-value = 0.6214

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2428087 0.1471400

sample estimates:

cor

-0.04972934

> cor.test(test$NP\_over\_20cm, test$HighDev5km) #r is 0.313

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HighDev5km

t = 2.32, df = 99, p-value = 0.02239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03310682 0.40456174

sample estimates:

cor

0.2270768

> cor.test(test$NP\_over\_20cm, test$HighDev30km) #r is -0.371

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HighDev30km

t = -2.6027, df = 99, p-value = 0.01067

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42736578 -0.06062242

sample estimates:

cor

-0.2530634

> cor.test(test$NP\_over\_20cm, test$LowDev500m) #r is -0.171

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LowDev500m

t = -1.8619, df = 99, p-value = 0.06558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36621017 0.01193271

sample estimates:

cor

-0.1839355

> cor.test(test$NP\_over\_20cm, test$LowDev1km) #r is -0.007

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LowDev1km

t = -0.26884, df = 99, p-value = 0.7886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2212810 0.1693233

sample estimates:

cor

-0.02700979

> cor.test(test$NP\_over\_20cm, test$LowDev5km) #r is 0.373

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LowDev5km

t = 2.9983, df = 99, p-value = 0.003433

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09864937 0.45813142

sample estimates:

cor

0.2885259

> cor.test(test$NP\_over\_20cm, test$LowDev30km) #r is 0.147

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$LowDev30km

t = 0.66065, df = 99, p-value = 0.5104

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1308821 0.2583460

sample estimates:

cor

0.06625182

> cor.test(test$NP\_over\_20cm, test$OpenDev500m) #r is -0.085

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$OpenDev500m

t = -0.45086, df = 99, p-value = 0.6531

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2385954 0.1515128

sample estimates:

cor

-0.04526693

> cor.test(test$NP\_over\_20cm, test$OpenDev1km) #r is -0.038

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$OpenDev1km

t = 0.31183, df = 99, p-value = 0.7558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1651253 0.2253843

sample estimates:

cor

0.03132489

> cor.test(test$NP\_over\_20cm, test$OpenDev5km) #r is -0.303

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$OpenDev5km

t = 3.0272, df = 99, p-value = 0.003146

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1014054 0.4603282

sample estimates:

cor

0.2910759

> cor.test(test$NP\_over\_20cm, test$OpenDev30km) #r is 0.324

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$OpenDev30km

t = 2.1589, df = 99, p-value = 0.03327

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01732156 0.39126753

sample estimates:

cor

0.212043

> cor.test(test$NP\_over\_20cm, test$Grass500m) #r is 0.013

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Grass500m

t = 1.2157, df = 99, p-value = 0.227

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07595515 0.30939009

sample estimates:

cor

0.1212845

> cor.test(test$NP\_over\_20cm, test$Grass1km) #r is 0.147

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Grass1km

t = 1.475, df = 99, p-value = 0.1434

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05023951 0.33254829

sample estimates:

cor

0.1466396

> cor.test(test$NP\_over\_20cm, test$Grass5km) #r is 0.350

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Grass5km

t = 2.3368, df = 99, p-value = 0.02146

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0347508 0.4059373

sample estimates:

cor

0.2286372

> cor.test(test$NP\_over\_20cm, test$Grass30km) #r is 0.501

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Grass30km

t = 3.0589, df = 99, p-value = 0.002858

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1044109 0.4627188

sample estimates:

cor

0.2938538

> cor.test(test$NP\_over\_20cm, test$Schrubs500m) #r is -0.115

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Schrubs500m

t = -1.0684, df = 99, p-value = 0.2879

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29602696 0.09056439

sample estimates:

cor

-0.1067646

> cor.test(test$NP\_over\_20cm, test$Schrubs1km) #r is -0.172

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Schrubs1km

t = -1.2695, df = 99, p-value = 0.2072

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31422785 0.07062517

sample estimates:

cor

-0.126561

> cor.test(test$NP\_over\_20cm, test$Schrubs5km) #r is -0.177

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Schrubs5km

t = -0.64485, df = 99, p-value = 0.5205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2568670 0.1324388

sample estimates:

cor

-0.06467451

> cor.test(test$NP\_over\_20cm, test$Schrubs30km) #r is -0.223

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Schrubs30km

t = -1.2622, df = 99, p-value = 0.2099

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31356991 0.07135135

sample estimates:

cor

-0.1258428

> cor.test(test$NP\_over\_20cm, test$Water500m) #r is -0.158

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Water500m

t = -1.6467, df = 99, p-value = 0.1028

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34762278 0.03322306

sample estimates:

cor

-0.1632764

> cor.test(test$NP\_over\_20cm, test$Water1km) #r is -0.122

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Water1km

t = -0.79703, df = 99, p-value = 0.4273

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2710578 0.1174232

sample estimates:

cor

-0.07984852

> cor.test(test$NP\_over\_20cm, test$Water5km) #r is 0.152

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Water5km

t = 2.0359, df = 99, p-value = 0.04443

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.005231051 0.380978354

sample estimates:

cor

0.2004654

> cor.test(test$NP\_over\_20cm, test$Water30km) #r is -0.132

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$Water30km

t = -1.0998, df = 99, p-value = 0.2741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29889090 0.08744733

sample estimates:

cor

-0.1098697

> cor.test(test$NP\_over\_20cm, test$NSoilTypes) #r is 0.030

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$NSoilTypes

t = -0.23991, df = 99, p-value = 0.8109

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2185145 0.1721456

sample estimates:

cor

-0.02410467

> cor.test(test$NP\_over\_20cm, test$FPSiteIndex) # r is -0.027

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$FPSiteIndex

t = -1.0457, df = 91, p-value = 0.2985

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30588377 0.09689381

sample estimates:

cor

-0.1089652

> cor.test(test$NP\_over\_20cm, test$SiteIndexPrimaryS) # r is 0.104

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$SiteIndexPrimaryS

t = 0.32495, df = 91, p-value = 0.746

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1708489 0.2361150

sample estimates:

cor

0.03404418

> cor.test(test$NP\_over\_20cm, test$PISoils) # r is 0.033

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$PISoils

t = 0.2191, df = 99, p-value = 0.827

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1741732 0.2165231

sample estimates:

cor

0.02201551

> cor.test(test$NP\_over\_20cm, test$SISoils) # r is -0.043

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$SISoils

t = -0.27763, df = 99, p-value = 0.7819

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2221208 0.1684653

sample estimates:

cor

-0.02789233

> cor.test(test$NP\_over\_20cm, test$HydricSoils) # r is 0.267

Pearson's product-moment correlation

data: test$NP\_over\_20cm and test$HydricSoils

t = 1.3304, df = 99, p-value = 0.1864

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06458095 0.31968980

sample estimates:

cor

0.1325311

> #Rel\_HW2P\_canopy by each

> #cor.test(test$Rel\_HW2P\_canopy, test$Treatment) #non-numeric

> cor.test(test$Rel\_HW2P\_canopy, test$Herbicide) # r is -0.390

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Herbicide

t = -2.4266, df = 99, p-value = 0.01705

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41324071 -0.04351301

sample estimates:

cor

-0.2369373

> cor.test(test$Rel\_HW2P\_canopy, test$LastB) # r is -0.232

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LastB

t = -0.59719, df = 77, p-value = 0.5521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2847343 0.1555470

sample estimates:

cor

-0.06789861

> cor.test(test$Rel\_HW2P\_canopy, test$LastT) #r is 0.040

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LastT

t = -0.47069, df = 94, p-value = 0.639

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2465795 0.1534874

sample estimates:

cor

-0.04849071

> cor.test(test$Rel\_HW2P\_canopy, test$BA) #r is 0.213

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$BA

t = 3.016, df = 99, p-value = 0.003255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1003332 0.4594741

sample estimates:

cor

0.2900842

> cor.test(test$Rel\_HW2P\_canopy, test$Nsnags) #r is -0.021

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Nsnags

t = -0.088674, df = 99, p-value = 0.9295

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2039957 0.1868530

sample estimates:

cor

-0.008911718

> cor.test(test$Rel\_HW2P\_canopy, test$Ccover) #r is 0.258

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ccover

t = 3.3672, df = 99, p-value = 0.001083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1334777 0.4855733

sample estimates:

cor

0.3205547

> cor.test(test$Rel\_HW2P\_canopy, test$Ldepth) #r is 0.183

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ldepth

t = 1.08, df = 99, p-value = 0.2828

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0894122 0.2970864

sample estimates:

cor

0.1079128

> cor.test(test$Rel\_HW2P\_canopy, test$TreeHt) #r is 0.252

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$TreeHt

t = 1.8042, df = 99, p-value = 0.07425

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01763814 0.36125851

sample estimates:

cor

0.1784162

> cor.test(test$Rel\_HW2P\_canopy, test$Age) #r is -0.020

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Age

t = 0.022039, df = 99, p-value = 0.9825

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1933079 0.1975688

sample estimates:

cor

0.002215023

> cor.test(test$Rel\_HW2P\_canopy, test$Nburns) #r is -0.402 #high-ISH

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Nburns

t = -3.7553, df = 99, p-value = 0.0002924

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5131352 -0.1693562

sample estimates:

cor

-0.353108

> cor.test(test$Rel\_HW2P\_canopy, test$Nthins) #r is -0.202

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Nthins

t = -2.5017, df = 99, p-value = 0.014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41929491 -0.05081989

sample estimates:

cor

-0.2438373

> cor.test(test$Rel\_HW2P\_canopy, test$TimeSinceB) #r is 0.419 #high-ISH

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$TimeSinceB

t = 3.5987, df = 99, p-value = 0.0005015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1549809 0.5021766

sample estimates:

cor

0.3401182

> cor.test(test$Rel\_HW2P\_canopy, test$TimeSinceT) #r is 0.164

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$TimeSinceT

t = 1.3648, df = 99, p-value = 0.1754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0611731 0.3227581

sample estimates:

cor

0.1358908

> cor.test(test$Rel\_HW2P\_canopy, test$HWdens\_10) #r is 0.046

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HWdens\_10

t = 0.099176, df = 99, p-value = 0.9212

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1858342 0.2050070

sample estimates:

cor

0.009967042

> cor.test(test$Rel\_HW2P\_canopy, test$HWdens\_50) #r is -0.003

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HWdens\_50

t = -0.59771, df = 99, p-value = 0.5514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2524449 0.1370817

sample estimates:

cor

-0.0599641

> cor.test(test$Rel\_HW2P\_canopy, test$HWdens\_100) #r is 0.088

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HWdens\_100

t = 1.1125, df = 99, p-value = 0.2686

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08619799 0.30003684

sample estimates:

cor

0.1111131

> cor.test(test$Rel\_HW2P\_canopy, test$FG\_herb) #r is -0.268

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$FG\_herb

t = -1.9357, df = 99, p-value = 0.05575

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.372504463 0.004644555

sample estimates:

cor

-0.1909681

> cor.test(test$Rel\_HW2P\_canopy, test$FG\_shrub) #r is -0.123

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$FG\_shrub

t = -1.3745, df = 99, p-value = 0.1724

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32363046 0.06020262

sample estimates:

cor

-0.1368468

> cor.test(test$Rel\_HW2P\_canopy, test$NHW\_saplings) #r is 0.501 #high

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$NHW\_saplings

t = 4.4215, df = 99, p-value = 2.516e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2288053 0.5572950

sample estimates:

cor

0.4060854

> cor.test(test$Rel\_HW2P\_canopy, test$NP\_over\_20cm) #r is 0.027

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$NP\_over\_20cm

t = 0.65457, df = 99, p-value = 0.5143

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1314811 0.2577771

sample estimates:

cor

0.06564499

> #cor.test(test$Rel\_HW2P\_canopy, test$Rel\_HW2P\_canopy) #r is

> cor.test(test$Rel\_HW2P\_canopy, test$Rel\_HW2P\_shrubcover) #r is 0.290

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Rel\_HW2P\_shrubcover

t = 1.625, df = 99, p-value = 0.1073

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03537321 0.34572881

sample estimates:

cor

0.1611803

> cor.test(test$Rel\_HW2P\_canopy, test$LCR) #r is -0.120

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LCR

t = -0.42827, df = 98, p-value = 0.6694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2376218 0.1545088

sample estimates:

cor

-0.04322099

> cor.test(test$Rel\_HW2P\_canopy, test$HW\_dens\_1050) #r is 0.022

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HW\_dens\_1050

t = -0.28361, df = 99, p-value = 0.7773

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2226913 0.1678821

sample estimates:

cor

-0.02849206

> cor.test(test$Rel\_HW2P\_canopy, test$HW\_shrub) #r is 0.442

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HW\_shrub

t = 3.4508, df = 99, p-value = 0.0008231

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1412774 0.4916252

sample estimates:

cor

0.3276694

> cor.test(test$Rel\_HW2P\_canopy, test$Parea) #r is 0.264

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Parea

t = 2.043, df = 99, p-value = 0.04371

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.00592984 0.38157558

sample estimates:

cor

0.201136

> cor.test(test$Rel\_HW2P\_canopy, test$ShapeIndex) #r is 0.118

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$ShapeIndex

t = 0.056513, df = 99, p-value = 0.955

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1899704 0.2008960

sample estimates:

cor

0.005679701

> cor.test(test$Rel\_HW2P\_canopy, test$PAratio) #r is -0.289

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$PAratio

t = -2.2175, df = 99, p-value = 0.02888

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39612441 -0.02306699

sample estimates:

cor

-0.2175256

> cor.test(test$Rel\_HW2P\_canopy, test$FracDimIndex) #r is 0.046

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$FracDimIndex

t = -0.39612, df = 99, p-value = 0.6929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2334050 0.1568786

sample estimates:

cor

-0.03978034

> cor.test(test$Rel\_HW2P\_canopy, test$CoreAreaIndex) #r is 0.240

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$CoreAreaIndex

t = 1.9484, df = 99, p-value = 0.0542

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.003393921 0.373581075

sample estimates:

cor

0.1921728

> cor.test(test$Rel\_HW2P\_canopy, test$Ag500m) #r is -0.053

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ag500m

t = -0.52747, df = 99, p-value = 0.599

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2458343 0.1439905

sample estimates:

cor

-0.0529385

> cor.test(test$Rel\_HW2P\_canopy, test$Ag1km) #r is -0.214

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ag1km

t = -1.8809, df = 99, p-value = 0.06292

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36783348 0.01005692

sample estimates:

cor

-0.1857474

> cor.test(test$Rel\_HW2P\_canopy, test$Ag5km) #r is -0.104

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ag5km

t = -1.8689, df = 99, p-value = 0.06459

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36681128 0.01123842

sample estimates:

cor

-0.1846063

> cor.test(test$Rel\_HW2P\_canopy, test$Ag30km) #r is 0.072

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Ag30km

t = -0.45566, df = 99, p-value = 0.6496

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2390493 0.1510424

sample estimates:

cor

-0.04574734

> cor.test(test$Rel\_HW2P\_canopy, test$Evergreen500m) #r is -0.083

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Evergreen500m

t = -1.0138, df = 99, p-value = 0.3131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29104367 0.09597011

sample estimates:

cor

-0.1013705

> cor.test(test$Rel\_HW2P\_canopy, test$Evergreen1km) #r is -0.184

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Evergreen1km

t = -1.5426, df = 99, p-value = 0.1261

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3385058 0.0435410

sample estimates:

cor

-0.153202

> cor.test(test$Rel\_HW2P\_canopy, test$Evergreen5km) #r is -0.075

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Evergreen5km

t = -0.074525, df = 99, p-value = 0.9407

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2026325 0.1882250

sample estimates:

cor

-0.007489802

> cor.test(test$Rel\_HW2P\_canopy, test$Evergreen30km) #r is -0.042

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Evergreen30km

t = -0.19737, df = 99, p-value = 0.8439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2144405 0.1762902

sample estimates:

cor

-0.01983239

> cor.test(test$Rel\_HW2P\_canopy, test$Imperv500m) #r is 0.149

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Imperv500m

t = 2.5666, df = 99, p-value = 0.01177

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0571280 0.4244954

sample estimates:

cor

0.2497785

> cor.test(test$Rel\_HW2P\_canopy, test$Imperv1km) #r is -0.087

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Imperv1km

t = -1.0483, df = 99, p-value = 0.2971

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29419289 0.09255658

sample estimates:

cor

-0.104778

> cor.test(test$Rel\_HW2P\_canopy, test$Imperv5km) #r is -0.130

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Imperv5km

t = -1.4193, df = 99, p-value = 0.159

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32761189 0.05576395

sample estimates:

cor

-0.1412143

> cor.test(test$Rel\_HW2P\_canopy, test$Imperv30km) #r is -0.035

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Imperv30km

t = -0.50337, df = 99, p-value = 0.6158

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2435599 0.1463588

sample estimates:

cor

-0.05052569

> cor.test(test$Rel\_HW2P\_canopy, test$Protected30km) #r is -0.052

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Protected30km

t = -0.023239, df = 99, p-value = 0.9815

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1976846 0.1931919

sample estimates:

cor

-0.00233556

> cor.test(test$Rel\_HW2P\_canopy, test$HighDev500m) #r is 0.268

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HighDev500m

t = 3.41, df = 99, p-value = 0.0009414

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1374757 0.4886797

sample estimates:

cor

0.3242042

> cor.test(test$Rel\_HW2P\_canopy, test$HighDev1km) #r is -0.110

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HighDev1km

t = -1.2533, df = 99, p-value = 0.213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31277479 0.07222838

sample estimates:

cor

-0.1249751

> cor.test(test$Rel\_HW2P\_canopy, test$HighDev5km) #r is -0.130

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HighDev5km

t = -1.4197, df = 99, p-value = 0.1588

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32765256 0.05571854

sample estimates:

cor

-0.141259

> cor.test(test$Rel\_HW2P\_canopy, test$HighDev30km) #r is -0.090

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HighDev30km

t = 0.51124, df = 99, p-value = 0.6103

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1455858 0.2443027

sample estimates:

cor

0.05131349

> cor.test(test$Rel\_HW2P\_canopy, test$LowDev500m) #r is 0.018

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LowDev500m

t = -0.31963, df = 99, p-value = 0.7499

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2261277 0.1643632

sample estimates:

cor

-0.03210744

> cor.test(test$Rel\_HW2P\_canopy, test$LowDev1km) #r is -0.168

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LowDev1km

t = -1.7198, df = 99, p-value = 0.0886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35397551 0.02598519

sample estimates:

cor

-0.170319

> cor.test(test$Rel\_HW2P\_canopy, test$LowDev5km) #r is -0.147

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LowDev5km

t = -1.8419, df = 99, p-value = 0.06849

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36449578 0.01391087

sample estimates:

cor

-0.1820233

> cor.test(test$Rel\_HW2P\_canopy, test$LowDev30km) #r is -0.008

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$LowDev30km

t = -0.29297, df = 99, p-value = 0.7702

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2235852 0.1669677

sample estimates:

cor

-0.02943203

> cor.test(test$Rel\_HW2P\_canopy, test$OpenDev500m) #r is -0.011

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$OpenDev500m

t = -0.53454, df = 99, p-value = 0.5942

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2465012 0.1432953

sample estimates:

cor

-0.05364638

> cor.test(test$Rel\_HW2P\_canopy, test$OpenDev1km) #r is -0.060

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$OpenDev1km

t = -0.93695, df = 99, p-value = 0.3511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2839882 0.1035848

sample estimates:

cor

-0.09375247

> cor.test(test$Rel\_HW2P\_canopy, test$OpenDev5km) #r is -0.090

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$OpenDev5km

t = -1.3734, df = 99, p-value = 0.1727

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32352914 0.06031539

sample estimates:

cor

-0.1367357

> cor.test(test$Rel\_HW2P\_canopy, test$OpenDev30km) #r is -0.020

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$OpenDev30km

t = -1.0353, df = 99, p-value = 0.3031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29300192 0.09384857

sample estimates:

cor

-0.1034889

> cor.test(test$Rel\_HW2P\_canopy, test$Grass500m) #r is -0.007

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Grass500m

t = -0.0098333, df = 99, p-value = 0.9922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1963896 0.1944885

sample estimates:

cor

-0.0009882825

> cor.test(test$Rel\_HW2P\_canopy, test$Grass1km) #r is 0.172

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Grass1km

t = 0.9719, df = 99, p-value = 0.3335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1001249 0.2871992

sample estimates:

cor

0.09721676

> cor.test(test$Rel\_HW2P\_canopy, test$Grass5km) #r is 0.159

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Grass5km

t = 0.67318, df = 99, p-value = 0.5024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1296471 0.2595181

sample estimates:

cor

0.06750257

> cor.test(test$Rel\_HW2P\_canopy, test$Grass30km) #r is 0.160

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Grass30km

t = 0.59102, df = 99, p-value = 0.5559

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1377399 0.2518166

sample estimates:

cor

0.05929561

> cor.test(test$Rel\_HW2P\_canopy, test$Schrubs500m) #r is -0.050

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Schrubs500m

t = -0.59258, df = 99, p-value = 0.5548

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2519626 0.1375869

sample estimates:

cor

-0.05945095

> cor.test(test$Rel\_HW2P\_canopy, test$Schrubs1km) #r is 0.042

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Schrubs1km

t = 0.39078, df = 99, p-value = 0.6968

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1574020 0.2328974

sample estimates:

cor

0.03924448

> cor.test(test$Rel\_HW2P\_canopy, test$Schrubs5km) #r is 0.065

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Schrubs5km

t = 0.12141, df = 99, p-value = 0.9036

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1836761 0.2071465

sample estimates:

cor

0.01220118

> cor.test(test$Rel\_HW2P\_canopy, test$Schrubs30km) #r is 0.048

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Schrubs30km

t = 0.52044, df = 99, p-value = 0.6039

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1446815 0.2451711

sample estimates:

cor

0.05223475

> cor.test(test$Rel\_HW2P\_canopy, test$Water500m) #r is -0.063

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Water500m

t = -0.42327, df = 99, p-value = 0.673

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2359813 0.1542181

sample estimates:

cor

-0.04250222

> cor.test(test$Rel\_HW2P\_canopy, test$Water1km) #r is 0.122

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Water1km

t = 0.97011, df = 99, p-value = 0.3344

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1003019 0.2870352

sample estimates:

cor

0.09703966

> cor.test(test$Rel\_HW2P\_canopy, test$Water5km) #r is 0.109

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Water5km

t = 0.94814, df = 99, p-value = 0.3454

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1024774 0.2850169

sample estimates:

cor

0.09486173

> cor.test(test$Rel\_HW2P\_canopy, test$Water30km) #r is 0.100

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$Water30km

t = 0.92593, df = 99, p-value = 0.3567

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1046755 0.2829742

sample estimates:

cor

0.09265939

> cor.test(test$Rel\_HW2P\_canopy, test$NSoilTypes) #r is 0.228

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$NSoilTypes

t = 1.972, df = 99, p-value = 0.0514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001067441 0.375581134

sample estimates:

cor

0.1944124

> cor.test(test$Rel\_HW2P\_canopy, test$FPSiteIndex) # r is -0.073

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$FPSiteIndex

t = -0.57077, df = 91, p-value = 0.5696

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2602679 0.1457554

sample estimates:

cor

-0.05972629

> cor.test(test$Rel\_HW2P\_canopy, test$SiteIndexPrimaryS) # r is -0.079

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$SiteIndexPrimaryS

t = -0.73457, df = 91, p-value = 0.4645

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2761658 0.1289483

sample estimates:

cor

-0.07677674

> cor.test(test$Rel\_HW2P\_canopy, test$PISoils) # r is -0.252

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$PISoils

t = -3.2298, df = 99, p-value = 0.001681

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4754968 -0.1205871

sample estimates:

cor

-0.3087499

> cor.test(test$Rel\_HW2P\_canopy, test$SISoils) # r is -0.132

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$SISoils

t = -0.7876, df = 99, p-value = 0.4328

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2701827 0.1183543

sample estimates:

cor

-0.07891027

> cor.test(test$Rel\_HW2P\_canopy, test$HydricSoils) # r is 0.270

Pearson's product-moment correlation

data: test$Rel\_HW2P\_canopy and test$HydricSoils

t = 1.8248, df = 99, p-value = 0.07104

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01559558 0.36303368

sample estimates:

cor

0.1803935

> #Rel\_HW2P\_shrubcover by each

> #cor.test(test$Rel\_HW2P\_shrubcover, test$Treatment) #non-numeric

> cor.test(test$Rel\_HW2P\_shrubcover, test$Herbicide) # r is -0.118

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Herbicide

t = -0.82885, df = 99, p-value = 0.4092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.274009 0.114278

sample estimates:

cor

-0.08301534

> cor.test(test$Rel\_HW2P\_shrubcover, test$LastB) # r is -0.106

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LastB

t = -0.24425, df = 77, p-value = 0.8077

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474121 0.1944831

sample estimates:

cor

-0.02782382

> cor.test(test$Rel\_HW2P\_shrubcover, test$LastT) #r is -0.067

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LastT

t = -0.44125, df = 94, p-value = 0.66

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2437287 0.1564477

sample estimates:

cor

-0.04546429

> cor.test(test$Rel\_HW2P\_shrubcover, test$BA) #r is -0.070

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$BA

t = -0.046319, df = 99, p-value = 0.9631

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1999125 0.1909579

sample estimates:

cor

-0.004655144

> cor.test(test$Rel\_HW2P\_shrubcover, test$Nsnags) #r is -0.158

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Nsnags

t = -0.85959, df = 99, p-value = 0.3921

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2768533 0.1112393

sample estimates:

cor

-0.08607121

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ccover) #r is -0.089

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ccover

t = -0.64609, df = 99, p-value = 0.5197

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2569828 0.1323170

sample estimates:

cor

-0.06479798

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ldepth) #r is -0.132

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ldepth

t = -1.1027, df = 99, p-value = 0.2728

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29915267 0.08716205

sample estimates:

cor

-0.1101537

> cor.test(test$Rel\_HW2P\_shrubcover, test$TreeHt) #r is 0.092

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$TreeHt

t = 0.1309, df = 99, p-value = 0.8961

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1827541 0.2080594

sample estimates:

cor

0.01315504

> cor.test(test$Rel\_HW2P\_shrubcover, test$Age) #r is -0.101

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Age

t = -0.8329, df = 99, p-value = 0.4069

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2743841 0.1138776

sample estimates:

cor

-0.0834182

> cor.test(test$Rel\_HW2P\_shrubcover, test$Nburns) #r is 0.060

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Nburns

t = 0.44573, df = 99, p-value = 0.6568

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1520158 0.2381097

sample estimates:

cor

0.04475309

> cor.test(test$Rel\_HW2P\_shrubcover, test$Nthins) #r is -0.063

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Nthins

t = -0.27885, df = 99, p-value = 0.7809

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2222370 0.1683465

sample estimates:

cor

-0.02801446

> cor.test(test$Rel\_HW2P\_shrubcover, test$TimeSinceB) #r is -0.010

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$TimeSinceB

t = 0.30094, df = 99, p-value = 0.7641

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1661889 0.2243460

sample estimates:

cor

0.03023228

> cor.test(test$Rel\_HW2P\_shrubcover, test$TimeSinceT) #r is 0.041

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$TimeSinceT

t = 0.75046, df = 99, p-value = 0.4548

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1220222 0.2667292

sample estimates:

cor

0.07521066

> cor.test(test$Rel\_HW2P\_shrubcover, test$HWdens\_10) #r is 0.327

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HWdens\_10

t = 3.1197, df = 99, p-value = 0.002372

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1101859 0.4672978

sample estimates:

cor

0.2991824

> cor.test(test$Rel\_HW2P\_shrubcover, test$HWdens\_50) #r is 0.416 #high-ISH

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HWdens\_50

t = 4.1439, df = 99, p-value = 7.205e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2043824 0.5393754

sample estimates:

cor

0.3844645

> cor.test(test$Rel\_HW2P\_shrubcover, test$HWdens\_100) #r is 0.493 #high

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HWdens\_100

t = 5.1659, df = 99, p-value = 1.241e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2916141 0.6020152

sample estimates:

cor

0.4607915

> cor.test(test$Rel\_HW2P\_shrubcover, test$FG\_herb) #r is 0.128

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$FG\_herb

t = 0.92158, df = 99, p-value = 0.359

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1051067 0.2825730

sample estimates:

cor

0.09222704

> cor.test(test$Rel\_HW2P\_shrubcover, test$FG\_shrub) #r is -0.223

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$FG\_shrub

t = -1.1173, df = 99, p-value = 0.2666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3004815 0.0857129

sample estimates:

cor

-0.1115958

> cor.test(test$Rel\_HW2P\_shrubcover, test$NHW\_saplings) #r is 0.305

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$NHW\_saplings

t = 3.2982, df = 99, p-value = 0.001352

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1270188 0.4805361

sample estimates:

cor

0.3146471

> cor.test(test$Rel\_HW2P\_shrubcover, test$NP\_over\_20cm) #r is -0.213

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$NP\_over\_20cm

t = -1.3761, df = 99, p-value = 0.1719

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32377236 0.06004469

sample estimates:

cor

-0.1370023

> cor.test(test$Rel\_HW2P\_shrubcover, test$Rel\_HW2P\_canopy) #r is 0.290

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Rel\_HW2P\_canopy

t = 1.625, df = 99, p-value = 0.1073

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03537321 0.34572881

sample estimates:

cor

0.1611803

> #cor.test(test$Rel\_HW2P\_shrubcover, test$Rel\_HW2P\_shrubcover) #r is

> cor.test(test$Rel\_HW2P\_shrubcover, test$LCR) #r is -0.097

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LCR

t = -0.40662, df = 98, p-value = 0.6852

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2355596 0.1566404

sample estimates:

cor

-0.04104039

> cor.test(test$Rel\_HW2P\_shrubcover, test$HW\_dens\_1050) #r is 0.403

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HW\_dens\_1050

t = 3.9338, df = 99, p-value = 0.0001553

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.185563 0.525357

sample estimates:

cor

0.3676683

> cor.test(test$Rel\_HW2P\_shrubcover, test$HW\_shrub) #r is 0.477 0.51

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HW\_shrub

t = 5.6444, df = 99, p-value = 1.583e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3297846 0.6282738

sample estimates:

cor

0.4934214

> cor.test(test$Rel\_HW2P\_shrubcover, test$Parea) #r is 0.187

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Parea

t = 2.6516, df = 99, p-value = 0.009331

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06535499 0.43124150

sample estimates:

cor

0.2575052

> cor.test(test$Rel\_HW2P\_shrubcover, test$ShapeIndex) #r is -0.040

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$ShapeIndex

t = 0.96971, df = 99, p-value = 0.3346

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1003414 0.2869986

sample estimates:

cor

0.09700013

> cor.test(test$Rel\_HW2P\_shrubcover, test$PAratio) #r is -0.228

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$PAratio

t = -2.1491, df = 99, p-value = 0.03406

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39045550 -0.01636338

sample estimates:

cor

-0.2111274

> cor.test(test$Rel\_HW2P\_shrubcover, test$FracDimIndex) #r is -0.105

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$FracDimIndex

t = 0.44893, df = 99, p-value = 0.6545

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1517026 0.2384121

sample estimates:

cor

0.04507303

> cor.test(test$Rel\_HW2P\_shrubcover, test$CoreAreaIndex) #r is 0.259

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$CoreAreaIndex

t = 2.9612, df = 99, p-value = 0.003836

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09510916 0.45530313

sample estimates:

cor

0.2852462

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ag500m) #r is -0.225

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ag500m

t = -1.0297, df = 99, p-value = 0.3057

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29249289 0.09440038

sample estimates:

cor

-0.102938

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ag1km) #r is -0.266

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ag1km

t = -1.4969, df = 99, p-value = 0.1376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33448098 0.04807019

sample estimates:

cor

-0.1487667

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ag5km) #r is -0.162

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ag5km

t = -1.142, df = 99, p-value = 0.2562

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30272040 0.08326752

sample estimates:

cor

-0.1140274

> cor.test(test$Rel\_HW2P\_shrubcover, test$Ag30km) #r is -0.260

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Ag30km

t = -2.5618, df = 99, p-value = 0.01192

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4241092 -0.0566586

sample estimates:

cor

-0.2493369

> cor.test(test$Rel\_HW2P\_shrubcover, test$Evergreen500m) #r is 0.112

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Evergreen500m

t = 1.2753, df = 99, p-value = 0.2052

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07004711 0.31475132

sample estimates:

cor

0.1271326

> cor.test(test$Rel\_HW2P\_shrubcover, test$Evergreen1km) #r is 0.165

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Evergreen1km

t = 1.4981, df = 99, p-value = 0.1373

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04795107 0.33458702

sample estimates:

cor

0.1488835

> cor.test(test$Rel\_HW2P\_shrubcover, test$Evergreen5km) #r is 0.234

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Evergreen5km

t = 2.434, df = 99, p-value = 0.01673

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0442314 0.4138374

sample estimates:

cor

0.2376166

> cor.test(test$Rel\_HW2P\_shrubcover, test$Evergreen30km) #r is 0.186

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Evergreen30km

t = 2.307, df = 99, p-value = 0.02314

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03183938 0.40350008

sample estimates:

cor

0.2258731

> cor.test(test$Rel\_HW2P\_shrubcover, test$Imperv500m) #r is -0.096

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Imperv500m

t = -0.63911, df = 99, p-value = 0.5242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2563285 0.1330051

sample estimates:

cor

-0.06410045

> cor.test(test$Rel\_HW2P\_shrubcover, test$Imperv1km) #r is -0.124

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Imperv1km

t = -2.1272, df = 99, p-value = 0.03589

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3886248 -0.0142057

sample estimates:

cor

-0.2090645

> cor.test(test$Rel\_HW2P\_shrubcover, test$Imperv5km) #r is -0.349

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Imperv5km

t = -3.1481, df = 99, p-value = 0.002172

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4694246 -0.1128764

sample estimates:

cor

-0.3016609

> cor.test(test$Rel\_HW2P\_shrubcover, test$Imperv30km) #r is -0.140

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Imperv30km

t = -1.6038, df = 99, p-value = 0.1119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34388082 0.03746778

sample estimates:

cor

-0.1591368

> cor.test(test$Rel\_HW2P\_shrubcover, test$Protected30km) #r is 0.063

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Protected30km

t = 0.78825, df = 99, p-value = 0.4324

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1182899 0.2702432

sample estimates:

cor

0.07897514

> cor.test(test$Rel\_HW2P\_shrubcover, test$HighDev500m) #r is 0.108

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HighDev500m

t = 0.77385, df = 99, p-value = 0.4409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1197126 0.2689050

sample estimates:

cor

0.07754088

> cor.test(test$Rel\_HW2P\_shrubcover, test$HighDev1km) #r is -0.133

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HighDev1km

t = -2.0083, df = 99, p-value = 0.04733

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.378649755 -0.002509942

sample estimates:

cor

-0.1978522

> cor.test(test$Rel\_HW2P\_shrubcover, test$HighDev5km) #r is -0.345

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HighDev5km

t = -3.0299, df = 99, p-value = 0.003121

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4605324 -0.1016619

sample estimates:

cor

-0.2913131

> cor.test(test$Rel\_HW2P\_shrubcover, test$HighDev30km) #r is 0.304

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HighDev30km

t = 2.4163, df = 99, p-value = 0.01751

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04250828 0.41240566

sample estimates:

cor

0.235987

> cor.test(test$Rel\_HW2P\_shrubcover, test$LowDev500m) #r is 0.087

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LowDev500m

t = 0.33998, df = 99, p-value = 0.7346

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1623740 0.2280661

sample estimates:

cor

0.034149

> cor.test(test$Rel\_HW2P\_shrubcover, test$LowDev1km) #r is -0.152

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LowDev1km

t = -1.5993, df = 99, p-value = 0.1129

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34348698 0.03791374

sample estimates:

cor

-0.1587015

> cor.test(test$Rel\_HW2P\_shrubcover, test$LowDev5km) #r is -0.372

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LowDev5km

t = -3.3411, df = 99, p-value = 0.001178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4836723 -0.1310366

sample estimates:

cor

-0.3183237

> cor.test(test$Rel\_HW2P\_shrubcover, test$LowDev30km) #r is -0.151

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$LowDev30km

t = -1.728, df = 99, p-value = 0.08711

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35468739 0.02517163

sample estimates:

cor

-0.1711094

> cor.test(test$Rel\_HW2P\_shrubcover, test$OpenDev500m) #r is -0.236

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$OpenDev500m

t = -2.1159, df = 99, p-value = 0.03686

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3876816 -0.0130954

sample estimates:

cor

-0.2080023

> cor.test(test$Rel\_HW2P\_shrubcover, test$OpenDev1km) #r is -0.236

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$OpenDev1km

t = -2.6262, df = 99, p-value = 0.01001

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42923392 -0.06290152

sample estimates:

cor

-0.2552035

> cor.test(test$Rel\_HW2P\_shrubcover, test$OpenDev5km) #r is -0.330

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$OpenDev5km

t = -3.2825, df = 99, p-value = 0.001422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4793807 -0.1255416

sample estimates:

cor

-0.3132939

> cor.test(test$Rel\_HW2P\_shrubcover, test$OpenDev30km) #r is -0.347

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$OpenDev30km

t = -3.2832, df = 99, p-value = 0.001419

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4794359 -0.1256120

sample estimates:

cor

-0.3133585

> cor.test(test$Rel\_HW2P\_shrubcover, test$Grass500m) #r is -0.050

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Grass500m

t = -1.6391, df = 99, p-value = 0.1044

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3469644 0.0339709

sample estimates:

cor

-0.1625476

> cor.test(test$Rel\_HW2P\_shrubcover, test$Grass1km) #r is -0.028

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Grass1km

t = -0.52733, df = 99, p-value = 0.5991

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2458210 0.1440044

sample estimates:

cor

-0.05292437

> cor.test(test$Rel\_HW2P\_shrubcover, test$Grass5km) #r is -0.007

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Grass5km

t = -0.49658, df = 99, p-value = 0.6206

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2429185 0.1470259

sample estimates:

cor

-0.0498457

> cor.test(test$Rel\_HW2P\_shrubcover, test$Grass30km) #r is -0.108

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Grass30km

t = -0.44017, df = 99, p-value = 0.6608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2375831 0.1525610

sample estimates:

cor

-0.04419599

> cor.test(test$Rel\_HW2P\_shrubcover, test$Schrubs500m) #r is 0.112

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Schrubs500m

t = 0.53406, df = 99, p-value = 0.5945

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1433429 0.2464555

sample estimates:

cor

0.05359792

> cor.test(test$Rel\_HW2P\_shrubcover, test$Schrubs1km) #r is 0.149

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Schrubs1km

t = 1.1431, df = 99, p-value = 0.2558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08316084 0.30281798

sample estimates:

cor

0.1141334

> cor.test(test$Rel\_HW2P\_shrubcover, test$Schrubs5km) #r is 0.155

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Schrubs5km

t = 1.4286, df = 99, p-value = 0.1563

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05483972 0.32843920

sample estimates:

cor

0.1421228

> cor.test(test$Rel\_HW2P\_shrubcover, test$Schrubs30km) #r is 0.378

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Schrubs30km

t = 3.2685, df = 99, p-value = 0.001487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1242290 0.4783531

sample estimates:

cor

0.3120909

> cor.test(test$Rel\_HW2P\_shrubcover, test$Water500m) #r is 0.185

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Water500m

t = 1.4051, df = 99, p-value = 0.1631

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05716703 0.32635482

sample estimates:

cor

0.1398346

> cor.test(test$Rel\_HW2P\_shrubcover, test$Water1km) #r is 0.369

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Water1km

t = 3.0553, df = 99, p-value = 0.00289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1040695 0.4624476

sample estimates:

cor

0.2935384

> cor.test(test$Rel\_HW2P\_shrubcover, test$Water5km) #r is 0.024

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Water5km

t = 0.11255, df = 99, p-value = 0.9106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1845360 0.2062944

sample estimates:

cor

0.01131118

> cor.test(test$Rel\_HW2P\_shrubcover, test$Water30km) #r is -0.007

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$Water30km

t = -0.10819, df = 99, p-value = 0.9141

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2058746 0.1849594

sample estimates:

cor

-0.01087286

> cor.test(test$Rel\_HW2P\_shrubcover, test$NSoilTypes) #r is -0.008

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$NSoilTypes

t = -0.23338, df = 99, p-value = 0.8159

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2178902 0.1727816

sample estimates:

cor

-0.02344949

> cor.test(test$Rel\_HW2P\_shrubcover, test$FPSiteIndex) # r is 0.119

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$FPSiteIndex

t = 1.6456, df = 91, p-value = 0.1033

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03492596 0.36119240

sample estimates:

cor

0.1699918

> cor.test(test$Rel\_HW2P\_shrubcover, test$SiteIndexPrimaryS) # r is -0.026

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$SiteIndexPrimaryS

t = 0.50191, df = 91, p-value = 0.6169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1528018 0.2535365

sample estimates:

cor

0.05254191

> cor.test(test$Rel\_HW2P\_shrubcover, test$PISoils) # r is -0.005

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$PISoils

t = 0.72466, df = 99, p-value = 0.4704

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1245690 0.2643255

sample estimates:

cor

0.07263869

> cor.test(test$Rel\_HW2P\_shrubcover, test$SISoils) # r is -0.131

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$SISoils

t = -1.2984, df = 99, p-value = 0.1972

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31682567 0.06775393

sample estimates:

cor

-0.1293988

> cor.test(test$Rel\_HW2P\_shrubcover, test$HydricSoils) # r is 0.115

Pearson's product-moment correlation

data: test$Rel\_HW2P\_shrubcover and test$HydricSoils

t = 0.81393, df = 99, p-value = 0.4176

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1157530 0.2726258

sample estimates:

cor

0.08153067

> #LCR by each

> #cor.test(test$LCR, test$Treatment) #non-numeric

> cor.test(test$LCR, test$Herbicide) # r is 0.006

Pearson's product-moment correlation

data: test$LCR and test$Herbicide

t = -0.20187, df = 98, p-value = 0.8404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2159415 0.1767377

sample estimates:

cor

-0.02038813

> cor.test(test$LCR, test$LastB) # r is 0.312

Pearson's product-moment correlation

data: test$LCR and test$LastB

t = -1.0535, df = 77, p-value = 0.2954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3315705 0.1046701

sample estimates:

cor

-0.119199

> cor.test(test$LCR, test$LastT) #r is 0.053

Pearson's product-moment correlation

data: test$LCR and test$LastT

t = 0.17981, df = 93, p-value = 0.8577

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1835906 0.2193610

sample estimates:

cor

0.01864215

> cor.test(test$LCR, test$BA) #r is 0.142 0.4

Pearson's product-moment correlation

data: test$LCR and test$BA

t = 0.03772, df = 98, p-value = 0.97

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1927521 0.2000787

sample estimates:

cor

0.003810288

> cor.test(test$LCR, test$Nsnags) #r is -0.091

Pearson's product-moment correlation

data: test$LCR and test$Nsnags

t = -0.26569, df = 98, p-value = 0.791

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2220769 0.1704875

sample estimates:

cor

-0.02682908

> cor.test(test$LCR, test$Ccover) #r is -0.041 0.347

Pearson's product-moment correlation

data: test$LCR and test$Ccover

t = 0.16641, df = 98, p-value = 0.8682

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1802050 0.2125245

sample estimates:

cor

0.016808

> cor.test(test$LCR, test$Ldepth) #r is -0.207

Pearson's product-moment correlation

data: test$LCR and test$Ldepth

t = 0.98491, df = 98, p-value = 0.3271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.099348 0.289785

sample estimates:

cor

0.09900202

> cor.test(test$LCR, test$TreeHt) #r is -0.630 #-0.479

Pearson's product-moment correlation

data: test$LCR and test$TreeHt

t = 0.72599, df = 98, p-value = 0.4696

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1250749 0.2657406

sample estimates:

cor

0.07314009

> cor.test(test$LCR, test$Age) #r is -0.383 #ish no, less

Pearson's product-moment correlation

data: test$LCR and test$Age

t = -1.5564, df = 98, p-value = 0.1228

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34131885 0.04239843

sample estimates:

cor

-0.1553131

> cor.test(test$LCR, test$Nburns) #r is -0.106

Pearson's product-moment correlation

data: test$LCR and test$Nburns

t = -0.3727, df = 98, p-value = 0.7102

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2323228 0.1599788

sample estimates:

cor

-0.03762149

> cor.test(test$LCR, test$Nthins) #r is -0.359 #ish

Pearson's product-moment correlation

data: test$LCR and test$Nthins

t = -1.2686, df = 98, p-value = 0.2076

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3156443 0.0710863

sample estimates:

cor

-0.1271066

> cor.test(test$LCR, test$TimeSinceB) #r is 0.103 .3

Pearson's product-moment correlation

data: test$LCR and test$TimeSinceB

t = 0.44885, df = 98, p-value = 0.6545

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1524805 0.2395809

sample estimates:

cor

0.04529421

> cor.test(test$LCR, test$TimeSinceT) #r is 0.137

Pearson's product-moment correlation

data: test$LCR and test$TimeSinceT

t = 0.047732, df = 98, p-value = 0.962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1917782 0.2010493

sample estimates:

cor

0.004821572

> cor.test(test$LCR, test$HWdens\_10) #r is -0.125

Pearson's product-moment correlation

data: test$LCR and test$HWdens\_10

t = 1.1732, df = 98, p-value = 0.2436

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08059364 0.30700879

sample estimates:

cor

0.1176875

> cor.test(test$LCR, test$HWdens\_50) #r is -0.274

Pearson's product-moment correlation

data: test$LCR and test$HWdens\_50

t = -0.42895, df = 98, p-value = 0.6689

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2376865 0.1544419

sample estimates:

cor

-0.0432894

> cor.test(test$LCR, test$HWdens\_100) #r is -0.360 #ish

Pearson's product-moment correlation

data: test$LCR and test$HWdens\_100

t = -0.48417, df = 98, p-value = 0.6293

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2429368 0.1489981

sample estimates:

cor

-0.04884969

> cor.test(test$LCR, test$FG\_herb) #r is 0.079 .353

Pearson's product-moment correlation

data: test$LCR and test$FG\_herb

t = -1.0714, df = 98, p-value = 0.2866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29772177 0.09074017

sample estimates:

cor

-0.1075956

> cor.test(test$LCR, test$FG\_shrub) #r is 0.254 .4

Pearson's product-moment correlation

data: test$LCR and test$FG\_shrub

t = -0.48513, df = 98, p-value = 0.6287

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2430287 0.1489026

sample estimates:

cor

-0.04894709

> cor.test(test$LCR, test$NHW\_saplings) #r is -0.360 #ish, no now

Pearson's product-moment correlation

data: test$LCR and test$NHW\_saplings

t = -1.8465, df = 98, p-value = 0.06783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36658111 0.01353986

sample estimates:

cor

-0.1833659

> cor.test(test$LCR, test$NP\_over\_20cm) #r is -0.021

Pearson's product-moment correlation

data: test$LCR and test$NP\_over\_20cm

t = -2.1233, df = 98, p-value = 0.03625

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39006458 -0.01386692

sample estimates:

cor

-0.2097138

> cor.test(test$LCR, test$Rel\_HW2P\_canopy) #r is -0.120

Pearson's product-moment correlation

data: test$LCR and test$Rel\_HW2P\_canopy

t = -0.42827, df = 98, p-value = 0.6694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2376218 0.1545088

sample estimates:

cor

-0.04322099

> cor.test(test$LCR, test$Rel\_HW2P\_shrubcover) #r is -0.097

Pearson's product-moment correlation

data: test$LCR and test$Rel\_HW2P\_shrubcover

t = -0.40662, df = 98, p-value = 0.6852

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2355596 0.1566404

sample estimates:

cor

-0.04104039

> #cor.test(test$LCR, test$LCR) #r is

> cor.test(test$LCR, test$HW\_dens\_1050) #r is -0.215

Pearson's product-moment correlation

data: test$LCR and test$HW\_dens\_1050

t = 0.37024, df = 98, p-value = 0.712

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1602206 0.2320881

sample estimates:

cor

0.03737372

> cor.test(test$LCR, test$HW\_shrub) #r is -0.328

Pearson's product-moment correlation

data: test$LCR and test$HW\_shrub

t = -1.2226, df = 98, p-value = 0.2244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31148630 0.07567287

sample estimates:

cor

-0.122567

> cor.test(test$LCR, test$Parea) #r is -0.125

Pearson's product-moment correlation

data: test$LCR and test$Parea

t = -1.2326, df = 98, p-value = 0.2207

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31239366 0.07467338

sample estimates:

cor

-0.123557

> cor.test(test$LCR, test$ShapeIndex) #r is -0.244

Pearson's product-moment correlation

data: test$LCR and test$ShapeIndex

t = -0.76197, df = 98, p-value = 0.4479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2691054 0.1215060

sample estimates:

cor

-0.07674372

> cor.test(test$LCR, test$PAratio) #r is 0.066

Pearson's product-moment correlation

data: test$LCR and test$PAratio

t = 0.97495, df = 98, p-value = 0.332

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1003395 0.2888673

sample estimates:

cor

0.0980102

> cor.test(test$LCR, test$FracDimIndex) #r is -0.228

Pearson's product-moment correlation

data: test$LCR and test$FracDimIndex

t = -0.54303, df = 98, p-value = 0.5883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2485164 0.1431867

sample estimates:

cor

-0.05477188

> cor.test(test$LCR, test$CoreAreaIndex) #r is -0.066

Pearson's product-moment correlation

data: test$LCR and test$CoreAreaIndex

t = -1.1478, df = 98, p-value = 0.2538

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30470018 0.08312344

sample estimates:

cor

-0.1151751

> cor.test(test$LCR, test$Ag500m) #r is -0.037

Pearson's product-moment correlation

data: test$LCR and test$Ag500m

t = -0.12707, df = 98, p-value = 0.8991

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2087273 0.1840467

sample estimates:

cor

-0.01283541

> cor.test(test$LCR, test$Ag1km) #r is -0.061

Pearson's product-moment correlation

data: test$LCR and test$Ag1km

t = -0.46793, df = 98, p-value = 0.6409

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2413943 0.1505999

sample estimates:

cor

-0.04721488

> cor.test(test$LCR, test$Ag5km) #r is -0.249

Pearson's product-moment correlation

data: test$LCR and test$Ag5km

t = -1.7574, df = 98, p-value = 0.08198

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35888488 0.02239931

sample estimates:

cor

-0.1747878

> cor.test(test$LCR, test$Ag30km) #r is -0.029

Pearson's product-moment correlation

data: test$LCR and test$Ag30km

t = -1.3085, df = 98, p-value = 0.1937

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31924398 0.06710233

sample estimates:

cor

-0.1310429

> cor.test(test$LCR, test$Evergreen500m) #r is -0.222

Pearson's product-moment correlation

data: test$LCR and test$Evergreen500m

t = -0.66254, df = 98, p-value = 0.5092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2597875 0.1313644

sample estimates:

cor

-0.06677676

> cor.test(test$LCR, test$Evergreen1km) #r is 0.059

Pearson's product-moment correlation

data: test$LCR and test$Evergreen1km

t = 0.52382, df = 98, p-value = 0.6016

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1450841 0.2466975

sample estimates:

cor

0.05283981

> cor.test(test$LCR, test$Evergreen5km) #r is 0.070 .3

Pearson's product-moment correlation

data: test$LCR and test$Evergreen5km

t = 1.2022, df = 98, p-value = 0.2322

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07770165 0.30964235

sample estimates:

cor

0.1205564

> cor.test(test$LCR, test$Evergreen30km) #r is 0.270

Pearson's product-moment correlation

data: test$LCR and test$Evergreen30km

t = 0.84338, df = 98, p-value = 0.4011

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1134228 0.2766912

sample estimates:

cor

0.0848864

> cor.test(test$LCR, test$Imperv500m) #r is 0.020

Pearson's product-moment correlation

data: test$LCR and test$Imperv500m

t = -0.13515, df = 98, p-value = 0.8928

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2095074 0.1832585

sample estimates:

cor

-0.01365099

> cor.test(test$LCR, test$Imperv1km) #r is -0.090

Pearson's product-moment correlation

data: test$LCR and test$Imperv1km

t = -0.99371, df = 98, p-value = 0.3228

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29059475 0.09847248

sample estimates:

cor

-0.09987744

> cor.test(test$LCR, test$Imperv5km) #r is -0.105

Pearson's product-moment correlation

data: test$LCR and test$Imperv5km

t = 0.2463, df = 98, p-value = 0.806

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1723876 0.2202149

sample estimates:

cor

0.02487267

> cor.test(test$LCR, test$Imperv30km) #r is 0.007

Pearson's product-moment correlation

data: test$LCR and test$Imperv30km

t = 0.15471, df = 98, p-value = 0.8774

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1813483 0.2113958

sample estimates:

cor

0.01562648

> cor.test(test$LCR, test$Protected30km) #r is -0.112

Pearson's product-moment correlation

data: test$LCR and test$Protected30km

t = 0.80092, df = 98, p-value = 0.4251

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1176398 0.2727397

sample estimates:

cor

0.08064168

> cor.test(test$LCR, test$HighDev500m) #r is 0.059

Pearson's product-moment correlation

data: test$LCR and test$HighDev500m

t = -0.13702, df = 98, p-value = 0.8913

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2096879 0.1830760

sample estimates:

cor

-0.01383981

> cor.test(test$LCR, test$HighDev1km) #r is -0.092

Pearson's product-moment correlation

data: test$LCR and test$HighDev1km

t = -1.0286, df = 98, p-value = 0.3062

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29380453 0.09499591

sample estimates:

cor

-0.1033506

> cor.test(test$LCR, test$HighDev5km) #r is 0.101

Pearson's product-moment correlation

data: test$LCR and test$HighDev5km

t = 0.24258, df = 98, p-value = 0.8088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1727523 0.2198573

sample estimates:

cor

0.02449707

> cor.test(test$LCR, test$HighDev30km) #r is 0.021 .5

Pearson's product-moment correlation

data: test$LCR and test$HighDev30km

t = 1.4708, df = 98, p-value = 0.1445

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05092586 0.33374646

sample estimates:

cor

0.1469623

> cor.test(test$LCR, test$LowDev500m) #r is -0.045

Pearson's product-moment correlation

data: test$LCR and test$LowDev500m

t = -0.17567, df = 98, p-value = 0.8609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2134169 0.1793004

sample estimates:

cor

-0.01774254

> cor.test(test$LCR, test$LowDev1km) #r is 0.125

Pearson's product-moment correlation

data: test$LCR and test$LowDev1km

t = 0.35627, df = 98, p-value = 0.7224

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1615939 0.2307538

sample estimates:

cor

0.03596581

> cor.test(test$LCR, test$LowDev5km) #r is 0.151

Pearson's product-moment correlation

data: test$LCR and test$LowDev5km

t = 0.075006, df = 98, p-value = 0.9404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1891230 0.2036916

sample estimates:

cor

0.007576574

> cor.test(test$LCR, test$LowDev30km) #r is -0.078

Pearson's product-moment correlation

data: test$LCR and test$LowDev30km

t = -0.35293, df = 98, p-value = 0.7249

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2304345 0.1619223

sample estimates:

cor

-0.035629

> cor.test(test$LCR, test$OpenDev500m) #r is -0.043

Pearson's product-moment correlation

data: test$LCR and test$OpenDev500m

t = -0.27351, df = 98, p-value = 0.785

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2228276 0.1697206

sample estimates:

cor

-0.02761824

> cor.test(test$LCR, test$OpenDev1km) #r is 0.182

Pearson's product-moment correlation

data: test$LCR and test$OpenDev1km

t = 0.29955, df = 98, p-value = 0.7652

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1671664 0.2253244

sample estimates:

cor

0.03024482

> cor.test(test$LCR, test$OpenDev5km) #r is 0.446

Pearson's product-moment correlation

data: test$LCR and test$OpenDev5km

t = 0.90702, df = 98, p-value = 0.3666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1070968 0.2825943

sample estimates:

cor

0.09124066

> cor.test(test$LCR, test$OpenDev30km) #r is 0.142

Pearson's product-moment correlation

data: test$LCR and test$OpenDev30km

t = -0.2564, df = 98, p-value = 0.7982

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2211853 0.1713978

sample estimates:

cor

-0.02589204

> cor.test(test$LCR, test$Grass500m) #r is 0.518

Pearson's product-moment correlation

data: test$LCR and test$Grass500m

t = 2.0428, df = 98, p-value = 0.04375

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.005915289 0.383301252

sample estimates:

cor

0.2020986

> cor.test(test$LCR, test$Grass1km) #r is 0.326

Pearson's product-moment correlation

data: test$LCR and test$Grass1km

t = 0.82161, df = 98, p-value = 0.4133

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1155855 0.2746663

sample estimates:

cor

0.0827104

> cor.test(test$LCR, test$Grass5km) #r is -0.148

Pearson's product-moment correlation

data: test$LCR and test$Grass5km

t = -1.7227, df = 98, p-value = 0.0881

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35587477 0.02584815

sample estimates:

cor

-0.1714404

> cor.test(test$LCR, test$Grass30km) #r is -0.283

Pearson's product-moment correlation

data: test$LCR and test$Grass30km

t = -2.1949, df = 98, p-value = 0.03053

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39604324 -0.02093589

sample estimates:

cor

-0.2164639

> cor.test(test$LCR, test$Schrubs500m) #r is 0.381

Pearson's product-moment correlation

data: test$LCR and test$Schrubs500m

t = 1.4705, df = 98, p-value = 0.1446

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05095853 0.33371735

sample estimates:

cor

0.1469302

> cor.test(test$LCR, test$Schrubs1km) #r is 0.367

Pearson's product-moment correlation

data: test$LCR and test$Schrubs1km

t = 1.2723, df = 98, p-value = 0.2063

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07071133 0.31598357

sample estimates:

cor

0.1274773

> cor.test(test$LCR, test$Schrubs5km) #r is 0.370

Pearson's product-moment correlation

data: test$LCR and test$Schrubs5km

t = 1.4753, df = 98, p-value = 0.1433

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0504748 0.3341483

sample estimates:

cor

0.1474047

> cor.test(test$LCR, test$Schrubs30km) #r is 0.077

Pearson's product-moment correlation

data: test$LCR and test$Schrubs30km

t = 0.57014, df = 98, p-value = 0.5699

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1405071 0.2510804

sample estimates:

cor

0.05749786

> cor.test(test$LCR, test$Water500m) #r is 0.043 .388

Pearson's product-moment correlation

data: test$LCR and test$Water500m

t = 0.89977, df = 98, p-value = 0.3705

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1078180 0.2819227

sample estimates:

cor

0.09051699

> cor.test(test$LCR, test$Water1km) #r is 0.227

Pearson's product-moment correlation

data: test$LCR and test$Water1km

t = 1.4245, df = 98, p-value = 0.1575

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05553985 0.32962842

sample estimates:

cor

0.1424321

> cor.test(test$LCR, test$Water5km) #r is 0.455

Pearson's product-moment correlation

data: test$LCR and test$Water5km

t = 1.2508, df = 98, p-value = 0.214

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07285722 0.31404061

sample estimates:

cor

0.1253548

> cor.test(test$LCR, test$Water30km) #r is -0.083

Pearson's product-moment correlation

data: test$LCR and test$Water30km

t = 0.49876, df = 98, p-value = 0.6191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1475578 0.2443221

sample estimates:

cor

0.05031873

> cor.test(test$LCR, test$NSoilTypes) #r is -0.115

Pearson's product-moment correlation

data: test$LCR and test$NSoilTypes

t = -0.58709, df = 98, p-value = 0.5585

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2526809 0.1388315

sample estimates:

cor

-0.05920096

> cor.test(test$LCR, test$FPSiteIndex) # r is -0.379

Pearson's product-moment correlation

data: test$LCR and test$FPSiteIndex

t = -1.0083, df = 90, p-value = 0.316

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3039291 0.1013197

sample estimates:

cor

-0.105691

> cor.test(test$LCR, test$SiteIndexPrimaryS) # r is -0.387

Pearson's product-moment correlation

data: test$LCR and test$SiteIndexPrimaryS

t = -0.99154, df = 90, p-value = 0.3241

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3023319 0.1030602

sample estimates:

cor

-0.1039515

> cor.test(test$LCR, test$PISoils) # r is 0.217

Pearson's product-moment correlation

data: test$LCR and test$PISoils

t = 0.69924, df = 98, p-value = 0.4861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1277274 0.2632336

sample estimates:

cor

0.07045842

> cor.test(test$LCR, test$SISoils) # r is -0.111

Pearson's product-moment correlation

data: test$LCR and test$SISoils

t = 0.47468, df = 98, p-value = 0.6361

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1499336 0.2420362

sample estimates:

cor

0.04789497

> cor.test(test$LCR, test$HydricSoils) # r is 0.062

Pearson's product-moment correlation

data: test$LCR and test$HydricSoils

t = -0.48586, df = 98, p-value = 0.6282

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2430976 0.1488310

sample estimates:

cor

-0.0490201

> #HW\_dens\_1050 by each

> #cor.test(test$HW\_dens\_1050, test$Treatment) #non-numeric

> cor.test(test$HW\_dens\_1050, test$Herbicide) # r is -0.097

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Herbicide

t = -1.4801, df = 99, p-value = 0.142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33299734 0.04973581

sample estimates:

cor

-0.1471336

> cor.test(test$HW\_dens\_1050, test$LastB) # r is -0.089

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LastB

t = -0.43696, df = 77, p-value = 0.6634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2678987 0.1732817

sample estimates:

cor

-0.04973429

> cor.test(test$HW\_dens\_1050, test$LastT) #r is -0.025

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LastT

t = -0.32981, df = 94, p-value = 0.7423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2328957 0.1676314

sample estimates:

cor

-0.03399713

> cor.test(test$HW\_dens\_1050, test$BA) #r is -0.470

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$BA

t = -5.2024, df = 99, p-value = 1.064e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6040855 -0.2945880

sample estimates:

cor

-0.4633503

> cor.test(test$HW\_dens\_1050, test$Nsnags) #r is -0.232

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Nsnags

t = -2.5015, df = 99, p-value = 0.01401

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41927878 -0.05080036

sample estimates:

cor

-0.2438189

> cor.test(test$HW\_dens\_1050, test$Ccover) #r is -0.401

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ccover

t = -4.6092, df = 99, p-value = 1.208e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5690244 -0.2450186

sample estimates:

cor

-0.4203299

> cor.test(test$HW\_dens\_1050, test$Ldepth) #r is -0.139

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ldepth

t = -2.1538, df = 99, p-value = 0.03369

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39084039 -0.01681746

sample estimates:

cor

-0.2115614

> cor.test(test$HW\_dens\_1050, test$TreeHt) #r is 0.195

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$TreeHt

t = 0.38403, df = 99, p-value = 0.7018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1580628 0.2322565

sample estimates:

cor

0.03856791

> cor.test(test$HW\_dens\_1050, test$Age) #r is 0.345

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Age

t = 3.0388, df = 99, p-value = 0.003038

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1024999 0.4611994

sample estimates:

cor

0.2920879

> cor.test(test$HW\_dens\_1050, test$Nburns) #r is 0.440

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Nburns

t = 4.9837, df = 99, p-value = 2.654e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2766162 0.5915107

sample estimates:

cor

0.4478443

> cor.test(test$HW\_dens\_1050, test$Nthins) #r is 0.358

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Nthins

t = 2.5138, df = 99, p-value = 0.01356

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05199859 0.42026848

sample estimates:

cor

0.2449486

> cor.test(test$HW\_dens\_1050, test$TimeSinceB) #r is -0.362

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$TimeSinceB

t = -3.2426, df = 99, p-value = 0.001615

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4764449 -0.1217949

sample estimates:

cor

-0.3098584

> cor.test(test$HW\_dens\_1050, test$TimeSinceT) #r is -0.038

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$TimeSinceT

t = -0.41801, df = 99, p-value = 0.6768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2354821 0.1547340

sample estimates:

cor

-0.04197466

> cor.test(test$HW\_dens\_1050, test$HWdens\_10) #r is 0.921

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HWdens\_10

t = 24.632, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8937250 0.9504202

sample estimates:

cor

0.9272096

> cor.test(test$HW\_dens\_1050, test$HWdens\_50) #r is 0.907

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HWdens\_50

t = 25.939, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9030024 0.9548663

sample estimates:

cor

0.9336663

> cor.test(test$HW\_dens\_1050, test$HWdens\_100) #r is 0.615

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HWdens\_100

t = 9.2066, df = 99, p-value = 5.883e-15

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5577521 0.7721121

sample estimates:

cor

0.6791585

> cor.test(test$HW\_dens\_1050, test$FG\_herb) #r is 0.406

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$FG\_herb

t = 4.3062, df = 99, p-value = 3.915e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2187224 0.5499338

sample estimates:

cor

0.3971833

> cor.test(test$HW\_dens\_1050, test$FG\_shrub) #r is -0.292

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$FG\_shrub

t = 0.072519, df = 99, p-value = 0.9423

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1884194 0.2024391

sample estimates:

cor

0.007288212

> cor.test(test$HW\_dens\_1050, test$NHW\_saplings) #r is 0.260 .489

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$NHW\_saplings

t = 4.0872, df = 99, p-value = 8.886e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1993331 0.5356324

sample estimates:

cor

0.3799697

> cor.test(test$HW\_dens\_1050, test$NP\_over\_20cm) #r is -0.308

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$NP\_over\_20cm

t = -2.3166, df = 99, p-value = 0.02259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40428183 -0.03277255

sample estimates:

cor

-0.2267594

> cor.test(test$HW\_dens\_1050, test$Rel\_HW2P\_canopy) #r is 0.022

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Rel\_HW2P\_canopy

t = -0.28361, df = 99, p-value = 0.7773

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2226913 0.1678821

sample estimates:

cor

-0.02849206

> cor.test(test$HW\_dens\_1050, test$Rel\_HW2P\_shrubcover) #r is 0.403

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Rel\_HW2P\_shrubcover

t = 3.9338, df = 99, p-value = 0.0001553

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.185563 0.525357

sample estimates:

cor

0.3676683

> cor.test(test$HW\_dens\_1050, test$LCR) #r is -0.215

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LCR

t = 0.37024, df = 98, p-value = 0.712

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1602206 0.2320881

sample estimates:

cor

0.03737372

> #cor.test(test$HW\_dens\_1050, test$HW\_dens\_1050) #r is

> cor.test(test$HW\_dens\_1050, test$HW\_shrub) #r is 0.512

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HW\_shrub

t = 6.5907, df = 99, p-value = 2.144e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3999533 0.6748335

sample estimates:

cor

0.5522269

> cor.test(test$HW\_dens\_1050, test$Parea) #r is -0.055

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Parea

t = -0.47373, df = 99, p-value = 0.6367

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2407597 0.1492684

sample estimates:

cor

-0.04755823

> cor.test(test$HW\_dens\_1050, test$ShapeIndex) #r is 0.108

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$ShapeIndex

t = 1.5224, df = 99, p-value = 0.1311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04553445 0.33673605

sample estimates:

cor

0.1512508

> cor.test(test$HW\_dens\_1050, test$PAratio) #r is -0.036

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$PAratio

t = -0.50186, df = 99, p-value = 0.6169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2434176 0.1465068

sample estimates:

cor

-0.05037484

> cor.test(test$HW\_dens\_1050, test$FracDimIndex) #r is 0.103

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$FracDimIndex

t = 1.3677, df = 99, p-value = 0.1745

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06087663 0.32302470

sample estimates:

cor

0.1361829

> cor.test(test$HW\_dens\_1050, test$CoreAreaIndex) #r is -0.073

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$CoreAreaIndex

t = -0.44727, df = 99, p-value = 0.6557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2382550 0.1518653

sample estimates:

cor

-0.0449068

> cor.test(test$HW\_dens\_1050, test$Ag500m) #r is -0.290

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ag500m

t = -3.2464, df = 99, p-value = 0.001595

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4767235 -0.1221500

sample estimates:

cor

-0.3101843

> cor.test(test$HW\_dens\_1050, test$Ag1km) #r is -0.336

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ag1km

t = -3.4688, df = 99, p-value = 0.0007756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4929187 -0.1429501

sample estimates:

cor

-0.3291924

> cor.test(test$HW\_dens\_1050, test$Ag5km) #r is -0.300

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ag5km

t = -3.6664, df = 99, p-value = 0.0003979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5069416 -0.1612135

sample estimates:

cor

-0.3457588

> cor.test(test$HW\_dens\_1050, test$Ag30km) #r is -0.479

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Ag30km

t = -5.693, df = 99, p-value = 1.278e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6308351 -0.3335608

sample estimates:

cor

-0.4966247

> cor.test(test$HW\_dens\_1050, test$Evergreen500m) #r is 0.320

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Evergreen500m

t = 2.714, df = 99, p-value = 0.007842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07138695 0.43616185

sample estimates:

cor

0.2631547

> cor.test(test$HW\_dens\_1050, test$Evergreen1km) #r is 0.383

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Evergreen1km

t = 3.1944, df = 99, p-value = 0.00188

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1172460 0.4728698

sample estimates:

cor

0.3056808

> cor.test(test$HW\_dens\_1050, test$Evergreen5km) #r is 0.486

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Evergreen5km

t = 5.5284, df = 99, p-value = 2.629e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3206890 0.6220778

sample estimates:

cor

0.4856877

> cor.test(test$HW\_dens\_1050, test$Evergreen30km) #r is 0.282

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Evergreen30km

t = 2.9469, df = 99, p-value = 0.004002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09374649 0.45421254

sample estimates:

cor

0.2839827

> cor.test(test$HW\_dens\_1050, test$Imperv500m) #r is -0.053

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Imperv500m

t = -0.6683, df = 99, p-value = 0.5055

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2590617 0.1301281

sample estimates:

cor

-0.0670155

> cor.test(test$HW\_dens\_1050, test$Imperv1km) #r is -0.030

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Imperv1km

t = -0.79111, df = 99, p-value = 0.4308

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2705082 0.1180080

sample estimates:

cor

-0.07925921

> cor.test(test$HW\_dens\_1050, test$Imperv5km) #r is -0.154

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Imperv5km

t = -1.8915, df = 99, p-value = 0.06148

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.368738409 0.009010086

sample estimates:

cor

-0.186758

> cor.test(test$HW\_dens\_1050, test$Imperv30km) #r is -0.118

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Imperv30km

t = 0.026386, df = 99, p-value = 0.979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1928873 0.1979886

sample estimates:

cor

0.002651927

> cor.test(test$HW\_dens\_1050, test$Protected30km) #r is 0.350

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Protected30km

t = 3.6531, df = 99, p-value = 0.0004164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1599963 0.5060126

sample estimates:

cor

0.3446583

> cor.test(test$HW\_dens\_1050, test$HighDev500m) #r is -0.110

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HighDev500m

t = -0.87416, df = 99, p-value = 0.3841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2782003 0.1097978

sample estimates:

cor

-0.08751957

> cor.test(test$HW\_dens\_1050, test$HighDev1km) #r is -0.029

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HighDev1km

t = -0.75843, df = 99, p-value = 0.45

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2674707 0.1212357

sample estimates:

cor

-0.07600447

> cor.test(test$HW\_dens\_1050, test$HighDev5km) #r is -0.144

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HighDev5km

t = -1.8162, df = 99, p-value = 0.07236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36229685 0.01644378

sample estimates:

cor

-0.1795726

> cor.test(test$HW\_dens\_1050, test$HighDev30km) #r is 0.411

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HighDev30km

t = 4.3526, df = 99, p-value = 3.279e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2227955 0.5529136

sample estimates:

cor

0.4007835

> cor.test(test$HW\_dens\_1050, test$LowDev500m) #r is -0.194

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LowDev500m

t = -2.3276, df = 99, p-value = 0.02197

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40518600 -0.03385265

sample estimates:

cor

-0.2277849

> cor.test(test$HW\_dens\_1050, test$LowDev1km) #r is -0.332

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LowDev1km

t = -3.4489, df = 99, p-value = 0.0008284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4914869 -0.1410986

sample estimates:

cor

-0.3275065

> cor.test(test$HW\_dens\_1050, test$LowDev5km) #r is -0.302

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LowDev5km

t = -3.2113, df = 99, p-value = 0.001783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4741228 -0.1188386

sample estimates:

cor

-0.3071442

> cor.test(test$HW\_dens\_1050, test$LowDev30km) #r is -0.122

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$LowDev30km

t = -0.25893, df = 99, p-value = 0.7962

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2203339 0.1702902

sample estimates:

cor

-0.02601489

> cor.test(test$HW\_dens\_1050, test$OpenDev500m) #r is -0.287

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$OpenDev500m

t = -3.4732, df = 99, p-value = 0.0007643

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4932360 -0.1433608

sample estimates:

cor

-0.3295661

> cor.test(test$HW\_dens\_1050, test$OpenDev1km) #r is -0.411

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$OpenDev1km

t = -4.4282, df = 99, p-value = 2.452e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5577202 -0.2293900

sample estimates:

cor

-0.4066006

> cor.test(test$HW\_dens\_1050, test$OpenDev5km) #r is -0.453

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$OpenDev5km

t = -4.0811, df = 99, p-value = 9.086e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5352314 -0.1987933

sample estimates:

cor

-0.3794887

> cor.test(test$HW\_dens\_1050, test$OpenDev30km) #r is -0.470

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$OpenDev30km

t = -3.9333, df = 99, p-value = 0.0001556

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5253226 -0.1855171

sample estimates:

cor

-0.3676272

> cor.test(test$HW\_dens\_1050, test$Grass500m) #r is -0.184

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Grass500m

t = -0.84228, df = 99, p-value = 0.4017

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2752518 0.1129511

sample estimates:

cor

-0.0843502

> cor.test(test$HW\_dens\_1050, test$Grass1km) #r is -0.153

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Grass1km

t = -0.31846, df = 99, p-value = 0.7508

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2260163 0.1644774

sample estimates:

cor

-0.03199016

> cor.test(test$HW\_dens\_1050, test$Grass5km) #r is -0.212

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Grass5km

t = -2.3207, df = 99, p-value = 0.02235

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40461962 -0.03317595

sample estimates:

cor

-0.2271425

> cor.test(test$HW\_dens\_1050, test$Grass30km) #r is -0.265

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Grass30km

t = -2.6521, df = 99, p-value = 0.009316

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43128785 -0.06541169

sample estimates:

cor

-0.2575583

> cor.test(test$HW\_dens\_1050, test$Schrubs500m) #r is 0.088

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Schrubs500m

t = 1.3642, df = 99, p-value = 0.1756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06122581 0.32271075

sample estimates:

cor

0.1358389

> cor.test(test$HW\_dens\_1050, test$Schrubs1km) #r is -0.037

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Schrubs1km

t = 0.53585, df = 99, p-value = 0.5933

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1431665 0.2466247

sample estimates:

cor

0.05377748

> cor.test(test$HW\_dens\_1050, test$Schrubs5km) #r is 0.005

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Schrubs5km

t = 0.95611, df = 99, p-value = 0.3413

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1016886 0.2857491

sample estimates:

cor

0.09565161

> cor.test(test$HW\_dens\_1050, test$Schrubs30km) #r is 0.322

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Schrubs30km

t = 3.0003, df = 99, p-value = 0.003413

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09883584 0.45828019

sample estimates:

cor

0.2886985

> cor.test(test$HW\_dens\_1050, test$Water500m) #r is 0.143

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Water500m

t = 1.7559, df = 99, p-value = 0.0822

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02241128 0.35709949

sample estimates:

cor

0.1737892

> cor.test(test$HW\_dens\_1050, test$Water1km) #r is 0.074

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Water1km

t = 0.78809, df = 99, p-value = 0.4325

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1183067 0.2702275

sample estimates:

cor

0.07895826

> cor.test(test$HW\_dens\_1050, test$Water5km) #r is -0.377

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Water5km

t = -3.0078, df = 99, p-value = 0.003337

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45884948 -0.09954961

sample estimates:

cor

-0.2893591

> cor.test(test$HW\_dens\_1050, test$Water30km) #r is 0.087

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$Water30km

t = 0.88764, df = 99, p-value = 0.3769

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1084646 0.2794446

sample estimates:

cor

0.08885831

> cor.test(test$HW\_dens\_1050, test$NSoilTypes) #r is -0.068

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$NSoilTypes

t = -0.61034, df = 99, p-value = 0.543

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2536304 0.1358387

sample estimates:

cor

-0.06122602

> cor.test(test$HW\_dens\_1050, test$FPSiteIndex) # r is 0.339

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$FPSiteIndex

t = 2.2923, df = 91, p-value = 0.02419

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03143965 0.41748867

sample estimates:

cor

0.2336515

> cor.test(test$HW\_dens\_1050, test$SiteIndexPrimaryS) # r is 0.245

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$SiteIndexPrimaryS

t = 1.5137, df = 91, p-value = 0.1336

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04853954 0.34927605

sample estimates:

cor

0.1567183

> cor.test(test$HW\_dens\_1050, test$PISoils) # r is -0.080

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$PISoils

t = -0.56588, df = 99, p-value = 0.5728

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2494527 0.1402135

sample estimates:

cor

-0.05678172

> cor.test(test$HW\_dens\_1050, test$SISoils) # r is 0.067

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$SISoils

t = 0.90309, df = 99, p-value = 0.3687

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1069364 0.2808694

sample estimates:

cor

0.09039204

> cor.test(test$HW\_dens\_1050, test$HydricSoils) # r is -0.263

Pearson's product-moment correlation

data: test$HW\_dens\_1050 and test$HydricSoils

t = -2.3689, df = 99, p-value = 0.01978

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40855927 -0.03788993

sample estimates:

cor

-0.231614

> #HW\_shrub by each

> #cor.test(test$HW\_shrub, test$Treatment) #non-numeric

> cor.test(test$HW\_shrub, test$Herbicide) # r is -0.366

Pearson's product-moment correlation

data: test$HW\_shrub and test$Herbicide

t = -3.0999, df = 99, p-value = 0.002521

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4658083 -0.1083047

sample estimates:

cor

-0.2974479

> cor.test(test$HW\_shrub, test$LastB) # r is -0.112

Pearson's product-moment correlation

data: test$HW\_shrub and test$LastB

t = -1.1316, df = 77, p-value = 0.2613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33941279 0.09592204

sample estimates:

cor

-0.1279011

> cor.test(test$HW\_shrub, test$LastT) #r is 0.131

Pearson's product-moment correlation

data: test$HW\_shrub and test$LastT

t = 0.68192, df = 94, p-value = 0.497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1321837 0.2668933

sample estimates:

cor

0.07016162

> cor.test(test$HW\_shrub, test$BA) #r is -0.145

Pearson's product-moment correlation

data: test$HW\_shrub and test$BA

t = -1.7969, df = 99, p-value = 0.0754

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36063464 0.01835523

sample estimates:

cor

-0.1777216

> cor.test(test$HW\_shrub, test$Nsnags) #r is -0.062

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nsnags

t = -1.2601, df = 99, p-value = 0.2106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31338474 0.07155565

sample estimates:

cor

-0.1256407

> cor.test(test$HW\_shrub, test$Ccover) #r is -0.026

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ccover

t = -0.50182, df = 99, p-value = 0.6169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2434140 0.1465106

sample estimates:

cor

-0.05037099

> cor.test(test$HW\_shrub, test$Ldepth) #r is 0.004

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ldepth

t = -0.34646, df = 99, p-value = 0.7297

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2286833 0.1617400

sample estimates:

cor

-0.0347993

> cor.test(test$HW\_shrub, test$TreeHt) #r is 0.332

Pearson's product-moment correlation

data: test$HW\_shrub and test$TreeHt

t = 0.79812, df = 99, p-value = 0.4267

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1173152 0.2711593

sample estimates:

cor

0.07995734

> cor.test(test$HW\_shrub, test$Age) #r is 0.139

Pearson's product-moment correlation

data: test$HW\_shrub and test$Age

t = 0.54629, df = 99, p-value = 0.5861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1421410 0.2476075

sample estimates:

cor

0.0548212

> cor.test(test$HW\_shrub, test$Nburns) #r is -0.018

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nburns

t = 0.10621, df = 99, p-value = 0.9156

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1851518 0.2056839

sample estimates:

cor

0.01067369

> cor.test(test$HW\_shrub, test$Nthins) #r is -0.036

Pearson's product-moment correlation

data: test$HW\_shrub and test$Nthins

t = -1.1069, df = 99, p-value = 0.271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29953276 0.08674771

sample estimates:

cor

-0.1105661

> cor.test(test$HW\_shrub, test$TimeSinceB) #r is -0.044

Pearson's product-moment correlation

data: test$HW\_shrub and test$TimeSinceB

t = -0.16004, df = 99, p-value = 0.8732

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2108590 0.1799223

sample estimates:

cor

-0.01608246

> cor.test(test$HW\_shrub, test$TimeSinceT) #r is -0.081

Pearson's product-moment correlation

data: test$HW\_shrub and test$TimeSinceT

t = -0.84279, df = 99, p-value = 0.4014

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2752995 0.1129002

sample estimates:

cor

-0.08440138

> cor.test(test$HW\_shrub, test$HWdens\_10) #r is 0.382 .457

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_10

t = 4.4441, df = 99, p-value = 2.305e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2307747 0.5587268

sample estimates:

cor

0.4078203

> cor.test(test$HW\_shrub, test$HWdens\_50) #r is 0.563 .660

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_50

t = 7.8029, df = 99, p-value = 6.331e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4794812 0.7250841

sample estimates:

cor

0.617093

> cor.test(test$HW\_shrub, test$HWdens\_100) #r is 0.779

Pearson's product-moment correlation

data: test$HW\_shrub and test$HWdens\_100

t = 11.459, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6565322 0.8282906

sample estimates:

cor

0.7550848

> cor.test(test$HW\_shrub, test$FG\_herb) #r is 0.212 .397

Pearson's product-moment correlation

data: test$HW\_shrub and test$FG\_herb

t = 3.3145, df = 99, p-value = 0.001284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1285449 0.4817284

sample estimates:

cor

0.3160443

> cor.test(test$HW\_shrub, test$FG\_shrub) #r is -0.167

Pearson's product-moment correlation

data: test$HW\_shrub and test$FG\_shrub

t = -1.0352, df = 99, p-value = 0.3031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29299983 0.09385083

sample estimates:

cor

-0.1034866

> cor.test(test$HW\_shrub, test$NHW\_saplings) #r is 0.526 .721

Pearson's product-moment correlation

data: test$HW\_shrub and test$NHW\_saplings

t = 8.1643, df = 99, p-value = 1.066e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5009998 0.7382457

sample estimates:

cor

0.6343288

> cor.test(test$HW\_shrub, test$NP\_over\_20cm) #r is -0.097

Pearson's product-moment correlation

data: test$HW\_shrub and test$NP\_over\_20cm

t = -0.38435, df = 99, p-value = 0.7015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2322872 0.1580311

sample estimates:

cor

-0.03860034

> cor.test(test$HW\_shrub, test$Rel\_HW2P\_canopy) #r is 0.442

Pearson's product-moment correlation

data: test$HW\_shrub and test$Rel\_HW2P\_canopy

t = 3.4508, df = 99, p-value = 0.0008231

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1412774 0.4916252

sample estimates:

cor

0.3276694

> cor.test(test$HW\_shrub, test$Rel\_HW2P\_shrubcover) #r is 0.477

Pearson's product-moment correlation

data: test$HW\_shrub and test$Rel\_HW2P\_shrubcover

t = 5.6444, df = 99, p-value = 1.583e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3297846 0.6282738

sample estimates:

cor

0.4934214

> cor.test(test$HW\_shrub, test$LCR) #r is -0.328

Pearson's product-moment correlation

data: test$HW\_shrub and test$LCR

t = -1.2226, df = 98, p-value = 0.2244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31148630 0.07567287

sample estimates:

cor

-0.122567

> cor.test(test$HW\_shrub, test$HW\_dens\_1050) #r is 0.512

Pearson's product-moment correlation

data: test$HW\_shrub and test$HW\_dens\_1050

t = 6.5907, df = 99, p-value = 2.144e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3999533 0.6748335

sample estimates:

cor

0.5522269

> #cor.test(test$HW\_shrub, test$HW\_shrub) #r is

> cor.test(test$HW\_shrub, test$Parea) #r is 0.254

Pearson's product-moment correlation

data: test$HW\_shrub and test$Parea

t = 1.8703, df = 99, p-value = 0.0644

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01110383 0.36692776

sample estimates:

cor

0.1847363

> cor.test(test$HW\_shrub, test$ShapeIndex) #r is 0.205

Pearson's product-moment correlation

data: test$HW\_shrub and test$ShapeIndex

t = 1.2602, df = 99, p-value = 0.2106

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07154513 0.31339427

sample estimates:

cor

0.1256511

> cor.test(test$HW\_shrub, test$PAratio) #r is -0.186

Pearson's product-moment correlation

data: test$HW\_shrub and test$PAratio

t = -1.4636, df = 99, p-value = 0.1465

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33153977 0.05137008

sample estimates:

cor

-0.1455303

> cor.test(test$HW\_shrub, test$FracDimIndex) #r is 0.150

Pearson's product-moment correlation

data: test$HW\_shrub and test$FracDimIndex

t = 0.88494, df = 99, p-value = 0.3783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1087315 0.2791956

sample estimates:

cor

0.08859035

> cor.test(test$HW\_shrub, test$CoreAreaIndex) #r is 0.203

Pearson's product-moment correlation

data: test$HW\_shrub and test$CoreAreaIndex

t = 1.6593, df = 99, p-value = 0.1002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03196824 0.34872666

sample estimates:

cor

0.1644988

> cor.test(test$HW\_shrub, test$Ag500m) #r is -0.113

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag500m

t = -1.7039, df = 99, p-value = 0.09153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35260088 0.02755474

sample estimates:

cor

-0.1687935

> cor.test(test$HW\_shrub, test$Ag1km) #r is -0.210

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag1km

t = -2.3742, df = 99, p-value = 0.01951

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40899042 -0.03840682

sample estimates:

cor

-0.2321039

> cor.test(test$HW\_shrub, test$Ag5km) #r is -0.165

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag5km

t = -2.9698, df = 99, p-value = 0.003739

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45596097 -0.09593177

sample estimates:

cor

-0.2860087

> cor.test(test$HW\_shrub, test$Ag30km) #r is -0.233 -0.463

Pearson's product-moment correlation

data: test$HW\_shrub and test$Ag30km

t = -3.6431, df = 99, p-value = 0.0004311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5053043 -0.1590689

sample estimates:

cor

-0.3438194

> cor.test(test$HW\_shrub, test$Evergreen500m) #r is 0.108

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen500m

t = 0.66939, df = 99, p-value = 0.5048

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1300204 0.2591640

sample estimates:

cor

0.06712462

> cor.test(test$HW\_shrub, test$Evergreen1km) #r is 0.096

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen1km

t = 1.2554, df = 99, p-value = 0.2123

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07201984 0.31296391

sample estimates:

cor

0.1251814

> cor.test(test$HW\_shrub, test$Evergreen5km) #r is 0.190 .4someting

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen5km

t = 3.3156, df = 99, p-value = 0.001279

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1286511 0.4818113

sample estimates:

cor

0.3161415

> cor.test(test$HW\_shrub, test$Evergreen30km) #r is 0.154

Pearson's product-moment correlation

data: test$HW\_shrub and test$Evergreen30km

t = 2.3288, df = 99, p-value = 0.0219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03396746 0.40528208

sample estimates:

cor

0.2278938

> cor.test(test$HW\_shrub, test$Imperv500m) #r is -0.038

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv500m

t = 0.30414, df = 99, p-value = 0.7617

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1658769 0.2246507

sample estimates:

cor

0.03055283

> cor.test(test$HW\_shrub, test$Imperv1km) #r is -0.175

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv1km

t = -2.1024, df = 99, p-value = 0.03805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38655770 -0.01177358

sample estimates:

cor

-0.2067371

> cor.test(test$HW\_shrub, test$Imperv5km) #r is -0.284

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv5km

t = -2.6207, df = 99, p-value = 0.01016

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42879981 -0.06237158

sample estimates:

cor

-0.254706

> cor.test(test$HW\_shrub, test$Imperv30km) #r is -0.167

Pearson's product-moment correlation

data: test$HW\_shrub and test$Imperv30km

t = -1.7349, df = 99, p-value = 0.08587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35528307 0.02449049

sample estimates:

cor

-0.1717709

> cor.test(test$HW\_shrub, test$Protected30km) #r is 0.195

Pearson's product-moment correlation

data: test$HW\_shrub and test$Protected30km

t = 2.6515, df = 99, p-value = 0.009333

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06534744 0.43123533

sample estimates:

cor

0.2574981

> cor.test(test$HW\_shrub, test$HighDev500m) #r is 0.043

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev500m

t = 1.2622, df = 99, p-value = 0.2098

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07134405 0.31357652

sample estimates:

cor

0.12585

> cor.test(test$HW\_shrub, test$HighDev1km) #r is -0.181

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev1km

t = -2.0511, df = 99, p-value = 0.0429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.382251755 -0.006721453

sample estimates:

cor

-0.2018955

> cor.test(test$HW\_shrub, test$HighDev5km) #r is -0.278

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev5km

t = -2.5241, df = 99, p-value = 0.01319

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42109639 -0.05300175

sample estimates:

cor

-0.2458939

> cor.test(test$HW\_shrub, test$HighDev30km) #r is 0.117

Pearson's product-moment correlation

data: test$HW\_shrub and test$HighDev30km

t = 2.0896, df = 99, p-value = 0.03922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0105075 0.3854802

sample estimates:

cor

0.2055247

> cor.test(test$HW\_shrub, test$LowDev500m) #r is -0.104

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev500m

t = -1.3693, df = 99, p-value = 0.174

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32315985 0.06072628

sample estimates:

cor

-0.136331

> cor.test(test$HW\_shrub, test$LowDev1km) #r is -0.283

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev1km

t = -2.9362, df = 99, p-value = 0.004132

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45338887 -0.09271822

sample estimates:

cor

-0.2830288

> cor.test(test$HW\_shrub, test$LowDev5km) #r is -0.321

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev5km

t = -3.3766, df = 99, p-value = 0.00105

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4862578 -0.1343577

sample estimates:

cor

-0.3213585

> cor.test(test$HW\_shrub, test$LowDev30km) #r is -0.175

Pearson's product-moment correlation

data: test$HW\_shrub and test$LowDev30km

t = -2.0744, df = 99, p-value = 0.04064

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384207710 -0.009013979

sample estimates:

cor

-0.2040937

> cor.test(test$HW\_shrub, test$OpenDev500m) #r is -0.303

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev500m

t = -3.4049, df = 99, p-value = 0.0009571

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4883159 -0.1370070

sample estimates:

cor

-0.3237766

> cor.test(test$HW\_shrub, test$OpenDev1km) #r is -0.457

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev1km

t = -4.6568, df = 99, p-value = 9.999e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5719500 -0.2490911

sample estimates:

cor

-0.4238942

> cor.test(test$HW\_shrub, test$OpenDev5km) #r is -0.387

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev5km

t = -3.7243, df = 99, p-value = 0.0003257

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5109868 -0.1665264

sample estimates:

cor

-0.3505565

> cor.test(test$HW\_shrub, test$OpenDev30km) #r is -0.271

Pearson's product-moment correlation

data: test$HW\_shrub and test$OpenDev30km

t = -3.2787, df = 99, p-value = 0.001439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4791052 -0.1251895

sample estimates:

cor

-0.3129713

> cor.test(test$HW\_shrub, test$Grass500m) #r is -0.318

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass500m

t = -2.3379, df = 99, p-value = 0.02141

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40602418 -0.03485468

sample estimates:

cor

-0.2287358

> cor.test(test$HW\_shrub, test$Grass1km) #r is -0.143

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass1km

t = -0.72844, df = 99, p-value = 0.4681

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2646776 0.1241962

sample estimates:

cor

-0.07301532

> cor.test(test$HW\_shrub, test$Grass5km) #r is -0.071

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass5km

t = -1.9225, df = 99, p-value = 0.05742

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.371379752 0.005949804

sample estimates:

cor

-0.1897101

> cor.test(test$HW\_shrub, test$Grass30km) #r is -0.031

Pearson's product-moment correlation

data: test$HW\_shrub and test$Grass30km

t = -1.254, df = 99, p-value = 0.2128

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31283770 0.07215901

sample estimates:

cor

-0.1250437

> cor.test(test$HW\_shrub, test$Schrubs500m) #r is 0.070

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs500m

t = 1.716, df = 99, p-value = 0.08929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02635902 0.35364826

sample estimates:

cor

0.1699558

> cor.test(test$HW\_shrub, test$Schrubs1km) #r is 0.021

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs1km

t = 1.6857, df = 99, p-value = 0.09501

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02935999 0.35101778

sample estimates:

cor

0.1670378

> cor.test(test$HW\_shrub, test$Schrubs5km) #r is 0.127

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs5km

t = 2.3273, df = 99, p-value = 0.02199

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03381996 0.40515865

sample estimates:

cor

0.2277538

> cor.test(test$HW\_shrub, test$Schrubs30km) #r is 0.189

Pearson's product-moment correlation

data: test$HW\_shrub and test$Schrubs30km

t = 2.2566, df = 99, p-value = 0.02623

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02690672 0.39935873

sample estimates:

cor

0.2211829

> cor.test(test$HW\_shrub, test$Water500m) #r is -0.062

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water500m

t = -0.53321, df = 99, p-value = 0.5951

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2463758 0.1434260

sample estimates:

cor

-0.05351325

> cor.test(test$HW\_shrub, test$Water1km) #r is -0.087

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water1km

t = -0.31142, df = 99, p-value = 0.7561

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2253452 0.1651653

sample estimates:

cor

-0.03128376

> cor.test(test$HW\_shrub, test$Water5km) #r is -0.211

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water5km

t = -1.2397, df = 99, p-value = 0.218

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31154808 0.07358031

sample estimates:

cor

-0.1236369

> cor.test(test$HW\_shrub, test$Water30km) #r is -0.014

Pearson's product-moment correlation

data: test$HW\_shrub and test$Water30km

t = 0.33276, df = 99, p-value = 0.74

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1630794 0.2273791

sample estimates:

cor

0.03342519

> cor.test(test$HW\_shrub, test$NSoilTypes) #r is 0.252

Pearson's product-moment correlation

data: test$HW\_shrub and test$NSoilTypes

t = 1.0296, df = 99, p-value = 0.3057

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0944085 0.2924854

sample estimates:

cor

0.1029299

> cor.test(test$HW\_shrub, test$FPSiteIndex) # r is 0.087

Pearson's product-moment correlation

data: test$HW\_shrub and test$FPSiteIndex

t = 1.0345, df = 91, p-value = 0.3037

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0980523 0.3048232

sample estimates:

cor

0.1078094

> cor.test(test$HW\_shrub, test$SiteIndexPrimaryS) # r is 0.052

Pearson's product-moment correlation

data: test$HW\_shrub and test$SiteIndexPrimaryS

t = 0.65046, df = 91, p-value = 0.517

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1375865 0.2680224

sample estimates:

cor

0.06802839

> cor.test(test$HW\_shrub, test$PISoils) # r is -0.187

Pearson's product-moment correlation

data: test$HW\_shrub and test$PISoils

t = -1.4988, df = 99, p-value = 0.1371

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33465415 0.04787564

sample estimates:

cor

-0.1489574

> cor.test(test$HW\_shrub, test$SISoils) # r is -0.034

Pearson's product-moment correlation

data: test$HW\_shrub and test$SISoils

t = 0.30596, df = 99, p-value = 0.7603

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1656988 0.2248245

sample estimates:

cor

0.0307358

> cor.test(test$HW\_shrub, test$HydricSoils) # r is 0.078

Pearson's product-moment correlation

data: test$HW\_shrub and test$HydricSoils

t = 0.14088, df = 99, p-value = 0.8883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1817848 0.2090184

sample estimates:

cor

0.01415748

> #Parea by each

> #cor.test(test$Parea, test$Treatment) #non-numeric

> #cor.test(test$Parea, test$Parea) #r is

> cor.test(test$Parea, test$ShapeIndex) #r is 0.271

Pearson's product-moment correlation

data: test$Parea and test$ShapeIndex

t = 2.7189, df = 99, p-value = 0.007736

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07185522 0.43654291

sample estimates:

cor

0.2635928

> cor.test(test$Parea, test$PAratio) #r is -0.775

Pearson's product-moment correlation

data: test$Parea and test$PAratio

t = -11.93, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8376815 -0.6736399

sample estimates:

cor

-0.7679714

> cor.test(test$Parea, test$FracDimIndex) #r is 0.042

Pearson's product-moment correlation

data: test$Parea and test$FracDimIndex

t = 0.32147, df = 99, p-value = 0.7485

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1641830 0.2263035

sample estimates:

cor

0.03229245

> cor.test(test$Parea, test$CoreAreaIndex) #r is 0.926

Pearson's product-moment correlation

data: test$Parea and test$CoreAreaIndex

t = 24.041, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8891134 0.9482015

sample estimates:

cor

0.9239926

> cor.test(test$Parea, test$Ag500m) #r is -0.252

Pearson's product-moment correlation

data: test$Parea and test$Ag500m

t = -2.4863, df = 99, p-value = 0.01458

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41805827 -0.04932416

sample estimates:

cor

-0.2424265

> cor.test(test$Parea, test$Ag1km) #r is -0.179

Pearson's product-moment correlation

data: test$Parea and test$Ag1km

t = -1.7687, df = 99, p-value = 0.08003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35820273 0.02114682

sample estimates:

cor

-0.1750158

> cor.test(test$Parea, test$Ag5km) #r is -0.084

Pearson's product-moment correlation

data: test$Parea and test$Ag5km

t = -0.84454, df = 99, p-value = 0.4004

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2754616 0.1127270

sample estimates:

cor

-0.08457554

> cor.test(test$Parea, test$Ag30km) #r is 0.091

Pearson's product-moment correlation

data: test$Parea and test$Ag30km

t = 0.87406, df = 99, p-value = 0.3842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1098077 0.2781910

sample estimates:

cor

0.08750958

> cor.test(test$Parea, test$Evergreen500m) #r is 0.336

Pearson's product-moment correlation

data: test$Parea and test$Evergreen500m

t = 3.3134, df = 99, p-value = 0.001288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1284450 0.4816504

sample estimates:

cor

0.3159528

> cor.test(test$Parea, test$Evergreen1km) #r is 0.149

Pearson's product-moment correlation

data: test$Parea and test$Evergreen1km

t = 1.3154, df = 99, p-value = 0.1914

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06606857 0.31834786

sample estimates:

cor

0.131063

> cor.test(test$Parea, test$Evergreen5km) #r is -0.074

Pearson's product-moment correlation

data: test$Parea and test$Evergreen5km

t = -0.9208, df = 99, p-value = 0.3594

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2825013 0.1051838

sample estimates:

cor

-0.09214984

> cor.test(test$Parea, test$Evergreen30km) #r is 0.097

Pearson's product-moment correlation

data: test$Parea and test$Evergreen30km

t = 0.57453, df = 99, p-value = 0.5669

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1393631 0.2502660

sample estimates:

cor

0.05764628

> cor.test(test$Parea, test$Imperv500m) #r is 0.106

Pearson's product-moment correlation

data: test$Parea and test$Imperv500m

t = 1.0847, df = 99, p-value = 0.2807

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08894725 0.29751365

sample estimates:

cor

0.108376

> cor.test(test$Parea, test$Imperv1km) #r is -0.113

Pearson's product-moment correlation

data: test$Parea and test$Imperv1km

t = -1.1319, df = 99, p-value = 0.2604

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30180278 0.08427032

sample estimates:

cor

-0.1130305

> cor.test(test$Parea, test$Imperv5km) #r is -0.200

Pearson's product-moment correlation

data: test$Parea and test$Imperv5km

t = -2.038, df = 99, p-value = 0.04422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.381150041 -0.005431897

sample estimates:

cor

-0.2006581

> cor.test(test$Parea, test$Imperv30km) #r is -0.026

Pearson's product-moment correlation

data: test$Parea and test$Imperv30km

t = -0.24261, df = 99, p-value = 0.8088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2187732 0.1718820

sample estimates:

cor

-0.02437616

> cor.test(test$Parea, test$Protected30km) #r is -0.166

Pearson's product-moment correlation

data: test$Parea and test$Protected30km

t = -1.8328, df = 99, p-value = 0.06984

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36371526 0.01481049

sample estimates:

cor

-0.1811531

> cor.test(test$Parea, test$HighDev500m) #r is 0.196

Pearson's product-moment correlation

data: test$Parea and test$HighDev500m

t = 2.0175, df = 99, p-value = 0.04634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.003420664 0.379429640

sample estimates:

cor

0.1987271

> cor.test(test$Parea, test$HighDev1km) #r is -0.111

Pearson's product-moment correlation

data: test$Parea and test$HighDev1km

t = -1.1138, df = 99, p-value = 0.2681

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30015788 0.08606596

sample estimates:

cor

-0.1112445

> cor.test(test$Parea, test$HighDev5km) #r is -0.195

Pearson's product-moment correlation

data: test$Parea and test$HighDev5km

t = -1.9914, df = 99, p-value = 0.04919

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3772260877 -0.0008490398

sample estimates:

cor

-0.1962557

> cor.test(test$Parea, test$HighDev30km) #r is -0.141

Pearson's product-moment correlation

data: test$Parea and test$HighDev30km

t = -1.3867, df = 99, p-value = 0.1687

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32471105 0.05899944

sample estimates:

cor

-0.1380314

> cor.test(test$Parea, test$LowDev500m) #r is -0.183

Pearson's product-moment correlation

data: test$Parea and test$LowDev500m

t = -1.8646, df = 99, p-value = 0.0652

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36644189 0.01166512

sample estimates:

cor

-0.1841941

> cor.test(test$Parea, test$LowDev1km) #r is -0.358

Pearson's product-moment correlation

data: test$Parea and test$LowDev1km

t = -3.9371, df = 99, p-value = 0.0001535

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5255780 -0.1858577

sample estimates:

cor

-0.3679322

> cor.test(test$Parea, test$LowDev5km) #r is -0.178

Pearson's product-moment correlation

data: test$Parea and test$LowDev5km

t = -1.8254, df = 99, p-value = 0.07096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36307879 0.01554363

sample estimates:

cor

-0.1804438

> cor.test(test$Parea, test$LowDev30km) #r is -0.101

Pearson's product-moment correlation

data: test$Parea and test$LowDev30km

t = -1.053, df = 99, p-value = 0.2949

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29462157 0.09209122

sample estimates:

cor

-0.1052422

> cor.test(test$Parea, test$OpenDev500m) #r is -0.268

Pearson's product-moment correlation

data: test$Parea and test$OpenDev500m

t = -2.8158, df = 99, p-value = 0.005872

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44411098 -0.08118863

sample estimates:

cor

-0.2723071

> cor.test(test$Parea, test$OpenDev1km) #r is -0.278

Pearson's product-moment correlation

data: test$Parea and test$OpenDev1km

t = -3.0511, df = 99, p-value = 0.002926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4621360 -0.1036776

sample estimates:

cor

-0.2931763

> cor.test(test$Parea, test$OpenDev5km) #r is -0.031

Pearson's product-moment correlation

data: test$Parea and test$OpenDev5km

t = -0.3059, df = 99, p-value = 0.7603

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2248184 0.1657051

sample estimates:

cor

-0.03072938

> cor.test(test$Parea, test$OpenDev30km) #r is 0.120

Pearson's product-moment correlation

data: test$Parea and test$OpenDev30km

t = 1.1302, df = 99, p-value = 0.2611

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08444244 0.30164521

sample estimates:

cor

0.1128594

> cor.test(test$Parea, test$Grass500m) #r is -0.040

Pearson's product-moment correlation

data: test$Parea and test$Grass500m

t = -0.39754, df = 99, p-value = 0.6918

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2335399 0.1567393

sample estimates:

cor

-0.03992288

> cor.test(test$Parea, test$Grass1km) #r is 0.184

Pearson's product-moment correlation

data: test$Parea and test$Grass1km

t = 1.9972, df = 99, p-value = 0.04855

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.001412703 0.377709439

sample estimates:

cor

0.1967976

> cor.test(test$Parea, test$Grass5km) #r is 0.180

Pearson's product-moment correlation

data: test$Parea and test$Grass5km

t = 1.6032, df = 99, p-value = 0.1121

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03752834 0.34382735

sample estimates:

cor

0.1590777

> cor.test(test$Parea, test$Grass30km) #r is 0.142

Pearson's product-moment correlation

data: test$Parea and test$Grass30km

t = 0.83321, df = 99, p-value = 0.4067

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1138477 0.2744122

sample estimates:

cor

0.08344833

> cor.test(test$Parea, test$Schrubs500m) #r is -0.116

Pearson's product-moment correlation

data: test$Parea and test$Schrubs500m

t = -1.1112, df = 99, p-value = 0.2692

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29992683 0.08631798

sample estimates:

cor

-0.1109937

> cor.test(test$Parea, test$Schrubs1km) #r is -0.135

Pearson's product-moment correlation

data: test$Parea and test$Schrubs1km

t = -1.3162, df = 99, p-value = 0.1912

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31841780 0.06599108

sample estimates:

cor

-0.1311395

> cor.test(test$Parea, test$Schrubs5km) #r is 0.142

Pearson's product-moment correlation

data: test$Parea and test$Schrubs5km

t = 1.4491, df = 99, p-value = 0.1505

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05280628 0.33025734

sample estimates:

cor

0.1441204

> cor.test(test$Parea, test$Schrubs30km) #r is 0.257

Pearson's product-moment correlation

data: test$Parea and test$Schrubs30km

t = 2.2524, df = 99, p-value = 0.02651

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02649124 0.39900920

sample estimates:

cor

0.2207874

> cor.test(test$Parea, test$Water500m) #r is -0.147

Pearson's product-moment correlation

data: test$Parea and test$Water500m

t = -1.5412, df = 99, p-value = 0.1265

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33838670 0.04367523

sample estimates:

cor

-0.1530706

> cor.test(test$Parea, test$Water1km) #r is -0.201

Pearson's product-moment correlation

data: test$Parea and test$Water1km

t = -2.0871, df = 99, p-value = 0.03945

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38527384 -0.01026522

sample estimates:

cor

-0.2052926

> cor.test(test$Parea, test$Water5km) #r is 0.171

Pearson's product-moment correlation

data: test$Parea and test$Water5km

t = 1.7662, df = 99, p-value = 0.08044

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02139044 0.35799024

sample estimates:

cor

0.1747795

> cor.test(test$Parea, test$Water30km) #r is -0.080

Pearson's product-moment correlation

data: test$Parea and test$Water30km

t = -0.93776, df = 99, p-value = 0.3506

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2840628 0.1035045

sample estimates:

cor

-0.0938329

> cor.test(test$Parea, test$NSoilTypes) #r is 0.561

Pearson's product-moment correlation

data: test$Parea and test$NSoilTypes

t = 6.5092, df = 99, p-value = 3.136e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3941951 0.6710934

sample estimates:

cor

0.5474576

> cor.test(test$Parea, test$FPSiteIndex) # r is 0.223

Pearson's product-moment correlation

data: test$Parea and test$FPSiteIndex

t = 1.885, df = 91, p-value = 0.06262

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01025997 0.38245862

sample estimates:

cor

0.1938535

> cor.test(test$Parea, test$SiteIndexPrimaryS) # r is 0.145

Pearson's product-moment correlation

data: test$Parea and test$SiteIndexPrimaryS

t = 1.3114, df = 91, p-value = 0.193

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06944396 0.33072384

sample estimates:

cor

0.1361909

> cor.test(test$Parea, test$PISoils) # r is 0.029

Pearson's product-moment correlation

data: test$Parea and test$PISoils

t = 0.14443, df = 99, p-value = 0.8855

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1814402 0.2093592

sample estimates:

cor

0.01451375

> cor.test(test$Parea, test$SISoils) # r is -0.373

Pearson's product-moment correlation

data: test$Parea and test$SISoils

t = -3.6536, df = 99, p-value = 0.0004158

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5060449 -0.1600386

sample estimates:

cor

-0.3446965

> cor.test(test$Parea, test$HydricSoils) # r is 0.617 0.406

Pearson's product-moment correlation

data: test$Parea and test$HydricSoils

t = 5.5075, df = 99, p-value = 2.879e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3190450 0.6209539

sample estimates:

cor

0.4842871

> #ShapeIndex by each

> #cor.test(test$ShapeIndex, test$Treatment) #non-numeric

> #cor.test(test$ShapeIndex, test$ShapeIndex)

> cor.test(test$ShapeIndex, test$PAratio) #r is 0.058

Pearson's product-moment correlation

data: test$ShapeIndex and test$PAratio

t = 0.73969, df = 99, p-value = 0.4612

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1230855 0.2657263

sample estimates:

cor

0.07413719

> cor.test(test$ShapeIndex, test$FracDimIndex) #r is 0.936 # can't use these both!

Pearson's product-moment correlation

data: test$ShapeIndex and test$FracDimIndex

t = 26.124, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9042197 0.9554479

sample estimates:

cor

0.934512

> cor.test(test$ShapeIndex, test$CoreAreaIndex) #r is 0.025

Pearson's product-moment correlation

data: test$ShapeIndex and test$CoreAreaIndex

t = 0.075498, df = 99, p-value = 0.94

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1881306 0.2027263

sample estimates:

cor

0.00758766

> cor.test(test$ShapeIndex, test$Ag500m) #r is 0.136

Pearson's product-moment correlation

data: test$ShapeIndex and test$Ag500m

t = 1.4184, df = 99, p-value = 0.1592

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05585407 0.32753119

sample estimates:

cor

0.1411257

> cor.test(test$ShapeIndex, test$Ag1km) #r is -0.004

Pearson's product-moment correlation

data: test$ShapeIndex and test$Ag1km

t = -0.24824, df = 99, p-value = 0.8045

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2193117 0.1713329

sample estimates:

cor

-0.0249415

> cor.test(test$ShapeIndex, test$Ag5km) #r is -0.091

Pearson's product-moment correlation

data: test$ShapeIndex and test$Ag5km

t = -1.3384, df = 99, p-value = 0.1838

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32040517 0.06378723

sample estimates:

cor

-0.133314

> cor.test(test$ShapeIndex, test$Ag30km) #r is -0.001

Pearson's product-moment correlation

data: test$ShapeIndex and test$Ag30km

t = -0.57885, df = 99, p-value = 0.564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2506724 0.1389378

sample estimates:

cor

-0.05807847

> cor.test(test$ShapeIndex, test$Evergreen500m) #r is 0.152

Pearson's product-moment correlation

data: test$ShapeIndex and test$Evergreen500m

t = 1.9451, df = 99, p-value = 0.0546

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.00372406 0.37329697

sample estimates:

cor

0.1918548

> cor.test(test$ShapeIndex, test$Evergreen1km) #r is -0.061

Pearson's product-moment correlation

data: test$ShapeIndex and test$Evergreen1km

t = 0.049229, df = 99, p-value = 0.9608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1906760 0.2001933

sample estimates:

cor

0.004947637

> cor.test(test$ShapeIndex, test$Evergreen5km) #r is -0.003

Pearson's product-moment correlation

data: test$ShapeIndex and test$Evergreen5km

t = 0.60034, df = 99, p-value = 0.5497

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1368227 0.2526920

sample estimates:

cor

0.06022711

> cor.test(test$ShapeIndex, test$Evergreen30km) #r is -0.087

Pearson's product-moment correlation

data: test$ShapeIndex and test$Evergreen30km

t = -0.58192, df = 99, p-value = 0.5619

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2509612 0.1386356

sample estimates:

cor

-0.05838558

> cor.test(test$ShapeIndex, test$Imperv500m) #r is 0.019

Pearson's product-moment correlation

data: test$ShapeIndex and test$Imperv500m

t = 0.14602, df = 99, p-value = 0.8842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1812848 0.2095128

sample estimates:

cor

0.0146744

> cor.test(test$ShapeIndex, test$Imperv1km) #r is -0.212

Pearson's product-moment correlation

data: test$ShapeIndex and test$Imperv1km

t = -2.2394, df = 99, p-value = 0.02736

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39794175 -0.02522315

sample estimates:

cor

-0.21958

> cor.test(test$ShapeIndex, test$Imperv5km) #r is 0.126

Pearson's product-moment correlation

data: test$ShapeIndex and test$Imperv5km

t = 1.1224, df = 99, p-value = 0.2644

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08520935 0.30094286

sample estimates:

cor

0.1120967

> cor.test(test$ShapeIndex, test$Imperv30km) #r is 0.108

Pearson's product-moment correlation

data: test$ShapeIndex and test$Imperv30km

t = 0.90429, df = 99, p-value = 0.368

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1068177 0.2809800

sample estimates:

cor

0.09051107

> cor.test(test$ShapeIndex, test$Protected30km) #r is 0.013

Pearson's product-moment correlation

data: test$ShapeIndex and test$Protected30km

t = 0.71039, df = 99, p-value = 0.4791

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1259772 0.2629943

sample estimates:

cor

0.07121544

> cor.test(test$ShapeIndex, test$HighDev500m) #r is -0.051

Pearson's product-moment correlation

data: test$ShapeIndex and test$HighDev500m

t = -0.54433, df = 99, p-value = 0.5874

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2474237 0.1423329

sample estimates:

cor

-0.05462591

> cor.test(test$ShapeIndex, test$HighDev1km) #r is -0.223

Pearson's product-moment correlation

data: test$ShapeIndex and test$HighDev1km

t = -2.3562, df = 99, p-value = 0.02043

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40751741 -0.03664168

sample estimates:

cor

-0.2304308

> cor.test(test$ShapeIndex, test$HighDev5km) #r is 0.140

Pearson's product-moment correlation

data: test$ShapeIndex and test$HighDev5km

t = 1.2707, df = 99, p-value = 0.2068

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0705061 0.3143357

sample estimates:

cor

0.1266788

> cor.test(test$ShapeIndex, test$HighDev30km) #r is -0.029

Pearson's product-moment correlation

data: test$ShapeIndex and test$HighDev30km

t = 0.03486, df = 99, p-value = 0.9723

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1920673 0.1988066

sample estimates:

cor

0.003503492

> cor.test(test$ShapeIndex, test$LowDev500m) #r is 0.114

Pearson's product-moment correlation

data: test$ShapeIndex and test$LowDev500m

t = 1.1142, df = 99, p-value = 0.2679

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0860266 0.3001940

sample estimates:

cor

0.1112837

> cor.test(test$ShapeIndex, test$LowDev1km) #r is -0.080

Pearson's product-moment correlation

data: test$ShapeIndex and test$LowDev1km

t = -0.94861, df = 99, p-value = 0.3451

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2850603 0.1024306

sample estimates:

cor

-0.0949086

> cor.test(test$ShapeIndex, test$LowDev5km) #r is 0.130

Pearson's product-moment correlation

data: test$ShapeIndex and test$LowDev5km

t = 1.0808, df = 99, p-value = 0.2824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08933498 0.29715736

sample estimates:

cor

0.1079897

> cor.test(test$ShapeIndex, test$LowDev30km) #r is 0.106

Pearson's product-moment correlation

data: test$ShapeIndex and test$LowDev30km

t = 0.88653, df = 99, p-value = 0.3775

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1085740 0.2793426

sample estimates:

cor

0.08874852

> cor.test(test$ShapeIndex, test$OpenDev500m) #r is 0.015

Pearson's product-moment correlation

data: test$ShapeIndex and test$OpenDev500m

t = 0.0044756, df = 99, p-value = 0.9964

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1950066 0.1958719

sample estimates:

cor

0.0004498185

> cor.test(test$ShapeIndex, test$OpenDev1km) #r is -0.124

Pearson's product-moment correlation

data: test$ShapeIndex and test$OpenDev1km

t = -1.5475, df = 99, p-value = 0.1249

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33894468 0.04304615

sample estimates:

cor

-0.1536861

> cor.test(test$ShapeIndex, test$OpenDev5km) #r is 0.028

Pearson's product-moment correlation

data: test$ShapeIndex and test$OpenDev5km

t = -0.029204, df = 99, p-value = 0.9768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1982607 0.1926146

sample estimates:

cor

-0.002935137

> cor.test(test$ShapeIndex, test$OpenDev30km) #r is 0.037

Pearson's product-moment correlation

data: test$ShapeIndex and test$OpenDev30km

t = 0.0082344, df = 99, p-value = 0.9934

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1946432 0.1962351

sample estimates:

cor

0.0008275848

> cor.test(test$ShapeIndex, test$Grass500m) #r is -0.225

Pearson's product-moment correlation

data: test$ShapeIndex and test$Grass500m

t = -2.7824, df = 99, p-value = 0.006462

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44151179 -0.07797596

sample estimates:

cor

-0.269311

> cor.test(test$ShapeIndex, test$Grass1km) #r is 0.204

Pearson's product-moment correlation

data: test$ShapeIndex and test$Grass1km

t = 1.6916, df = 99, p-value = 0.09386

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02877044 0.35153502

sample estimates:

cor

0.1676113

> cor.test(test$ShapeIndex, test$Grass5km) #r is 0.023

Pearson's product-moment correlation

data: test$ShapeIndex and test$Grass5km

t = -0.56506, df = 99, p-value = 0.5733

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2493752 0.1402945

sample estimates:

cor

-0.05669937

> cor.test(test$ShapeIndex, test$Grass30km) #r is -0.043

Pearson's product-moment correlation

data: test$ShapeIndex and test$Grass30km

t = -0.80301, df = 99, p-value = 0.4239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2716134 0.1168316

sample estimates:

cor

-0.08044446

> cor.test(test$ShapeIndex, test$Schrubs500m) #r is -0.071

Pearson's product-moment correlation

data: test$ShapeIndex and test$Schrubs500m

t = -0.80177, df = 99, p-value = 0.4246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2714975 0.1169550

sample estimates:

cor

-0.08032014

> cor.test(test$ShapeIndex, test$Schrubs1km) #r is 0.082

Pearson's product-moment correlation

data: test$ShapeIndex and test$Schrubs1km

t = 0.66523, df = 99, p-value = 0.5075

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1304309 0.2587743

sample estimates:

cor

0.06670886

> cor.test(test$ShapeIndex, test$Schrubs5km) #r is 0.112

Pearson's product-moment correlation

data: test$ShapeIndex and test$Schrubs5km

t = 1.1616, df = 99, p-value = 0.2482

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08132874 0.30449248

sample estimates:

cor

0.1159536

> cor.test(test$ShapeIndex, test$Schrubs30km) #r is 0.045

Pearson's product-moment correlation

data: test$ShapeIndex and test$Schrubs30km

t = 0.50036, df = 99, p-value = 0.6179

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1466543 0.2432758

sample estimates:

cor

0.05022448

> cor.test(test$ShapeIndex, test$Water500m) #r is 0.036

Pearson's product-moment correlation

data: test$ShapeIndex and test$Water500m

t = 0.05789, df = 99, p-value = 0.954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1898371 0.2010287

sample estimates:

cor

0.005818024

> cor.test(test$ShapeIndex, test$Water1km) #r is 0.154

Pearson's product-moment correlation

data: test$ShapeIndex and test$Water1km

t = 1.2934, df = 99, p-value = 0.1989

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06825418 0.31637347

sample estimates:

cor

0.1289046

> cor.test(test$ShapeIndex, test$Water5km) #r is -0.036

Pearson's product-moment correlation

data: test$ShapeIndex and test$Water5km

t = -0.50541, df = 99, p-value = 0.6144

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2437527 0.1461582

sample estimates:

cor

-0.05073018

> cor.test(test$ShapeIndex, test$Water30km) #r is 0.065

Pearson's product-moment correlation

data: test$ShapeIndex and test$Water30km

t = 1.128, df = 99, p-value = 0.262

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0846545 0.3014510

sample estimates:

cor

0.1126485

> cor.test(test$ShapeIndex, test$NSoilTypes) #r is 0.427

Pearson's product-moment correlation

data: test$ShapeIndex and test$NSoilTypes

t = 4.3321, df = 99, p-value = 3.546e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2210020 0.5516026

sample estimates:

cor

0.3991988

> cor.test(test$ShapeIndex, test$FPSiteIndex) # r is 0.100

Pearson's product-moment correlation

data: test$ShapeIndex and test$FPSiteIndex

t = 0.81641, df = 91, p-value = 0.4164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1205311 0.2840451

sample estimates:

cor

0.08527085

> cor.test(test$ShapeIndex, test$SiteIndexPrimaryS) # r is 0.023

Pearson's product-moment correlation

data: test$ShapeIndex and test$SiteIndexPrimaryS

t = -0.019789, df = 91, p-value = 0.9843

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2056957 0.2017191

sample estimates:

cor

-0.002074396

> cor.test(test$ShapeIndex, test$PISoils) # r is -0.176

Pearson's product-moment correlation

data: test$ShapeIndex and test$PISoils

t = -2.0329, df = 99, p-value = 0.04473

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.380727011 -0.004937072

sample estimates:

cor

-0.2001832

> cor.test(test$ShapeIndex, test$SISoils) # r is -0.010

Pearson's product-moment correlation

data: test$ShapeIndex and test$SISoils

t = 0.18464, df = 99, p-value = 0.8539

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1775287 0.2132204

sample estimates:

cor

0.01855429

> cor.test(test$ShapeIndex, test$HydricSoils) # r is 0.052

Pearson's product-moment correlation

data: test$ShapeIndex and test$HydricSoils

t = -0.23159, df = 99, p-value = 0.8173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2177182 0.1729568

sample estimates:

cor

-0.02326905

> #PAratio by each

> #cor.test(test$PAratio, test$Treatment) #non-numeric

> #cor.test(test$PAratio, test$PAratio)

> cor.test(test$PAratio, test$FracDimIndex) #r is 0.330

Pearson's product-moment correlation

data: test$PAratio and test$FracDimIndex

t = 3.656, df = 99, p-value = 0.0004124

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1602585 0.5062128

sample estimates:

cor

0.3448953

> cor.test(test$PAratio, test$CoreAreaIndex) #r is -0.825

Pearson's product-moment correlation

data: test$PAratio and test$CoreAreaIndex

t = -14.288, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8756267 -0.7446036

sample estimates:

cor

-0.820622

> cor.test(test$PAratio, test$Ag500m) #r is 0.478

Pearson's product-moment correlation

data: test$PAratio and test$Ag500m

t = 5.3482, df = 99, p-value = 5.725e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3063609 0.6122402

sample estimates:

cor

0.4734522

> cor.test(test$PAratio, test$Ag1km) #r is 0.325

Pearson's product-moment correlation

data: test$PAratio and test$Ag1km

t = 3.3622, df = 99, p-value = 0.0011

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1330110 0.4852101

sample estimates:

cor

0.3201284

> cor.test(test$PAratio, test$Ag5km) #r is 0.072

Pearson's product-moment correlation

data: test$PAratio and test$Ag5km

t = 0.65424, df = 99, p-value = 0.5145

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1315143 0.2577456

sample estimates:

cor

0.06561141

> cor.test(test$PAratio, test$Ag30km) #r is -0.135

Pearson's product-moment correlation

data: test$PAratio and test$Ag30km

t = -1.5487, df = 99, p-value = 0.1246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3390482 0.0429294

sample estimates:

cor

-0.1538003

> cor.test(test$PAratio, test$Evergreen500m) #r is -0.331

Pearson's product-moment correlation

data: test$PAratio and test$Evergreen500m

t = -3.2679, df = 99, p-value = 0.00149

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4783098 -0.1241737

sample estimates:

cor

-0.3120403

> cor.test(test$PAratio, test$Evergreen1km) #r is -0.176

Pearson's product-moment correlation

data: test$PAratio and test$Evergreen1km

t = -1.5695, df = 99, p-value = 0.1197

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34087541 0.04086705

sample estimates:

cor

-0.1558167

> cor.test(test$PAratio, test$Evergreen5km) #r is 0.081

Pearson's product-moment correlation

data: test$PAratio and test$Evergreen5km

t = 1.0177, df = 99, p-value = 0.3113

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09558363 0.29140064

sample estimates:

cor

0.1017565

> cor.test(test$PAratio, test$Evergreen30km) #r is -0.141

Pearson's product-moment correlation

data: test$PAratio and test$Evergreen30km

t = -1.1557, df = 99, p-value = 0.2506

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30395984 0.08191179

sample estimates:

cor

-0.1153745

> cor.test(test$PAratio, test$Imperv500m) #r is -0.002

Pearson's product-moment correlation

data: test$PAratio and test$Imperv500m

t = -0.01875, df = 99, p-value = 0.9851

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1972510 0.1936262

sample estimates:

cor

-0.001884402

> cor.test(test$PAratio, test$Imperv1km) #r is 0.0140

Pearson's product-moment correlation

data: test$PAratio and test$Imperv1km

t = 0.143, df = 99, p-value = 0.8866

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1815783 0.2092225

sample estimates:

cor

0.01437092

> cor.test(test$PAratio, test$Imperv5km) #r is 0.159

Pearson's product-moment correlation

data: test$PAratio and test$Imperv5km

t = 1.6302, df = 99, p-value = 0.1062

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03485246 0.34618780

sample estimates:

cor

0.1616881

> cor.test(test$PAratio, test$Imperv30km) #r is 0.031

Pearson's product-moment correlation

data: test$PAratio and test$Imperv30km

t = 0.27191, df = 99, p-value = 0.7863

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1690234 0.2215745

sample estimates:

cor

0.02731828

> cor.test(test$PAratio, test$Protected30km) #r is 0.128

Pearson's product-moment correlation

data: test$PAratio and test$Protected30km

t = 1.572, df = 99, p-value = 0.1191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04062224 0.34109212

sample estimates:

cor

0.156056

> cor.test(test$PAratio, test$HighDev500m) #r is -0.186

Pearson's product-moment correlation

data: test$PAratio and test$HighDev500m

t = -1.9038, df = 99, p-value = 0.05984

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.369784410 0.007799026

sample estimates:

cor

-0.1879267

> cor.test(test$PAratio, test$HighDev1km) #r is 0.009

Pearson's product-moment correlation

data: test$PAratio and test$HighDev1km

t = 0.0917, df = 99, p-value = 0.9271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1865595 0.2042871

sample estimates:

cor

0.009215811

> cor.test(test$PAratio, test$HighDev5km) #r is 0.162

Pearson's product-moment correlation

data: test$PAratio and test$HighDev5km

t = 1.6595, df = 99, p-value = 0.1002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03195081 0.34874198

sample estimates:

cor

0.1645158

> cor.test(test$PAratio, test$HighDev30km) #r is 0.222

Pearson's product-moment correlation

data: test$PAratio and test$HighDev30km

t = 2.3602, df = 99, p-value = 0.02022

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03703973 0.40784975

sample estimates:

cor

0.2308082

> cor.test(test$PAratio, test$LowDev500m) #r is 0.329

Pearson's product-moment correlation

data: test$PAratio and test$LowDev500m

t = 3.5332, df = 99, p-value = 0.0006256

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1489293 0.4975297

sample estimates:

cor

0.3346286

> cor.test(test$PAratio, test$LowDev1km) #r is 0.407

Pearson's product-moment correlation

data: test$PAratio and test$LowDev1km

t = 4.5372, df = 99, p-value = 1.604e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2388314 0.5645638

sample estimates:

cor

0.4149042

> cor.test(test$PAratio, test$LowDev5km) #r is 0.109

Pearson's product-moment correlation

data: test$PAratio and test$LowDev5km

t = 1.0836, df = 99, p-value = 0.2812

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08906121 0.29740894

sample estimates:

cor

0.1082625

> cor.test(test$PAratio, test$LowDev30km) #r is 0.100

Pearson's product-moment correlation

data: test$PAratio and test$LowDev30km

t = 0.93719, df = 99, p-value = 0.3509

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1035610 0.2840103

sample estimates:

cor

0.09377628

> cor.test(test$PAratio, test$OpenDev500m) #r is 0.264

Pearson's product-moment correlation

data: test$PAratio and test$OpenDev500m

t = 2.7703, df = 99, p-value = 0.006688

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0768135 0.4405698

sample estimates:

cor

0.2682261

> cor.test(test$PAratio, test$OpenDev1km) #r is 0.151

Pearson's product-moment correlation

data: test$PAratio and test$OpenDev1km

t = 1.6161, df = 99, p-value = 0.1093

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03624972 0.34495584

sample estimates:

cor

0.1603254

> cor.test(test$PAratio, test$OpenDev5km) #r is -0.090

Pearson's product-moment correlation

data: test$PAratio and test$OpenDev5km

t = -0.89301, df = 99, p-value = 0.374

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2799403 0.1079332

sample estimates:

cor

-0.08939176

> cor.test(test$PAratio, test$OpenDev30km) #r is -0.125

Pearson's product-moment correlation

data: test$PAratio and test$OpenDev30km

t = -1.3023, df = 99, p-value = 0.1959

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31716945 0.06737349

sample estimates:

cor

-0.1297746

> cor.test(test$PAratio, test$Grass500m) #r is -0.053

Pearson's product-moment correlation

data: test$PAratio and test$Grass500m

t = -0.54312, df = 99, p-value = 0.5883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2473097 0.1424518

sample estimates:

cor

-0.05450491

> cor.test(test$PAratio, test$Grass1km) #r is -0.055

Pearson's product-moment correlation

data: test$PAratio and test$Grass1km

t = -0.58147, df = 99, p-value = 0.5622

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2509182 0.1386806

sample estimates:

cor

-0.05833991

> cor.test(test$PAratio, test$Grass5km) #r is -0.158

Pearson's product-moment correlation

data: test$PAratio and test$Grass5km

t = -1.8775, df = 99, p-value = 0.0634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36754173 0.01039425

sample estimates:

cor

-0.1854217

> cor.test(test$PAratio, test$Grass30km) #r is -0.097

Pearson's product-moment correlation

data: test$PAratio and test$Grass30km

t = -0.97777, df = 99, p-value = 0.3306

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28773789 0.09954356

sample estimates:

cor

-0.09779834

> cor.test(test$PAratio, test$Schrubs500m) #r is -0.026

Pearson's product-moment correlation

data: test$PAratio and test$Schrubs500m

t = -0.30289, df = 99, p-value = 0.7626

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2245313 0.1659992

sample estimates:

cor

-0.03042723

> cor.test(test$PAratio, test$Schrubs1km) #r is 0.048

Pearson's product-moment correlation

data: test$PAratio and test$Schrubs1km

t = 0.4617, df = 99, p-value = 0.6453

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1504494 0.2396213

sample estimates:

cor

0.04635278

> cor.test(test$PAratio, test$Schrubs5km) #r is -0.145

Pearson's product-moment correlation

data: test$PAratio and test$Schrubs5km

t = -1.3881, df = 99, p-value = 0.1682

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32483579 0.05886047

sample estimates:

cor

-0.1381682

> cor.test(test$PAratio, test$Schrubs30km) #r is -0.174

Pearson's product-moment correlation

data: test$PAratio and test$Schrubs30km

t = -1.6479, df = 99, p-value = 0.1025

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34773023 0.03310097

sample estimates:

cor

-0.1633953

> cor.test(test$PAratio, test$Water500m) #r is 0.197

Pearson's product-moment correlation

data: test$PAratio and test$Water500m

t = 1.9036, df = 99, p-value = 0.05986

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.007812208 0.369773030

sample estimates:

cor

0.187914

> cor.test(test$PAratio, test$Water1km) #r is 0.258

Pearson's product-moment correlation

data: test$PAratio and test$Water1km

t = 2.6543, df = 99, p-value = 0.00926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06562266 0.43146030

sample estimates:

cor

0.2577561

> cor.test(test$PAratio, test$Water5km) #r is -0.168

Pearson's product-moment correlation

data: test$PAratio and test$Water5km

t = -1.727, df = 99, p-value = 0.08729

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35459667 0.02527534

sample estimates:

cor

-0.1710087

> cor.test(test$PAratio, test$Water30km) #r is 0.044

Pearson's product-moment correlation

data: test$PAratio and test$Water30km

t = 0.6763, df = 99, p-value = 0.5004

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1293391 0.2598102

sample estimates:

cor

0.06781434

> cor.test(test$PAratio, test$NSoilTypes) #r is -0.459

Pearson's product-moment correlation

data: test$PAratio and test$NSoilTypes

t = -4.8816, df = 99, p-value = 4.039e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5854977 -0.2680996

sample estimates:

cor

-0.44046

> cor.test(test$PAratio, test$FPSiteIndex) # r is -0.183

Pearson's product-moment correlation

data: test$PAratio and test$FPSiteIndex

t = -1.7091, df = 91, p-value = 0.09084

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36688109 0.02837477

sample estimates:

cor

-0.1763529

> cor.test(test$PAratio, test$SiteIndexPrimaryS) # r is -0.070

Pearson's product-moment correlation

data: test$PAratio and test$SiteIndexPrimaryS

t = -0.89536, df = 91, p-value = 0.373

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2916056 0.1123996

sample estimates:

cor

-0.09344835

> cor.test(test$PAratio, test$PISoils) # r is -0.011

Pearson's product-moment correlation

data: test$PAratio and test$PISoils

t = 0.014669, df = 99, p-value = 0.9883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1940209 0.1968568

sample estimates:

cor

0.001474266

> cor.test(test$PAratio, test$SISoils) # r is 0.313

Pearson's product-moment correlation

data: test$PAratio and test$SISoils

t = 3.1012, df = 99, p-value = 0.002511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1084340 0.4659108

sample estimates:

cor

0.2975672

> cor.test(test$PAratio, test$HydricSoils) # r is -0.502

Pearson's product-moment correlation

data: test$PAratio and test$HydricSoils

t = -4.8168, df = 99, p-value = 5.256e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5816425 -0.2626651

sample estimates:

cor

-0.4357358

> #FracDimIndex by each

> #cor.test(test$FracDimIndex, test$Treatment) #non-numeric

> #cor.test(test$FracDimIndex, test$FracDimIndex)

> cor.test(test$FracDimIndex, test$CoreAreaIndex) #r is -0.185

Pearson's product-moment correlation

data: test$FracDimIndex and test$CoreAreaIndex

t = -2.0726, df = 99, p-value = 0.04081

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.384057886 -0.008838235

sample estimates:

cor

-0.2039252

> cor.test(test$FracDimIndex, test$Ag500m) #r is 0.255

Pearson's product-moment correlation

data: test$FracDimIndex and test$Ag500m

t = 2.6208, df = 99, p-value = 0.01015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06238263 0.42880887

sample estimates:

cor

0.2547164

> cor.test(test$FracDimIndex, test$Ag1km) #r is 0.044

Pearson's product-moment correlation

data: test$FracDimIndex and test$Ag1km

t = 0.18747, df = 99, p-value = 0.8517

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1772541 0.2134910

sample estimates:

cor

0.01883774

> cor.test(test$FracDimIndex, test$Ag5km) #r is -0.101

Pearson's product-moment correlation

data: test$FracDimIndex and test$Ag5km

t = -1.4581, df = 99, p-value = 0.148

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33105564 0.05191245

sample estimates:

cor

-0.1449979

> cor.test(test$FracDimIndex, test$Ag30km) #r is -0.052

Pearson's product-moment correlation

data: test$FracDimIndex and test$Ag30km

t = -1.0545, df = 99, p-value = 0.2942

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29475812 0.09194295

sample estimates:

cor

-0.1053901

> cor.test(test$FracDimIndex, test$Evergreen500m) #r is 0.110

Pearson's product-moment correlation

data: test$FracDimIndex and test$Evergreen500m

t = 1.6434, df = 99, p-value = 0.1035

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03355121 0.34733392

sample estimates:

cor

0.1629566

> cor.test(test$FracDimIndex, test$Evergreen1km) #r is -0.042

Pearson's product-moment correlation

data: test$FracDimIndex and test$Evergreen1km

t = 0.42452, df = 99, p-value = 0.6721

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1540960 0.2360994

sample estimates:

cor

0.04262707

> cor.test(test$FracDimIndex, test$Evergreen5km) #r is 0.042

Pearson's product-moment correlation

data: test$FracDimIndex and test$Evergreen5km

t = 1.1792, df = 99, p-value = 0.2411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07957538 0.30609277

sample estimates:

cor

0.1176943

> cor.test(test$FracDimIndex, test$Evergreen30km) #r is -0.076

Pearson's product-moment correlation

data: test$FracDimIndex and test$Evergreen30km

t = -0.23761, df = 99, p-value = 0.8127

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2182950 0.1723692

sample estimates:

cor

-0.02387432

> cor.test(test$FracDimIndex, test$Imperv500m) #r is 0.028

Pearson's product-moment correlation

data: test$FracDimIndex and test$Imperv500m

t = 0.22268, df = 99, p-value = 0.8242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1738246 0.2168657

sample estimates:

cor

0.02237478

> cor.test(test$FracDimIndex, test$Imperv1km) #r is -0.184

Pearson's product-moment correlation

data: test$FracDimIndex and test$Imperv1km

t = -1.9417, df = 99, p-value = 0.05502

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3730086 0.0040591

sample estimates:

cor

-0.1915321

> cor.test(test$FracDimIndex, test$Imperv5km) #r is 0.150

Pearson's product-moment correlation

data: test$FracDimIndex and test$Imperv5km

t = 1.3363, df = 99, p-value = 0.1845

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06399758 0.32021563

sample estimates:

cor

0.1331065

> cor.test(test$FracDimIndex, test$Imperv30km) #r is 0.091

Pearson's product-moment correlation

data: test$FracDimIndex and test$Imperv30km

t = 0.71454, df = 99, p-value = 0.4766

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1255674 0.2633818

sample estimates:

cor

0.07162966

> cor.test(test$FracDimIndex, test$Protected30km) #r is 0.060

Pearson's product-moment correlation

data: test$FracDimIndex and test$Protected30km

t = 1.2292, df = 99, p-value = 0.2219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07461989 0.31060392

sample estimates:

cor

0.1226074

> cor.test(test$FracDimIndex, test$HighDev500m) #r is -0.095

Pearson's product-moment correlation

data: test$FracDimIndex and test$HighDev500m

t = -0.99235, df = 99, p-value = 0.3234

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28907474 0.09809966

sample estimates:

cor

-0.09924233

> cor.test(test$FracDimIndex, test$HighDev1km) #r is -0.189

Pearson's product-moment correlation

data: test$FracDimIndex and test$HighDev1km

t = -1.9894, df = 99, p-value = 0.04941

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3770549421 -0.0006495148

sample estimates:

cor

-0.1960639

> cor.test(test$FracDimIndex, test$HighDev5km) #r is 0.165

Pearson's product-moment correlation

data: test$FracDimIndex and test$HighDev5km

t = 1.4947, df = 99, p-value = 0.1382

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04828904 0.33428615

sample estimates:

cor

0.1485522

> cor.test(test$FracDimIndex, test$HighDev30km) #r is 0.031

Pearson's product-moment correlation

data: test$FracDimIndex and test$HighDev30km

t = 0.57358, df = 99, p-value = 0.5676

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1394569 0.2501763

sample estimates:

cor

0.05755091

> cor.test(test$FracDimIndex, test$LowDev500m) #r is 0.181

Pearson's product-moment correlation

data: test$FracDimIndex and test$LowDev500m

t = 1.805, df = 99, p-value = 0.07412

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01755628 0.36132971

sample estimates:

cor

0.1784954

> cor.test(test$FracDimIndex, test$LowDev1km) #r is 0.020

Pearson's product-moment correlation

data: test$FracDimIndex and test$LowDev1km

t = 0.097995, df = 99, p-value = 0.9221

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1859488 0.2048933

sample estimates:

cor

0.009848405

> cor.test(test$FracDimIndex, test$LowDev5km) #r is 0.119

Pearson's product-moment correlation

data: test$FracDimIndex and test$LowDev5km

t = 0.93628, df = 99, p-value = 0.3514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1036512 0.2839265

sample estimates:

cor

0.09368592

> cor.test(test$FracDimIndex, test$LowDev30km) #r is 0.110

Pearson's product-moment correlation

data: test$FracDimIndex and test$LowDev30km

t = 0.96777, df = 99, p-value = 0.3355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1005336 0.2868203

sample estimates:

cor

0.09680771

> cor.test(test$FracDimIndex, test$OpenDev500m) #r is 0.112

Pearson's product-moment correlation

data: test$FracDimIndex and test$OpenDev500m

t = 1.0016, df = 99, p-value = 0.319

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09718381 0.28992192

sample estimates:

cor

0.1001578

> cor.test(test$FracDimIndex, test$OpenDev1km) #r is -0.058

Pearson's product-moment correlation

data: test$FracDimIndex and test$OpenDev1km

t = -0.81671, df = 99, p-value = 0.4161

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2728835 0.1154784

sample estimates:

cor

-0.08180722

> cor.test(test$FracDimIndex, test$OpenDev5km) #r is -0.012

Pearson's product-moment correlation

data: test$FracDimIndex and test$OpenDev5km

t = -0.45726, df = 99, p-value = 0.6485

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2392007 0.1508855

sample estimates:

cor

-0.04590755

> cor.test(test$FracDimIndex, test$OpenDev30km) #r is -0.022

Pearson's product-moment correlation

data: test$FracDimIndex and test$OpenDev30km

t = -0.51399, df = 99, p-value = 0.6084

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2445627 0.1453152

sample estimates:

cor

-0.05158924

> cor.test(test$FracDimIndex, test$Grass500m) #r is -0.273 #0.36

Pearson's product-moment correlation

data: test$FracDimIndex and test$Grass500m

t = -3.3502, df = 99, p-value = 0.001144

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4843360 -0.1318884

sample estimates:

cor

-0.3191024

> cor.test(test$FracDimIndex, test$Grass1km) #r is 0.087

Pearson's product-moment correlation

data: test$FracDimIndex and test$Grass1km

t = 0.41898, df = 99, p-value = 0.6761

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1546385 0.2355745

sample estimates:

cor

0.04207225

> cor.test(test$FracDimIndex, test$Grass5km) #r is -0.064

Pearson's product-moment correlation

data: test$FracDimIndex and test$Grass5km

t = -1.28, df = 99, p-value = 0.2036

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31516970 0.06958492

sample estimates:

cor

-0.1275895

> cor.test(test$FracDimIndex, test$Grass30km) #r is -0.066

Pearson's product-moment correlation

data: test$FracDimIndex and test$Grass30km

t = -0.71292, df = 99, p-value = 0.4776

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2632300 0.1257279

sample estimates:

cor

-0.07146744

> cor.test(test$FracDimIndex, test$Schrubs500m) #r is -0.086

Pearson's product-moment correlation

data: test$FracDimIndex and test$Schrubs500m

t = -1.0064, df = 99, p-value = 0.3167

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29036221 0.09670755

sample estimates:

cor

-0.1006337

> cor.test(test$FracDimIndex, test$Schrubs1km) #r is 0.068

Pearson's product-moment correlation

data: test$FracDimIndex and test$Schrubs1km

t = 0.48127, df = 99, p-value = 0.6314

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.148529 0.241472

sample estimates:

cor

0.04831273

> cor.test(test$FracDimIndex, test$Schrubs5km) #r is 0.046

Pearson's product-moment correlation

data: test$FracDimIndex and test$Schrubs5km

t = 0.49174, df = 99, p-value = 0.624

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1475003 0.2424621

sample estimates:

cor

0.04936197

> cor.test(test$FracDimIndex, test$Schrubs30km) #r is -0.036

Pearson's product-moment correlation

data: test$FracDimIndex and test$Schrubs30km

t = -0.12289, df = 99, p-value = 0.9024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2072892 0.1835320

sample estimates:

cor

-0.01235027

> cor.test(test$FracDimIndex, test$Water500m) #r is 0.098

Pearson's product-moment correlation

data: test$FracDimIndex and test$Water500m

t = 0.67981, df = 99, p-value = 0.4982

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1289935 0.2601379

sample estimates:

cor

0.06816421

> cor.test(test$FracDimIndex, test$Water1km) #r is 0.175

Pearson's product-moment correlation

data: test$FracDimIndex and test$Water1km

t = 1.4951, df = 99, p-value = 0.1381

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04824573 0.33432471

sample estimates:

cor

0.1485946

> cor.test(test$FracDimIndex, test$Water5km) #r is -0.088

Pearson's product-moment correlation

data: test$FracDimIndex and test$Water5km

t = -1.0394, df = 99, p-value = 0.3012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29337620 0.09344268

sample estimates:

cor

-0.1038939

> cor.test(test$FracDimIndex, test$Water30km) #r is 0.066

Pearson's product-moment correlation

data: test$FracDimIndex and test$Water30km

t = 1.1512, df = 99, p-value = 0.2524

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08235613 0.30355376

sample estimates:

cor

0.1149331

> cor.test(test$FracDimIndex, test$NSoilTypes) #r is 0.280

Pearson's product-moment correlation

data: test$FracDimIndex and test$NSoilTypes

t = 2.5271, df = 99, p-value = 0.01308

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05329311 0.42133673

sample estimates:

cor

0.2461684

> cor.test(test$FracDimIndex, test$FPSiteIndex) # r is 0.026

Pearson's product-moment correlation

data: test$FracDimIndex and test$FPSiteIndex

t = 0.19367, df = 91, p-value = 0.8469

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1841721 0.2230836

sample estimates:

cor

0.0202977

> cor.test(test$FracDimIndex, test$SiteIndexPrimaryS) # r is -0.006

Pearson's product-moment correlation

data: test$FracDimIndex and test$SiteIndexPrimaryS

t = -0.20471, df = 91, p-value = 0.8383

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2241828 0.1830540

sample estimates:

cor

-0.02145428

> cor.test(test$FracDimIndex, test$PISoils) # r is -0.160

Pearson's product-moment correlation

data: test$FracDimIndex and test$PISoils

t = -1.846, df = 99, p-value = 0.06788

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36485101 0.01350122

sample estimates:

cor

-0.1824194

> cor.test(test$FracDimIndex, test$SISoils) # r is 0.105

Pearson's product-moment correlation

data: test$FracDimIndex and test$SISoils

t = 1.2011, df = 99, p-value = 0.2326

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07740852 0.30806747

sample estimates:

cor

0.1198438

> cor.test(test$FracDimIndex, test$HydricSoils) # r is -0.091

Pearson's product-moment correlation

data: test$FracDimIndex and test$HydricSoils

t = -1.3067, df = 99, p-value = 0.1943

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3175693 0.0669309

sample estimates:

cor

-0.1302117

> #CoreAreaIndex by each

> #cor.test(test$CoreAreaIndex, test$Treatment) #non-numeric

> #cor.test(test$CoreAreaIndex, test$CoreAreaIndex) #r is

> cor.test(test$CoreAreaIndex, test$Ag500m) #r is -0.321

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Ag500m

t = -3.282, df = 99, p-value = 0.001425

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4793414 -0.1254913

sample estimates:

cor

-0.3132479

> cor.test(test$CoreAreaIndex, test$Ag1km) #r is -0.201

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Ag1km

t = -1.9648, df = 99, p-value = 0.05224

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.374971927 0.001776505

sample estimates:

cor

-0.19373

> cor.test(test$CoreAreaIndex, test$Ag5km) #r is -0.050

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Ag5km

t = -0.4265, df = 99, p-value = 0.6707

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2362876 0.1539014

sample estimates:

cor

-0.04282599

> cor.test(test$CoreAreaIndex, test$Ag30km) #r is 0.086

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Ag30km

t = 0.95959, df = 99, p-value = 0.3396

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1013438 0.2860690

sample estimates:

cor

0.09599687

> cor.test(test$CoreAreaIndex, test$Evergreen500m) #r is 0.316

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Evergreen500m

t = 3.0011, df = 99, p-value = 0.003404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09891482 0.45834320

sample estimates:

cor

0.2887716

> cor.test(test$CoreAreaIndex, test$Evergreen1km) #r is 0.186

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Evergreen1km

t = 1.5839, df = 99, p-value = 0.1164

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03944196 0.34213633

sample estimates:

cor

0.1572092

> cor.test(test$CoreAreaIndex, test$Evergreen5km) #r is -0.054

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Evergreen5km

t = -0.84153, df = 99, p-value = 0.4021

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2751824 0.1130253

sample estimates:

cor

-0.08427559

> cor.test(test$CoreAreaIndex, test$Evergreen30km) #r is 0.101

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Evergreen30km

t = 0.57408, df = 99, p-value = 0.5672

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1394076 0.2502234

sample estimates:

cor

0.057601

> cor.test(test$CoreAreaIndex, test$Imperv500m) #r is 0.131

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Imperv500m

t = 1.3602, df = 99, p-value = 0.1769

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0616237 0.3223529

sample estimates:

cor

0.1354468

> cor.test(test$CoreAreaIndex, test$Imperv1km) #r is -0.020

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Imperv1km

t = -0.1829, df = 99, p-value = 0.8553

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2130527 0.1776989

sample estimates:

cor

-0.01837866

> cor.test(test$CoreAreaIndex, test$Imperv5km) #r is -0.238

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Imperv5km

t = -2.4618, df = 99, p-value = 0.01555

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41608223 -0.04693755

sample estimates:

cor

-0.2401736

> cor.test(test$CoreAreaIndex, test$Imperv30km) #r is -0.045

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Imperv30km

t = -0.4143, df = 99, p-value = 0.6796

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2351297 0.1550981

sample estimates:

cor

-0.04160225

> cor.test(test$CoreAreaIndex, test$Protected30km) #r is -0.156

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Protected30km

t = -1.8809, df = 99, p-value = 0.06292

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36783535 0.01005476

sample estimates:

cor

-0.1857495

> cor.test(test$CoreAreaIndex, test$HighDev500m) #r is 0.241

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$HighDev500m

t = 2.5342, df = 99, p-value = 0.01284

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05397789 0.42190141

sample estimates:

cor

0.2468134

> cor.test(test$CoreAreaIndex, test$HighDev1km) #r is -0.016

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$HighDev1km

t = -0.14676, df = 99, p-value = 0.8836

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2095837 0.1812131

sample estimates:

cor

-0.01474851

> cor.test(test$CoreAreaIndex, test$HighDev5km) #r is -0.237

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$HighDev5km

t = -2.4531, df = 99, p-value = 0.01591

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41538673 -0.04609855

sample estimates:

cor

-0.2393811

> cor.test(test$CoreAreaIndex, test$HighDev30km) #r is -0.111

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$HighDev30km

t = -1.1312, df = 99, p-value = 0.2607

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30174249 0.08433618

sample estimates:

cor

-0.112965

> cor.test(test$CoreAreaIndex, test$LowDev500m) #r is -0.172

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$LowDev500m

t = -1.7683, df = 99, p-value = 0.08009

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35816840 0.02118618

sample estimates:

cor

-0.1749776

> cor.test(test$CoreAreaIndex, test$LowDev1km) #r is -0.306

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$LowDev1km

t = -3.332, df = 99, p-value = 0.001213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4830109 -0.1301884

sample estimates:

cor

-0.317548

> cor.test(test$CoreAreaIndex, test$LowDev5km) #r is -0.212

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$LowDev5km

t = -2.1767, df = 99, p-value = 0.03188

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39274800 -0.01907027

sample estimates:

cor

-0.213713

> cor.test(test$CoreAreaIndex, test$LowDev30km) #r is -0.110

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$LowDev30km

t = -1.1098, df = 99, p-value = 0.2698

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29979470 0.08646208

sample estimates:

cor

-0.1108503

> cor.test(test$CoreAreaIndex, test$OpenDev500m) #r is -0.280

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$OpenDev500m

t = -2.9466, df = 99, p-value = 0.004006

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45419043 -0.09371888

sample estimates:

cor

-0.2839571

> cor.test(test$CoreAreaIndex, test$OpenDev1km) #r is -0.244

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$OpenDev1km

t = -2.6584, df = 99, p-value = 0.009155

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43178539 -0.06602045

sample estimates:

cor

-0.2581291

> cor.test(test$CoreAreaIndex, test$OpenDev5km) #r is -0.066

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$OpenDev5km

t = -0.63802, df = 99, p-value = 0.5249

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2562263 0.1331125

sample estimates:

cor

-0.06399154

> cor.test(test$CoreAreaIndex, test$OpenDev30km) #r is 0.810

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$OpenDev30km

t = 0.78672, df = 99, p-value = 0.4333

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1184411 0.2701011

sample estimates:

cor

0.07882278

> cor.test(test$CoreAreaIndex, test$Grass500m) #r is -0.000

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Grass500m

t = 0.056075, df = 99, p-value = 0.9554

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1900129 0.2008537

sample estimates:

cor

0.005635626

> cor.test(test$CoreAreaIndex, test$Grass1km) #r is 0.065

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Grass1km

t = 0.76873, df = 99, p-value = 0.4439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1202182 0.2684290

sample estimates:

cor

0.07703091

> cor.test(test$CoreAreaIndex, test$Grass5km) #r is 0.184

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Grass5km

t = 1.9072, df = 99, p-value = 0.0594

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.007462609 0.370074806

sample estimates:

cor

0.1882512

> cor.test(test$CoreAreaIndex, test$Grass30km) #r is 0.168

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Grass30km

t = 1.1961, df = 99, p-value = 0.2345

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07789943 0.30762038

sample estimates:

cor

0.119357

> cor.test(test$CoreAreaIndex, test$Schrubs500m) #r is -0.070

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Schrubs500m

t = -0.64074, df = 99, p-value = 0.5232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2564814 0.1328443

sample estimates:

cor

-0.06426348

> cor.test(test$CoreAreaIndex, test$Schrubs1km) #r is -0.150

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Schrubs1km

t = -1.4635, df = 99, p-value = 0.1465

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33152902 0.05138212

sample estimates:

cor

-0.1455184

> cor.test(test$CoreAreaIndex, test$Schrubs5km) #r is 0.106

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Schrubs5km

t = 1.058, df = 99, p-value = 0.2926

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09159661 0.29507702

sample estimates:

cor

0.1057355

> cor.test(test$CoreAreaIndex, test$Schrubs30km) #r is 0.261

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Schrubs30km

t = 2.3401, df = 99, p-value = 0.02128

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03507599 0.40620921

sample estimates:

cor

0.2289458

> cor.test(test$CoreAreaIndex, test$Water500m) #r is -0.104

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Water500m

t = -1.0357, df = 99, p-value = 0.3029

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2930413 0.0938059

sample estimates:

cor

-0.1035314

> cor.test(test$CoreAreaIndex, test$Water1km) #r is -0.228

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Water1km

t = -2.3491, df = 99, p-value = 0.02081

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4069412 -0.0359518

sample estimates:

cor

-0.2297766

> cor.test(test$CoreAreaIndex, test$Water5km) #r is 0.158

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Water5km

t = 1.6662, df = 99, p-value = 0.09883

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03128642 0.34932602

sample estimates:

cor

0.1651627

> cor.test(test$CoreAreaIndex, test$Water30km) #r is -0.086

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$Water30km

t = -1.1225, df = 99, p-value = 0.2644

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30095237 0.08519897

sample estimates:

cor

-0.112107

> cor.test(test$CoreAreaIndex, test$NSoilTypes) #r is 0.481 .446

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$NSoilTypes

t = 5.2141, df = 99, p-value = 1.013e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2955383 0.6047461

sample estimates:

cor

0.4641673

> cor.test(test$CoreAreaIndex, test$FPSiteIndex) # r is 0.266

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$FPSiteIndex

t = 2.3567, df = 91, p-value = 0.02058

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03798824 0.42288755

sample estimates:

cor

0.2398405

> cor.test(test$CoreAreaIndex, test$SiteIndexPrimaryS) # r is 0.150

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$SiteIndexPrimaryS

t = 1.5359, df = 91, p-value = 0.128

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04624549 0.35129315

sample estimates:

cor

0.1589603

> cor.test(test$CoreAreaIndex, test$PISoils) # r is 0.071

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$PISoils

t = 0.56406, df = 99, p-value = 0.574

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1403927 0.2492813

sample estimates:

cor

0.05659955

> cor.test(test$CoreAreaIndex, test$SISoils) # r is -0.382

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$SISoils

t = -3.7661, df = 99, p-value = 0.0002815

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5138858 -0.1703462

sample estimates:

cor

-0.3539999

> cor.test(test$CoreAreaIndex, test$HydricSoils) # r is 0.629 .460

Pearson's product-moment correlation

data: test$CoreAreaIndex and test$HydricSoils

t = 6.0466, df = 99, p-value = 2.629e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3604791 0.6489073

sample estimates:

cor

0.5193306

> #Ag500m by each

> #cor.test(test$Ag500m, test$Treatment) #non-numeric

> #cor.test(test$Ag500m, test$Ag500m)

> cor.test(test$Ag500m, test$Ag1km) #r is 0.761 # duh

Pearson's product-moment correlation

data: test$Ag500m and test$Ag1km

t = 11.71, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6657686 0.8333728

sample estimates:

cor

0.7620517

> cor.test(test$Ag500m, test$Ag5km) #r is 0.263 #huh...

Pearson's product-moment correlation

data: test$Ag500m and test$Ag5km

t = 2.7023, df = 99, p-value = 0.008103

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07025922 0.43524360

sample estimates:

cor

0.2620995

> cor.test(test$Ag500m, test$Ag30km) #r is 0.133

Pearson's product-moment correlation

data: test$Ag500m and test$Ag30km

t = 1.1361, df = 99, p-value = 0.2587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08385404 0.30218379

sample estimates:

cor

0.1134444

> cor.test(test$Ag500m, test$Evergreen500m) #r is -0.433

Pearson's product-moment correlation

data: test$Ag500m and test$Evergreen500m

t = -4.6809, df = 99, p-value = 9.083e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5734240 -0.2511473

sample estimates:

cor

-0.4256919

> cor.test(test$Ag500m, test$Evergreen1km) #r is -0.330

Pearson's product-moment correlation

data: test$Ag500m and test$Evergreen1km

t = -3.3702, df = 99, p-value = 0.001072

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4857937 -0.1337610

sample estimates:

cor

-0.3208135

> cor.test(test$Ag500m, test$Evergreen5km) #r is -0.161

Pearson's product-moment correlation

data: test$Ag500m and test$Evergreen5km

t = -1.5867, df = 99, p-value = 0.1158

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34237901 0.03916751

sample estimates:

cor

-0.1574772

> cor.test(test$Ag500m, test$Evergreen30km) #r is -0.194

Pearson's product-moment correlation

data: test$Ag500m and test$Evergreen30km

t = -1.9455, df = 99, p-value = 0.05455

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373334901 0.003679989

sample estimates:

cor

-0.1918973

> cor.test(test$Ag500m, test$Imperv500m) #r is -0.111

Pearson's product-moment correlation

data: test$Ag500m and test$Imperv500m

t = -1.1063, df = 99, p-value = 0.2713

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2994803 0.0868049

sample estimates:

cor

-0.1105092

> cor.test(test$Ag500m, test$Imperv1km) #r is -0.025

Pearson's product-moment correlation

data: test$Ag500m and test$Imperv1km

t = -0.23551, df = 99, p-value = 0.8143

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2180936 0.1725744

sample estimates:

cor

-0.02366298

> cor.test(test$Ag500m, test$Imperv5km) #r is 0.218

Pearson's product-moment correlation

data: test$Ag500m and test$Imperv5km

t = 2.2757, df = 99, p-value = 0.02502

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02877471 0.40092884

sample estimates:

cor

0.2229601

> cor.test(test$Ag500m, test$Imperv30km) #r is -0.026

Pearson's product-moment correlation

data: test$Ag500m and test$Imperv30km

t = -0.30603, df = 99, p-value = 0.7602

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2248315 0.1656917

sample estimates:

cor

-0.03074309

> cor.test(test$Ag500m, test$Protected30km) #r is -0.019

Pearson's product-moment correlation

data: test$Ag500m and test$Protected30km

t = 0.03169, df = 99, p-value = 0.9748

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1923740 0.1985007

sample estimates:

cor

0.003184967

> cor.test(test$Ag500m, test$HighDev500m) #r is -0.073

Pearson's product-moment correlation

data: test$Ag500m and test$HighDev500m

t = -0.72281, df = 99, p-value = 0.4715

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2641531 0.1247515

sample estimates:

cor

-0.07245432

> cor.test(test$Ag500m, test$HighDev1km) #r is -0.040

Pearson's product-moment correlation

data: test$Ag500m and test$HighDev1km

t = -0.38096, df = 99, p-value = 0.704

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2319649 0.1583633

sample estimates:

cor

-0.03826014

> cor.test(test$Ag500m, test$HighDev5km) #r is 0.222

Pearson's product-moment correlation

data: test$Ag500m and test$HighDev5km

t = 2.3243, df = 99, p-value = 0.02215

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0335284 0.4049146

sample estimates:

cor

0.2274771

> cor.test(test$Ag500m, test$HighDev30km) #r is -0.049

Pearson's product-moment correlation

data: test$Ag500m and test$HighDev30km

t = -0.40373, df = 99, p-value = 0.6873

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2341276 0.1561329

sample estimates:

cor

-0.04054348

> cor.test(test$Ag500m, test$LowDev500m) #r is 0.480

Pearson's product-moment correlation

data: test$Ag500m and test$LowDev500m

t = 5.5269, df = 99, p-value = 2.646e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3205757 0.6220004

sample estimates:

cor

0.4855912

> cor.test(test$Ag500m, test$LowDev1km) #r is 0.427

Pearson's product-moment correlation

data: test$Ag500m and test$LowDev1km

t = 4.7204, df = 99, p-value = 7.754e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2545101 0.5758303

sample estimates:

cor

0.4286288

> cor.test(test$Ag500m, test$LowDev5km) #r is 0.264

Pearson's product-moment correlation

data: test$Ag500m and test$LowDev5km

t = 2.7555, df = 99, p-value = 0.006976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0753852 0.4394113

sample estimates:

cor

0.2668923

> cor.test(test$Ag500m, test$LowDev30km) #r is 0.059

Pearson's product-moment correlation

data: test$Ag500m and test$LowDev30km

t = 0.42818, df = 99, p-value = 0.6694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1537370 0.2364466

sample estimates:

cor

0.0429941

> cor.test(test$Ag500m, test$OpenDev500m) #r is 0.219

Pearson's product-moment correlation

data: test$Ag500m and test$OpenDev500m

t = 2.3213, df = 99, p-value = 0.02232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03323625 0.40467010

sample estimates:

cor

0.2271997

> cor.test(test$Ag500m, test$OpenDev1km) #r is 0.153

Pearson's product-moment correlation

data: test$Ag500m and test$OpenDev1km

t = 1.5937, df = 99, p-value = 0.1142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03847262 0.34299321

sample estimates:

cor

0.1581558

> cor.test(test$Ag500m, test$OpenDev5km) #r is 0.022

Pearson's product-moment correlation

data: test$Ag500m and test$OpenDev5km

t = 0.23851, df = 99, p-value = 0.812

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1722815 0.2183811

sample estimates:

cor

0.0239647

> cor.test(test$Ag500m, test$OpenDev30km) #r is 0.086

Pearson's product-moment correlation

data: test$Ag500m and test$OpenDev30km

t = 0.76781, df = 99, p-value = 0.4444

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1203096 0.2683430

sample estimates:

cor

0.07693875

> cor.test(test$Ag500m, test$Grass500m) #r is -0.146

Pearson's product-moment correlation

data: test$Ag500m and test$Grass500m

t = -1.4696, df = 99, p-value = 0.1448

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33207190 0.05077368

sample estimates:

cor

-0.1461155

> cor.test(test$Ag500m, test$Grass1km) #r is 0.050

Pearson's product-moment correlation

data: test$Ag500m and test$Grass1km

t = 0.54667, df = 99, p-value = 0.5858

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1421035 0.2476435

sample estimates:

cor

0.05485937

> cor.test(test$Ag500m, test$Grass5km) #r is 0.084

Pearson's product-moment correlation

data: test$Ag500m and test$Grass5km

t = 0.20498, df = 99, p-value = 0.838

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1755489 0.2151701

sample estimates:

cor

0.02059703

> cor.test(test$Ag500m, test$Grass30km) #r is 0.101

Pearson's product-moment correlation

data: test$Ag500m and test$Grass30km

t = 0.18058, df = 99, p-value = 0.8571

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1779239 0.2128309

sample estimates:

cor

0.01814641

> cor.test(test$Ag500m, test$Schrubs500m) #r is -0.211

Pearson's product-moment correlation

data: test$Ag500m and test$Schrubs500m

t = -2.1691, df = 99, p-value = 0.03247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3921134 -0.0183204

sample estimates:

cor

-0.212997

> cor.test(test$Ag500m, test$Schrubs1km) #r is -0.280

Pearson's product-moment correlation

data: test$Ag500m and test$Schrubs1km

t = -2.9153, df = 99, p-value = 0.004395

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45179058 -0.09072511

sample estimates:

cor

-0.2811787

> cor.test(test$Ag500m, test$Schrubs5km) #r is -0.269

Pearson's product-moment correlation

data: test$Ag500m and test$Schrubs5km

t = -2.6276, df = 99, p-value = 0.009967

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42934490 -0.06303704

sample estimates:

cor

-0.2553307

> cor.test(test$Ag500m, test$Schrubs30km) #r is -0.167

Pearson's product-moment correlation

data: test$Ag500m and test$Schrubs30km

t = -1.7061, df = 99, p-value = 0.09113

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35278812 0.02734106

sample estimates:

cor

-0.1690013

> cor.test(test$Ag500m, test$Water500m) #r is 0.131

Pearson's product-moment correlation

data: test$Ag500m and test$Water500m

t = 1.1871, df = 99, p-value = 0.238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07879271 0.30680641

sample estimates:

cor

0.1184709

> cor.test(test$Ag500m, test$Water1km) #r is 0.009

Pearson's product-moment correlation

data: test$Ag500m and test$Water1km

t = 0.063739, df = 99, p-value = 0.9493

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1892703 0.2015928

sample estimates:

cor

0.006405923

> cor.test(test$Ag500m, test$Water5km) #r is -0.247

Pearson's product-moment correlation

data: test$Ag500m and test$Water5km

t = -2.5524, df = 99, p-value = 0.01223

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4233578 -0.0557456

sample estimates:

cor

-0.2484777

> cor.test(test$Ag500m, test$Water30km) #r is 0.021

Pearson's product-moment correlation

data: test$Ag500m and test$Water30km

t = 0.47897, df = 99, p-value = 0.633

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1487545 0.2412548

sample estimates:

cor

0.04808264

> cor.test(test$Ag500m, test$NSoilTypes) #r is -0.122

Pearson's product-moment correlation

data: test$Ag500m and test$NSoilTypes

t = -1.0003, df = 99, p-value = 0.3196

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28979981 0.09731585

sample estimates:

cor

-0.1000258

> cor.test(test$Ag500m, test$FPSiteIndex) # r is 0.009

Pearson's product-moment correlation

data: test$Ag500m and test$FPSiteIndex

t = -0.029126, df = 91, p-value = 0.9768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2066330 0.2007799

sample estimates:

cor

-0.003053208

> cor.test(test$Ag500m, test$SiteIndexPrimaryS) # r is 0.034

Pearson's product-moment correlation

data: test$Ag500m and test$SiteIndexPrimaryS

t = 0.023625, df = 91, p-value = 0.9812

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2013333 0.2060809

sample estimates:

cor

0.002476579

> cor.test(test$Ag500m, test$PISoils) # r is 0.075

Pearson's product-moment correlation

data: test$Ag500m and test$PISoils

t = 0.87455, df = 99, p-value = 0.3839

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1097600 0.2782356

sample estimates:

cor

0.08755753

> cor.test(test$Ag500m, test$SISoils) # r is 0.037

Pearson's product-moment correlation

data: test$Ag500m and test$SISoils

t = 0.42319, df = 99, p-value = 0.6731

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1542259 0.2359737

sample estimates:

cor

0.04249417

> cor.test(test$Ag500m, test$HydricSoils) # r is -0.226

Pearson's product-moment correlation

data: test$Ag500m and test$HydricSoils

t = -2.2621, df = 99, p-value = 0.02588

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39980636 -0.02743901

sample estimates:

cor

-0.2216894

> #Ag1km by each

> #cor.test(test$Ag1km, test$Treatment) #non-numeric

> #cor.test(test$Ag1km, test$Ag1km)

> cor.test(test$Ag1km, test$Ag5km) #r is 0.623

Pearson's product-moment correlation

data: test$Ag1km and test$Ag5km

t = 7.8229, df = 99, p-value = 5.737e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4807012 0.7258351

sample estimates:

cor

0.6180737

> cor.test(test$Ag1km, test$Ag30km) #r is 0.425

Pearson's product-moment correlation

data: test$Ag1km and test$Ag30km

t = 4.343, df = 99, p-value = 3.401e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2219567 0.5523007

sample estimates:

cor

0.4000425

> cor.test(test$Ag1km, test$Evergreen500m) #r is -0.440

Pearson's product-moment correlation

data: test$Ag1km and test$Evergreen500m

t = -4.6704, df = 99, p-value = 9.471e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5727826 -0.2502522

sample estimates:

cor

-0.4249095

> cor.test(test$Ag1km, test$Evergreen1km) #r is -0.552

Pearson's product-moment correlation

data: test$Ag1km and test$Evergreen1km

t = -6.2547, df = 99, p-value = 1.018e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6590860 -0.3758546

sample estimates:

cor

-0.5322002

> cor.test(test$Ag1km, test$Evergreen5km) #r is -0.465

Pearson's product-moment correlation

data: test$Ag1km and test$Evergreen5km

t = -5.0541, df = 99, p-value = 1.982e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5956031 -0.2824409

sample estimates:

cor

-0.4528811

> cor.test(test$Ag1km, test$Evergreen30km) #r is -0.455

Pearson's product-moment correlation

data: test$Ag1km and test$Evergreen30km

t = -4.6811, df = 99, p-value = 9.075e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5734371 -0.2511656

sample estimates:

cor

-0.4257079

> cor.test(test$Ag1km, test$Imperv500m) #r is 0.013

Pearson's product-moment correlation

data: test$Ag1km and test$Imperv500m

t = 0.10819, df = 99, p-value = 0.9141

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1849590 0.2058751

sample estimates:

cor

0.01087331

> cor.test(test$Ag1km, test$Imperv1km) #r is -0.003

Pearson's product-moment correlation

data: test$Ag1km and test$Imperv1km

t = -0.055563, df = 99, p-value = 0.9558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2008043 0.1900625

sample estimates:

cor

-0.005584175

> cor.test(test$Ag1km, test$Imperv5km) #r is 0.263

Pearson's product-moment correlation

data: test$Ag1km and test$Imperv5km

t = 2.6536, df = 99, p-value = 0.009279

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06555237 0.43140285

sample estimates:

cor

0.2576902

> cor.test(test$Ag1km, test$Imperv30km) #r is 0.075

Pearson's product-moment correlation

data: test$Ag1km and test$Imperv30km

t = 0.61389, df = 99, p-value = 0.5407

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1354887 0.2539639

sample estimates:

cor

0.06158122

> cor.test(test$Ag1km, test$Protected30km) #r is -0.348

Pearson's product-moment correlation

data: test$Ag1km and test$Protected30km

t = -3.4607, df = 99, p-value = 0.0007966

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4923389 -0.1422002

sample estimates:

cor

-0.3285097

> cor.test(test$Ag1km, test$HighDev500m) #r is 0.077

Pearson's product-moment correlation

data: test$Ag1km and test$HighDev500m

t = 0.75452, df = 99, p-value = 0.4523

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1216220 0.2671065

sample estimates:

cor

0.07561457

> cor.test(test$Ag1km, test$HighDev1km) #r is -0.007

Pearson's product-moment correlation

data: test$Ag1km and test$HighDev1km

t = -0.095123, df = 99, p-value = 0.9244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2046168 0.1862274

sample estimates:

cor

-0.009559806

> cor.test(test$Ag1km, test$HighDev5km) #r is 0.263

Pearson's product-moment correlation

data: test$Ag1km and test$HighDev5km

t = 2.6619, df = 99, p-value = 0.009067

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06635791 0.43206110

sample estimates:

cor

0.2584454

> cor.test(test$Ag1km, test$HighDev30km) #r is -0.263

Pearson's product-moment correlation

data: test$Ag1km and test$HighDev30km

t = -2.4336, df = 99, p-value = 0.01674

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41381075 -0.04419931

sample estimates:

cor

-0.2375862

> cor.test(test$Ag1km, test$LowDev500m) #r is 0.369

Pearson's product-moment correlation

data: test$Ag1km and test$LowDev500m

t = 3.9034, df = 99, p-value = 0.0001732

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1828136 0.5232935

sample estimates:

cor

0.3652045

> cor.test(test$Ag1km, test$LowDev1km) #r is 0.452

Pearson's product-moment correlation

data: test$Ag1km and test$LowDev1km

t = 4.8947, df = 99, p-value = 3.827e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2692012 0.5862775

sample estimates:

cor

0.4414164

> cor.test(test$Ag1km, test$LowDev5km) #r is 0.334

Pearson's product-moment correlation

data: test$Ag1km and test$LowDev5km

t = 3.4341, df = 99, p-value = 0.0008696

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1397290 0.4904265

sample estimates:

cor

0.3262587

> cor.test(test$Ag1km, test$LowDev30km) #r is 0.153

Pearson's product-moment correlation

data: test$Ag1km and test$LowDev30km

t = 1.2972, df = 99, p-value = 0.1976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0678721 0.3167189

sample estimates:

cor

0.1292821

> cor.test(test$Ag1km, test$OpenDev500m) #r is 0.154

Pearson's product-moment correlation

data: test$Ag1km and test$OpenDev500m

t = 1.497, df = 99, p-value = 0.1376

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04805258 0.33449666

sample estimates:

cor

0.148784

> cor.test(test$Ag1km, test$OpenDev1km) #r is 0.193

Pearson's product-moment correlation

data: test$Ag1km and test$OpenDev1km

t = 1.7951, df = 99, p-value = 0.07569

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0185320 0.3604808

sample estimates:

cor

0.1775503

> cor.test(test$Ag1km, test$OpenDev5km) #r is 0.084

Pearson's product-moment correlation

data: test$Ag1km and test$OpenDev5km

t = 0.65274, df = 99, p-value = 0.5154

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1316620 0.2576052

sample estimates:

cor

0.06546173

> cor.test(test$Ag1km, test$OpenDev30km) #r is 0.282

Pearson's product-moment correlation

data: test$Ag1km and test$OpenDev30km

t = 2.6565, df = 99, p-value = 0.009205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06583136 0.43163087

sample estimates:

cor

0.2579518

> cor.test(test$Ag1km, test$Grass500m) #r is -0.057

Pearson's product-moment correlation

data: test$Ag1km and test$Grass500m

t = -0.79048, df = 99, p-value = 0.4311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2704501 0.1180698

sample estimates:

cor

-0.07919693

> cor.test(test$Ag1km, test$Grass1km) #r is 0.042

Pearson's product-moment correlation

data: test$Ag1km and test$Grass1km

t = 0.1156, df = 99, p-value = 0.9082

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1842401 0.2065877

sample estimates:

cor

0.01161753

> cor.test(test$Ag1km, test$Grass5km) #r is 0.340

Pearson's product-moment correlation

data: test$Ag1km and test$Grass5km

t = 2.749, df = 99, p-value = 0.007105

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07476155 0.43890508

sample estimates:

cor

0.2663097

> cor.test(test$Ag1km, test$Grass30km) #r is 0.366

Pearson's product-moment correlation

data: test$Ag1km and test$Grass30km

t = 2.331, df = 99, p-value = 0.02178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03418422 0.40546343

sample estimates:

cor

0.2280996

> cor.test(test$Ag1km, test$Schrubs500m) #r is -0.213

Pearson's product-moment correlation

data: test$Ag1km and test$Schrubs500m

t = -2.2503, df = 99, p-value = 0.02664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39883405 -0.02628309

sample estimates:

cor

-0.2205892

> cor.test(test$Ag1km, test$Schrubs1km) #r is -0.324

Pearson's product-moment correlation

data: test$Ag1km and test$Schrubs1km

t = -3.5674, df = 99, p-value = 0.0005576

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4999604 -0.1520916

sample estimates:

cor

-0.3374988

> cor.test(test$Ag1km, test$Schrubs5km) #r is -0.427

Pearson's product-moment correlation

data: test$Ag1km and test$Schrubs5km

t = -4.6756, df = 99, p-value = 9.275e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5731040 -0.2507006

sample estimates:

cor

-0.4253015

> cor.test(test$Ag1km, test$Schrubs30km) #r is -0.288

Pearson's product-moment correlation

data: test$Ag1km and test$Schrubs30km

t = -2.6324, df = 99, p-value = 0.009838

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42972114 -0.06349656

sample estimates:

cor

-0.2557619

> cor.test(test$Ag1km, test$Water500m) #r is 0.167

Pearson's product-moment correlation

data: test$Ag1km and test$Water500m

t = 1.6028, df = 99, p-value = 0.1122

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03756601 0.34379408

sample estimates:

cor

0.1590409

> cor.test(test$Ag1km, test$Water1km) #r is -0.034

Pearson's product-moment correlation

data: test$Ag1km and test$Water1km

t = -0.43027, df = 99, p-value = 0.6679

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2366446 0.1535322

sample estimates:

cor

-0.04320346

> cor.test(test$Ag1km, test$Water5km) #r is -0.350

Pearson's product-moment correlation

data: test$Ag1km and test$Water5km

t = -3.8354, df = 99, p-value = 0.0002207

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5186548 -0.1766525

sample estimates:

cor

-0.3596741

> cor.test(test$Ag1km, test$Water30km) #r is -0.285

Pearson's product-moment correlation

data: test$Ag1km and test$Water30km

t = -2.685, df = 99, p-value = 0.008506

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43387765 -0.06858338

sample estimates:

cor

-0.2605305

> cor.test(test$Ag1km, test$NSoilTypes) #r is -0.191

Pearson's product-moment correlation

data: test$Ag1km and test$NSoilTypes

t = -1.8364, df = 99, p-value = 0.06929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36402888 0.01444909

sample estimates:

cor

-0.1815027

> cor.test(test$Ag1km, test$FPSiteIndex) # r is 0.057

Pearson's product-moment correlation

data: test$Ag1km and test$FPSiteIndex

t = 0.68834, df = 91, p-value = 0.493

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1336983 0.2716951

sample estimates:

cor

0.07197013

> cor.test(test$Ag1km, test$SiteIndexPrimaryS) # r is 0.179

Pearson's product-moment correlation

data: test$Ag1km and test$SiteIndexPrimaryS

t = 1.5879, df = 91, p-value = 0.1158

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04088195 0.35599482

sample estimates:

cor

0.1641937

> cor.test(test$Ag1km, test$PISoils) # r is 0.186

Pearson's product-moment correlation

data: test$Ag1km and test$PISoils

t = 2.0176, df = 99, p-value = 0.04634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.003428799 0.379436603

sample estimates:

cor

0.1987349

> cor.test(test$Ag1km, test$SISoils) # r is -0.001

Pearson's product-moment correlation

data: test$Ag1km and test$SISoils

t = 0.1758, df = 99, p-value = 0.8608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1783890 0.2123722

sample estimates:

cor

0.01766617

> cor.test(test$Ag1km, test$HydricSoils) # r is -0.203

Pearson's product-moment correlation

data: test$Ag1km and test$HydricSoils

t = -1.7728, df = 99, p-value = 0.07933

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35856110 0.02073581

sample estimates:

cor

-0.1754143

> #Ag5km by each

> #cor.test(test$Ag5km, test$Treatment) #non-numeric

> #cor.test(test$Ag5km, test$Ag5km)

> cor.test(test$Ag5km, test$Ag30km) #r is 0.739

Pearson's product-moment correlation

data: test$Ag5km and test$Ag30km

t = 10.273, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6082708 0.8012680

sample estimates:

cor

0.7183166

> cor.test(test$Ag5km, test$Evergreen500m) #r is -0.303

Pearson's product-moment correlation

data: test$Ag5km and test$Evergreen500m

t = -2.8762, df = 99, p-value = 0.004929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44878317 -0.08698262

sample estimates:

cor

-0.277701

> cor.test(test$Ag5km, test$Evergreen1km) #r is -0.578

Pearson's product-moment correlation

data: test$Ag5km and test$Evergreen1km

t = -6.503, df = 99, p-value = 3.229e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6708038 -0.3937502

sample estimates:

cor

-0.5470887

> cor.test(test$Ag5km, test$Evergreen5km) #r is -0.829 #high

Pearson's product-moment correlation

data: test$Ag5km and test$Evergreen5km

t = -14.013, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8718667 -0.7374371

sample estimates:

cor

-0.8153629

> cor.test(test$Ag5km, test$Evergreen30km) #r is -0.628

Pearson's product-moment correlation

data: test$Ag5km and test$Evergreen30km

t = -7.058, df = 99, p-value = 2.347e-10

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.695380 -0.431978

sample estimates:

cor

-0.5785712

> cor.test(test$Ag5km, test$Imperv500m) #r is -0.096

Pearson's product-moment correlation

data: test$Ag5km and test$Imperv500m

t = -1.0279, df = 99, p-value = 0.3065

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29232914 0.09457784

sample estimates:

cor

-0.1027609

> cor.test(test$Ag5km, test$Imperv1km) #r is 0.252

Pearson's product-moment correlation

data: test$Ag5km and test$Imperv1km

t = 2.5567, df = 99, p-value = 0.01208

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05616793 0.42370543

sample estimates:

cor

0.2488752

> cor.test(test$Ag5km, test$Imperv5km) #r is 0.251

Pearson's product-moment correlation

data: test$Ag5km and test$Imperv5km

t = 2.4441, df = 99, p-value = 0.01629

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04522031 0.41465824

sample estimates:

cor

0.2385513

> cor.test(test$Ag5km, test$Imperv30km) #r is 0.211

Pearson's product-moment correlation

data: test$Ag5km and test$Imperv30km

t = 1.9552, df = 99, p-value = 0.05338

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.002724791 0.374156680

sample estimates:

cor

0.1928172

> cor.test(test$Ag5km, test$Protected30km) #r is -0.562

Pearson's product-moment correlation

data: test$Ag5km and test$Protected30km

t = -6.4625, df = 99, p-value = 3.899e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6689238 -0.3908648

sample estimates:

cor

-0.5446947

> cor.test(test$Ag5km, test$HighDev500m) #r is -0.030

Pearson's product-moment correlation

data: test$Ag5km and test$HighDev500m

t = -0.34409, df = 99, p-value = 0.7315

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2284574 0.1619720

sample estimates:

cor

-0.03456133

> cor.test(test$Ag5km, test$HighDev1km) #r is 0.249

Pearson's product-moment correlation

data: test$Ag5km and test$HighDev1km

t = 2.5276, df = 99, p-value = 0.01307

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05334072 0.42137601

sample estimates:

cor

0.2462132

> cor.test(test$Ag5km, test$HighDev5km) #r is 0.235

Pearson's product-moment correlation

data: test$Ag5km and test$HighDev5km

t = 2.2669, df = 99, p-value = 0.02557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02790914 0.40020156

sample estimates:

cor

0.2221367

> cor.test(test$Ag5km, test$HighDev30km) #r is -0.665

Pearson's product-moment correlation

data: test$Ag5km and test$HighDev30km

t = -8.2677, df = 99, p-value = 6.386e-13

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7418724 -0.5069813

sample estimates:

cor

-0.6390963

> cor.test(test$Ag5km, test$LowDev500m) #r is 0.266

Pearson's product-moment correlation

data: test$Ag5km and test$LowDev500m

t = 2.6352, df = 99, p-value = 0.00976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06377547 0.42994945

sample estimates:

cor

0.2560236

> cor.test(test$Ag5km, test$LowDev1km) #r is 0.461

Pearson's product-moment correlation

data: test$Ag5km and test$LowDev1km

t = 4.931, df = 99, p-value = 3.298e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2722325 0.5884201

sample estimates:

cor

0.4440463

> cor.test(test$Ag5km, test$LowDev5km) #r is 0.395

Pearson's product-moment correlation

data: test$Ag5km and test$LowDev5km

t = 4.1054, df = 99, p-value = 8.309e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2009572 0.5368377

sample estimates:

cor

0.3814164

> cor.test(test$Ag5km, test$LowDev30km) #r is 0.260

Pearson's product-moment correlation

data: test$Ag5km and test$LowDev30km

t = 2.3848, df = 99, p-value = 0.01899

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03943557 0.40984803

sample estimates:

cor

0.2330784

> cor.test(test$Ag5km, test$OpenDev500m) #r is 0.263

Pearson's product-moment correlation

data: test$Ag5km and test$OpenDev500m

t = 2.5846, df = 99, p-value = 0.01121

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0588751 0.4259314

sample estimates:

cor

0.2514214

> cor.test(test$Ag5km, test$OpenDev1km) #r is 0.299

Pearson's product-moment correlation

data: test$Ag5km and test$OpenDev1km

t = 2.7949, df = 99, p-value = 0.006236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07917403 0.44248179

sample estimates:

cor

0.2704288

> cor.test(test$Ag5km, test$OpenDev5km) #r is 0.244

Pearson's product-moment correlation

data: test$Ag5km and test$OpenDev5km

t = 2.1708, df = 99, p-value = 0.03234

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01848899 0.39225611

sample estimates:

cor

0.213158

> cor.test(test$Ag5km, test$OpenDev30km) #r is 0.532

Pearson's product-moment correlation

data: test$Ag5km and test$OpenDev30km

t = 5.7905, df = 99, p-value = 8.297e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3410823 0.6359175

sample estimates:

cor

0.5029917

> cor.test(test$Ag5km, test$Grass500m) #r is -0.084

Pearson's product-moment correlation

data: test$Ag5km and test$Grass500m

t = -1.2909, df = 99, p-value = 0.1998

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31614981 0.06850154

sample estimates:

cor

-0.1286602

> cor.test(test$Ag5km, test$Grass1km) #r is -0.032

Pearson's product-moment correlation

data: test$Ag5km and test$Grass1km

t = -0.96328, df = 99, p-value = 0.3378

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2864081 0.1009782

sample estimates:

cor

-0.09636279

> cor.test(test$Ag5km, test$Grass5km) #r is 0.510

Pearson's product-moment correlation

data: test$Ag5km and test$Grass5km

t = 4.8022, df = 99, p-value = 5.576e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2614354 0.5807681

sample estimates:

cor

0.4346655

> cor.test(test$Ag5km, test$Grass30km) #r is 0.670

Pearson's product-moment correlation

data: test$Ag5km and test$Grass30km

t = 5.4222, df = 99, p-value = 4.164e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3122793 0.6163153

sample estimates:

cor

0.4785141

> cor.test(test$Ag5km, test$Schrubs500m) #r is -0.194

Pearson's product-moment correlation

data: test$Ag5km and test$Schrubs500m

t = -2.1223, df = 99, p-value = 0.03631

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38821606 -0.01372442

sample estimates:

cor

-0.2086041

> cor.test(test$Ag5km, test$Schrubs1km) #r is -0.315

Pearson's product-moment correlation

data: test$Ag5km and test$Schrubs1km

t = -3.6335, df = 99, p-value = 0.0004455

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5046299 -0.1581864

sample estimates:

cor

-0.3430209

> cor.test(test$Ag5km, test$Schrubs5km) #r is -0.573

Pearson's product-moment correlation

data: test$Ag5km and test$Schrubs5km

t = -7.1851, df = 99, p-value = 1.275e-10

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7007072 -0.4403912

sample estimates:

cor

-0.5854416

> cor.test(test$Ag5km, test$Schrubs30km) #r is -0.571

Pearson's product-moment correlation

data: test$Ag5km and test$Schrubs30km

t = -5.8152, df = 99, p-value = 7.433e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6371939 -0.3429772

sample estimates:

cor

-0.504593

> cor.test(test$Ag5km, test$Water500m) #r is -0.048

Pearson's product-moment correlation

data: test$Ag5km and test$Water500m

t = -0.51718, df = 99, p-value = 0.6062

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2448635 0.1450020

sample estimates:

cor

-0.05190832

> cor.test(test$Ag5km, test$Water1km) #r is -0.080

Pearson's product-moment correlation

data: test$Ag5km and test$Water1km

t = -0.94799, df = 99, p-value = 0.3454

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2850035 0.1024919

sample estimates:

cor

-0.09484727

> cor.test(test$Ag5km, test$Water5km) #r is -0.244

Pearson's product-moment correlation

data: test$Ag5km and test$Water5km

t = -2.7028, df = 99, p-value = 0.008092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43528387 -0.07030865

sample estimates:

cor

-0.2621457

> cor.test(test$Ag5km, test$Water30km) #r is -0.515

Pearson's product-moment correlation

data: test$Ag5km and test$Water30km

t = -5.6569, df = 99, p-value = 1.499e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6289302 -0.3307515

sample estimates:

cor

-0.494242

> cor.test(test$Ag5km, test$NSoilTypes) #r is -0.114

Pearson's product-moment correlation

data: test$Ag5km and test$NSoilTypes

t = -1.1592, df = 99, p-value = 0.2492

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30428063 0.08156067

sample estimates:

cor

-0.1157232

> cor.test(test$Ag5km, test$FPSiteIndex) # r is -0.154

Pearson's product-moment correlation

data: test$Ag5km and test$FPSiteIndex

t = -1.0594, df = 91, p-value = 0.2922

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30718002 0.09547635

sample estimates:

cor

-0.1103787

> cor.test(test$Ag5km, test$SiteIndexPrimaryS) # r is -0.050

Pearson's product-moment correlation

data: test$Ag5km and test$SiteIndexPrimaryS

t = -0.24614, df = 91, p-value = 0.8061

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2283021 0.1788546

sample estimates:

cor

-0.02579339

> cor.test(test$Ag5km, test$PISoils) # r is 0.198

Pearson's product-moment correlation

data: test$Ag5km and test$PISoils

t = 2.1361, df = 99, p-value = 0.03514

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01507906 0.38936618

sample estimates:

cor

0.2098997

> cor.test(test$Ag5km, test$SISoils) # r is -0.186

Pearson's product-moment correlation

data: test$Ag5km and test$SISoils

t = -1.6176, df = 99, p-value = 0.1089

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34508914 0.03609861

sample estimates:

cor

-0.1604728

> cor.test(test$Ag5km, test$HydricSoils) # r is -0.093

Pearson's product-moment correlation

data: test$Ag5km and test$HydricSoils

t = -0.64984, df = 99, p-value = 0.5173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2573337 0.1319478

sample estimates:

cor

-0.06517213

> #Ag30km by each

> #cor.test(test$Ag30km, test$Treatment) #non-numeric

> #cor.test(test$Ag30km, test$Ag30km)

> cor.test(test$Ag30km, test$Evergreen500m) #r is -0.299

Pearson's product-moment correlation

data: test$Ag30km and test$Evergreen500m

t = -2.2679, df = 99, p-value = 0.02551

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40028787 -0.02801183

sample estimates:

cor

-0.2222344

> cor.test(test$Ag30km, test$Evergreen1km) #r is -0.515

Pearson's product-moment correlation

data: test$Ag30km and test$Evergreen1km

t = -4.5932, df = 99, p-value = 1.286e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5680399 -0.2436509

sample estimates:

cor

-0.4191315

> cor.test(test$Ag30km, test$Evergreen5km) #r is -0.846

Pearson's product-moment correlation

data: test$Ag30km and test$Evergreen5km

t = -12.623, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8502919 -0.6968924

sample estimates:

cor

-0.7853649

> cor.test(test$Ag30km, test$Evergreen30km) #r is -0.622

Pearson's product-moment correlation

data: test$Ag30km and test$Evergreen30km

t = -5.778, df = 99, p-value = 8.771e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6352703 -0.3401224

sample estimates:

cor

-0.5021801

> cor.test(test$Ag30km, test$Imperv500m) #r is 0.022

Pearson's product-moment correlation

data: test$Ag30km and test$Imperv500m

t = 0.10563, df = 99, p-value = 0.9161

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1852077 0.2056285

sample estimates:

cor

0.01061584

> cor.test(test$Ag30km, test$Imperv1km) #r is 0.275

Pearson's product-moment correlation

data: test$Ag30km and test$Imperv1km

t = 2.7304, df = 99, p-value = 0.007489

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07296653 0.43744674

sample estimates:

cor

0.264632

> cor.test(test$Ag30km, test$Imperv5km) #r is 0.320

Pearson's product-moment correlation

data: test$Ag30km and test$Imperv5km

t = 3.0301, df = 99, p-value = 0.003119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1016786 0.4605457

sample estimates:

cor

0.2913286

> cor.test(test$Ag30km, test$Imperv30km) #r is 0.074

Pearson's product-moment correlation

data: test$Ag30km and test$Imperv30km

t = 0.40739, df = 99, p-value = 0.6846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1557749 0.2344744

sample estimates:

cor

0.04090981

> cor.test(test$Ag30km, test$Protected30km) #r is -0.825

Pearson's product-moment correlation

data: test$Ag30km and test$Protected30km

t = -13.624, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8662751 -0.7268352

sample estimates:

cor

-0.807559

> cor.test(test$Ag30km, test$HighDev500m) #r is 0.114

Pearson's product-moment correlation

data: test$Ag30km and test$HighDev500m

t = 1.0761, df = 99, p-value = 0.2845

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08980269 0.29672745

sample estimates:

cor

0.1075237

> cor.test(test$Ag30km, test$HighDev1km) #r is 0.270

Pearson's product-moment correlation

data: test$Ag30km and test$HighDev1km

t = 2.6918, df = 99, p-value = 0.008346

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06923873 0.43441201

sample estimates:

cor

0.2611442

> cor.test(test$Ag30km, test$HighDev5km) #r is 0.303

Pearson's product-moment correlation

data: test$Ag30km and test$HighDev5km

t = 2.8572, df = 99, p-value = 0.005209

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08516179 0.44731701

sample estimates:

cor

0.2760072

> cor.test(test$Ag30km, test$HighDev30km) #r is -0.803

Pearson's product-moment correlation

data: test$Ag30km and test$HighDev30km

t = -12.523, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8485470 -0.6936556

sample estimates:

cor

-0.782952

> cor.test(test$Ag30km, test$LowDev500m) #r is 0.167

Pearson's product-moment correlation

data: test$Ag30km and test$LowDev500m

t = 1.4961, df = 99, p-value = 0.1378

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04814549 0.33441395

sample estimates:

cor

0.1486929

> cor.test(test$Ag30km, test$LowDev1km) #r is 0.271

Pearson's product-moment correlation

data: test$Ag30km and test$LowDev1km

t = 2.574, df = 99, p-value = 0.01153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05784525 0.42508512

sample estimates:

cor

0.2504531

> cor.test(test$Ag30km, test$LowDev5km) #r is 0.464

Pearson's product-moment correlation

data: test$Ag30km and test$LowDev5km

t = 4.8532, df = 99, p-value = 4.533e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2657245 0.5838146

sample estimates:

cor

0.4383965

> cor.test(test$Ag30km, test$LowDev30km) #r is 0.098

Pearson's product-moment correlation

data: test$Ag30km and test$LowDev30km

t = 0.73321, df = 99, p-value = 0.4652

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1237251 0.2651226

sample estimates:

cor

0.07349127

> cor.test(test$Ag30km, test$OpenDev500m) #r is 0.203

Pearson's product-moment correlation

data: test$Ag30km and test$OpenDev500m

t = 1.9018, df = 99, p-value = 0.06011

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.007997967 0.369612649

sample estimates:

cor

0.1877347

> cor.test(test$Ag30km, test$OpenDev1km) #r is 0.330

Pearson's product-moment correlation

data: test$Ag30km and test$OpenDev1km

t = 3.0493, df = 99, p-value = 0.002943

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1035016 0.4619961

sample estimates:

cor

0.2930137

> cor.test(test$Ag30km, test$OpenDev5km) #r is 0.551

Pearson's product-moment correlation

data: test$Ag30km and test$OpenDev5km

t = 5.8117, df = 99, p-value = 7.552e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3427035 0.6370097

sample estimates:

cor

0.5043618

> cor.test(test$Ag30km, test$OpenDev30km) #r is 0.614

Pearson's product-moment correlation

data: test$Ag30km and test$OpenDev30km

t = 7.3223, df = 99, p-value = 6.582e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4493252 0.7063326

sample estimates:

cor

0.5927147

> cor.test(test$Ag30km, test$Grass500m) #r is 0.098

Pearson's product-moment correlation

data: test$Ag30km and test$Grass500m

t = 0.27946, df = 99, p-value = 0.7805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1682868 0.2222954

sample estimates:

cor

0.02807588

> cor.test(test$Ag30km, test$Grass1km) #r is 0.089

Pearson's product-moment correlation

data: test$Ag30km and test$Grass1km

t = -0.13026, df = 99, p-value = 0.8966

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2079974 0.1828167

sample estimates:

cor

-0.01309025

> cor.test(test$Ag30km, test$Grass5km) #r is 0.603

Pearson's product-moment correlation

data: test$Ag30km and test$Grass5km

t = 7.0778, df = 99, p-value = 2.134e-10

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4332994 0.6962186

sample estimates:

cor

0.5796516

> cor.test(test$Ag30km, test$Grass30km) #r is 0.620

Pearson's product-moment correlation

data: test$Ag30km and test$Grass30km

t = 6.2823, df = 99, p-value = 8.967e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3778701 0.6604127

sample estimates:

cor

0.5338818

> cor.test(test$Ag30km, test$Schrubs500m) #r is 0.019

Pearson's product-moment correlation

data: test$Ag30km and test$Schrubs500m

t = -0.095007, df = 99, p-value = 0.9245

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2046055 0.1862387

sample estimates:

cor

-0.009548089

> cor.test(test$Ag30km, test$Schrubs1km) #r is -0.015

Pearson's product-moment correlation

data: test$Ag30km and test$Schrubs1km

t = -0.64028, df = 99, p-value = 0.5235

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2564384 0.1328895

sample estimates:

cor

-0.06421762

> cor.test(test$Ag30km, test$Schrubs5km) #r is -0.263

Pearson's product-moment correlation

data: test$Ag30km and test$Schrubs5km

t = -2.9355, df = 99, p-value = 0.00414

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45333890 -0.09265586

sample estimates:

cor

-0.2829709

> cor.test(test$Ag30km, test$Schrubs30km) #r is -0.556

Pearson's product-moment correlation

data: test$Ag30km and test$Schrubs30km

t = -4.4588, df = 99, p-value = 2.178e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5596502 -0.2320463

sample estimates:

cor

-0.4089398

> cor.test(test$Ag30km, test$Water500m) #r is -0.102

Pearson's product-moment correlation

data: test$Ag30km and test$Water500m

t = -0.86828, df = 99, p-value = 0.3873

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2776564 0.1103800

sample estimates:

cor

-0.08693465

> cor.test(test$Ag30km, test$Water1km) #r is -0.010

Pearson's product-moment correlation

data: test$Ag30km and test$Water1km

t = -0.27438, df = 99, p-value = 0.7844

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2218102 0.1687827

sample estimates:

cor

-0.02756589

> cor.test(test$Ag30km, test$Water5km) #r is 0.082

Pearson's product-moment correlation

data: test$Ag30km and test$Water5km

t = 0.58362, df = 99, p-value = 0.5608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1384685 0.2511208

sample estimates:

cor

0.05855539

> cor.test(test$Ag30km, test$Water30km) #r is -0.560

Pearson's product-moment correlation

data: test$Ag30km and test$Water30km

t = -6.1571, df = 99, p-value = 1.591e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6543526 -0.3686850

sample estimates:

cor

-0.526208

> cor.test(test$Ag30km, test$NSoilTypes) #r is 0.047

Pearson's product-moment correlation

data: test$Ag30km and test$NSoilTypes

t = 0.31202, df = 99, p-value = 0.7557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1651071 0.2254021

sample estimates:

cor

0.03134361

> cor.test(test$Ag30km, test$FPSiteIndex) # r is -0.311

Pearson's product-moment correlation

data: test$Ag30km and test$FPSiteIndex

t = -1.9905, df = 91, p-value = 0.04954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3916704411 -0.0005749557

sample estimates:

cor

-0.2042593

> cor.test(test$Ag30km, test$SiteIndexPrimaryS) # r is -0.199

Pearson's product-moment correlation

data: test$Ag30km and test$SiteIndexPrimaryS

t = -0.96821, df = 91, p-value = 0.3355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2985445 0.1048886

sample estimates:

cor

-0.1009772

> cor.test(test$Ag30km, test$PISoils) # r is 0.161

Pearson's product-moment correlation

data: test$Ag30km and test$PISoils

t = 1.7522, df = 99, p-value = 0.08283

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0227734 0.3567833

sample estimates:

cor

0.1734378

> cor.test(test$Ag30km, test$SISoils) # r is -0.189

Pearson's product-moment correlation

data: test$Ag30km and test$SISoils

t = -1.8811, df = 99, p-value = 0.0629

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36784986 0.01003798

sample estimates:

cor

-0.1857657

> cor.test(test$Ag30km, test$HydricSoils) # r is 0.124

Pearson's product-moment correlation

data: test$Ag30km and test$HydricSoils

t = 1.9916, df = 99, p-value = 0.04916

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.000868414 0.377242705

sample estimates:

cor

0.1962744

> #Evergreen500m by each

> #cor.test(test$Evergreen500m, test$Treatment) #non-numeric

> #cor.test(test$Evergreen500m, test$Evergreen500m)

> cor.test(test$Evergreen500m, test$Evergreen1km) #r is 0.779

Pearson's product-moment correlation

data: test$Evergreen500m and test$Evergreen1km

t = 12.338, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6875740 0.8452594

sample estimates:

cor

0.7784112

> cor.test(test$Evergreen500m, test$Evergreen5km) #r is 0.394

Pearson's product-moment correlation

data: test$Evergreen500m and test$Evergreen5km

t = 4.1314, df = 99, p-value = 7.547e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2032702 0.5385521

sample estimates:

cor

0.3834752

> cor.test(test$Evergreen500m, test$Evergreen30km) #r is 0.353 .476

Pearson's product-moment correlation

data: test$Evergreen500m and test$Evergreen30km

t = 4.5751, df = 99, p-value = 1.382e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2420931 0.5669176

sample estimates:

cor

0.417766

> cor.test(test$Evergreen500m, test$Imperv500m) #r is 0.042

Pearson's product-moment correlation

data: test$Evergreen500m and test$Imperv500m

t = 0.4203, df = 99, p-value = 0.6752

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1545099 0.2356990

sample estimates:

cor

0.04220385

> cor.test(test$Evergreen500m, test$Imperv1km) #r is -0.139

Pearson's product-moment correlation

data: test$Evergreen500m and test$Imperv1km

t = -1.3934, df = 99, p-value = 0.1666

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32530621 0.05833627

sample estimates:

cor

-0.1386842

> cor.test(test$Evergreen500m, test$Imperv5km) #r is -0.399

Pearson's product-moment correlation

data: test$Evergreen500m and test$Imperv5km

t = -4.3094, df = 99, p-value = 3.866e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5501438 -0.2190091

sample estimates:

cor

-0.3974368

> cor.test(test$Evergreen500m, test$Imperv30km) #r is -0.327

Pearson's product-moment correlation

data: test$Evergreen500m and test$Imperv30km

t = -3.2015, df = 99, p-value = 0.001839

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4733965 -0.1179152

sample estimates:

cor

-0.3062958

> cor.test(test$Evergreen500m, test$Protected30km) #r is 0.205 .080

Pearson's product-moment correlation

data: test$Evergreen500m and test$Protected30km

t = 1.4601, df = 99, p-value = 0.1474

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05171271 0.33123395

sample estimates:

cor

0.145194

> cor.test(test$Evergreen500m, test$HighDev500m) #r is -0.055

Pearson's product-moment correlation

data: test$Evergreen500m and test$HighDev500m

t = -0.54924, df = 99, p-value = 0.5841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2478859 0.1418504

sample estimates:

cor

-0.05511686

> cor.test(test$Evergreen500m, test$HighDev1km) #r is -0.139

Pearson's product-moment correlation

data: test$Evergreen500m and test$HighDev1km

t = -1.3999, df = 99, p-value = 0.1647

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32589100 0.05768434

sample estimates:

cor

-0.1393256

> cor.test(test$Evergreen500m, test$HighDev5km) #r is -0.388

Pearson's product-moment correlation

data: test$Evergreen500m and test$HighDev5km

t = -4.1724, df = 99, p-value = 6.48e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5412459 -0.2069124

sample estimates:

cor

-0.3867135

> cor.test(test$Evergreen500m, test$HighDev30km) #r is 0.308

Pearson's product-moment correlation

data: test$Evergreen500m and test$HighDev30km

t = 2.4923, df = 99, p-value = 0.01435

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04990587 0.41853938

sample estimates:

cor

0.2429753

> cor.test(test$Evergreen500m, test$LowDev500m) #r is -0.154

Pearson's product-moment correlation

data: test$Evergreen500m and test$LowDev500m

t = -1.4502, df = 99, p-value = 0.1502

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33035553 0.05269638

sample estimates:

cor

-0.1442283

> cor.test(test$Evergreen500m, test$LowDev1km) #r is -0.413

Pearson's product-moment correlation

data: test$Evergreen500m and test$LowDev1km

t = -4.0905, df = 99, p-value = 8.777e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5358543 -0.1996321

sample estimates:

cor

-0.3802361

> cor.test(test$Evergreen500m, test$LowDev5km) #r is -0.459

Pearson's product-moment correlation

data: test$Evergreen500m and test$LowDev5km

t = -4.9922, df = 99, p-value = 2.562e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5920092 -0.2773245

sample estimates:

cor

-0.4484573

> cor.test(test$Evergreen500m, test$LowDev30km) #r is -0.365

Pearson's product-moment correlation

data: test$Evergreen500m and test$LowDev30km

t = -3.1925, df = 99, p-value = 0.001891

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4727300 -0.1170684

sample estimates:

cor

-0.3055175

> cor.test(test$Evergreen500m, test$OpenDev500m) #r is -0.139

Pearson's product-moment correlation

data: test$Evergreen500m and test$OpenDev500m

t = -1.2858, df = 99, p-value = 0.2015

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31569317 0.06900641

sample estimates:

cor

-0.1281613

> cor.test(test$Evergreen500m, test$OpenDev1km) #r is -0.267

Pearson's product-moment correlation

data: test$Evergreen500m and test$OpenDev1km

t = -2.4061, df = 99, p-value = 0.01798

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41157947 -0.04151494

sample estimates:

cor

-0.2350471

> cor.test(test$Evergreen500m, test$OpenDev5km) #r is -0.402

Pearson's product-moment correlation

data: test$Evergreen500m and test$OpenDev5km

t = -4.1651, df = 99, p-value = 6.657e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5407718 -0.2062707

sample estimates:

cor

-0.3861432

> cor.test(test$Evergreen500m, test$OpenDev30km) #r is -0.455

Pearson's product-moment correlation

data: test$Evergreen500m and test$OpenDev30km

t = -4.225, df = 99, p-value = 5.321e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5446812 -0.2115705

sample estimates:

cor

-0.3908485

> cor.test(test$Evergreen500m, test$Grass500m) #r is -0.363

Pearson's product-moment correlation

data: test$Evergreen500m and test$Grass500m

t = -3.7218, df = 99, p-value = 0.0003286

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5108084 -0.1662916

sample estimates:

cor

-0.3503447

> cor.test(test$Evergreen500m, test$Grass1km) #r is -0.416

Pearson's product-moment correlation

data: test$Evergreen500m and test$Grass1km

t = -4.2722, df = 99, p-value = 4.452e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5477463 -0.2157396

sample estimates:

cor

-0.3945434

> cor.test(test$Evergreen500m, test$Grass5km) #r is -0.171

Pearson's product-moment correlation

data: test$Evergreen500m and test$Grass5km

t = -0.040256, df = 99, p-value = 0.968

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1993275 0.1915449

sample estimates:

cor

-0.004045838

> cor.test(test$Evergreen500m, test$Grass30km) #r is -0.228

Pearson's product-moment correlation

data: test$Evergreen500m and test$Grass30km

t = 0.30127, df = 99, p-value = 0.7638

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1661576 0.2243766

sample estimates:

cor

0.03026448

> cor.test(test$Evergreen500m, test$Schrubs500m) #r is -0.238

Pearson's product-moment correlation

data: test$Evergreen500m and test$Schrubs500m

t = -2.4278, df = 99, p-value = 0.017

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41333886 -0.04363115

sample estimates:

cor

-0.237049

> cor.test(test$Evergreen500m, test$Schrubs1km) #r is -0.161

Pearson's product-moment correlation

data: test$Evergreen500m and test$Schrubs1km

t = -1.5756, df = 99, p-value = 0.1183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34140651 0.04026699

sample estimates:

cor

-0.1564031

> cor.test(test$Evergreen500m, test$Schrubs5km) #r is 0.159

Pearson's product-moment correlation

data: test$Evergreen500m and test$Schrubs5km

t = 1.3962, df = 99, p-value = 0.1658

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05805764 0.32555618

sample estimates:

cor

0.1389583

> cor.test(test$Evergreen500m, test$Schrubs30km) #r is 0.495

Pearson's product-moment correlation

data: test$Evergreen500m and test$Schrubs30km

t = 5.4846, df = 99, p-value = 3.179e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3172345 0.6197146

sample estimates:

cor

0.4827436

> cor.test(test$Evergreen500m, test$Water500m) #r is 0.007

Pearson's product-moment correlation

data: test$Evergreen500m and test$Water500m

t = 0.3233, df = 99, p-value = 0.7472

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1640045 0.2264775

sample estimates:

cor

0.03247573

> cor.test(test$Evergreen500m, test$Water1km) #r is -0.120

Pearson's product-moment correlation

data: test$Evergreen500m and test$Water1km

t = -1.066, df = 99, p-value = 0.289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29581219 0.09079783

sample estimates:

cor

-0.1065319

> cor.test(test$Evergreen500m, test$Water5km) #r is -0.137

Pearson's product-moment correlation

data: test$Evergreen500m and test$Water5km

t = -1.3168, df = 99, p-value = 0.191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31846847 0.06593494

sample estimates:

cor

-0.1311949

> cor.test(test$Evergreen500m, test$Water30km) #r is 0.095

Pearson's product-moment correlation

data: test$Evergreen500m and test$Water30km

t = 0.2244, df = 99, p-value = 0.8229

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1736574 0.2170300

sample estimates:

cor

0.02254708

> cor.test(test$Evergreen500m, test$NSoilTypes) #r is 0.417

Pearson's product-moment correlation

data: test$Evergreen500m and test$NSoilTypes

t = 3.996, df = 99, p-value = 0.000124

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1911649 0.5295492

sample estimates:

cor

0.3726804

> cor.test(test$Evergreen500m, test$FPSiteIndex) # r is 0.176

Pearson's product-moment correlation

data: test$Evergreen500m and test$FPSiteIndex

t = 1.6917, df = 91, p-value = 0.09413

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03016914 0.36532589

sample estimates:

cor

0.1746122

> cor.test(test$Evergreen500m, test$SiteIndexPrimaryS) # r is 0.111

Pearson's product-moment correlation

data: test$Evergreen500m and test$SiteIndexPrimaryS

t = 1.5507, df = 91, p-value = 0.1244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04471374 0.35263793

sample estimates:

cor

0.1604561

> cor.test(test$Evergreen500m, test$PISoils) # r is -0.110

Pearson's product-moment correlation

data: test$Evergreen500m and test$PISoils

t = -1.4105, df = 99, p-value = 0.1615

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32683476 0.05663152

sample estimates:

cor

-0.1403613

> cor.test(test$Evergreen500m, test$SISoils) # r is -0.077

Pearson's product-moment correlation

data: test$Evergreen500m and test$SISoils

t = -1.3487, df = 99, p-value = 0.1805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32132815 0.06276244

sample estimates:

cor

-0.1343245

> cor.test(test$Evergreen500m, test$HydricSoils) # r is 0.032

Pearson's product-moment correlation

data: test$Evergreen500m and test$HydricSoils

t = 0.97678, df = 99, p-value = 0.3311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0996417 0.2876470

sample estimates:

cor

0.09770017

> #Evergreen1km by each

> #cor.test(test$Evergreen1km, test$Treatment) #non-numeric

> #cor.test(test$Evergreen1km, test$Evergreen1km)

> cor.test(test$Evergreen1km, test$Evergreen5km) #r is 0.695

Pearson's product-moment correlation

data: test$Evergreen1km and test$Evergreen5km

t = 9.351, df = 99, p-value = 2.85e-15

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5650224 0.7763644

sample estimates:

cor

0.6848368

> cor.test(test$Evergreen1km, test$Evergreen30km) #r is 0.599 .738

Pearson's product-moment correlation

data: test$Evergreen1km and test$Evergreen30km

t = 8.9816, df = 99, p-value = 1.817e-14

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5461476 0.7652848

sample estimates:

cor

0.670065

> cor.test(test$Evergreen1km, test$Imperv500m) #r is 0.008

Pearson's product-moment correlation

data: test$Evergreen1km and test$Imperv500m

t = 0.096202, df = 99, p-value = 0.9236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1861228 0.2047206

sample estimates:

cor

0.009668163

> cor.test(test$Evergreen1km, test$Imperv1km) #r is -0.148

Pearson's product-moment correlation

data: test$Evergreen1km and test$Imperv1km

t = -1.4675, df = 99, p-value = 0.1454

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3318886 0.0509791

sample estimates:

cor

-0.145914

> cor.test(test$Evergreen1km, test$Imperv5km) #r is -0.395

Pearson's product-moment correlation

data: test$Evergreen1km and test$Imperv5km

t = -4.1751, df = 99, p-value = 6.414e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5414250 -0.2071549

sample estimates:

cor

-0.3869289

> cor.test(test$Evergreen1km, test$Imperv30km) #r is -0.505

Pearson's product-moment correlation

data: test$Evergreen1km and test$Imperv30km

t = -5.3726, df = 99, p-value = 5.155e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6135911 -0.3083203

sample estimates:

cor

-0.4751293

> cor.test(test$Evergreen1km, test$Protected30km) #r is 0.421

Pearson's product-moment correlation

data: test$Evergreen1km and test$Protected30km

t = 3.7513, df = 99, p-value = 0.0002965

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1689911 0.5128582

sample estimates:

cor

0.3527789

> cor.test(test$Evergreen1km, test$HighDev500m) #r is -0.090

Pearson's product-moment correlation

data: test$Evergreen1km and test$HighDev500m

t = -0.88339, df = 99, p-value = 0.3792

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2790523 0.1088851

sample estimates:

cor

-0.08843612

> cor.test(test$Evergreen1km, test$HighDev1km) #r is -0.149

Pearson's product-moment correlation

data: test$Evergreen1km and test$HighDev1km

t = -1.4756, df = 99, p-value = 0.1432

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33260065 0.05018079

sample estimates:

cor

-0.1466972

> cor.test(test$Evergreen1km, test$HighDev5km) #r is -0.383

Pearson's product-moment correlation

data: test$Evergreen1km and test$HighDev5km

t = -4.0158, df = 99, p-value = 0.0001154

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5308743 -0.1929402

sample estimates:

cor

-0.3742666

> cor.test(test$Evergreen1km, test$HighDev30km) #r is 0.530

Pearson's product-moment correlation

data: test$Evergreen1km and test$HighDev30km

t = 4.8466, df = 99, p-value = 4.658e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2651654 0.5834180

sample estimates:

cor

0.4379105

> cor.test(test$Evergreen1km, test$LowDev500m) #r is -0.126

Pearson's product-moment correlation

data: test$Evergreen1km and test$LowDev500m

t = -1.0783, df = 99, p-value = 0.2835

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29692695 0.08958567

sample estimates:

cor

-0.10774

> cor.test(test$Evergreen1km, test$LowDev1km) #r is -0.400

Pearson's product-moment correlation

data: test$Evergreen1km and test$LowDev1km

t = -3.7116, df = 99, p-value = 0.0003404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5101014 -0.1653618

sample estimates:

cor

-0.3495057

> cor.test(test$Evergreen1km, test$LowDev5km) #r is -0.484

Pearson's product-moment correlation

data: test$Evergreen1km and test$LowDev5km

t = -5.212, df = 99, p-value = 1.022e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6046262 -0.2953658

sample estimates:

cor

-0.464019

> cor.test(test$Evergreen1km, test$LowDev30km) #r is -0.550

Pearson's product-moment correlation

data: test$Evergreen1km and test$LowDev30km

t = -5.2941, df = 99, p-value = 7.212e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6092371 -0.3020144

sample estimates:

cor

-0.4697278

> cor.test(test$Evergreen1km, test$OpenDev500m) #r is -0.140

Pearson's product-moment correlation

data: test$Evergreen1km and test$OpenDev500m

t = -1.2106, df = 99, p-value = 0.2289

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30892341 0.07646816

sample estimates:

cor

-0.1207761

> cor.test(test$Evergreen1km, test$OpenDev1km) #r is -0.300

Pearson's product-moment correlation

data: test$Evergreen1km and test$OpenDev1km

t = -2.5196, df = 99, p-value = 0.01335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42073316 -0.05256154

sample estimates:

cor

-0.2454791

> cor.test(test$Evergreen1km, test$OpenDev5km) #r is -0.398

Pearson's product-moment correlation

data: test$Evergreen1km and test$OpenDev5km

t = -3.8872, df = 99, p-value = 0.0001835

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5221936 -0.1813503

sample estimates:

cor

-0.3638922

> cor.test(test$Evergreen1km, test$OpenDev30km) #r is -0.648

Pearson's product-moment correlation

data: test$Evergreen1km and test$OpenDev30km

t = -6.6606, df = 99, p-value = 1.545e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6780067 -0.4048558

sample estimates:

cor

-0.5562796

> cor.test(test$Evergreen1km, test$Grass500m) #r is -0.198

Pearson's product-moment correlation

data: test$Evergreen1km and test$Grass500m

t = -1.6615, df = 99, p-value = 0.09977

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34891687 0.03175189

sample estimates:

cor

-0.1647095

> cor.test(test$Evergreen1km, test$Grass1km) #r is -0.444

Pearson's product-moment correlation

data: test$Evergreen1km and test$Grass1km

t = -4.2845, df = 99, p-value = 4.25e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5485395 -0.2168204

sample estimates:

cor

-0.3955003

> cor.test(test$Evergreen1km, test$Grass5km) #r is -0.474

Pearson's product-moment correlation

data: test$Evergreen1km and test$Grass5km

t = -2.6739, df = 99, p-value = 0.008771

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43300696 -0.06751624

sample estimates:

cor

-0.2595309

> cor.test(test$Evergreen1km, test$Grass30km) #r is -0.482

Pearson's product-moment correlation

data: test$Evergreen1km and test$Grass30km

t = -1.1635, df = 99, p-value = 0.2474

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30466904 0.08113541

sample estimates:

cor

-0.1161456

> cor.test(test$Evergreen1km, test$Schrubs500m) #r is -0.101

Pearson's product-moment correlation

data: test$Evergreen1km and test$Schrubs500m

t = -0.97039, df = 99, p-value = 0.3342

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2870606 0.1002745

sample estimates:

cor

-0.09706707

> cor.test(test$Evergreen1km, test$Schrubs1km) #r is -0.091

Pearson's product-moment correlation

data: test$Evergreen1km and test$Schrubs1km

t = -0.79062, df = 99, p-value = 0.4311

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2704633 0.1180558

sample estimates:

cor

-0.07921111

> cor.test(test$Evergreen1km, test$Schrubs5km) #r is 0.326

Pearson's product-moment correlation

data: test$Evergreen1km and test$Schrubs5km

t = 3.2158, df = 99, p-value = 0.001757

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1192662 0.4744590

sample estimates:

cor

0.307537

> cor.test(test$Evergreen1km, test$Schrubs30km) #r is 0.565

Pearson's product-moment correlation

data: test$Evergreen1km and test$Schrubs30km

t = 6.3386, df = 99, p-value = 6.917e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3819620 0.6631006

sample estimates:

cor

0.5372922

> cor.test(test$Evergreen1km, test$Water500m) #r is 0.062

Pearson's product-moment correlation

data: test$Evergreen1km and test$Water500m

t = 0.86832, df = 99, p-value = 0.3873

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1103761 0.2776601

sample estimates:

cor

0.08693859

> cor.test(test$Evergreen1km, test$Water1km) #r is -0.091

Pearson's product-moment correlation

data: test$Evergreen1km and test$Water1km

t = -0.72982, df = 99, p-value = 0.4672

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2648068 0.1240595

sample estimates:

cor

-0.07315346

> cor.test(test$Evergreen1km, test$Water5km) #r is -0.027

Pearson's product-moment correlation

data: test$Evergreen1km and test$Water5km

t = -0.16225, df = 99, p-value = 0.8714

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2110714 0.1797071

sample estimates:

cor

-0.01630477

> cor.test(test$Evergreen1km, test$Water30km) #r is 0.203

Pearson's product-moment correlation

data: test$Evergreen1km and test$Water30km

t = 1.1407, df = 99, p-value = 0.2568

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0834019 0.3025975

sample estimates:

cor

0.1138938

> cor.test(test$Evergreen1km, test$NSoilTypes) #r is 0.243

Pearson's product-moment correlation

data: test$Evergreen1km and test$NSoilTypes

t = 1.9676, df = 99, p-value = 0.05192

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001504887 0.375205331

sample estimates:

cor

0.1939914

> cor.test(test$Evergreen1km, test$FPSiteIndex) # r is 0.142

Pearson's product-moment correlation

data: test$Evergreen1km and test$FPSiteIndex

t = 1.2411, df = 91, p-value = 0.2178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07670941 0.32420267

sample estimates:

cor

0.1290149

> cor.test(test$Evergreen1km, test$SiteIndexPrimaryS) # r is -0.004

Pearson's product-moment correlation

data: test$Evergreen1km and test$SiteIndexPrimaryS

t = 0.4026, df = 91, p-value = 0.6882

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1629418 0.2437804

sample estimates:

cor

0.04216609

> cor.test(test$Evergreen1km, test$PISoils) # r is -0.025

Pearson's product-moment correlation

data: test$Evergreen1km and test$PISoils

t = -0.60417, df = 99, p-value = 0.5471

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2530513 0.1364460

sample estimates:

cor

-0.06060951

> cor.test(test$Evergreen1km, test$SISoils) # r is 0.034

Pearson's product-moment correlation

data: test$Evergreen1km and test$SISoils

t = -1.2146, df = 99, p-value = 0.2274

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30928962 0.07606561

sample estimates:

cor

-0.1211751

> cor.test(test$Evergreen1km, test$HydricSoils) # r is 0.062

Pearson's product-moment correlation

data: test$Evergreen1km and test$HydricSoils

t = 1.1493, df = 99, p-value = 0.2532

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08254165 0.30338417

sample estimates:

cor

0.1147487

> #Evergreen5km by each

> #cor.test(test$Evergreen5km, test$Treatment) #non-numeric

> #cor.test(test$Evergreen5km, test$Evergreen5km)

> cor.test(test$Evergreen5km, test$Evergreen30km) #r is 0.666

Pearson's product-moment correlation

data: test$Evergreen5km and test$Evergreen30km

t = 9.6366, df = 99, p-value = 6.789e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.578995 0.784483

sample estimates:

cor

0.695709

> cor.test(test$Evergreen5km, test$Imperv500m) #r is 0.018

Pearson's product-moment correlation

data: test$Evergreen5km and test$Imperv500m

t = 0.23897, df = 99, p-value = 0.8116

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1722367 0.2184251

sample estimates:

cor

0.02401079

> cor.test(test$Evergreen5km, test$Imperv1km) #r is -0.288

Pearson's product-moment correlation

data: test$Evergreen5km and test$Imperv1km

t = -2.9957, df = 99, p-value = 0.00346

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45793202 -0.09839947

sample estimates:

cor

-0.2882945

> cor.test(test$Evergreen5km, test$Imperv5km) #r is -0.345

Pearson's product-moment correlation

data: test$Evergreen5km and test$Imperv5km

t = -3.5713, df = 99, p-value = 0.0005503

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5002373 -0.1524522

sample estimates:

cor

-0.3378259

> cor.test(test$Evergreen5km, test$Imperv30km) #r is -0.385

Pearson's product-moment correlation

data: test$Evergreen5km and test$Imperv30km

t = -3.8632, df = 99, p-value = 0.0001999

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5205582 -0.1791773

sample estimates:

cor

-0.361942

> cor.test(test$Evergreen5km, test$Protected30km) #r is 0.709

Pearson's product-moment correlation

data: test$Evergreen5km and test$Protected30km

t = 8.9902, df = 99, p-value = 1.74e-14

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5466000 0.7655519

sample estimates:

cor

0.6704202

> cor.test(test$Evergreen5km, test$HighDev500m) #r is -0.081

Pearson's product-moment correlation

data: test$Evergreen5km and test$HighDev500m

t = -0.79232, df = 99, p-value = 0.4301

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2706208 0.1178883

sample estimates:

cor

-0.07937988

> cor.test(test$Evergreen5km, test$HighDev1km) #r is -0.281

Pearson's product-moment correlation

data: test$Evergreen5km and test$HighDev1km

t = -2.9243, df = 99, p-value = 0.004279

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45248213 -0.09158714

sample estimates:

cor

-0.2819791

> cor.test(test$Evergreen5km, test$HighDev5km) #r is -0.326

Pearson's product-moment correlation

data: test$Evergreen5km and test$HighDev5km

t = -3.3381, df = 99, p-value = 0.00119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4834543 -0.1307570

sample estimates:

cor

-0.318068

> cor.test(test$Evergreen5km, test$HighDev30km) #r is 0.854

Pearson's product-moment correlation

data: test$Evergreen5km and test$HighDev30km

t = 13.181, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.7140739 0.8594979

sample estimates:

cor

0.7981279

> cor.test(test$Evergreen5km, test$LowDev500m) #r is -0.178

Pearson's product-moment correlation

data: test$Evergreen5km and test$LowDev500m

t = -1.6424, df = 99, p-value = 0.1037

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34725237 0.03364385

sample estimates:

cor

-0.1628663

> cor.test(test$Evergreen5km, test$LowDev1km) #r is -0.390

Pearson's product-moment correlation

data: test$Evergreen5km and test$LowDev1km

t = -3.7502, df = 99, p-value = 0.0002977

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5127831 -0.1688921

sample estimates:

cor

-0.3526897

> cor.test(test$Evergreen5km, test$LowDev5km) #r is -0.511

Pearson's product-moment correlation

data: test$Evergreen5km and test$LowDev5km

t = -5.7124, df = 99, p-value = 1.173e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6318508 -0.3350610

sample estimates:

cor

-0.497896

> cor.test(test$Evergreen5km, test$LowDev30km) #r is -0.417

Pearson's product-moment correlation

data: test$Evergreen5km and test$LowDev30km

t = -3.8277, df = 99, p-value = 0.0002267

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5181288 -0.1759556

sample estimates:

cor

-0.3590477

> cor.test(test$Evergreen5km, test$OpenDev500m) #r is -0.252

Pearson's product-moment correlation

data: test$Evergreen5km and test$OpenDev500m

t = -2.3921, df = 99, p-value = 0.01864

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4104405 -0.0401468

sample estimates:

cor

-0.233752

> cor.test(test$Evergreen5km, test$OpenDev1km) #r is -0.400

Pearson's product-moment correlation

data: test$Evergreen5km and test$OpenDev1km

t = -3.7769, df = 99, p-value = 0.0002711

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5146324 -0.1713316

sample estimates:

cor

-0.3548874

> cor.test(test$Evergreen5km, test$OpenDev5km) #r is -0.545

Pearson's product-moment correlation

data: test$Evergreen5km and test$OpenDev5km

t = -6.0236, df = 99, p-value = 2.917e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6477628 -0.3587600

sample estimates:

cor

-0.5178872

> cor.test(test$Evergreen5km, test$OpenDev30km) #r is -0.774

Pearson's product-moment correlation

data: test$Evergreen5km and test$OpenDev30km

t = -10.129, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7976308 -0.6018820

sample estimates:

cor

-0.7134027

> cor.test(test$Evergreen5km, test$Grass500m) #r is -0.140

Pearson's product-moment correlation

data: test$Evergreen5km and test$Grass500m

t = -0.95887, df = 99, p-value = 0.34

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2860032 0.1014147

sample estimates:

cor

-0.09592586

> cor.test(test$Evergreen5km, test$Grass1km) #r is -0.216

Pearson's product-moment correlation

data: test$Evergreen5km and test$Grass1km

t = -1.5019, df = 99, p-value = 0.1363

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33492422 0.04757217

sample estimates:

cor

-0.1492548

> cor.test(test$Evergreen5km, test$Grass5km) #r is -0.601 -267

Pearson's product-moment correlation

data: test$Evergreen5km and test$Grass5km

t = -4.6924, df = 99, p-value = 8.673e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5741295 -0.2521325

sample estimates:

cor

-0.4265527

> cor.test(test$Evergreen5km, test$Grass30km) #r is -0.726 #high ... -0.162

Pearson's product-moment correlation

data: test$Evergreen5km and test$Grass30km

t = -4.1848, df = 99, p-value = 6.186e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5420589 -0.2080135

sample estimates:

cor

-0.3876915

> cor.test(test$Evergreen5km, test$Schrubs500m) #r is 0.045

Pearson's product-moment correlation

data: test$Evergreen5km and test$Schrubs500m

t = 0.54834, df = 99, p-value = 0.5847

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1419393 0.2478007

sample estimates:

cor

0.05502641

> cor.test(test$Evergreen5km, test$Schrubs1km) #r is 0.133

Pearson's product-moment correlation

data: test$Evergreen5km and test$Schrubs1km

t = 1.5938, df = 99, p-value = 0.1142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03845882 0.34300541

sample estimates:

cor

0.1581693

> cor.test(test$Evergreen5km, test$Schrubs5km) #r is 0.491

Pearson's product-moment correlation

data: test$Evergreen5km and test$Schrubs5km

t = 5.6653, df = 99, p-value = 1.444e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3314046 0.6293734

sample estimates:

cor

0.4947962

> cor.test(test$Evergreen5km, test$Schrubs30km) #r is 0.728 #high

Pearson's product-moment correlation

data: test$Evergreen5km and test$Schrubs30km

t = 9.3354, df = 99, p-value = 3.082e-15

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5642452 0.7759107

sample estimates:

cor

0.6842305

> cor.test(test$Evergreen5km, test$Water500m) #r is 0.137

Pearson's product-moment correlation

data: test$Evergreen5km and test$Water500m

t = 1.6173, df = 99, p-value = 0.109

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03613762 0.34505474

sample estimates:

cor

0.1604347

> cor.test(test$Evergreen5km, test$Water1km) #r is 0.063

Pearson's product-moment correlation

data: test$Evergreen5km and test$Water1km

t = 0.87216, df = 99, p-value = 0.3852

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1099955 0.2780156

sample estimates:

cor

0.08732097

> cor.test(test$Evergreen5km, test$Water5km) #r is -0.024

Pearson's product-moment correlation

data: test$Evergreen5km and test$Water5km

t = -0.089263, df = 99, p-value = 0.9291

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2040524 0.1867958

sample estimates:

cor

-0.008970945

> cor.test(test$Evergreen5km, test$Water30km) #r is 0.058 #ish .47

Pearson's product-moment correlation

data: test$Evergreen5km and test$Water30km

t = 6.2391, df = 99, p-value = 1.093e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3747169 0.6583364

sample estimates:

cor

0.5312503

> cor.test(test$Evergreen5km, test$NSoilTypes) #r is 0.023

Pearson's product-moment correlation

data: test$Evergreen5km and test$NSoilTypes

t = -0.062815, df = 99, p-value = 0.95

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2015037 0.1893599

sample estimates:

cor

-0.006313037

> cor.test(test$Evergreen5km, test$FPSiteIndex) # r is 0.292

Pearson's product-moment correlation

data: test$Evergreen5km and test$FPSiteIndex

t = 2.603, df = 91, p-value = 0.01079

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06291352 0.44318987

sample estimates:

cor

0.263248

> cor.test(test$Evergreen5km, test$SiteIndexPrimaryS) # r is 0.121

Pearson's product-moment correlation

data: test$Evergreen5km and test$SiteIndexPrimaryS

t = 1.3428, df = 91, p-value = 0.1827

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06620203 0.33362139

sample estimates:

cor

0.139386

> cor.test(test$Evergreen5km, test$PISoils) # r is -0.017

Pearson's product-moment correlation

data: test$Evergreen5km and test$PISoils

t = -0.40892, df = 99, p-value = 0.6835

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2346195 0.1556250

sample estimates:

cor

-0.04106318

> cor.test(test$Evergreen5km, test$SISoils) # r is 0.155

Pearson's product-moment correlation

data: test$Evergreen5km and test$SISoils

t = 0.90235, df = 99, p-value = 0.3691

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1070090 0.2808017

sample estimates:

cor

0.09031914

> cor.test(test$Evergreen5km, test$HydricSoils) # r is -0.054

Pearson's product-moment correlation

data: test$Evergreen5km and test$HydricSoils

t = -0.019133, df = 99, p-value = 0.9848

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1972881 0.1935891

sample estimates:

cor

-0.001922956

> #Evergreen30km by each

> #cor.test(test$Evergreen30km, test$Treatment) #non-numeric

> #cor.test(test$Evergreen30km, test$Evergreen30km)

> cor.test(test$Evergreen30km, test$Imperv500m) #r is -0.140

Pearson's product-moment correlation

data: test$Evergreen30km and test$Imperv500m

t = -1.3483, df = 99, p-value = 0.1806

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32129315 0.06280131

sample estimates:

cor

-0.1342862

> cor.test(test$Evergreen30km, test$Imperv1km) #r is -0.318

Pearson's product-moment correlation

data: test$Evergreen30km and test$Imperv1km

t = -3.0609, df = 99, p-value = 0.002841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4628737 -0.1046058

sample estimates:

cor

-0.2940338

> cor.test(test$Evergreen30km, test$Imperv5km) #r is -0.463

Pearson's product-moment correlation

data: test$Evergreen30km and test$Imperv5km

t = -4.8371, df = 99, p-value = 4.841e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5828526 -0.2643688

sample estimates:

cor

-0.4372179

> cor.test(test$Evergreen30km, test$Imperv30km) #r is -0.393

Pearson's product-moment correlation

data: test$Evergreen30km and test$Imperv30km

t = -3.7636, df = 99, p-value = 0.0002841

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5137107 -0.1701152

sample estimates:

cor

-0.3537918

> cor.test(test$Evergreen30km, test$Protected30km) #r is 0.446

Pearson's product-moment correlation

data: test$Evergreen30km and test$Protected30km

t = 4.4718, df = 99, p-value = 2.07e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2331744 0.5604687

sample estimates:

cor

0.4099325

> cor.test(test$Evergreen30km, test$HighDev500m) #r is -0.150

Pearson's product-moment correlation

data: test$Evergreen30km and test$HighDev500m

t = -1.4038, df = 99, p-value = 0.1635

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32623568 0.05729993

sample estimates:

cor

-0.1397038

> cor.test(test$Evergreen30km, test$HighDev1km) #r is -0.307

Pearson's product-moment correlation

data: test$Evergreen30km and test$HighDev1km

t = -2.9282, df = 99, p-value = 0.004231

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45277949 -0.09195797

sample estimates:

cor

-0.2823233

> cor.test(test$Evergreen30km, test$HighDev5km) #r is -0.453

Pearson's product-moment correlation

data: test$Evergreen30km and test$HighDev5km

t = -4.6786, df = 99, p-value = 9.166e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5732845 -0.2509525

sample estimates:

cor

-0.4255217

> cor.test(test$Evergreen30km, test$HighDev30km) #r is 0.457

Pearson's product-moment correlation

data: test$Evergreen30km and test$HighDev30km

t = 3.8024, df = 99, p-value = 0.0002479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1736528 0.5163890

sample estimates:

cor

0.3569768

> cor.test(test$Evergreen30km, test$LowDev500m) #r is -0.242

Pearson's product-moment correlation

data: test$Evergreen30km and test$LowDev500m

t = -2.1739, df = 99, p-value = 0.03209

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3925180 -0.0187985

sample estimates:

cor

-0.2134535

> cor.test(test$Evergreen30km, test$LowDev1km) #r is -0.371

Pearson's product-moment correlation

data: test$Evergreen30km and test$LowDev1km

t = -3.1163, df = 99, p-value = 0.002397

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4670407 -0.1098610

sample estimates:

cor

-0.2988829

> cor.test(test$Evergreen30km, test$LowDev5km) #r is -0.477

Pearson's product-moment correlation

data: test$Evergreen30km and test$LowDev5km

t = -4.9174, df = 99, p-value = 3.488e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5876163 -0.2710945

sample estimates:

cor

-0.4430594

> cor.test(test$Evergreen30km, test$LowDev30km) #r is -0.489

Pearson's product-moment correlation

data: test$Evergreen30km and test$LowDev30km

t = -4.0468, df = 99, p-value = 0.0001031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5329476 -0.1957223

sample estimates:

cor

-0.3767502

> cor.test(test$Evergreen30km, test$OpenDev500m) #r is -0.095

Pearson's product-moment correlation

data: test$Evergreen30km and test$OpenDev500m

t = -0.79588, df = 99, p-value = 0.428

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2709510 0.1175369

sample estimates:

cor

-0.07973401

> cor.test(test$Evergreen30km, test$OpenDev1km) #r is -0.157

Pearson's product-moment correlation

data: test$Evergreen30km and test$OpenDev1km

t = -1.2554, df = 99, p-value = 0.2123

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31295839 0.07202592

sample estimates:

cor

-0.1251754

> cor.test(test$Evergreen30km, test$OpenDev5km) #r is -0.223

Pearson's product-moment correlation

data: test$Evergreen30km and test$OpenDev5km

t = -2.3425, df = 99, p-value = 0.02116

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40640095 -0.03530535

sample estimates:

cor

-0.2291634

> cor.test(test$Evergreen30km, test$OpenDev30km) #r is -0.527

Pearson's product-moment correlation

data: test$Evergreen30km and test$OpenDev30km

t = -4.495, df = 99, p-value = 1.891e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5619283 -0.2351882

sample estimates:

cor

-0.4117035

> cor.test(test$Evergreen30km, test$Grass500m) #r is -0.044

Pearson's product-moment correlation

data: test$Evergreen30km and test$Grass500m

t = -0.80877, df = 99, p-value = 0.4206

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2721470 0.1162633

sample estimates:

cor

-0.08101683

> cor.test(test$Evergreen30km, test$Grass1km) #r is -0.092

Pearson's product-moment correlation

data: test$Evergreen30km and test$Grass1km

t = -1.2857, df = 99, p-value = 0.2016

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3156827 0.0690180

sample estimates:

cor

-0.1281499

> cor.test(test$Evergreen30km, test$Grass5km) #r is -0.394

Pearson's product-moment correlation

data: test$Evergreen30km and test$Grass5km

t = -1.6548, df = 99, p-value = 0.1011

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34832676 0.03242295

sample estimates:

cor

-0.1640559

> cor.test(test$Evergreen30km, test$Grass30km) #r is -0.445

Pearson's product-moment correlation

data: test$Evergreen30km and test$Grass30km

t = -0.083703, df = 99, p-value = 0.9335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2035169 0.1873351

sample estimates:

cor

-0.0084122

> cor.test(test$Evergreen30km, test$Schrubs500m) #r is 0.134

Pearson's product-moment correlation

data: test$Evergreen30km and test$Schrubs500m

t = 0.89317, df = 99, p-value = 0.3739

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1079179 0.2799545

sample estimates:

cor

0.0894071

> cor.test(test$Evergreen30km, test$Schrubs1km) #r is 0.213

Pearson's product-moment correlation

data: test$Evergreen30km and test$Schrubs1km

t = 1.4827, df = 99, p-value = 0.1413

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04947046 0.33323382

sample estimates:

cor

0.1473939

> cor.test(test$Evergreen30km, test$Schrubs5km) #r is 0.495

Pearson's product-moment correlation

data: test$Evergreen30km and test$Schrubs5km

t = 4.4814, df = 99, p-value = 1.995e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2340066 0.5610721

sample estimates:

cor

0.4106645

> cor.test(test$Evergreen30km, test$Schrubs30km) #r is 0.541

Pearson's product-moment correlation

data: test$Evergreen30km and test$Schrubs30km

t = 7.123, df = 99, p-value = 1.719e-10

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4362938 0.6981163

sample estimates:

cor

0.5820981

> cor.test(test$Evergreen30km, test$Water500m) #r is 0.078

Pearson's product-moment correlation

data: test$Evergreen30km and test$Water500m

t = 0.97097, df = 99, p-value = 0.3339

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1002172 0.2871137

sample estimates:

cor

0.09712436

> cor.test(test$Evergreen30km, test$Water1km) #r is 0.064

Pearson's product-moment correlation

data: test$Evergreen30km and test$Water1km

t = 0.48523, df = 99, p-value = 0.6286

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1481402 0.2418463

sample estimates:

cor

0.0487093

> cor.test(test$Evergreen30km, test$Water5km) #r is 0.315

Pearson's product-moment correlation

data: test$Evergreen30km and test$Water5km

t = 2.6916, df = 99, p-value = 0.008349

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06922773 0.43440305

sample estimates:

cor

0.2611339

> cor.test(test$Evergreen30km, test$Water30km) #r is 0.256

Pearson's product-moment correlation

data: test$Evergreen30km and test$Water30km

t = 2.2724, df = 99, p-value = 0.02523

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02844833 0.40065466

sample estimates:

cor

0.2226497

> cor.test(test$Evergreen30km, test$NSoilTypes) #r is 0.196

Pearson's product-moment correlation

data: test$Evergreen30km and test$NSoilTypes

t = 0.95112, df = 99, p-value = 0.3439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1021826 0.2852906

sample estimates:

cor

0.09515697

> cor.test(test$Evergreen30km, test$FPSiteIndex) # r is -0.014

Pearson's product-moment correlation

data: test$Evergreen30km and test$FPSiteIndex

t = 0.60189, df = 91, p-value = 0.5487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1425669 0.2633009

sample estimates:

cor

0.06297015

> cor.test(test$Evergreen30km, test$SiteIndexPrimaryS) # r is -0.056

Pearson's product-moment correlation

data: test$Evergreen30km and test$SiteIndexPrimaryS

t = 0.64521, df = 91, p-value = 0.5204

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1381252 0.2675127

sample estimates:

cor

0.0674818

> cor.test(test$Evergreen30km, test$PISoils) # r is 0.007

Pearson's product-moment correlation

data: test$Evergreen30km and test$PISoils

t = -0.27082, df = 99, p-value = 0.7871

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2214700 0.1691302

sample estimates:

cor

-0.02720847

> cor.test(test$Evergreen30km, test$SISoils) # r is -0.047

Pearson's product-moment correlation

data: test$Evergreen30km and test$SISoils

t = -1.2364, df = 99, p-value = 0.2192

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31125543 0.07390262

sample estimates:

cor

-0.1233178

> cor.test(test$Evergreen30km, test$HydricSoils) # r is 0.169

Pearson's product-moment correlation

data: test$Evergreen30km and test$HydricSoils

t = 2.5378, df = 99, p-value = 0.01271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05433507 0.42219583

sample estimates:

cor

0.2471498

> #Imperv500m by each

> #cor.test(test$Imperv500m, test$Treatment) #non-numeric

> #cor.test(test$Imperv500m, test$Imperv500m)

> cor.test(test$Imperv500m, test$Imperv1km) #r is -0.011

Pearson's product-moment correlation

data: test$Imperv500m and test$Imperv1km

t = -0.11739, df = 99, p-value = 0.9068

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2067600 0.1840662

sample estimates:

cor

-0.01179745

> cor.test(test$Imperv500m, test$Imperv5km) #r is -0.035

Pearson's product-moment correlation

data: test$Imperv500m and test$Imperv5km

t = -0.36691, df = 99, p-value = 0.7145

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2306292 0.1597388

sample estimates:

cor

-0.03685091

> cor.test(test$Imperv500m, test$Imperv30km) #r is -0.036

Pearson's product-moment correlation

data: test$Imperv500m and test$Imperv30km

t = -0.39793, df = 99, p-value = 0.6915

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2335765 0.1567016

sample estimates:

cor

-0.03996152

> cor.test(test$Imperv500m, test$Protected30km) #r is -0.072

Pearson's product-moment correlation

data: test$Imperv500m and test$Protected30km

t = -0.65524, df = 99, p-value = 0.5138

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2578395 0.1314154

sample estimates:

cor

-0.06571159

> cor.test(test$Imperv500m, test$HighDev500m) #r is 0.825 #high, makes sense but don't combine

Pearson's product-moment correlation

data: test$Imperv500m and test$HighDev500m

t = 14.546, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.7510906 0.8790165

sample estimates:

cor

0.8253714

> cor.test(test$Imperv500m, test$HighDev1km) #r is -0.028

Pearson's product-moment correlation

data: test$Imperv500m and test$HighDev1km

t = -0.28202, df = 99, p-value = 0.7785

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2225393 0.1680375

sample estimates:

cor

-0.02833225

> cor.test(test$Imperv500m, test$HighDev5km) #r is -0.028

Pearson's product-moment correlation

data: test$Imperv500m and test$HighDev5km

t = -0.29691, df = 99, p-value = 0.7672

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2239608 0.1665832

sample estimates:

cor

-0.0298271

> cor.test(test$Imperv500m, test$HighDev30km) #r is 0.048

Pearson's product-moment correlation

data: test$Imperv500m and test$HighDev30km

t = 0.58624, df = 99, p-value = 0.559

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1382106 0.2513672

sample estimates:

cor

0.05881747

> cor.test(test$Imperv500m, test$LowDev500m) #r is 0.156

Pearson's product-moment correlation

data: test$Imperv500m and test$LowDev500m

t = 1.5606, df = 99, p-value = 0.1218

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04175274 0.34009106

sample estimates:

cor

0.1549509

> cor.test(test$Imperv500m, test$LowDev1km) #r is 0.038

Pearson's product-moment correlation

data: test$Imperv500m and test$LowDev1km

t = 0.3311, df = 99, p-value = 0.7413

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1632415 0.2272212

sample estimates:

cor

0.03325889

> cor.test(test$Imperv500m, test$LowDev5km) #r is -0.092

Pearson's product-moment correlation

data: test$Imperv500m and test$LowDev5km

t = -0.956, df = 99, p-value = 0.3414

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2857398 0.1016986

sample estimates:

cor

-0.09564162

> cor.test(test$Imperv500m, test$LowDev30km) #r is -0.003

Pearson's product-moment correlation

data: test$Imperv500m and test$LowDev30km

t = -0.095928, df = 99, p-value = 0.9238

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2046942 0.1861494

sample estimates:

cor

-0.009640636

> cor.test(test$Imperv500m, test$OpenDev500m) #r is 0.011

Pearson's product-moment correlation

data: test$Imperv500m and test$OpenDev500m

t = 0.073412, df = 99, p-value = 0.9416

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1883328 0.2025252

sample estimates:

cor

0.007377981

> cor.test(test$Imperv500m, test$OpenDev1km) #r is 0.029

Pearson's product-moment correlation

data: test$Imperv500m and test$OpenDev1km

t = 0.22682, df = 99, p-value = 0.821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1734212 0.2172621

sample estimates:

cor

0.02279051

> cor.test(test$Imperv500m, test$OpenDev5km) #r is -0.108

Pearson's product-moment correlation

data: test$Imperv500m and test$OpenDev5km

t = -1.1443, df = 99, p-value = 0.2553

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30293009 0.08303826

sample estimates:

cor

-0.1142552

> cor.test(test$Imperv500m, test$OpenDev30km) #r is -0.048

Pearson's product-moment correlation

data: test$Imperv500m and test$OpenDev30km

t = -0.59126, df = 99, p-value = 0.5557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2518384 0.1377171

sample estimates:

cor

-0.05931874

> cor.test(test$Imperv500m, test$Grass500m) #r is -0.073

Pearson's product-moment correlation

data: test$Imperv500m and test$Grass500m

t = -0.7894, df = 99, p-value = 0.4318

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2703500 0.1181763

sample estimates:

cor

-0.07908964

> cor.test(test$Imperv500m, test$Grass1km) #r is -0.018

Pearson's product-moment correlation

data: test$Imperv500m and test$Grass1km

t = -0.258, df = 99, p-value = 0.7969

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2202450 0.1703809

sample estimates:

cor

-0.02592156

> cor.test(test$Imperv500m, test$Grass5km) #r is -0.050

Pearson's product-moment correlation

data: test$Imperv500m and test$Grass5km

t = -0.66105, df = 99, p-value = 0.5101

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2583839 0.1308422

sample estimates:

cor

-0.0662923

> cor.test(test$Imperv500m, test$Grass30km) #r is 0.029

Pearson's product-moment correlation

data: test$Imperv500m and test$Grass30km

t = -0.019337, df = 99, p-value = 0.9846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1973078 0.1935693

sample estimates:

cor

-0.001943456

> cor.test(test$Imperv500m, test$Schrubs500m) #r is -0.066

Pearson's product-moment correlation

data: test$Imperv500m and test$Schrubs500m

t = -0.66147, df = 99, p-value = 0.5098

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2584227 0.1308013

sample estimates:

cor

-0.06633373

> cor.test(test$Imperv500m, test$Schrubs1km) #r is 0.042

Pearson's product-moment correlation

data: test$Imperv500m and test$Schrubs1km

t = 0.41006, df = 99, p-value = 0.6826

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1555131 0.2347280

sample estimates:

cor

0.04117772

> cor.test(test$Imperv500m, test$Schrubs5km) #r is -0.057

Pearson's product-moment correlation

data: test$Imperv500m and test$Schrubs5km

t = -0.56127, df = 99, p-value = 0.5759

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2490189 0.1406669

sample estimates:

cor

-0.05632068

> cor.test(test$Imperv500m, test$Schrubs30km) #r is -0.051

Pearson's product-moment correlation

data: test$Imperv500m and test$Schrubs30km

t = -0.51629, df = 99, p-value = 0.6068

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2447801 0.1450888

sample estimates:

cor

-0.05181985

> cor.test(test$Imperv500m, test$Water500m) #r is -0.083

Pearson's product-moment correlation

data: test$Imperv500m and test$Water500m

t = -0.87065, df = 99, p-value = 0.3861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2778758 0.1101452

sample estimates:

cor

-0.08717061

> cor.test(test$Imperv500m, test$Water1km) #r is -0.092

Pearson's product-moment correlation

data: test$Imperv500m and test$Water1km

t = -0.96079, df = 99, p-value = 0.339

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2861797 0.1012245

sample estimates:

cor

-0.09611626

> cor.test(test$Imperv500m, test$Water5km) #r is -0.056

Pearson's product-moment correlation

data: test$Imperv500m and test$Water5km

t = -0.57562, df = 99, p-value = 0.5662

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2503681 0.1392562

sample estimates:

cor

-0.05775493

> cor.test(test$Imperv500m, test$Water30km) #r is -0.051

Pearson's product-moment correlation

data: test$Imperv500m and test$Water30km

t = -0.44701, df = 99, p-value = 0.6558

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2382305 0.1518907

sample estimates:

cor

-0.04488089

> cor.test(test$Imperv500m, test$NSoilTypes) #r is -0.111

Pearson's product-moment correlation

data: test$Imperv500m and test$NSoilTypes

t = -1.1181, df = 99, p-value = 0.2662

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30054997 0.08563816

sample estimates:

cor

-0.1116701

> cor.test(test$Imperv500m, test$FPSiteIndex) # r is 0.117

Pearson's product-moment correlation

data: test$Imperv500m and test$FPSiteIndex

t = 1.0693, df = 91, p-value = 0.2878

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09445363 0.30811437

sample estimates:

cor

0.111398

> cor.test(test$Imperv500m, test$SiteIndexPrimaryS) # r is 0.103

Pearson's product-moment correlation

data: test$Imperv500m and test$SiteIndexPrimaryS

t = 0.84084, df = 91, p-value = 0.4026

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1180159 0.2863891

sample estimates:

cor

0.08780323

> cor.test(test$Imperv500m, test$PISoils) # r is -0.167

Pearson's product-moment correlation

data: test$Imperv500m and test$PISoils

t = -1.6837, df = 99, p-value = 0.09538

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35084940 0.02955186

sample estimates:

cor

-0.1668511

> cor.test(test$Imperv500m, test$SISoils) # r is -0.198

Pearson's product-moment correlation

data: test$Imperv500m and test$SISoils

t = -1.923, df = 99, p-value = 0.05736

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.371419692 0.005903474

sample estimates:

cor

-0.1897547

> cor.test(test$Imperv500m, test$HydricSoils) # r is -0.098

Pearson's product-moment correlation

data: test$Imperv500m and test$HydricSoils

t = 0.65846, df = 99, p-value = 0.5118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1310979 0.2581411

sample estimates:

cor

0.06603325

> #Imperv1km by each

> #cor.test(test$Imperv1km, test$Treatment) #non-numeric

> #cor.test(test$Imperv1km, test$Imperv1km)

> cor.test(test$Imperv1km, test$Imperv5km) #r is 0.212

Pearson's product-moment correlation

data: test$Imperv1km and test$Imperv5km

t = 2.1459, df = 99, p-value = 0.03432

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01604974 0.39018958

sample estimates:

cor

0.2108277

> cor.test(test$Imperv1km, test$Imperv30km) #r is 0.125

Pearson's product-moment correlation

data: test$Imperv1km and test$Imperv30km

t = 1.2184, df = 99, p-value = 0.226

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07568996 0.30963126

sample estimates:

cor

0.1215473

> cor.test(test$Imperv1km, test$Protected30km) #r is -0.188

Pearson's product-moment correlation

data: test$Imperv1km and test$Protected30km

t = -1.8571, df = 99, p-value = 0.06627

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.36579815 0.01240839

sample estimates:

cor

-0.1834758

> cor.test(test$Imperv1km, test$HighDev500m) #r is -0.004

Pearson's product-moment correlation

data: test$Imperv1km and test$HighDev500m

t = -0.042666, df = 99, p-value = 0.9661

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1995601 0.1913115

sample estimates:

cor

-0.004288094

> cor.test(test$Imperv1km, test$HighDev1km) #r is 0.992

Pearson's product-moment correlation

data: test$Imperv1km and test$HighDev1km

t = 77.882, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9880445 0.9945668

sample estimates:

cor

0.9919379

> cor.test(test$Imperv1km, test$HighDev5km) #r is 0.195

Pearson's product-moment correlation

data: test$Imperv1km and test$HighDev5km

t = 1.9635, df = 99, p-value = 0.0524

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001909391 0.374857719

sample estimates:

cor

0.1936021

> cor.test(test$Imperv1km, test$HighDev30km) #r is -0.283

Pearson's product-moment correlation

data: test$Imperv1km and test$HighDev30km

t = -2.8653, df = 99, p-value = 0.005088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44794069 -0.08593605

sample estimates:

cor

-0.2767276

> cor.test(test$Imperv1km, test$LowDev500m) #r is 0.127

Pearson's product-moment correlation

data: test$Imperv1km and test$LowDev500m

t = 1.2575, df = 99, p-value = 0.2115

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07181671 0.31314808

sample estimates:

cor

0.1253824

> cor.test(test$Imperv1km, test$LowDev1km) #r is 0.234

Pearson's product-moment correlation

data: test$Imperv1km and test$LowDev1km

t = 2.3368, df = 99, p-value = 0.02147

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03474512 0.40593257

sample estimates:

cor

0.2286318

> cor.test(test$Imperv1km, test$LowDev5km) #r is 0.207

Pearson's product-moment correlation

data: test$Imperv1km and test$LowDev5km

t = 2.0756, df = 99, p-value = 0.04052

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009136877 0.384312470

sample estimates:

cor

0.2042115

> cor.test(test$Imperv1km, test$LowDev30km) #r is 0.140

Pearson's product-moment correlation

data: test$Imperv1km and test$LowDev30km

t = 1.3287, df = 99, p-value = 0.187

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06474924 0.31953807

sample estimates:

cor

0.132365

> cor.test(test$Imperv1km, test$OpenDev500m) #r is 0.242

Pearson's product-moment correlation

data: test$Imperv1km and test$OpenDev500m

t = 2.4581, df = 99, p-value = 0.0157

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04658415 0.41578933

sample estimates:

cor

0.2398398

> cor.test(test$Imperv1km, test$OpenDev1km) #r is 0.309

Pearson's product-moment correlation

data: test$Imperv1km and test$OpenDev1km

t = 3.1982, df = 99, p-value = 0.001857

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1176070 0.4731539

sample estimates:

cor

0.3060125

> cor.test(test$Imperv1km, test$OpenDev5km) #r is 0.217

Pearson's product-moment correlation

data: test$Imperv1km and test$OpenDev5km

t = 2.1936, df = 99, p-value = 0.03061

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0207263 0.3941482

sample estimates:

cor

0.2152935

> cor.test(test$Imperv1km, test$OpenDev30km) #r is 0.225

Pearson's product-moment correlation

data: test$Imperv1km and test$OpenDev30km

t = 2.2039, df = 99, p-value = 0.02985

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02173864 0.39500335

sample estimates:

cor

0.2162591

> cor.test(test$Imperv1km, test$Grass500m) #r is 0.133

Pearson's product-moment correlation

data: test$Imperv1km and test$Grass500m

t = 1.2964, df = 99, p-value = 0.1979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0679583 0.3166410

sample estimates:

cor

0.1291969

> cor.test(test$Imperv1km, test$Grass1km) #r is 0.067

Pearson's product-moment correlation

data: test$Imperv1km and test$Grass1km

t = 0.60604, df = 99, p-value = 0.5459

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1362619 0.2532268

sample estimates:

cor

0.06079638

> cor.test(test$Imperv1km, test$Grass5km) #r is 0.234

Pearson's product-moment correlation

data: test$Imperv1km and test$Grass5km

t = 1.9626, df = 99, p-value = 0.0525

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.001996015 0.374783266

sample estimates:

cor

0.1935187

> cor.test(test$Imperv1km, test$Grass30km) #r is 0.202

Pearson's product-moment correlation

data: test$Imperv1km and test$Grass30km

t = 1.2892, df = 99, p-value = 0.2003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06866449 0.31600245

sample estimates:

cor

0.1284992

> cor.test(test$Imperv1km, test$Schrubs500m) #r is -0.004

Pearson's product-moment correlation

data: test$Imperv1km and test$Schrubs500m

t = -0.041226, df = 99, p-value = 0.9672

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1994212 0.1914509

sample estimates:

cor

-0.004143376

> cor.test(test$Imperv1km, test$Schrubs1km) #r is -0.095

Pearson's product-moment correlation

data: test$Imperv1km and test$Schrubs1km

t = -0.96384, df = 99, p-value = 0.3375

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2864590 0.1009233

sample estimates:

cor

-0.09641776

> cor.test(test$Imperv1km, test$Schrubs5km) #r is -0.231

Pearson's product-moment correlation

data: test$Imperv1km and test$Schrubs5km

t = -2.346, df = 99, p-value = 0.02097

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40668593 -0.03564633

sample estimates:

cor

-0.2294868

> cor.test(test$Imperv1km, test$Schrubs30km) #r is -0.280

Pearson's product-moment correlation

data: test$Imperv1km and test$Schrubs30km

t = -2.7784, df = 99, p-value = 0.006536

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44120223 -0.07759383

sample estimates:

cor

-0.2689544

> cor.test(test$Imperv1km, test$Water500m) #r is -0.085

Pearson's product-moment correlation

data: test$Imperv1km and test$Water500m

t = -0.90116, df = 99, p-value = 0.3697

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2806920 0.1071268

sample estimates:

cor

-0.09020095

> cor.test(test$Imperv1km, test$Water1km) #r is -0.097

Pearson's product-moment correlation

data: test$Imperv1km and test$Water1km

t = -1.0216, df = 99, p-value = 0.3094

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29175576 0.09519905

sample estimates:

cor

-0.1021406

> cor.test(test$Imperv1km, test$Water5km) #r is -0.094

Pearson's product-moment correlation

data: test$Imperv1km and test$Water5km

t = -0.9602, df = 99, p-value = 0.3393

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2861255 0.1012829

sample estimates:

cor

-0.09605779

> cor.test(test$Imperv1km, test$Water30km) #r is -0.149

Pearson's product-moment correlation

data: test$Imperv1km and test$Water30km

t = -1.4501, df = 99, p-value = 0.1502

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33034398 0.05270931

sample estimates:

cor

-0.1442156

> cor.test(test$Imperv1km, test$NSoilTypes) #r is -0.136

Pearson's product-moment correlation

data: test$Imperv1km and test$NSoilTypes

t = -1.369, df = 99, p-value = 0.1741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32313775 0.06075087

sample estimates:

cor

-0.1363068

> cor.test(test$Imperv1km, test$FPSiteIndex) # r is -0.113

Pearson's product-moment correlation

data: test$Imperv1km and test$FPSiteIndex

t = -1.0813, df = 91, p-value = 0.2824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30924482 0.09321513

sample estimates:

cor

-0.1126319

> cor.test(test$Imperv1km, test$SiteIndexPrimaryS) # r is -0.111

Pearson's product-moment correlation

data: test$Imperv1km and test$SiteIndexPrimaryS

t = -1.0975, df = 91, p-value = 0.2753

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31076529 0.09154736

sample estimates:

cor

-0.1142924

> cor.test(test$Imperv1km, test$PISoils) # r is 0.110

Pearson's product-moment correlation

data: test$Imperv1km and test$PISoils

t = 1.1039, df = 99, p-value = 0.2723

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08704885 0.29925652

sample estimates:

cor

0.1102663

> cor.test(test$Imperv1km, test$SISoils) # r is -0.042

Pearson's product-moment correlation

data: test$Imperv1km and test$SISoils

t = -0.31051, df = 99, p-value = 0.7568

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2252584 0.1652544

sample estimates:

cor

-0.03119233

> cor.test(test$Imperv1km, test$HydricSoils) # r is -0.045

Pearson's product-moment correlation

data: test$Imperv1km and test$HydricSoils

t = -0.53278, df = 99, p-value = 0.5954

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2463349 0.1434687

sample estimates:

cor

-0.05346983

> #Imperv5km by each

> #cor.test(test$Imperv5km, test$Treatment) #non-numeric

> #cor.test(test$Imperv5km, test$Imperv5km)

> cor.test(test$Imperv5km, test$Imperv30km) #r is 0.207

Pearson's product-moment correlation

data: test$Imperv5km and test$Imperv30km

t = 2.0164, df = 99, p-value = 0.04647

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.003303822 0.379329613

sample estimates:

cor

0.1986148

> cor.test(test$Imperv5km, test$Protected30km) #r is -0.268

Pearson's product-moment correlation

data: test$Imperv5km and test$Protected30km

t = -2.5884, df = 99, p-value = 0.01109

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42622824 -0.05923653

sample estimates:

cor

-0.2517611

> cor.test(test$Imperv5km, test$HighDev500m) #r is -0.077

Pearson's product-moment correlation

data: test$Imperv5km and test$HighDev500m

t = -0.77988, df = 99, p-value = 0.4373

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2694654 0.1191170

sample estimates:

cor

-0.07814142

> cor.test(test$Imperv5km, test$HighDev1km) #r is 0.205

Pearson's product-moment correlation

data: test$Imperv5km and test$HighDev1km

t = 2.0763, df = 99, p-value = 0.04046

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009205761 0.384371183

sample estimates:

cor

0.2042775

> cor.test(test$Imperv5km, test$HighDev5km) #r is 0.999 # keep this in mind!!

Pearson's product-moment correlation

data: test$Imperv5km and test$HighDev5km

t = 263.46, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9989417 0.9995205

sample estimates:

cor

0.9992876

> cor.test(test$Imperv5km, test$HighDev30km) #r is -0.212

Pearson's product-moment correlation

data: test$Imperv5km and test$HighDev30km

t = -1.9077, df = 99, p-value = 0.05933

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.370115479 0.007415483

sample estimates:

cor

-0.1882967

> cor.test(test$Imperv5km, test$LowDev500m) #r is 0.059

Pearson's product-moment correlation

data: test$Imperv5km and test$LowDev500m

t = 0.53843, df = 99, p-value = 0.5915

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1429133 0.2468674

sample estimates:

cor

0.05403524

> cor.test(test$Imperv5km, test$LowDev1km) #r is 0.266

Pearson's product-moment correlation

data: test$Imperv5km and test$LowDev1km

t = 2.6045, df = 99, p-value = 0.01062

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06080436 0.42751502

sample estimates:

cor

0.2532343

> cor.test(test$Imperv5km, test$LowDev5km) #r is 0.927 #!!

Pearson's product-moment correlation

data: test$Imperv5km and test$LowDev5km

t = 24.501, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8927264 0.9499402

sample estimates:

cor

0.9265134

> cor.test(test$Imperv5km, test$LowDev30km) #r is 0.247

Pearson's product-moment correlation

data: test$Imperv5km and test$LowDev30km

t = 2.3395, df = 99, p-value = 0.02132

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03501402 0.40615740

sample estimates:

cor

0.228887

> cor.test(test$Imperv5km, test$OpenDev500m) #r is 0.110

Pearson's product-moment correlation

data: test$Imperv5km and test$OpenDev500m

t = 1.0097, df = 99, p-value = 0.3151

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09637831 0.29066650

sample estimates:

cor

0.1009627

> cor.test(test$Imperv5km, test$OpenDev1km) #r is 0.271

Pearson's product-moment correlation

data: test$Imperv5km and test$OpenDev1km

t = 2.6401, df = 99, p-value = 0.009632

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06424318 0.43033220

sample estimates:

cor

0.2564624

> cor.test(test$Imperv5km, test$OpenDev5km) #r is 0.628

Pearson's product-moment correlation

data: test$Imperv5km and test$OpenDev5km

t = 7.9941, df = 99, p-value = 2.472e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4909870 0.7321439

sample estimates:

cor

0.6263253

> cor.test(test$Imperv5km, test$OpenDev30km) #r is 0.293

Pearson's product-moment correlation

data: test$Imperv5km and test$OpenDev30km

t = 2.7719, df = 99, p-value = 0.006658

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.07696767 0.44069478

sample estimates:

cor

0.26837

> cor.test(test$Imperv5km, test$Grass500m) #r is 0.154

Pearson's product-moment correlation

data: test$Imperv5km and test$Grass500m

t = 1.4208, df = 99, p-value = 0.1585

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05561158 0.32774833

sample estimates:

cor

0.1413641

> cor.test(test$Imperv5km, test$Grass1km) #r is 0.174

Pearson's product-moment correlation

data: test$Imperv5km and test$Grass1km

t = 1.5973, df = 99, p-value = 0.1134

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03811709 0.34330734

sample estimates:

cor

0.1585029

> cor.test(test$Imperv5km, test$Grass5km) #r is 0.246

Pearson's product-moment correlation

data: test$Imperv5km and test$Grass5km

t = 1.7719, df = 99, p-value = 0.07949

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02083074 0.35847834

sample estimates:

cor

0.1753223

> cor.test(test$Imperv5km, test$Grass30km) #r is 0.312

Pearson's product-moment correlation

data: test$Imperv5km and test$Grass30km

t = 1.8223, df = 99, p-value = 0.07142

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01584245 0.36281927

sample estimates:

cor

0.1801546

> cor.test(test$Imperv5km, test$Schrubs500m) #r is 0.122

Pearson's product-moment correlation

data: test$Imperv5km and test$Schrubs500m

t = 1.2113, df = 99, p-value = 0.2287

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07639434 0.30899057

sample estimates:

cor

0.1208493

> cor.test(test$Imperv5km, test$Schrubs1km) #r is 0.053

Pearson's product-moment correlation

data: test$Imperv5km and test$Schrubs1km

t = 0.48142, df = 99, p-value = 0.6313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1485137 0.2414866

sample estimates:

cor

0.04832826

> cor.test(test$Imperv5km, test$Schrubs5km) #r is -0.331

Pearson's product-moment correlation

data: test$Imperv5km and test$Schrubs5km

t = -3.4748, df = 99, p-value = 0.0007602

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4933513 -0.1435101

sample estimates:

cor

-0.329702

> cor.test(test$Imperv5km, test$Schrubs30km) #r is -0.459

Pearson's product-moment correlation

data: test$Imperv5km and test$Schrubs30km

t = -4.8956, df = 99, p-value = 3.813e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5863310 -0.2692769

sample estimates:

cor

-0.4414821

> cor.test(test$Imperv5km, test$Water500m) #r is -0.122

Pearson's product-moment correlation

data: test$Imperv5km and test$Water500m

t = -1.3516, df = 99, p-value = 0.1796

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32157972 0.06248297

sample estimates:

cor

-0.1346

> cor.test(test$Imperv5km, test$Water1km) #r is 0.044

Pearson's product-moment correlation

data: test$Imperv5km and test$Water1km

t = 0.3364, df = 99, p-value = 0.7373

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1627241 0.2277252

sample estimates:

cor

0.03378978

> cor.test(test$Imperv5km, test$Water5km) #r is -0.057

Pearson's product-moment correlation

data: test$Imperv5km and test$Water5km

t = -0.62697, df = 99, p-value = 0.5321

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2551905 0.1342009

sample estimates:

cor

-0.06288774

> cor.test(test$Imperv5km, test$Water30km) #r is -0.269

Pearson's product-moment correlation

data: test$Imperv5km and test$Water30km

t = -2.6322, df = 99, p-value = 0.009842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42970966 -0.06348252

sample estimates:

cor

-0.2557487

> cor.test(test$Imperv5km, test$NSoilTypes) #r is -0.201

Pearson's product-moment correlation

data: test$Imperv5km and test$NSoilTypes

t = -2.0539, df = 99, p-value = 0.04262

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.382492352 -0.007003238

sample estimates:

cor

-0.2021658

> cor.test(test$Imperv5km, test$FPSiteIndex) # r is 0.065

Pearson's product-moment correlation

data: test$Imperv5km and test$FPSiteIndex

t = 0.57612, df = 91, p-value = 0.566

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1452078 0.2607893

sample estimates:

cor

0.06028364

> cor.test(test$Imperv5km, test$SiteIndexPrimaryS) # r is 0.114

Pearson's product-moment correlation

data: test$Imperv5km and test$SiteIndexPrimaryS

t = 0.86651, df = 91, p-value = 0.3885

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1153719 0.2888479

sample estimates:

cor

0.09046247

> cor.test(test$Imperv5km, test$PISoils) # r is -0.051

Pearson's product-moment correlation

data: test$Imperv5km and test$PISoils

t = -0.51227, df = 99, p-value = 0.6096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2444003 0.1454842

sample estimates:

cor

-0.05141697

> cor.test(test$Imperv5km, test$SISoils) # r is 0.299

Pearson's product-moment correlation

data: test$Imperv5km and test$SISoils

t = 3.4121, df = 99, p-value = 0.000935

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1376696 0.4888301

sample estimates:

cor

0.3243811

> cor.test(test$Imperv5km, test$HydricSoils) # r is -0.125

Pearson's product-moment correlation

data: test$Imperv5km and test$HydricSoils

t = -1.3642, df = 99, p-value = 0.1756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32270745 0.06122948

sample estimates:

cor

-0.1358353

> #Imperv30km by each

> #cor.test(test$Imperv30km, test$Treatment) #non-numeric

> #cor.test(test$Imperv30km, test$Imperv30km)

> cor.test(test$Imperv30km, test$Protected30km) #r is -0.141

Pearson's product-moment correlation

data: test$Imperv30km and test$Protected30km

t = -1.1093, df = 99, p-value = 0.27

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29975192 0.08650873

sample estimates:

cor

-0.1108039

> cor.test(test$Imperv30km, test$HighDev500m) #r is -0.008

Pearson's product-moment correlation

data: test$Imperv30km and test$HighDev500m

t = -0.10551, df = 99, p-value = 0.9162

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2056165 0.1852197

sample estimates:

cor

-0.01060337

> cor.test(test$Imperv30km, test$HighDev1km) #r is 0.109

Pearson's product-moment correlation

data: test$Imperv30km and test$HighDev1km

t = 1.0623, df = 99, p-value = 0.2907

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09116804 0.29547152

sample estimates:

cor

0.1061628

> cor.test(test$Imperv30km, test$HighDev5km) #r is 0.193

Pearson's product-moment correlation

data: test$Imperv30km and test$HighDev5km

t = 1.8707, df = 99, p-value = 0.06435

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01106724 0.36695944

sample estimates:

cor

0.1847717

> cor.test(test$Imperv30km, test$HighDev30km) #r is -0.274

Pearson's product-moment correlation

data: test$Imperv30km and test$HighDev30km

t = -2.5925, df = 99, p-value = 0.01097

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42655825 -0.05963844

sample estimates:

cor

-0.2521389

> cor.test(test$Imperv30km, test$LowDev500m) #r is 0.008

Pearson's product-moment correlation

data: test$Imperv30km and test$LowDev500m

t = 0.014323, df = 99, p-value = 0.9886

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1940543 0.1968234

sample estimates:

cor

0.00143952

> cor.test(test$Imperv30km, test$LowDev1km) #r is 0.340

Pearson's product-moment correlation

data: test$Imperv30km and test$LowDev1km

t = 3.4676, df = 99, p-value = 0.0007785

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1428437 0.4928364

sample estimates:

cor

0.3290955

> cor.test(test$Imperv30km, test$LowDev5km) #r is 0.257

Pearson's product-moment correlation

data: test$Imperv30km and test$LowDev5km

t = 2.5243, df = 99, p-value = 0.01318

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05302342 0.42111427

sample estimates:

cor

0.2459143

> cor.test(test$Imperv30km, test$LowDev30km) #r is 0.973 #!

Pearson's product-moment correlation

data: test$Imperv30km and test$LowDev30km

t = 36.888, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.9491555 0.9766445

sample estimates:

cor

0.9654936

> cor.test(test$Imperv30km, test$OpenDev500m) #r is -0.056

Pearson's product-moment correlation

data: test$Imperv30km and test$OpenDev500m

t = -0.67189, df = 99, p-value = 0.5032

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2593973 0.1297744

sample estimates:

cor

-0.06737362

> cor.test(test$Imperv30km, test$OpenDev1km) #r is 0.117

Pearson's product-moment correlation

data: test$Imperv30km and test$OpenDev1km

t = 0.98496, df = 99, p-value = 0.327

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09883178 0.28839709

sample estimates:

cor

0.09851027

> cor.test(test$Imperv30km, test$OpenDev5km) #r is 0.235

Pearson's product-moment correlation

data: test$Imperv30km and test$OpenDev5km

t = 2.221, df = 99, p-value = 0.02863

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02341047 0.39641412

sample estimates:

cor

0.217853

> cor.test(test$Imperv30km, test$OpenDev30km) #r is 0.730

Pearson's product-moment correlation

data: test$Imperv30km and test$OpenDev30km

t = 10.305, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6096857 0.8020716

sample estimates:

cor

0.7194034

> cor.test(test$Imperv30km, test$Grass500m) #r is 0.238

Pearson's product-moment correlation

data: test$Imperv30km and test$Grass500m

t = 2.238, df = 99, p-value = 0.02746

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02507912 0.39782044

sample estimates:

cor

0.2194428

> cor.test(test$Imperv30km, test$Grass1km) #r is 0.382

Pearson's product-moment correlation

data: test$Imperv30km and test$Grass1km

t = 3.8925, df = 99, p-value = 0.0001801

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1818289 0.5225535

sample estimates:

cor

0.3643214

> cor.test(test$Imperv30km, test$Grass5km) #r is 0.117

Pearson's product-moment correlation

data: test$Imperv30km and test$Grass5km

t = 0.63563, df = 99, p-value = 0.5265

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1333475 0.2560028

sample estimates:

cor

0.06375329

> cor.test(test$Imperv30km, test$Grass30km) #r is 0.122

Pearson's product-moment correlation

data: test$Imperv30km and test$Grass30km

t = 0.53347, df = 99, p-value = 0.5949

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1434012 0.2463996

sample estimates:

cor

0.05353852

> cor.test(test$Imperv30km, test$Schrubs500m) #r is 0.144

Pearson's product-moment correlation

data: test$Imperv30km and test$Schrubs500m

t = 1.3868, df = 99, p-value = 0.1686

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05898812 0.32472121

sample estimates:

cor

0.1380426

> cor.test(test$Imperv30km, test$Schrubs1km) #r is -0.032

Pearson's product-moment correlation

data: test$Imperv30km and test$Schrubs1km

t = -0.45057, df = 99, p-value = 0.6533

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2385676 0.1515415

sample estimates:

cor

-0.04523757

> cor.test(test$Imperv30km, test$Schrubs5km) #r is -0.392

Pearson's product-moment correlation

data: test$Imperv30km and test$Schrubs5km

t = -4.2619, df = 99, p-value = 4.63e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5470758 -0.2148266

sample estimates:

cor

-0.3937347

> cor.test(test$Imperv30km, test$Schrubs30km) #r is -0.411

Pearson's product-moment correlation

data: test$Imperv30km and test$Schrubs30km

t = -3.9863, df = 99, p-value = 0.0001285

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5288981 -0.1902933

sample estimates:

cor

-0.3719013

> cor.test(test$Imperv30km, test$Water500m) #r is 0.100

Pearson's product-moment correlation

data: test$Imperv30km and test$Water500m

t = 0.89006, df = 99, p-value = 0.3756

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1082251 0.2796681

sample estimates:

cor

0.08909878

> cor.test(test$Imperv30km, test$Water1km) #r is -0.035

Pearson's product-moment correlation

data: test$Imperv30km and test$Water1km

t = -0.4716, df = 99, p-value = 0.6382

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2405581 0.1494777

sample estimates:

cor

-0.04734471

> cor.test(test$Imperv30km, test$Water5km) #r is 0.040

Pearson's product-moment correlation

data: test$Imperv30km and test$Water5km

t = 0.31559, df = 99, p-value = 0.753

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1647584 0.2257423

sample estimates:

cor

0.03170168

> cor.test(test$Imperv30km, test$Water30km) #r is -0.021

Pearson's product-moment correlation

data: test$Imperv30km and test$Water30km

t = 0.13365, df = 99, p-value = 0.8939

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1824869 0.2083238

sample estimates:

cor

0.01343143

> cor.test(test$Imperv30km, test$NSoilTypes) #r is -0.082

Pearson's product-moment correlation

data: test$Imperv30km and test$NSoilTypes

t = -0.85241, df = 99, p-value = 0.396

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2761892 0.1119495

sample estimates:

cor

-0.08535737

> cor.test(test$Imperv30km, test$FPSiteIndex) # r is -0.052

Pearson's product-moment correlation

data: test$Imperv30km and test$FPSiteIndex

t = -0.368, df = 91, p-value = 0.7137

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2403690 0.1664672

sample estimates:

cor

-0.03854828

> cor.test(test$Imperv30km, test$SiteIndexPrimaryS) # r is -0.017

Pearson's product-moment correlation

data: test$Imperv30km and test$SiteIndexPrimaryS

t = -0.18026, df = 91, p-value = 0.8573

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2217481 0.1855290

sample estimates:

cor

-0.01889329

> cor.test(test$Imperv30km, test$PISoils) # r is -0.062

Pearson's product-moment correlation

data: test$Imperv30km and test$PISoils

t = -0.6133, df = 99, p-value = 0.5411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2539088 0.1355466

sample estimates:

cor

-0.06152248

> cor.test(test$Imperv30km, test$SISoils) # r is -0.039

Pearson's product-moment correlation

data: test$Imperv30km and test$SISoils

t = -0.22302, df = 99, p-value = 0.824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2168983 0.1737914

sample estimates:

cor

-0.02240897

> cor.test(test$Imperv30km, test$HydricSoils) # r is 0.003

Pearson's product-moment correlation

data: test$Imperv30km and test$HydricSoils

t = -0.11452, df = 99, p-value = 0.9091

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2064836 0.1843451

sample estimates:

cor

-0.01150877

> #Protected30km by each

> #cor.test(test$Protected30km, test$Treatment) #non-numeric

> #cor.test(test$Protected30km, test$Protected30km)

> cor.test(test$Protected30km, test$HighDev500m) #r is -0.118

Pearson's product-moment correlation

data: test$Protected30km and test$HighDev500m

t = -1.1649, df = 99, p-value = 0.2469

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30479513 0.08099733

sample estimates:

cor

-0.1162827

> cor.test(test$Protected30km, test$HighDev1km) #r is -0.178

Pearson's product-moment correlation

data: test$Protected30km and test$HighDev1km

t = -1.7654, df = 99, p-value = 0.08058

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35791805 0.02147321

sample estimates:

cor

-0.1746992

> cor.test(test$Protected30km, test$HighDev5km) #r is -0.256

Pearson's product-moment correlation

data: test$Protected30km and test$HighDev5km

t = -2.4609, df = 99, p-value = 0.01559

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41601099 -0.04685158

sample estimates:

cor

-0.2400924

> cor.test(test$Protected30km, test$HighDev30km) #r is 0.568

Pearson's product-moment correlation

data: test$Protected30km and test$HighDev30km

t = 6.2606, df = 99, p-value = 9.905e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3762908 0.6593733

sample estimates:

cor

0.5325643

> cor.test(test$Protected30km, test$LowDev500m) #r is -0.083

Pearson's product-moment correlation

data: test$Protected30km and test$LowDev500m

t = -0.66323, df = 99, p-value = 0.5087

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2585879 0.1306273

sample estimates:

cor

-0.06650991

> cor.test(test$Protected30km, test$LowDev1km) #r is -0.178

Pearson's product-moment correlation

data: test$Protected30km and test$LowDev1km

t = -1.5149, df = 99, p-value = 0.133

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33606779 0.04628641

sample estimates:

cor

-0.1505144

> cor.test(test$Protected30km, test$LowDev5km) #r is -0.396

Pearson's product-moment correlation

data: test$Protected30km and test$LowDev5km

t = -4.0739, df = 99, p-value = 9.332e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5347478 -0.1981425

sample estimates:

cor

-0.3789086

> cor.test(test$Protected30km, test$LowDev30km) #r is -0.126

Pearson's product-moment correlation

data: test$Protected30km and test$LowDev30km

t = -0.84092, df = 99, p-value = 0.4024

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2751268 0.1130847

sample estimates:

cor

-0.08421583

> cor.test(test$Protected30km, test$OpenDev500m) #r is 0.036

Pearson's product-moment correlation

data: test$Protected30km and test$OpenDev500m

t = 0.58436, df = 99, p-value = 0.5603

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1383954 0.2511906

sample estimates:

cor

0.05862965

> cor.test(test$Protected30km, test$OpenDev1km) #r is -0.172

Pearson's product-moment correlation

data: test$Protected30km and test$OpenDev1km

t = -1.2989, df = 99, p-value = 0.197

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31687276 0.06770183

sample estimates:

cor

-0.1294503

> cor.test(test$Protected30km, test$OpenDev5km) #r is -0.546

Pearson's product-moment correlation

data: test$Protected30km and test$OpenDev5km

t = -6.0107, df = 99, p-value = 3.092e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6471184 -0.3577929

sample estimates:

cor

-0.5170748

> cor.test(test$Protected30km, test$OpenDev30km) #r is -0.495

Pearson's product-moment correlation

data: test$Protected30km and test$OpenDev30km

t = -5.1371, df = 99, p-value = 1.401e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6003703 -0.2892554

sample estimates:

cor

-0.4587601

> cor.test(test$Protected30km, test$Grass500m) #r is -0.225

Pearson's product-moment correlation

data: test$Protected30km and test$Grass500m

t = -1.7481, df = 99, p-value = 0.08355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35642245 0.02318665

sample estimates:

cor

-0.1730367

> cor.test(test$Protected30km, test$Grass1km) #r is -0.195

Pearson's product-moment correlation

data: test$Protected30km and test$Grass1km

t = -1.1215, df = 99, p-value = 0.2648

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30085730 0.08530275

sample estimates:

cor

-0.1120038

> cor.test(test$Protected30km, test$Grass5km) #r is -0.682

Pearson's product-moment correlation

data: test$Protected30km and test$Grass5km

t = -7.3333, df = 99, p-value = 6.24e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7067809 -0.4500393

sample estimates:

cor

-0.5932951

> cor.test(test$Protected30km, test$Grass30km) #r is -0.573

Pearson's product-moment correlation

data: test$Protected30km and test$Grass30km

t = -4.3969, df = 99, p-value = 2.767e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5557347 -0.2266623

sample estimates:

cor

-0.4041962

> cor.test(test$Protected30km, test$Schrubs500m) #r is -0.130

Pearson's product-moment correlation

data: test$Protected30km and test$Schrubs500m

t = -1.1305, df = 99, p-value = 0.261

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30167229 0.08441286

sample estimates:

cor

-0.1128888

> cor.test(test$Protected30km, test$Schrubs1km) #r is -0.134

Pearson's product-moment correlation

data: test$Protected30km and test$Schrubs1km

t = -1.002, df = 99, p-value = 0.3188

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28995866 0.09714407

sample estimates:

cor

-0.1001975

> cor.test(test$Protected30km, test$Schrubs5km) #r is 0.204

Pearson's product-moment correlation

data: test$Protected30km and test$Schrubs5km

t = 2.1852, df = 99, p-value = 0.03123

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01990672 0.39345547

sample estimates:

cor

0.2145114

> cor.test(test$Protected30km, test$Schrubs30km) #r is 0.298

Pearson's product-moment correlation

data: test$Protected30km and test$Schrubs30km

t = 2.0844, df = 99, p-value = 0.0397

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009997974 0.385046210

sample estimates:

cor

0.2050366

> cor.test(test$Protected30km, test$Water500m) #r is -0.109

Pearson's product-moment correlation

data: test$Protected30km and test$Water500m

t = -1.0988, df = 99, p-value = 0.2745

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29879385 0.08755308

sample estimates:

cor

-0.1097644

> cor.test(test$Protected30km, test$Water1km) #r is -0.216

Pearson's product-moment correlation

data: test$Protected30km and test$Water1km

t = -2.0695, df = 99, p-value = 0.0411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.383800633 -0.008536529

sample estimates:

cor

-0.2036361

> cor.test(test$Protected30km, test$Water5km) #r is -0.219

Pearson's product-moment correlation

data: test$Protected30km and test$Water5km

t = -2.1024, df = 99, p-value = 0.03806

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38655461 -0.01176993

sample estimates:

cor

-0.2067336

> cor.test(test$Protected30km, test$Water30km) #r is 0.757

Pearson's product-moment correlation

data: test$Protected30km and test$Water30km

t = 10.757, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6288872 0.8129087

sample estimates:

cor

0.7340989

> cor.test(test$Protected30km, test$NSoilTypes) #r is 0.010

Pearson's product-moment correlation

data: test$Protected30km and test$NSoilTypes

t = 0.026838, df = 99, p-value = 0.9786

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1928436 0.1980322

sample estimates:

cor

0.002697337

> cor.test(test$Protected30km, test$FPSiteIndex) # r is 0.327

Pearson's product-moment correlation

data: test$Protected30km and test$FPSiteIndex

t = 2.6056, df = 91, p-value = 0.01071

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06317356 0.44339964

sample estimates:

cor

0.263491

> cor.test(test$Protected30km, test$SiteIndexPrimaryS) # r is 0.188

Pearson's product-moment correlation

data: test$Protected30km and test$SiteIndexPrimaryS

t = 1.4482, df = 91, p-value = 0.151

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05530871 0.34330252

sample estimates:

cor

0.1500906

> cor.test(test$Protected30km, test$PISoils) # r is -0.136

Pearson's product-moment correlation

data: test$Protected30km and test$PISoils

t = -1.6104, df = 99, p-value = 0.1105

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34445655 0.03681559

sample estimates:

cor

-0.1597733

> cor.test(test$Protected30km, test$SISoils) # r is 0.183

Pearson's product-moment correlation

data: test$Protected30km and test$SISoils

t = 1.6238, df = 99, p-value = 0.1076

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03549203 0.34562406

sample estimates:

cor

0.1610645

> cor.test(test$Protected30km, test$HydricSoils) # r is -0.204

Pearson's product-moment correlation

data: test$Protected30km and test$HydricSoils

t = -2.0711, df = 99, p-value = 0.04095

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.383937572 -0.008697122

sample estimates:

cor

-0.20379

> #HighDev500m by each

> #cor.test(test$HighDev500m, test$Treatment) #non-numeric

> #cor.test(test$HighDev500m, test$HighDev500m)

> cor.test(test$HighDev500m, test$HighDev1km) #r is -0.012

Pearson's product-moment correlation

data: test$HighDev500m and test$HighDev1km

t = -0.12214, df = 99, p-value = 0.903

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2072166 0.1836053

sample estimates:

cor

-0.01227446

> cor.test(test$HighDev500m, test$HighDev5km) #r is -0.076

Pearson's product-moment correlation

data: test$HighDev500m and test$HighDev5km

t = -0.7685, df = 99, p-value = 0.444

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2684075 0.1202411

sample estimates:

cor

-0.07700786

> cor.test(test$HighDev500m, test$HighDev30km) #r is -0.104

Pearson's product-moment correlation

data: test$HighDev500m and test$HighDev30km

t = -0.99148, df = 99, p-value = 0.3239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28899544 0.09818535

sample estimates:

cor

-0.09915665

> cor.test(test$HighDev500m, test$LowDev500m) #r is 0.143

Pearson's product-moment correlation

data: test$HighDev500m and test$LowDev500m

t = 1.4316, df = 99, p-value = 0.1554

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05454466 0.32870320

sample estimates:

cor

0.1424127

> cor.test(test$HighDev500m, test$LowDev1km) #r is -0.001

Pearson's product-moment correlation

data: test$HighDev500m and test$LowDev1km

t = -0.046904, df = 99, p-value = 0.9627

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1999690 0.1909012

sample estimates:

cor

-0.004713928

> cor.test(test$HighDev500m, test$LowDev5km) #r is -0.085

Pearson's product-moment correlation

data: test$HighDev500m and test$LowDev5km

t = -0.88105, df = 99, p-value = 0.3804

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2788359 0.1091170

sample estimates:

cor

-0.08820327

> cor.test(test$HighDev500m, test$LowDev30km) #r is 0.006

Pearson's product-moment correlation

data: test$HighDev500m and test$LowDev30km

t = 0.0061551, df = 99, p-value = 0.9951

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1948442 0.1960342

sample estimates:

cor

0.0006186111

> cor.test(test$HighDev500m, test$OpenDev500m) #r is -0.046

Pearson's product-moment correlation

data: test$HighDev500m and test$OpenDev500m

t = -0.48974, df = 99, p-value = 0.6254

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2422729 0.1476969

sample estimates:

cor

-0.04916141

> cor.test(test$HighDev500m, test$OpenDev1km) #r is 0.044

Pearson's product-moment correlation

data: test$HighDev500m and test$OpenDev1km

t = 0.39934, df = 99, p-value = 0.6905

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1565630 0.2337108

sample estimates:

cor

0.04010335

> cor.test(test$HighDev500m, test$OpenDev5km) #r is -0.031

Pearson's product-moment correlation

data: test$HighDev500m and test$OpenDev5km

t = -0.34289, df = 99, p-value = 0.7324

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2283440 0.1620885

sample estimates:

cor

-0.0344418

> cor.test(test$HighDev500m, test$OpenDev30km) #r is 0.054

Pearson's product-moment correlation

data: test$HighDev500m and test$OpenDev30km

t = 0.47273, df = 99, p-value = 0.6374

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1493665 0.2406652

sample estimates:

cor

0.04745812

> cor.test(test$HighDev500m, test$Grass500m) #r is -0.123

Pearson's product-moment correlation

data: test$HighDev500m and test$Grass500m

t = -1.3011, df = 99, p-value = 0.1963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31706166 0.06749279

sample estimates:

cor

-0.1296567

> cor.test(test$HighDev500m, test$Grass1km) #r is 0.024

Pearson's product-moment correlation

data: test$HighDev500m and test$Grass1km

t = 0.20045, df = 99, p-value = 0.8415

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1759902 0.2147358

sample estimates:

cor

0.0201419

> cor.test(test$HighDev500m, test$Grass5km) #r is -0.007

Pearson's product-moment correlation

data: test$HighDev500m and test$Grass5km

t = -0.21051, df = 99, p-value = 0.8337

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2156999 0.1750104

sample estimates:

cor

-0.02115236

> cor.test(test$HighDev500m, test$Grass30km) #r is 0.044

Pearson's product-moment correlation

data: test$HighDev500m and test$Grass30km

t = 0.1687, df = 99, p-value = 0.8664

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1790803 0.2116902

sample estimates:

cor

0.01695226

> cor.test(test$HighDev500m, test$Schrubs500m) #r is -0.063

Pearson's product-moment correlation

data: test$HighDev500m and test$Schrubs500m

t = -0.63133, df = 99, p-value = 0.5293

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2555995 0.1337713

sample estimates:

cor

-0.06332351

> cor.test(test$HighDev500m, test$Schrubs1km) #r is 0.065

Pearson's product-moment correlation

data: test$HighDev500m and test$Schrubs1km

t = 0.64155, df = 99, p-value = 0.5226

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1327644 0.2565574

sample estimates:

cor

0.06434441

> cor.test(test$HighDev500m, test$Schrubs5km) #r is -0.039

Pearson's product-moment correlation

data: test$HighDev500m and test$Schrubs5km

t = -0.37829, df = 99, p-value = 0.706

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2317110 0.1586249

sample estimates:

cor

-0.03799219

> cor.test(test$HighDev500m, test$Schrubs30km) #r is -0.064

Pearson's product-moment correlation

data: test$HighDev500m and test$Schrubs30km

t = -0.62837, df = 99, p-value = 0.5312

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2553224 0.1340624

sample estimates:

cor

-0.06302826

> cor.test(test$HighDev500m, test$Water500m) #r is -0.060

Pearson's product-moment correlation

data: test$HighDev500m and test$Water500m

t = -0.62007, df = 99, p-value = 0.5366

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2545438 0.1348801

sample estimates:

cor

-0.06219874

> cor.test(test$HighDev500m, test$Water1km) #r is -0.091

Pearson's product-moment correlation

data: test$HighDev500m and test$Water1km

t = -0.93568, df = 99, p-value = 0.3517

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2838709 0.1037110

sample estimates:

cor

-0.09362601

> cor.test(test$HighDev500m, test$Water5km) #r is -0.024

Pearson's product-moment correlation

data: test$HighDev500m and test$Water5km

t = -0.24763, df = 99, p-value = 0.8049

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2192527 0.1713931

sample estimates:

cor

-0.02487958

> cor.test(test$HighDev500m, test$Water30km) #r is -0.041

Pearson's product-moment correlation

data: test$HighDev500m and test$Water30km

t = -0.36082, df = 99, p-value = 0.719

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2300503 0.1603344

sample estimates:

cor

-0.03624044

> cor.test(test$HighDev500m, test$NSoilTypes) #r is -0.041

Pearson's product-moment correlation

data: test$HighDev500m and test$NSoilTypes

t = -0.40765, df = 99, p-value = 0.6844

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2344996 0.1557488

sample estimates:

cor

-0.04093651

> cor.test(test$HighDev500m, test$FPSiteIndex) # r is 0.101

Pearson's product-moment correlation

data: test$HighDev500m and test$FPSiteIndex

t = 0.9226, df = 91, p-value = 0.3587

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1095919 0.2942044

sample estimates:

cor

0.0962655

> cor.test(test$HighDev500m, test$SiteIndexPrimaryS) # r is 0.073

Pearson's product-moment correlation

data: test$HighDev500m and test$SiteIndexPrimaryS

t = 0.59832, df = 91, p-value = 0.5511

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1429334 0.2629527

sample estimates:

cor

0.06259754

> cor.test(test$HighDev500m, test$PISoils) # r is -0.103

Pearson's product-moment correlation

data: test$HighDev500m and test$PISoils

t = -1.0361, df = 99, p-value = 0.3027

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29307805 0.09376603

sample estimates:

cor

-0.1035712

> cor.test(test$HighDev500m, test$SISoils) # r is -0.175

Pearson's product-moment correlation

data: test$HighDev500m and test$SISoils

t = -1.706, df = 99, p-value = 0.09114

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35278128 0.02734887

sample estimates:

cor

-0.1689937

> cor.test(test$HighDev500m, test$HydricSoils) # r is 0.161

Pearson's product-moment correlation

data: test$HighDev500m and test$HydricSoils

t = 1.2118, df = 99, p-value = 0.2285

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07634446 0.30903595

sample estimates:

cor

0.1208987

> #HighDev1km by each

> #cor.test(test$HighDev1km, test$Treatment) #non-numeric

> #cor.test(test$HighDev1km, test$HighDev1km)

> cor.test(test$HighDev1km, test$HighDev5km) #r is 0.189

Pearson's product-moment correlation

data: test$HighDev1km and test$HighDev5km

t = 1.9035, df = 99, p-value = 0.05988

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0078222 0.3697644

sample estimates:

cor

0.1879043

> cor.test(test$HighDev1km, test$HighDev30km) #r is -0.291

Pearson's product-moment correlation

data: test$HighDev1km and test$HighDev30km

t = -2.978, df = 99, p-value = 0.003648

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45658799 -0.09671631

sample estimates:

cor

-0.2867356

> cor.test(test$HighDev1km, test$LowDev500m) #r is 0.043

Pearson's product-moment correlation

data: test$HighDev1km and test$LowDev500m

t = 0.41324, df = 99, p-value = 0.6803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1552016 0.2350295

sample estimates:

cor

0.04149637

> cor.test(test$HighDev1km, test$LowDev1km) #r is 0.185

Pearson's product-moment correlation

data: test$HighDev1km and test$LowDev1km

t = 1.8269, df = 99, p-value = 0.07072

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01538631 0.36321539

sample estimates:

cor

0.180596

> cor.test(test$HighDev1km, test$LowDev5km) #r is 0.193

Pearson's product-moment correlation

data: test$HighDev1km and test$LowDev5km

t = 1.9384, df = 99, p-value = 0.05543

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.00438463 0.37272830

sample estimates:

cor

0.1912185

> cor.test(test$HighDev1km, test$LowDev30km) #r is 0.125

Pearson's product-moment correlation

data: test$HighDev1km and test$LowDev30km

t = 1.183, df = 99, p-value = 0.2396

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07920338 0.30643202

sample estimates:

cor

0.1180634

> cor.test(test$HighDev1km, test$OpenDev500m) #r is 0.203

Pearson's product-moment correlation

data: test$HighDev1km and test$OpenDev500m

t = 2.0361, df = 99, p-value = 0.04441

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.005251088 0.380995484

sample estimates:

cor

0.2004846

> cor.test(test$HighDev1km, test$OpenDev1km) #r is 0.277

Pearson's product-moment correlation

data: test$HighDev1km and test$OpenDev1km

t = 2.8388, df = 99, p-value = 0.005496

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08338943 0.44588800

sample estimates:

cor

0.2743573

> cor.test(test$HighDev1km, test$OpenDev5km) #r is 0.219

Pearson's product-moment correlation

data: test$HighDev1km and test$OpenDev5km

t = 2.2228, df = 99, p-value = 0.0285

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02359299 0.39656802

sample estimates:

cor

0.2180269

> cor.test(test$HighDev1km, test$OpenDev30km) #r is 0.219

Pearson's product-moment correlation

data: test$HighDev1km and test$OpenDev30km

t = 2.1553, df = 99, p-value = 0.03356

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01697097 0.39097049

sample estimates:

cor

0.211708

> cor.test(test$HighDev1km, test$Grass500m) #r is 0.134

Pearson's product-moment correlation

data: test$HighDev1km and test$Grass500m

t = 1.3147, df = 99, p-value = 0.1916

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06613507 0.31828784

sample estimates:

cor

0.1309974

> cor.test(test$HighDev1km, test$Grass1km) #r is 0.049

Pearson's product-moment correlation

data: test$HighDev1km and test$Grass1km

t = 0.43201, df = 99, p-value = 0.6667

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1533614 0.2368097

sample estimates:

cor

0.04337802

> cor.test(test$HighDev1km, test$Grass5km) #r is 0.227

Pearson's product-moment correlation

data: test$HighDev1km and test$Grass5km

t = 1.9184, df = 99, p-value = 0.05795

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.006358955 0.371026965

sample estimates:

cor

0.1893156

> cor.test(test$HighDev1km, test$Grass30km) #r is 0.196

Pearson's product-moment correlation

data: test$HighDev1km and test$Grass30km

t = 1.2737, df = 99, p-value = 0.2057

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07020448 0.31460884

sample estimates:

cor

0.126977

> cor.test(test$HighDev1km, test$Schrubs500m) #r is -0.008

Pearson's product-moment correlation

data: test$HighDev1km and test$Schrubs500m

t = -0.085381, df = 99, p-value = 0.9321

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2036785 0.1871724

sample estimates:

cor

-0.008580798

> cor.test(test$HighDev1km, test$Schrubs1km) #r is -0.088

Pearson's product-moment correlation

data: test$HighDev1km and test$Schrubs1km

t = -0.89361, df = 99, p-value = 0.3737

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2799953 0.1078742

sample estimates:

cor

-0.08945094

> cor.test(test$HighDev1km, test$Schrubs5km) #r is -0.207

Pearson's product-moment correlation

data: test$HighDev1km and test$Schrubs5km

t = -2.0906, df = 99, p-value = 0.03912

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38557076 -0.01061391

sample estimates:

cor

-0.2056266

> cor.test(test$HighDev1km, test$Schrubs30km) #r is -0.280

Pearson's product-moment correlation

data: test$HighDev1km and test$Schrubs30km

t = -2.781, df = 99, p-value = 0.006487

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44140481 -0.07784389

sample estimates:

cor

-0.2691878

> cor.test(test$HighDev1km, test$Water500m) #r is -0.087

Pearson's product-moment correlation

data: test$HighDev1km and test$Water500m

t = -0.9201, df = 99, p-value = 0.3598

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2824368 0.1052531

sample estimates:

cor

-0.09208028

> cor.test(test$HighDev1km, test$Water1km) #r is -0.111

Pearson's product-moment correlation

data: test$HighDev1km and test$Water1km

t = -1.1517, df = 99, p-value = 0.2522

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30360069 0.08230479

sample estimates:

cor

-0.1149841

> cor.test(test$HighDev1km, test$Water5km) #r is -0.087

Pearson's product-moment correlation

data: test$HighDev1km and test$Water5km

t = -0.894, df = 99, p-value = 0.3735

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2800314 0.1078354

sample estimates:

cor

-0.08948985

> cor.test(test$HighDev1km, test$Water30km) #r is -0.132

Pearson's product-moment correlation

data: test$HighDev1km and test$Water30km

t = -1.2871, df = 99, p-value = 0.2011

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3158129 0.0688741

sample estimates:

cor

-0.1282921

> cor.test(test$HighDev1km, test$NSoilTypes) #r is -0.164

Pearson's product-moment correlation

data: test$HighDev1km and test$NSoilTypes

t = -1.659, df = 99, p-value = 0.1003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34869413 0.03200523

sample estimates:

cor

-0.1644628

> cor.test(test$HighDev1km, test$FPSiteIndex) # r is -0.103

Pearson's product-moment correlation

data: test$HighDev1km and test$FPSiteIndex

t = -0.97672, df = 91, p-value = 0.3313

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2993525 0.1040109

sample estimates:

cor

-0.1018554

> cor.test(test$HighDev1km, test$SiteIndexPrimaryS) # r is -0.084

Pearson's product-moment correlation

data: test$HighDev1km and test$SiteIndexPrimaryS

t = -0.83372, df = 91, p-value = 0.4066

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2857065 0.1187489

sample estimates:

cor

-0.0870655

> cor.test(test$HighDev1km, test$PISoils) # r is 0.160

Pearson's product-moment correlation

data: test$HighDev1km and test$PISoils

t = 1.6162, df = 99, p-value = 0.1092

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03624464 0.34496033

sample estimates:

cor

0.1603303

> cor.test(test$HighDev1km, test$SISoils) # r is -0.020

Pearson's product-moment correlation

data: test$HighDev1km and test$SISoils

t = -0.098341, df = 99, p-value = 0.9219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2049266 0.1859152

sample estimates:

cor

-0.009883158

> cor.test(test$HighDev1km, test$HydricSoils) # r is -0.071

Pearson's product-moment correlation

data: test$HighDev1km and test$HydricSoils

t = -0.72586, df = 99, p-value = 0.4696

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2644375 0.1244504

sample estimates:

cor

-0.07275854

> #HighDev5km by each

> #cor.test(test$HighDev5km, test$Treatment) #non-numeric

> #cor.test(test$HighDev5km, test$HighDev5km)

> cor.test(test$HighDev5km, test$HighDev30km) #r is -0.194

Pearson's product-moment correlation

data: test$HighDev5km and test$HighDev30km

t = -1.7231, df = 99, p-value = 0.088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35425885 0.02566145

sample estimates:

cor

-0.1706336

> cor.test(test$HighDev5km, test$LowDev500m) #r is 0.057

Pearson's product-moment correlation

data: test$HighDev5km and test$LowDev500m

t = 0.52591, df = 99, p-value = 0.6001

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1441441 0.2456869

sample estimates:

cor

0.05278209

> cor.test(test$HighDev5km, test$LowDev1km) #r is 0.255

Pearson's product-moment correlation

data: test$HighDev5km and test$LowDev1km

t = 2.4988, df = 99, p-value = 0.01411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05054283 0.41906595

sample estimates:

cor

0.243576

> cor.test(test$HighDev5km, test$LowDev5km) #r is 0.922 #too correlated

Pearson's product-moment correlation

data: test$HighDev5km and test$LowDev5km

t = 23.59, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8853898 0.9464058

sample estimates:

cor

0.9213916

> cor.test(test$HighDev5km, test$LowDev30km) #r is 0.235

Pearson's product-moment correlation

data: test$HighDev5km and test$LowDev30km

t = 2.2189, df = 99, p-value = 0.02877

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02321283 0.39624743

sample estimates:

cor

0.2176646

> cor.test(test$HighDev5km, test$OpenDev500m) #r is 0.107

Pearson's product-moment correlation

data: test$HighDev5km and test$OpenDev500m

t = 0.97613, df = 99, p-value = 0.3314

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09970604 0.28758736

sample estimates:

cor

0.0976358

> cor.test(test$HighDev5km, test$OpenDev1km) #r is 0.261

Pearson's product-moment correlation

data: test$HighDev5km and test$OpenDev1km

t = 2.5399, df = 99, p-value = 0.01264

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05453949 0.42236430

sample estimates:

cor

0.2473423

> cor.test(test$HighDev5km, test$OpenDev5km) #r is 0.614

Pearson's product-moment correlation

data: test$HighDev5km and test$OpenDev5km

t = 7.7089, df = 99, p-value = 1.003e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4737265 0.7215336

sample estimates:

cor

0.6124612

> cor.test(test$HighDev5km, test$OpenDev30km) #r is 0.271

Pearson's product-moment correlation

data: test$HighDev5km and test$OpenDev30km

t = 2.5449, df = 99, p-value = 0.01247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05502237 0.42276215

sample estimates:

cor

0.2477969

> cor.test(test$HighDev5km, test$Grass500m) #r is 0.142

Pearson's product-moment correlation

data: test$HighDev5km and test$Grass500m

t = 1.2949, df = 99, p-value = 0.1984

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06809976 0.31651308

sample estimates:

cor

0.1290572

> cor.test(test$HighDev5km, test$Grass1km) #r is 0.165

Pearson's product-moment correlation

data: test$HighDev5km and test$Grass1km

t = 1.5014, df = 99, p-value = 0.1364

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04761835 0.33488313

sample estimates:

cor

0.1492095

> cor.test(test$HighDev5km, test$Grass5km) #r is 0.236

Pearson's product-moment correlation

data: test$HighDev5km and test$Grass5km

t = 1.7071, df = 99, p-value = 0.09094

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02724366 0.35287346

sample estimates:

cor

0.169096

> cor.test(test$HighDev5km, test$Grass30km) #r is 0.305

Pearson's product-moment correlation

data: test$HighDev5km and test$Grass30km

t = 1.8127, df = 99, p-value = 0.07291

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01679246 0.36199381

sample estimates:

cor

0.179235

> cor.test(test$HighDev5km, test$Schrubs500m) #r is 0.117

Pearson's product-moment correlation

data: test$HighDev5km and test$Schrubs500m

t = 1.1631, df = 99, p-value = 0.2476

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08117116 0.30463639

sample estimates:

cor

0.1161101

> cor.test(test$HighDev5km, test$Schrubs1km) #r is 0.054

Pearson's product-moment correlation

data: test$HighDev5km and test$Schrubs1km

t = 0.49554, df = 99, p-value = 0.6213

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1471273 0.2428209

sample estimates:

cor

0.04974226

> cor.test(test$HighDev5km, test$Schrubs5km) #r is -0.324

Pearson's product-moment correlation

data: test$HighDev5km and test$Schrubs5km

t = -3.3989, df = 99, p-value = 0.0009762

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4878768 -0.1364413

sample estimates:

cor

-0.3232605

> cor.test(test$HighDev5km, test$Schrubs30km) #r is -0.444

Pearson's product-moment correlation

data: test$HighDev5km and test$Schrubs30km

t = -4.6825, df = 99, p-value = 9.024e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5735242 -0.2512871

sample estimates:

cor

-0.425814

> cor.test(test$HighDev5km, test$Water500m) #r is -0.120

Pearson's product-moment correlation

data: test$HighDev5km and test$Water500m

t = -1.327, df = 99, p-value = 0.1876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31938591 0.06491798

sample estimates:

cor

-0.1321986

> cor.test(test$HighDev5km, test$Water1km) #r is 0.047

Pearson's product-moment correlation

data: test$HighDev5km and test$Water1km

t = 0.37068, df = 99, p-value = 0.7117

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1593700 0.2309874

sample estimates:

cor

0.03722881

> cor.test(test$HighDev5km, test$Water5km) #r is -0.061

Pearson's product-moment correlation

data: test$HighDev5km and test$Water5km

t = -0.66332, df = 99, p-value = 0.5087

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2585962 0.1306186

sample estimates:

cor

-0.06651878

> cor.test(test$HighDev5km, test$Water30km) #r is -0.261

Pearson's product-moment correlation

data: test$HighDev5km and test$Water30km

t = -2.5448, df = 99, p-value = 0.01248

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42275161 -0.05500958

sample estimates:

cor

-0.2477849

> cor.test(test$HighDev5km, test$NSoilTypes) #r is -0.202

Pearson's product-moment correlation

data: test$HighDev5km and test$NSoilTypes

t = -2.071, df = 99, p-value = 0.04096

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.383927579 -0.008685402

sample estimates:

cor

-0.2037788

> cor.test(test$HighDev5km, test$FPSiteIndex) # r is 0.080

Pearson's product-moment correlation

data: test$HighDev5km and test$FPSiteIndex

t = 0.71877, df = 91, p-value = 0.4741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1305720 0.2746395

sample estimates:

cor

0.07513477

> cor.test(test$HighDev5km, test$SiteIndexPrimaryS) # r is 0.127

Pearson's product-moment correlation

data: test$HighDev5km and test$SiteIndexPrimaryS

t = 0.9932, df = 91, p-value = 0.3232

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1023106 0.3009164

sample estimates:

cor

0.103556

> cor.test(test$HighDev5km, test$PISoils) # r is -0.055

Pearson's product-moment correlation

data: test$HighDev5km and test$PISoils

t = -0.56074, df = 99, p-value = 0.5762

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2489683 0.1407199

sample estimates:

cor

-0.05626687

> cor.test(test$HighDev5km, test$SISoils) # r is 0.307

Pearson's product-moment correlation

data: test$HighDev5km and test$SISoils

t = 3.4946, df = 99, p-value = 0.0007117

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1453526 0.4947738

sample estimates:

cor

0.3313782

> cor.test(test$HighDev5km, test$HydricSoils) # r is -0.126

Pearson's product-moment correlation

data: test$HighDev5km and test$HydricSoils

t = -1.3478, df = 99, p-value = 0.1808

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32124341 0.06285656

sample estimates:

cor

-0.1342317

> #HighDev30km by each

> #cor.test(test$HighDev30km, test$Treatment) #non-numeric

> #cor.test(test$HighDev30km, test$HighDev30km)

> cor.test(test$HighDev30km, test$LowDev500m) #r is -0.095

Pearson's product-moment correlation

data: test$HighDev30km and test$LowDev500m

t = -0.83621, df = 99, p-value = 0.405

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2746905 0.1135506

sample estimates:

cor

-0.08374724

> cor.test(test$HighDev30km, test$LowDev1km) #r is -0.287

Pearson's product-moment correlation

data: test$HighDev30km and test$LowDev1km

t = -2.8287, df = 99, p-value = 0.005659

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44510673 -0.08242141

sample estimates:

cor

-0.2734557

> cor.test(test$HighDev30km, test$LowDev5km) #r is -0.415

Pearson's product-moment correlation

data: test$HighDev30km and test$LowDev5km

t = -4.2341, df = 99, p-value = 5.142e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5452735 -0.2123752

sample estimates:

cor

-0.3915621

> cor.test(test$HighDev30km, test$LowDev30km) #r is -0.260

Pearson's product-moment correlation

data: test$HighDev30km and test$LowDev30km

t = -2.5212, df = 99, p-value = 0.01329

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42085987 -0.05271509

sample estimates:

cor

-0.2456238

> cor.test(test$HighDev30km, test$OpenDev500m) #r is -0.287

Pearson's product-moment correlation

data: test$HighDev30km and test$OpenDev500m

t = -2.8325, df = 99, p-value = 0.005597

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44540039 -0.08278519

sample estimates:

cor

-0.2737946

> cor.test(test$HighDev30km, test$OpenDev1km) #r is -0.411

Pearson's product-moment correlation

data: test$HighDev30km and test$OpenDev1km

t = -4.1775, df = 99, p-value = 6.356e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5415851 -0.2073717

sample estimates:

cor

-0.3871215

> cor.test(test$HighDev30km, test$OpenDev5km) #r is -0.593

Pearson's product-moment correlation

data: test$HighDev30km and test$OpenDev5km

t = -6.744, df = 99, p-value = 1.043e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6817447 -0.4106510

sample estimates:

cor

-0.561061

> cor.test(test$HighDev30km, test$OpenDev30km) #r is -0.782 #high

Pearson's product-moment correlation

data: test$HighDev30km and test$OpenDev30km

t = -12.091, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8407338 -0.6792385

sample estimates:

cor

-0.772172

> cor.test(test$HighDev30km, test$Grass500m) #r is -0.019

Pearson's product-moment correlation

data: test$HighDev30km and test$Grass500m

t = 0.44536, df = 99, p-value = 0.657

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1520529 0.2380738

sample estimates:

cor

0.04471512

> cor.test(test$HighDev30km, test$Grass1km) #r is -0.135

Pearson's product-moment correlation

data: test$HighDev30km and test$Grass1km

t = -0.56866, df = 99, p-value = 0.5709

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2497135 0.1399409

sample estimates:

cor

-0.05705889

> cor.test(test$HighDev30km, test$Grass5km) #r is -0.343

Pearson's product-moment correlation

data: test$HighDev30km and test$Grass5km

t = -2.9672, df = 99, p-value = 0.003768

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4557625 -0.0956835

sample estimates:

cor

-0.2857786

> cor.test(test$HighDev30km, test$Grass30km) #r is -0.504

Pearson's product-moment correlation

data: test$HighDev30km and test$Grass30km

t = -4.4895, df = 99, p-value = 1.932e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5615837 -0.2347125

sample estimates:

cor

-0.4112853

> cor.test(test$HighDev30km, test$Schrubs500m) #r is -0.069

Pearson's product-moment correlation

data: test$HighDev30km and test$Schrubs500m

t = -0.48567, df = 99, p-value = 0.6283

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2418885 0.1480963

sample estimates:

cor

-0.04875411

> cor.test(test$HighDev30km, test$Schrubs1km) #r is 0.002

Pearson's product-moment correlation

data: test$HighDev30km and test$Schrubs1km

t = 0.3947, df = 99, p-value = 0.6939

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1570183 0.2332695

sample estimates:

cor

0.03963732

> cor.test(test$HighDev30km, test$Schrubs5km) #r is 0.257

Pearson's product-moment correlation

data: test$HighDev30km and test$Schrubs5km

t = 2.8045, df = 99, p-value = 0.006067

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08009598 0.44322766

sample estimates:

cor

0.2712885

> cor.test(test$HighDev30km, test$Schrubs30km) #r is 0.710 #

Pearson's product-moment correlation

data: test$HighDev30km and test$Schrubs30km

t = 7.7161, df = 99, p-value = 9.687e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4741670 0.7218059

sample estimates:

cor

0.6128161

> cor.test(test$HighDev30km, test$Water500m) #r is 0.323

Pearson's product-moment correlation

data: test$HighDev30km and test$Water500m

t = 3.5632, df = 99, p-value = 0.0005656

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1517005 0.4996601

sample estimates:

cor

0.3371441

> cor.test(test$HighDev30km, test$Water1km) #r is 0.212

Pearson's product-moment correlation

data: test$HighDev30km and test$Water1km

t = 2.5177, df = 99, p-value = 0.01342

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05237749 0.42058126

sample estimates:

cor

0.2453057

> cor.test(test$HighDev30km, test$Water5km) #r is -0.148

Pearson's product-moment correlation

data: test$HighDev30km and test$Water5km

t = -1.2893, df = 99, p-value = 0.2003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31600820 0.06865812

sample estimates:

cor

-0.1285055

> cor.test(test$HighDev30km, test$Water30km) #r is 0.404

Pearson's product-moment correlation

data: test$HighDev30km and test$Water30km

t = 3.9478, df = 99, p-value = 0.0001477

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1868253 0.5263031

sample estimates:

cor

0.3687986

> cor.test(test$HighDev30km, test$NSoilTypes) #r is -0.059

Pearson's product-moment correlation

data: test$HighDev30km and test$NSoilTypes

t = -0.29119, df = 99, p-value = 0.7715

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2234152 0.1671416

sample estimates:

cor

-0.02925321

> cor.test(test$HighDev30km, test$FPSiteIndex) # r is 0.343

Pearson's product-moment correlation

data: test$HighDev30km and test$FPSiteIndex

t = 2.8894, df = 91, p-value = 0.004824

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09159046 0.46607518

sample estimates:

cor

0.28989

> cor.test(test$HighDev30km, test$SiteIndexPrimaryS) # r is 0.232

Pearson's product-moment correlation

data: test$HighDev30km and test$SiteIndexPrimaryS

t = 1.8239, df = 91, p-value = 0.07145

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01654438 0.37707961

sample estimates:

cor

0.1877968

> cor.test(test$HighDev30km, test$PISoils) # r is -0.081

Pearson's product-moment correlation

data: test$HighDev30km and test$PISoils

t = -0.71269, df = 99, p-value = 0.4777

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2632093 0.1257498

sample estimates:

cor

-0.0714453

> cor.test(test$HighDev30km, test$SISoils) # r is 0.189

Pearson's product-moment correlation

data: test$HighDev30km and test$SISoils

t = 1.8314, df = 99, p-value = 0.07004

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01494252 0.36360067

sample estimates:

cor

0.1810254

> cor.test(test$HighDev30km, test$HydricSoils) # r is -0.111

Pearson's product-moment correlation

data: test$HighDev30km and test$HydricSoils

t = -0.99126, df = 99, p-value = 0.324

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28897511 0.09820733

sample estimates:

cor

-0.09913468

> #LowDev500m by each

> #cor.test(test$LowDev500m, test$Treatment) #non-numeric

> #cor.test(test$LowDev500m, test$LowDev500m)

> cor.test(test$LowDev500m, test$LowDev1km) #r is 0.734

Pearson's product-moment correlation

data: test$LowDev500m and test$LowDev1km

t = 10.681, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6257717 0.8111590

sample estimates:

cor

0.7317212

> cor.test(test$LowDev500m, test$LowDev5km) #r is 0.142

Pearson's product-moment correlation

data: test$LowDev500m and test$LowDev5km

t = 1.3616, df = 99, p-value = 0.1764

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06148859 0.32247442

sample estimates:

cor

0.13558

> cor.test(test$LowDev500m, test$LowDev30km) #r is 0.066

Pearson's product-moment correlation

data: test$LowDev500m and test$LowDev30km

t = 0.58273, df = 99, p-value = 0.5614

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1385557 0.2510376

sample estimates:

cor

0.05846685

> cor.test(test$LowDev500m, test$OpenDev500m) #r is 0.533

Pearson's product-moment correlation

data: test$LowDev500m and test$OpenDev500m

t = 6.2206, df = 99, p-value = 1.19e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3733597 0.6574414

sample estimates:

cor

0.5301168

> cor.test(test$LowDev500m, test$OpenDev1km) #r is 0.466

Pearson's product-moment correlation

data: test$LowDev500m and test$OpenDev1km

t = 5.2201, df = 99, p-value = 9.877e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2960223 0.6050825

sample estimates:

cor

0.4645834

> cor.test(test$LowDev500m, test$OpenDev5km) #r is -0.034

Pearson's product-moment correlation

data: test$LowDev500m and test$OpenDev5km

t = -0.4489, df = 99, p-value = 0.6545

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2384092 0.1517056

sample estimates:

cor

-0.04506996

> cor.test(test$LowDev500m, test$OpenDev30km) #r is 0.083

Pearson's product-moment correlation

data: test$LowDev500m and test$OpenDev30km

t = 0.69479, df = 99, p-value = 0.4888

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.127516 0.261538

sample estimates:

cor

0.06965933

> cor.test(test$LowDev500m, test$Grass500m) #r is -0.141

Pearson's product-moment correlation

data: test$LowDev500m and test$Grass500m

t = -1.5771, df = 99, p-value = 0.118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34154034 0.04011574

sample estimates:

cor

-0.1565509

> cor.test(test$LowDev500m, test$Grass1km) #r is -0.042

Pearson's product-moment correlation

data: test$LowDev500m and test$Grass1km

t = -0.59231, df = 99, p-value = 0.555

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2519375 0.1376133

sample estimates:

cor

-0.05942417

> cor.test(test$LowDev500m, test$Grass5km) #r is -0.071

Pearson's product-moment correlation

data: test$LowDev500m and test$Grass5km

t = -0.98873, df = 99, p-value = 0.3252

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.28874344 0.09845765

sample estimates:

cor

-0.0988844

> cor.test(test$LowDev500m, test$Grass30km) #r is 0.050

Pearson's product-moment correlation

data: test$LowDev500m and test$Grass30km

t = 0.14384, df = 99, p-value = 0.8859

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1814966 0.2093034

sample estimates:

cor

0.01445545

> cor.test(test$LowDev500m, test$Schrubs500m) #r is -0.142

Pearson's product-moment correlation

data: test$LowDev500m and test$Schrubs500m

t = -1.448, df = 99, p-value = 0.1508

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33016143 0.05291363

sample estimates:

cor

-0.1440149

> cor.test(test$LowDev500m, test$Schrubs1km) #r is -0.121

Pearson's product-moment correlation

data: test$LowDev500m and test$Schrubs1km

t = -1.2652, df = 99, p-value = 0.2088

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31384278 0.07105023

sample estimates:

cor

-0.1261406

> cor.test(test$LowDev500m, test$Schrubs5km) #r is -0.236

Pearson's product-moment correlation

data: test$LowDev500m and test$Schrubs5km

t = -2.4062, df = 99, p-value = 0.01797

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41159143 -0.04152931

sample estimates:

cor

-0.2350607

> cor.test(test$LowDev500m, test$Schrubs30km) #r is -0.226

Pearson's product-moment correlation

data: test$LowDev500m and test$Schrubs30km

t = -2.1986, df = 99, p-value = 0.03023

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39456631 -0.02122115

sample estimates:

cor

-0.2157655

> cor.test(test$LowDev500m, test$Water500m) #r is -0.031

Pearson's product-moment correlation

data: test$LowDev500m and test$Water500m

t = -0.4215, df = 99, p-value = 0.6743

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.235813 0.154392

sample estimates:

cor

-0.04232437

> cor.test(test$LowDev500m, test$Water1km) #r is 0.156

Pearson's product-moment correlation

data: test$LowDev500m and test$Water1km

t = 1.486, df = 99, p-value = 0.1405

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0491494 0.3335199

sample estimates:

cor

0.1477087

> cor.test(test$LowDev500m, test$Water5km) #r is -0.115

Pearson's product-moment correlation

data: test$LowDev500m and test$Water5km

t = -1.1993, df = 99, p-value = 0.2333

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30790302 0.07758911

sample estimates:

cor

-0.1196647

> cor.test(test$LowDev500m, test$Water30km) #r is -0.132

Pearson's product-moment correlation

data: test$LowDev500m and test$Water30km

t = -1.2238, df = 99, p-value = 0.2239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31012057 0.07515176

sample estimates:

cor

-0.1220806

> cor.test(test$LowDev500m, test$NSoilTypes) #r is -0.090

Pearson's product-moment correlation

data: test$LowDev500m and test$NSoilTypes

t = -0.96137, df = 99, p-value = 0.3387

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2862326 0.1011674

sample estimates:

cor

-0.0961734

> cor.test(test$LowDev500m, test$FPSiteIndex) # r is -0.113

Pearson's product-moment correlation

data: test$LowDev500m and test$FPSiteIndex

t = -1.0817, df = 91, p-value = 0.2823

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30927801 0.09317875

sample estimates:

cor

-0.1126681

> cor.test(test$LowDev500m, test$SiteIndexPrimaryS) # r is -0.122

Pearson's product-moment correlation

data: test$LowDev500m and test$SiteIndexPrimaryS

t = -1.2237, df = 91, p-value = 0.2242

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3225788 0.0785120

sample estimates:

cor

-0.1272312

> cor.test(test$LowDev500m, test$PISoils) # r is -0.162

Pearson's product-moment correlation

data: test$LowDev500m and test$PISoils

t = -1.6914, df = 99, p-value = 0.0939

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35151580 0.02879235

sample estimates:

cor

-0.16759

> cor.test(test$LowDev500m, test$SISoils) # r is -0.177

Pearson's product-moment correlation

data: test$LowDev500m and test$SISoils

t = -1.7072, df = 99, p-value = 0.09093

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35288106 0.02723499

sample estimates:

cor

-0.1691044

> cor.test(test$LowDev500m, test$HydricSoils) # r is -0.079

Pearson's product-moment correlation

data: test$LowDev500m and test$HydricSoils

t = -0.91293, df = 99, p-value = 0.3635

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2817768 0.1059622

sample estimates:

cor

-0.09136922

>

> #LowDev1km by each

> #cor.test(test$LowDev1km, test$Treatment) #non-numeric

> #cor.test(test$LowDev1km, test$LowDev1km)

> cor.test(test$LowDev1km, test$LowDev5km) #r is 0.372

Pearson's product-moment correlation

data: test$LowDev1km and test$LowDev5km

t = 3.8183, df = 99, p-value = 0.0002343

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1751040 0.5174857

sample estimates:

cor

0.3582821

> cor.test(test$LowDev1km, test$LowDev30km) #r is 0.358

Pearson's product-moment correlation

data: test$LowDev1km and test$LowDev30km

t = 3.7458, df = 99, p-value = 0.0003022

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1684938 0.5124809

sample estimates:

cor

0.3523307

> cor.test(test$LowDev1km, test$OpenDev500m) #r is 0.525

Pearson's product-moment correlation

data: test$LowDev1km and test$OpenDev500m

t = 6.0666, df = 99, p-value = 2.401e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3619719 0.6499001

sample estimates:

cor

0.5205832

> cor.test(test$LowDev1km, test$OpenDev1km) #r is 0.633

Pearson's product-moment correlation

data: test$LowDev1km and test$OpenDev1km

t = 8.017, df = 99, p-value = 2.207e-12

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4923491 0.7329762

sample estimates:

cor

0.6274157

> cor.test(test$LowDev1km, test$OpenDev5km) #r is 0.243

Pearson's product-moment correlation

data: test$LowDev1km and test$OpenDev5km

t = 2.2608, df = 99, p-value = 0.02596

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02731126 0.39969894

sample estimates:

cor

0.2215679

> cor.test(test$LowDev1km, test$OpenDev30km) #r is 0.455

Pearson's product-moment correlation

data: test$LowDev1km and test$OpenDev30km

t = 4.9475, df = 99, p-value = 3.082e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2736055 0.5893891

sample estimates:

cor

0.4452365

> cor.test(test$LowDev1km, test$Grass500m) #r is 0.016

Pearson's product-moment correlation

data: test$LowDev1km and test$Grass500m

t = -0.15354, df = 99, p-value = 0.8783

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2102345 0.1805545

sample estimates:

cor

-0.01542923

> cor.test(test$LowDev1km, test$Grass1km) #r is 0.026

Pearson's product-moment correlation

data: test$LowDev1km and test$Grass1km

t = -0.14577, df = 99, p-value = 0.8844

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2094881 0.1813098

sample estimates:

cor

-0.01464856

> cor.test(test$LowDev1km, test$Grass5km) #r is -0.055

Pearson's product-moment correlation

data: test$LowDev1km and test$Grass5km

t = -0.73583, df = 99, p-value = 0.4636

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2653668 0.1234664

sample estimates:

cor

-0.07375257

> cor.test(test$LowDev1km, test$Grass30km) #r is 0.114

Pearson's product-moment correlation

data: test$LowDev1km and test$Grass30km

t = 0.93944, df = 99, p-value = 0.3498

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1033386 0.2842170

sample estimates:

cor

0.09399914

> cor.test(test$LowDev1km, test$Schrubs500m) #r is 0.043

Pearson's product-moment correlation

data: test$LowDev1km and test$Schrubs500m

t = 0.32744, df = 99, p-value = 0.744

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1636000 0.2268718

sample estimates:

cor

0.0328909

> cor.test(test$LowDev1km, test$Schrubs1km) #r is -0.049

Pearson's product-moment correlation

data: test$LowDev1km and test$Schrubs1km

t = -0.67229, df = 99, p-value = 0.503

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2594347 0.1297350

sample estimates:

cor

-0.06741356

> cor.test(test$LowDev1km, test$Schrubs5km) #r is -0.355

Pearson's product-moment correlation

data: test$LowDev1km and test$Schrubs5km

t = -3.8452, df = 99, p-value = 0.0002131

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5193282 -0.1775453

sample estimates:

cor

-0.3604763

> cor.test(test$LowDev1km, test$Schrubs30km) #r is -0.472

Pearson's product-moment correlation

data: test$LowDev1km and test$Schrubs30km

t = -4.5465, df = 99, p-value = 1.546e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5651406 -0.2396300

sample estimates:

cor

-0.4156052

> cor.test(test$LowDev1km, test$Water500m) #r is -0.071

Pearson's product-moment correlation

data: test$LowDev1km and test$Water500m

t = -0.7781, df = 99, p-value = 0.4384

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2692998 0.1192931

sample estimates:

cor

-0.07796391

> cor.test(test$LowDev1km, test$Water1km) #r is 0.093

Pearson's product-moment correlation

data: test$LowDev1km and test$Water1km

t = 0.78399, df = 99, p-value = 0.4349

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1187108 0.2698475

sample estimates:

cor

0.07855087

> cor.test(test$LowDev1km, test$Water5km) #r is 0.254

Pearson's product-moment correlation

data: test$LowDev1km and test$Water5km

t = 0.14065, df = 99, p-value = 0.8884

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1818066 0.2089968

sample estimates:

cor

0.01413486

> cor.test(test$LowDev1km, test$Water30km) #r is -0.173

Pearson's product-moment correlation

data: test$LowDev1km and test$Water30km

t = -1.522, df = 99, p-value = 0.1312

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33669433 0.04558141

sample estimates:

cor

-0.1512048

> cor.test(test$LowDev1km, test$NSoilTypes) #r is -0.276

Pearson's product-moment correlation

data: test$LowDev1km and test$NSoilTypes

t = -3.113, df = 99, p-value = 0.002422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4667918 -0.1095466

sample estimates:

cor

-0.298593

> cor.test(test$LowDev1km, test$FPSiteIndex) # r is -0.255

Pearson's product-moment correlation

data: test$LowDev1km and test$FPSiteIndex

t = -2.2299, df = 91, p-value = 0.02821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4122190 -0.0250796

sample estimates:

cor

-0.227625

> cor.test(test$LowDev1km, test$SiteIndexPrimaryS) # r is -0.236

Pearson's product-moment correlation

data: test$LowDev1km and test$SiteIndexPrimaryS

t = -2.0352, df = 91, p-value = 0.04474

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.395546124 -0.005161135

sample estimates:

cor

-0.20865

> cor.test(test$LowDev1km, test$PISoils) # r is 0.051

Pearson's product-moment correlation

data: test$LowDev1km and test$PISoils

t = 0.42863, df = 99, p-value = 0.6691

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1536935 0.2364886

sample estimates:

cor

0.04303856

> cor.test(test$LowDev1km, test$SISoils) # r is -0.247

Pearson's product-moment correlation

data: test$LowDev1km and test$SISoils

t = -2.4881, df = 99, p-value = 0.01451

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41820350 -0.04949973

sample estimates:

cor

-0.2425921

> cor.test(test$LowDev1km, test$HydricSoils) # r is -0.151

Pearson's product-moment correlation

data: test$LowDev1km and test$HydricSoils

t = -1.2548, df = 99, p-value = 0.2125

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31291265 0.07207636

sample estimates:

cor

-0.1251255

> #LowDev5km by each

> #cor.test(test$LowDev5km, test$Treatment) #non-numeric

> #cor.test(test$LowDev5km, test$LowDev5km)

> cor.test(test$LowDev5km, test$LowDev30km) #r is 0.281

Pearson's product-moment correlation

data: test$LowDev5km and test$LowDev30km

t = 2.6946, df = 99, p-value = 0.008281

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06951107 0.43463400

sample estimates:

cor

0.2613992

> cor.test(test$LowDev5km, test$OpenDev500m) #r is 0.227

Pearson's product-moment correlation

data: test$LowDev5km and test$OpenDev500m

t = 2.2191, df = 99, p-value = 0.02876

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02322908 0.39626113

sample estimates:

cor

0.2176801

> cor.test(test$LowDev5km, test$OpenDev1km) #r is 0.401

Pearson's product-moment correlation

data: test$LowDev5km and test$OpenDev1km

t = 4.1513, df = 99, p-value = 7.007e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2050469 0.5398670

sample estimates:

cor

0.3850554

> cor.test(test$LowDev5km, test$OpenDev5km) #r is 0.784

Pearson's product-moment correlation

data: test$LowDev5km and test$OpenDev5km

t = 12.392, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6893801 0.8462370

sample estimates:

cor

0.7797607

> cor.test(test$LowDev5km, test$OpenDev30km) #r is 0.448

Pearson's product-moment correlation

data: test$LowDev5km and test$OpenDev30km

t = 4.656, df = 99, p-value = 1.003e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2490269 0.5719039

sample estimates:

cor

0.4238381

> cor.test(test$LowDev5km, test$Grass500m) #r is 0.173

Pearson's product-moment correlation

data: test$LowDev5km and test$Grass500m

t = 1.5264, df = 99, p-value = 0.1301

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04514335 0.33708348

sample estimates:

cor

0.1516337

> cor.test(test$LowDev5km, test$Grass1km) #r is 0.217

Pearson's product-moment correlation

data: test$LowDev5km and test$Grass1km

t = 1.9172, df = 99, p-value = 0.0581

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.006476912 0.370925237

sample estimates:

cor

0.1892019

> cor.test(test$LowDev5km, test$Grass5km) #r is 0.280

Pearson's product-moment correlation

data: test$LowDev5km and test$Grass5km

t = 2.174, df = 99, p-value = 0.03209

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01880443 0.39252307

sample estimates:

cor

0.2134592

> cor.test(test$LowDev5km, test$Grass30km) #r is 0.359

Pearson's product-moment correlation

data: test$LowDev5km and test$Grass30km

t = 2.3256, df = 99, p-value = 0.02208

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03365142 0.40501761

sample estimates:

cor

0.2275938

> cor.test(test$LowDev5km, test$Schrubs500m) #r is 0.154

Pearson's product-moment correlation

data: test$LowDev5km and test$Schrubs500m

t = 1.504, df = 99, p-value = 0.1358

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04736386 0.33510958

sample estimates:

cor

0.1494589

> cor.test(test$LowDev5km, test$Schrubs1km) #r is 0.076

Pearson's product-moment correlation

data: test$LowDev5km and test$Schrubs1km

t = 0.64014, df = 99, p-value = 0.5236

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1329030 0.2564256

sample estimates:

cor

0.06420392

> cor.test(test$LowDev5km, test$Schrubs5km) #r is -0.317

Pearson's product-moment correlation

data: test$LowDev5km and test$Schrubs5km

t = -3.3521, df = 99, p-value = 0.001137

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4844734 -0.1320648

sample estimates:

cor

-0.3192636

> cor.test(test$LowDev5km, test$Schrubs30km) #r is -0.525

Pearson's product-moment correlation

data: test$LowDev5km and test$Schrubs30km

t = -5.5163, df = 99, p-value = 2.772e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6214243 -0.3197329

sample estimates:

cor

-0.4848733

> cor.test(test$LowDev5km, test$Water500m) #r is -0.150

Pearson's product-moment correlation

data: test$LowDev5km and test$Water500m

t = -1.6039, df = 99, p-value = 0.1119

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34388664 0.03746119

sample estimates:

cor

-0.1591432

> cor.test(test$LowDev5km, test$Water1km) #r is 0.065

Pearson's product-moment correlation

data: test$LowDev5km and test$Water1km

t = 0.5377, df = 99, p-value = 0.592

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1429852 0.2467984

sample estimates:

cor

0.05396198

> cor.test(test$LowDev5km, test$Water5km) #r is 0.092

Pearson's product-moment correlation

data: test$LowDev5km and test$Water5km

t = 0.83792, df = 99, p-value = 0.4041

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1133817 0.2748487

sample estimates:

cor

0.08391711

> cor.test(test$LowDev5km, test$Water30km) #r is -0.346

Pearson's product-moment correlation

data: test$LowDev5km and test$Water30km

t = -3.4574, df = 99, p-value = 0.0008053

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4921025 -0.1418944

sample estimates:

cor

-0.3282313

> cor.test(test$LowDev5km, test$NSoilTypes) #r is -0.173

Pearson's product-moment correlation

data: test$LowDev5km and test$NSoilTypes

t = -1.7816, df = 99, p-value = 0.07788

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35931852 0.01986673

sample estimates:

cor

-0.1762569

> cor.test(test$LowDev5km, test$FPSiteIndex) # r is -0.136

Pearson's product-moment correlation

data: test$LowDev5km and test$FPSiteIndex

t = -1.1456, df = 91, p-value = 0.255

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31528619 0.08657511

sample estimates:

cor

-0.119236

> cor.test(test$LowDev5km, test$SiteIndexPrimaryS) # r is -0.083

Pearson's product-moment correlation

data: test$LowDev5km and test$SiteIndexPrimaryS

t = -0.76745, df = 91, p-value = 0.4448

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2793363 0.1255684

sample estimates:

cor

-0.08019114

> cor.test(test$LowDev5km, test$PISoils) # r is -0.023

Pearson's product-moment correlation

data: test$LowDev5km and test$PISoils

t = -0.21431, df = 99, p-value = 0.8307

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2160640 0.1746402

sample estimates:

cor

-0.02153405

> cor.test(test$LowDev5km, test$SISoils) # r is 0.205

Pearson's product-moment correlation

data: test$LowDev5km and test$SISoils

t = 2.3698, df = 99, p-value = 0.01974

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03797297 0.40862855

sample estimates:

cor

0.2316928

> cor.test(test$LowDev5km, test$HydricSoils) # r is -0.077

Pearson's product-moment correlation

data: test$LowDev5km and test$HydricSoils

t = -0.7795, df = 99, p-value = 0.4375

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2694304 0.1191543

sample estimates:

cor

-0.07810384

>

> #LowDev30km by each

> #cor.test(test$LowDev30km, test$Treatment) #non-numeric

> #cor.test(test$LowDev30km, test$LowDev30km)

> cor.test(test$LowDev30km, test$OpenDev500m) #r is -0.019

Pearson's product-moment correlation

data: test$LowDev30km and test$OpenDev500m

t = -0.28296, df = 99, p-value = 0.7778

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2226297 0.1679450

sample estimates:

cor

-0.02842733

> cor.test(test$LowDev30km, test$OpenDev1km) #r is 0.131

Pearson's product-moment correlation

data: test$LowDev30km and test$OpenDev1km

t = 1.1397, df = 99, p-value = 0.2572

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08349966 0.30250805

sample estimates:

cor

0.1137967

> cor.test(test$LowDev30km, test$OpenDev5km) #r is 0.179

Pearson's product-moment correlation

data: test$LowDev30km and test$OpenDev5km

t = 1.4769, df = 99, p-value = 0.1429

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05005359 0.33271406

sample estimates:

cor

0.146822

> cor.test(test$LowDev30km, test$OpenDev30km) #r is 0.683

Pearson's product-moment correlation

data: test$LowDev30km and test$OpenDev30km

t = 9.2468, df = 99, p-value = 4.808e-15

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.5597910 0.7733066

sample estimates:

cor

0.6807525

> cor.test(test$LowDev30km, test$Grass500m) #r is 0.215

Pearson's product-moment correlation

data: test$LowDev30km and test$Grass500m

t = 1.8157, df = 99, p-value = 0.07244

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.01649326 0.36225385

sample estimates:

cor

0.1795247

> cor.test(test$LowDev30km, test$Grass1km) #r is 0.337

Pearson's product-moment correlation

data: test$LowDev30km and test$Grass1km

t = 3.0822, df = 99, p-value = 0.002661

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1066315 0.4644818

sample estimates:

cor

0.2959041

> cor.test(test$LowDev30km, test$Grass5km) #r is 0.168

Pearson's product-moment correlation

data: test$LowDev30km and test$Grass5km

t = 1.4647, df = 99, p-value = 0.1462

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05125598 0.33164159

sample estimates:

cor

0.1456422

> cor.test(test$LowDev30km, test$Grass30km) #r is 0.201

Pearson's product-moment correlation

data: test$LowDev30km and test$Grass30km

t = 1.9132, df = 99, p-value = 0.05861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.006865473 0.370590074

sample estimates:

cor

0.1888272

> cor.test(test$LowDev30km, test$Schrubs500m) #r is 0.051

Pearson's product-moment correlation

data: test$LowDev30km and test$Schrubs500m

t = 0.33389, df = 99, p-value = 0.7392

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1629691 0.2274865

sample estimates:

cor

0.03353839

> cor.test(test$LowDev30km, test$Schrubs1km) #r is -0.116

Pearson's product-moment correlation

data: test$LowDev30km and test$Schrubs1km

t = -1.4619, df = 99, p-value = 0.1469

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33138806 0.05154007

sample estimates:

cor

-0.1453634

> cor.test(test$LowDev30km, test$Schrubs5km) #r is -0.483

Pearson's product-moment correlation

data: test$LowDev30km and test$Schrubs5km

t = -5.5766, df = 99, p-value = 2.131e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6246639 -0.3244786

sample estimates:

cor

-0.488913

> cor.test(test$LowDev30km, test$Schrubs30km) #r is -0.478

Pearson's product-moment correlation

data: test$LowDev30km and test$Schrubs30km

t = -4.1954, df = 99, p-value = 5.945e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5427556 -0.2089577

sample estimates:

cor

-0.3885299

> cor.test(test$LowDev30km, test$Water500m) #r is 0.096

Pearson's product-moment correlation

data: test$LowDev30km and test$Water500m

t = 0.94289, df = 99, p-value = 0.348

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1029975 0.2845339

sample estimates:

cor

0.09434087

> cor.test(test$LowDev30km, test$Water1km) #r is -0.057

Pearson's product-moment correlation

data: test$LowDev30km and test$Water1km

t = -0.72674, df = 99, p-value = 0.4691

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2645193 0.1243638

sample estimates:

cor

-0.07284598

> cor.test(test$LowDev30km, test$Water5km) #r is -0.067

Pearson's product-moment correlation

data: test$LowDev30km and test$Water5km

t = -0.82364, df = 99, p-value = 0.4121

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2735257 0.1147936

sample estimates:

cor

-0.08249649

> cor.test(test$LowDev30km, test$Water30km) #r is -0.020

Pearson's product-moment correlation

data: test$LowDev30km and test$Water30km

t = 0.23418, df = 99, p-value = 0.8153

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1727035 0.2179668

sample estimates:

cor

0.02352993

> cor.test(test$LowDev30km, test$NSoilTypes) #r is -0.135

Pearson's product-moment correlation

data: test$LowDev30km and test$NSoilTypes

t = -1.5418, df = 99, p-value = 0.1263

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33844317 0.04361158

sample estimates:

cor

-0.1531329

> cor.test(test$LowDev30km, test$FPSiteIndex) # r is -0.008

Pearson's product-moment correlation

data: test$LowDev30km and test$FPSiteIndex

t = 0.30178, df = 91, p-value = 0.7635

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1732050 0.2338211

sample estimates:

cor

0.03161891

> cor.test(test$LowDev30km, test$SiteIndexPrimaryS) # r is 0.030

Pearson's product-moment correlation

data: test$LowDev30km and test$SiteIndexPrimaryS

t = 0.5521, df = 91, p-value = 0.5822

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1476668 0.2584458

sample estimates:

cor

0.05777949

> cor.test(test$LowDev30km, test$PISoils) # r is -0.116

Pearson's product-moment correlation

data: test$LowDev30km and test$PISoils

t = -1.1909, df = 99, p-value = 0.2365

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30714924 0.07841656

sample estimates:

cor

-0.1188441

> cor.test(test$LowDev30km, test$SISoils) # r is -0.001

Pearson's product-moment correlation

data: test$LowDev30km and test$SISoils

t = -0.059659, df = 99, p-value = 0.9525

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2011993 0.1896657

sample estimates:

cor

-0.005995811

> cor.test(test$LowDev30km, test$HydricSoils) # r is -0.059

Pearson's product-moment correlation

data: test$LowDev30km and test$HydricSoils

t = -0.2302, df = 99, p-value = 0.8184

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2175853 0.1730921

sample estimates:

cor

-0.02312961

> #OpenDev500m by each

> #cor.test(test$OpenDev500m, test$Treatment) #non-numeric

> #cor.test(test$OpenDev500m, test$OpenDev500m)

> cor.test(test$OpenDev500m, test$OpenDev1km) #r is 0.853 #high

Pearson's product-moment correlation

data: test$OpenDev500m and test$OpenDev1km

t = 16.346, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.7907730 0.8994751

sample estimates:

cor

0.8541976

> cor.test(test$OpenDev500m, test$OpenDev5km) #r is 0.197

Pearson's product-moment correlation

data: test$OpenDev500m and test$OpenDev5km

t = 1.8372, df = 99, p-value = 0.06918

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0143725 0.3640953

sample estimates:

cor

0.1815768

> cor.test(test$OpenDev500m, test$OpenDev30km) #r is 0.129

Pearson's product-moment correlation

data: test$OpenDev500m and test$OpenDev30km

t = 1.1147, df = 99, p-value = 0.2677

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08597627 0.30024010

sample estimates:

cor

0.1113338

> cor.test(test$OpenDev500m, test$Grass500m) #r is -0.116

Pearson's product-moment correlation

data: test$OpenDev500m and test$Grass500m

t = -1.4424, df = 99, p-value = 0.1523

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32966378 0.05347048

sample estimates:

cor

-0.1434681

> cor.test(test$OpenDev500m, test$Grass1km) #r is -0.079

Pearson's product-moment correlation

data: test$OpenDev500m and test$Grass1km

t = -1.1581, df = 99, p-value = 0.2496

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30417657 0.08167458

sample estimates:

cor

-0.1156101

> cor.test(test$OpenDev500m, test$Grass5km) #r is -0.116

Pearson's product-moment correlation

data: test$OpenDev500m and test$Grass5km

t = -1.243, df = 99, p-value = 0.2168

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31184322 0.07325517

sample estimates:

cor

-0.1239588

> cor.test(test$OpenDev500m, test$Grass30km) #r is 0.163

Pearson's product-moment correlation

data: test$OpenDev500m and test$Grass30km

t = 1.2007, df = 99, p-value = 0.2327

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07744728 0.30803217

sample estimates:

cor

0.1198054

> cor.test(test$OpenDev500m, test$Schrubs500m) #r is -0.170

Pearson's product-moment correlation

data: test$OpenDev500m and test$Schrubs500m

t = -1.7816, df = 99, p-value = 0.07788

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35931634 0.01986924

sample estimates:

cor

-0.1762545

> cor.test(test$OpenDev500m, test$Schrubs1km) #r is -0.166

Pearson's product-moment correlation

data: test$OpenDev500m and test$Schrubs1km

t = -1.8067, df = 99, p-value = 0.07384

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3614790 0.0173846

sample estimates:

cor

-0.1786617

> cor.test(test$OpenDev500m, test$Schrubs5km) #r is -0.243

Pearson's product-moment correlation

data: test$OpenDev500m and test$Schrubs5km

t = -2.6083, df = 99, p-value = 0.01051

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42780983 -0.06116381

sample estimates:

cor

-0.2535719

> cor.test(test$OpenDev500m, test$Schrubs30km) #r is -0.407

Pearson's product-moment correlation

data: test$OpenDev500m and test$Schrubs30km

t = -3.9725, df = 99, p-value = 0.0001351

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5279678 -0.1890491

sample estimates:

cor

-0.3707887

> cor.test(test$OpenDev500m, test$Water500m) #r is -0.176

Pearson's product-moment correlation

data: test$OpenDev500m and test$Water500m

t = -1.8197, df = 99, p-value = 0.07183

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3625933 0.0161026

sample estimates:

cor

-0.1799028

> cor.test(test$OpenDev500m, test$Water1km) #r is -0.035

Pearson's product-moment correlation

data: test$OpenDev500m and test$Water1km

t = -0.45979, df = 99, p-value = 0.6467

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2394405 0.1506369

sample estimates:

cor

-0.04616137

> cor.test(test$OpenDev500m, test$Water5km) #r is 0.084

Pearson's product-moment correlation

data: test$OpenDev500m and test$Water5km

t = 0.76799, df = 99, p-value = 0.4443

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1202915 0.2683600

sample estimates:

cor

0.07695697

> cor.test(test$OpenDev500m, test$Water30km) #r is -0.002

Pearson's product-moment correlation

data: test$OpenDev500m and test$Water30km

t = 0.14871, df = 99, p-value = 0.8821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1810233 0.2097713

sample estimates:

cor

0.01494472

> cor.test(test$OpenDev500m, test$NSoilTypes) #r is -0.156

Pearson's product-moment correlation

data: test$OpenDev500m and test$NSoilTypes

t = -1.6852, df = 99, p-value = 0.09509

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35097835 0.02940492

sample estimates:

cor

-0.166994

> cor.test(test$OpenDev500m, test$FPSiteIndex) # r is -0.241

Pearson's product-moment correlation

data: test$OpenDev500m and test$FPSiteIndex

t = -2.1122, df = 91, p-value = 0.03741

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40217575 -0.01304437

sample estimates:

cor

-0.2161782

> cor.test(test$OpenDev500m, test$SiteIndexPrimaryS) # r is -0.209

Pearson's product-moment correlation

data: test$OpenDev500m and test$SiteIndexPrimaryS

t = -1.857, df = 91, p-value = 0.06654

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.37999940 0.01313699

sample estimates:

cor

-0.1910826

> cor.test(test$OpenDev500m, test$PISoils) # r is -0.023

Pearson's product-moment correlation

data: test$OpenDev500m and test$PISoils

t = -0.27458, df = 99, p-value = 0.7842

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2218296 0.1687628

sample estimates:

cor

-0.02758629

> cor.test(test$OpenDev500m, test$SISoils) # r is -0.045

Pearson's product-moment correlation

data: test$OpenDev500m and test$SISoils

t = -0.37293, df = 99, p-value = 0.71

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2312013 0.1591498

sample estimates:

cor

-0.03745446

> cor.test(test$OpenDev500m, test$HydricSoils) # r is -0.022

Pearson's product-moment correlation

data: test$OpenDev500m and test$HydricSoils

t = -0.18563, df = 99, p-value = 0.8531

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2133150 0.1774327

sample estimates:

cor

-0.01865337

>

> #OpenDev1km by each

> #cor.test(test$OpenDev1km, test$Treatment) #non-numeric

> #cor.test(test$OpenDev1km, test$OpenDev1km)

> cor.test(test$OpenDev1km, test$OpenDev5km) #r is 0.498

Pearson's product-moment correlation

data: test$OpenDev1km and test$OpenDev5km

t = 5.3971, df = 99, p-value = 4.641e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3102724 0.6149353

sample estimates:

cor

0.4767989

> cor.test(test$OpenDev1km, test$OpenDev30km) #r is 0.338

Pearson's product-moment correlation

data: test$OpenDev1km and test$OpenDev30km

t = 3.2444, df = 99, p-value = 0.001606

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1219570 0.4765721

sample estimates:

cor

0.3100072

> cor.test(test$OpenDev1km, test$Grass500m) #r is 0.095

Pearson's product-moment correlation

data: test$OpenDev1km and test$Grass500m

t = 0.52961, df = 99, p-value = 0.5976

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1437806 0.2460356

sample estimates:

cor

0.05315221

> cor.test(test$OpenDev1km, test$Grass1km) #r is 0.121

Pearson's product-moment correlation

data: test$OpenDev1km and test$Grass1km

t = 0.67085, df = 99, p-value = 0.5039

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1298762 0.2593008

sample estimates:

cor

0.06727062

> cor.test(test$OpenDev1km, test$Grass5km) #r is 0.032

Pearson's product-moment correlation

data: test$OpenDev1km and test$Grass5km

t = -0.20468, df = 99, p-value = 0.8382

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2151417 0.1755778

sample estimates:

cor

-0.02056726

> cor.test(test$OpenDev1km, test$Grass30km) #r is 0.178

Pearson's product-moment correlation

data: test$OpenDev1km and test$Grass30km

t = 1.1342, df = 99, p-value = 0.2594

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08403703 0.30201632

sample estimates:

cor

0.1132625

> cor.test(test$OpenDev1km, test$Schrubs500m) #r is 0.015

Pearson's product-moment correlation

data: test$OpenDev1km and test$Schrubs500m

t = 0.039664, df = 99, p-value = 0.9684

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1916022 0.1992704

sample estimates:

cor

0.003986344

> cor.test(test$OpenDev1km, test$Schrubs1km) #r is 0.020

Pearson's product-moment correlation

data: test$OpenDev1km and test$Schrubs1km

t = -0.022344, df = 99, p-value = 0.9822

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1975982 0.1932784

sample estimates:

cor

-0.002245644

> cor.test(test$OpenDev1km, test$Schrubs5km) #r is -0.190

Pearson's product-moment correlation

data: test$OpenDev1km and test$Schrubs5km

t = -2.0165, df = 99, p-value = 0.04646

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.379341491 -0.003317695

sample estimates:

cor

-0.1986282

> cor.test(test$OpenDev1km, test$Schrubs30km) #r is -0.477

Pearson's product-moment correlation

data: test$OpenDev1km and test$Schrubs30km

t = -4.6848, df = 99, p-value = 8.941e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5736643 -0.2514828

sample estimates:

cor

-0.425985

> cor.test(test$OpenDev1km, test$Water500m) #r is -0.150

Pearson's product-moment correlation

data: test$OpenDev1km and test$Water500m

t = -1.6803, df = 99, p-value = 0.09605

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35055199 0.02989067

sample estimates:

cor

-0.1665214

> cor.test(test$OpenDev1km, test$Water1km) #r is 0.018

Pearson's product-moment correlation

data: test$OpenDev1km and test$Water1km

t = -0.042488, df = 99, p-value = 0.9662

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1995429 0.1913288

sample estimates:

cor

-0.004270164

> cor.test(test$OpenDev1km, test$Water5km) #r is 0.284

Pearson's product-moment correlation

data: test$OpenDev1km and test$Water5km

t = 2.8306, df = 99, p-value = 0.005627

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0826087 0.4452579

sample estimates:

cor

0.2736302

> cor.test(test$OpenDev1km, test$Water30km) #r is -0.082

Pearson's product-moment correlation

data: test$OpenDev1km and test$Water30km

t = -0.43016, df = 99, p-value = 0.668

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2366341 0.1535430

sample estimates:

cor

-0.04319242

> cor.test(test$OpenDev1km, test$NSoilTypes) #r is -0.223

Pearson's product-moment correlation

data: test$OpenDev1km and test$NSoilTypes

t = -2.6053, df = 99, p-value = 0.01059

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42757456 -0.06087695

sample estimates:

cor

-0.2533025

> cor.test(test$OpenDev1km, test$FPSiteIndex) # r is -0.328

Pearson's product-moment correlation

data: test$OpenDev1km and test$FPSiteIndex

t = -3.0306, df = 91, p-value = 0.003177

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4770677 -0.1055894

sample estimates:

cor

-0.3027849

> cor.test(test$OpenDev1km, test$SiteIndexPrimaryS) # r is -0.288

Pearson's product-moment correlation

data: test$OpenDev1km and test$SiteIndexPrimaryS

t = -2.6477, df = 91, p-value = 0.009552

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44680993 -0.06740829

sample estimates:

cor

-0.2674441

> cor.test(test$OpenDev1km, test$PISoils) # r is 0.015

Pearson's product-moment correlation

data: test$OpenDev1km and test$PISoils

t = 0.024749, df = 99, p-value = 0.9803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1930457 0.1978305

sample estimates:

cor

0.002487386

> cor.test(test$OpenDev1km, test$SISoils) # r is -0.134

Pearson's product-moment correlation

data: test$OpenDev1km and test$SISoils

t = -1.1433, df = 99, p-value = 0.2557

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30284167 0.08313494

sample estimates:

cor

-0.1141592

> cor.test(test$OpenDev1km, test$HydricSoils) # r is 0.035

Pearson's product-moment correlation

data: test$OpenDev1km and test$HydricSoils

t = 0.089589, df = 99, p-value = 0.9288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1867643 0.2040838

sample estimates:

cor

0.009003649

> #OpenDev5km by each

> #cor.test(test$OpenDev5km, test$Treatment) #non-numeric

> #cor.test(test$OpenDev5km, test$OpenDev5km)

> cor.test(test$OpenDev5km, test$OpenDev30km) #r is 0.584

Pearson's product-moment correlation

data: test$OpenDev5km and test$OpenDev30km

t = 6.5272, df = 99, p-value = 2.884e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3954723 0.6719242

sample estimates:

cor

0.5485163

> cor.test(test$OpenDev5km, test$Grass500m) #r is 0.411

Pearson's product-moment correlation

data: test$OpenDev5km and test$Grass500m

t = 4.1847, df = 99, p-value = 6.188e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2080085 0.5420552

sample estimates:

cor

0.3876871

> cor.test(test$OpenDev5km, test$Grass1km) #r is 0.382

Pearson's product-moment correlation

data: test$OpenDev5km and test$Grass1km

t = 3.7054, df = 99, p-value = 0.0003479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1647884 0.5096652

sample estimates:

cor

0.3489881

> cor.test(test$OpenDev5km, test$Grass5km) #r is 0.274 less

Pearson's product-moment correlation

data: test$OpenDev5km and test$Grass5km

t = 1.649, df = 99, p-value = 0.1023

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03299712 0.34782162

sample estimates:

cor

0.1634965

> cor.test(test$OpenDev5km, test$Grass30km) #r is 0.215 less

Pearson's product-moment correlation

data: test$OpenDev5km and test$Grass30km

t = 0.70868, df = 99, p-value = 0.4802

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1261454 0.2628352

sample estimates:

cor

0.0710454

> cor.test(test$OpenDev5km, test$Schrubs500m) #r is 0.347

Pearson's product-moment correlation

data: test$OpenDev5km and test$Schrubs500m

t = 3.6635, df = 99, p-value = 0.0004018

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1609507 0.5067411

sample estimates:

cor

0.3455212

> cor.test(test$OpenDev5km, test$Schrubs1km) #r is 0.322

Pearson's product-moment correlation

data: test$OpenDev5km and test$Schrubs1km

t = 3.2688, df = 99, p-value = 0.001486

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1242550 0.4783735

sample estimates:

cor

0.3121148

> cor.test(test$OpenDev5km, test$Schrubs5km) #r is 0.040

Pearson's product-moment correlation

data: test$OpenDev5km and test$Schrubs5km

t = 0.43025, df = 99, p-value = 0.6679

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1535340 0.2366428

sample estimates:

cor

0.04320156

> cor.test(test$OpenDev5km, test$Schrubs30km) #r is -0.458

Pearson's product-moment correlation

data: test$OpenDev5km and test$Schrubs30km

t = -4.739, df = 99, p-value = 7.195e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5769593 -0.2560907

sample estimates:

cor

-0.430008

> cor.test(test$OpenDev5km, test$Water500m) #r is -0.163

Pearson's product-moment correlation

data: test$OpenDev5km and test$Water500m

t = -1.9054, df = 99, p-value = 0.05963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.369926333 0.007634622

sample estimates:

cor

-0.1880853

> cor.test(test$OpenDev5km, test$Water1km) #r is 0.104

Pearson's product-moment correlation

data: test$OpenDev5km and test$Water1km

t = 0.83359, df = 99, p-value = 0.4065

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1138093 0.2744481

sample estimates:

cor

0.08348694

> cor.test(test$OpenDev5km, test$Water5km) #r is 0.531

Pearson's product-moment correlation

data: test$OpenDev5km and test$Water5km

t = 6.1934, df = 99, p-value = 1.348e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3713647 0.6561244

sample estimates:

cor

0.5284495

> cor.test(test$OpenDev5km, test$Water30km) #r is -0.348

Pearson's product-moment correlation

data: test$OpenDev5km and test$Water30km

t = -3.2764, df = 99, p-value = 0.00145

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4789295 -0.1249651

sample estimates:

cor

-0.3127656

> cor.test(test$OpenDev5km, test$NSoilTypes) #r is -0.061

Pearson's product-moment correlation

data: test$OpenDev5km and test$NSoilTypes

t = -0.67547, df = 99, p-value = 0.5009

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2597329 0.1294206

sample estimates:

cor

-0.06773187

> cor.test(test$OpenDev5km, test$FPSiteIndex) # r is -0.450

Pearson's product-moment correlation

data: test$OpenDev5km and test$FPSiteIndex

t = -4.63, df = 91, p-value = 1.211e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5880456 -0.2556762

sample estimates:

cor

-0.4366427

> cor.test(test$OpenDev5km, test$SiteIndexPrimaryS) # r is -0.372

Pearson's product-moment correlation

data: test$OpenDev5km and test$SiteIndexPrimaryS

t = -3.8372, df = 91, p-value = 0.0002294

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5361398 -0.1834260

sample estimates:

cor

-0.3731899

> cor.test(test$OpenDev5km, test$PISoils) # r is 0.106

Pearson's product-moment correlation

data: test$OpenDev5km and test$PISoils

t = 1.0513, df = 99, p-value = 0.2957

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09225671 0.29446914

sample estimates:

cor

0.1050772

> cor.test(test$OpenDev5km, test$SISoils) # r is -0.003

Pearson's product-moment correlation

data: test$OpenDev5km and test$SISoils

t = 0.36925, df = 99, p-value = 0.7127

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1595100 0.2308514

sample estimates:

cor

0.03708538

> cor.test(test$OpenDev5km, test$HydricSoils) # r is 0.132

Pearson's product-moment correlation

data: test$OpenDev5km and test$HydricSoils

t = 0.57969, df = 99, p-value = 0.5634

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1388549 0.2507516

sample estimates:

cor

0.05816272

>

> #OpenDev30km by each

> #cor.test(test$OpenDev30km, test$Treatment) #non-numeric

> #cor.test(test$OpenDev30km, test$OpenDev30km)

> cor.test(test$OpenDev30km, test$Grass500m) #r is 0.260

Pearson's product-moment correlation

data: test$OpenDev30km and test$Grass500m

t = 2.0799, df = 99, p-value = 0.04012

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009560575 0.384673562

sample estimates:

cor

0.2046175

> cor.test(test$OpenDev30km, test$Grass1km) #r is 0.384

Pearson's product-moment correlation

data: test$OpenDev30km and test$Grass1km

t = 3.3485, df = 99, p-value = 0.00115

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1317340 0.4842157

sample estimates:

cor

0.3189613

> cor.test(test$OpenDev30km, test$Grass5km) #r is 0.276

Pearson's product-moment correlation

data: test$OpenDev30km and test$Grass5km

t = 2.4952, df = 99, p-value = 0.01424

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05018833 0.41877292

sample estimates:

cor

0.2432417

> cor.test(test$OpenDev30km, test$Grass30km) #r is 0.326

Pearson's product-moment correlation

data: test$OpenDev30km and test$Grass30km

t = 2.9983, df = 99, p-value = 0.003433

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09864868 0.45813087

sample estimates:

cor

0.2885252

> cor.test(test$OpenDev30km, test$Schrubs500m) #r is 0.184

Pearson's product-moment correlation

data: test$OpenDev30km and test$Schrubs500m

t = 1.6632, df = 99, p-value = 0.09944

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03158754 0.34906135

sample estimates:

cor

0.1648695

> cor.test(test$OpenDev30km, test$Schrubs1km) #r is 0.020

Pearson's product-moment correlation

data: test$OpenDev30km and test$Schrubs1km

t = -0.18756, df = 99, p-value = 0.8516

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2134998 0.1772452

sample estimates:

cor

-0.01884691

> cor.test(test$OpenDev30km, test$Schrubs5km) #r is -0.314

Pearson's product-moment correlation

data: test$OpenDev30km and test$Schrubs5km

t = -3.4895, df = 99, p-value = 0.0007239

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4944087 -0.1448794

sample estimates:

cor

-0.3309479

> cor.test(test$OpenDev30km, test$Schrubs30km) #r is -0.663

Pearson's product-moment correlation

data: test$OpenDev30km and test$Schrubs30km

t = -6.5935, df = 99, p-value = 2.116e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6749634 -0.4001536

sample estimates:

cor

-0.5523926

> cor.test(test$OpenDev30km, test$Water500m) #r is -0.151

Pearson's product-moment correlation

data: test$OpenDev30km and test$Water500m

t = -1.5615, df = 99, p-value = 0.1216

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34017088 0.04166264

sample estimates:

cor

-0.155039

> cor.test(test$OpenDev30km, test$Water1km) #r is -0.138

Pearson's product-moment correlation

data: test$OpenDev30km and test$Water1km

t = -1.6689, df = 99, p-value = 0.09831

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34955456 0.03102634

sample estimates:

cor

-0.165416

> cor.test(test$OpenDev30km, test$Water5km) #r is 0.188

Pearson's product-moment correlation

data: test$OpenDev30km and test$Water5km

t = 1.7087, df = 99, p-value = 0.09064

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02708428 0.35301309

sample estimates:

cor

0.1692509

> cor.test(test$OpenDev30km, test$Water30km) #r is -0.279

Pearson's product-moment correlation

data: test$OpenDev30km and test$Water30km

t = -2.4412, df = 99, p-value = 0.01641

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.41442573 -0.04494012

sample estimates:

cor

-0.2382865

> cor.test(test$OpenDev30km, test$NSoilTypes) #r is 0.020

Pearson's product-moment correlation

data: test$OpenDev30km and test$NSoilTypes

t = -0.13268, df = 99, p-value = 0.8947

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2082307 0.1825809

sample estimates:

cor

-0.01333413

> cor.test(test$OpenDev30km, test$FPSiteIndex) # r is -0.286

Pearson's product-moment correlation

data: test$OpenDev30km and test$FPSiteIndex

t = -2.1913, df = 91, p-value = 0.03098

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40894192 -0.02114016

sample estimates:

cor

-0.2238843

> cor.test(test$OpenDev30km, test$SiteIndexPrimaryS) # r is -0.195

Pearson's product-moment correlation

data: test$OpenDev30km and test$SiteIndexPrimaryS

t = -1.3335, df = 91, p-value = 0.1857

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33276287 0.06716347

sample estimates:

cor

-0.1384389

> cor.test(test$OpenDev30km, test$PISoils) # r is 0.134

Pearson's product-moment correlation

data: test$OpenDev30km and test$PISoils

t = 1.2776, df = 99, p-value = 0.2044

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06982238 0.31495477

sample estimates:

cor

0.1273548

> cor.test(test$OpenDev30km, test$SISoils) # r is -0.219

Pearson's product-moment correlation

data: test$OpenDev30km and test$SISoils

t = -2.1909, df = 99, p-value = 0.03081

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39392313 -0.02045993

sample estimates:

cor

-0.2150393

> cor.test(test$OpenDev30km, test$HydricSoils) # r is 0.108

Pearson's product-moment correlation

data: test$OpenDev30km and test$HydricSoils

t = 1.2108, df = 99, p-value = 0.2288

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07644111 0.30894801

sample estimates:

cor

0.1208029

--------------------------------------

> #Grass500m by each

> #cor.test(test$Grass500m, test$Treatment) #non-numeric

> #cor.test(test$Grass500m, test$Grass500m)

> cor.test(test$Grass500m, test$Grass1km) #r is 0.585

Pearson's product-moment correlation

data: test$Grass500m and test$Grass1km

t = 6.7265, df = 99, p-value = 1.133e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4094412 0.6809655

sample estimates:

cor

0.5600637

> cor.test(test$Grass500m, test$Grass5km) #r is 0.132

Pearson's product-moment correlation

data: test$Grass500m and test$Grass5km

t = 0.19254, df = 99, p-value = 0.8477

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1767599 0.2139779

sample estimates:

cor

0.01934771

> cor.test(test$Grass500m, test$Grass30km) #r is -0.091

Pearson's product-moment correlation

data: test$Grass500m and test$Grass30km

t = -1.9453, df = 99, p-value = 0.05458

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.37331470 0.00370346

sample estimates:

cor

-0.1918747

> cor.test(test$Grass500m, test$Schrubs500m) #r is 0.154

Pearson's product-moment correlation

data: test$Grass500m and test$Schrubs500m

t = 1.5173, df = 99, p-value = 0.1324

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04604477 0.33628257

sample estimates:

cor

0.1507511

> cor.test(test$Grass500m, test$Schrubs1km) #r is 0.057

Pearson's product-moment correlation

data: test$Grass500m and test$Schrubs1km

t = 0.40571, df = 99, p-value = 0.6858

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1559394 0.2343151

sample estimates:

cor

0.04074153

> cor.test(test$Grass500m, test$Schrubs5km) #r is 0.232

Pearson's product-moment correlation

data: test$Grass500m and test$Schrubs5km

t = 2.4489, df = 99, p-value = 0.01609

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.04568253 0.41504171

sample estimates:

cor

0.2389881

> cor.test(test$Grass500m, test$Schrubs30km) #r is -0.116

Pearson's product-moment correlation

data: test$Grass500m and test$Schrubs30km

t = -1.0216, df = 99, p-value = 0.3095

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29174991 0.09520538

sample estimates:

cor

-0.1021343

> cor.test(test$Grass500m, test$Water500m) #r is 0.220

Pearson's product-moment correlation

data: test$Grass500m and test$Water500m

t = 1.986, df = 99, p-value = 0.04979

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0003151368 0.3767680664

sample estimates:

cor

0.1957423

> cor.test(test$Grass500m, test$Water1km) #r is 0.214

Pearson's product-moment correlation

data: test$Grass500m and test$Water1km

t = 1.9727, df = 99, p-value = 0.05132

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0009977346 0.3756410055

sample estimates:

cor

0.1944795

> cor.test(test$Grass500m, test$Water5km) #r is 0.333

Pearson's product-moment correlation

data: test$Grass500m and test$Water5km

t = 3.4324, df = 99, p-value = 0.0008745

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1395681 0.4903019

sample estimates:

cor

0.326112

> cor.test(test$Grass500m, test$Water30km) #r is -0.152

Pearson's product-moment correlation

data: test$Grass500m and test$Water30km

t = -1.0064, df = 99, p-value = 0.3167

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29036637 0.09670306

sample estimates:

cor

-0.1006382

> cor.test(test$Grass500m, test$NSoilTypes) #r is -0.121

Pearson's product-moment correlation

data: test$Grass500m and test$NSoilTypes

t = -1.2893, df = 99, p-value = 0.2003

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31600536 0.06866126

sample estimates:

cor

-0.1285024

> cor.test(test$Grass500m, test$FPSiteIndex) # r is -0.365

Pearson's product-moment correlation

data: test$Grass500m and test$FPSiteIndex

t = -3.6166, df = 91, p-value = 0.0004895

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5206152 -0.1625323

sample estimates:

cor

-0.3545032

> cor.test(test$Grass500m, test$SiteIndexPrimaryS) # r is -0.283

Pearson's product-moment correlation

data: test$Grass500m and test$SiteIndexPrimaryS

t = -2.9354, df = 91, p-value = 0.004217

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.46967139 -0.09615396

sample estimates:

cor

-0.2941016

> cor.test(test$Grass500m, test$PISoils) # r is 0.177

Pearson's product-moment correlation

data: test$Grass500m and test$PISoils

t = 1.803, df = 99, p-value = 0.07444

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.0177569 0.3611552

sample estimates:

cor

0.1783011

> cor.test(test$Grass500m, test$SISoils) # r is -0.081

Pearson's product-moment correlation

data: test$Grass500m and test$SISoils

t = -0.34306, df = 99, p-value = 0.7323

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2283596 0.1620725

sample estimates:

cor

-0.03445826

> cor.test(test$Grass500m, test$HydricSoils) # r is 0.130

Pearson's product-moment correlation

data: test$Grass500m and test$HydricSoils

t = 0.52583, df = 99, p-value = 0.6002

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1441519 0.2456794

sample estimates:

cor

0.05277412

> #Grass1km by each

> #cor.test(test$Grass1km, test$Treatment) #non-numeric

> #cor.test(test$Grass1km, test$Grass1km)

> cor.test(test$Grass1km, test$Grass5km) #r is 0.275

Pearson's product-moment correlation

data: test$Grass1km and test$Grass5km

t = 1.0887, df = 99, p-value = 0.2789

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08855248 0.29787629

sample estimates:

cor

0.1087692

> cor.test(test$Grass1km, test$Grass30km) #r is -0.003 .3 something

Pearson's product-moment correlation

data: test$Grass1km and test$Grass30km

t = -1.6622, df = 99, p-value = 0.09964

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34897144 0.03168982

sample estimates:

cor

-0.1647699

> cor.test(test$Grass1km, test$Schrubs500m) #r is 0.140

Pearson's product-moment correlation

data: test$Grass1km and test$Schrubs500m

t = 1.351, df = 99, p-value = 0.1798

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.06253331 0.32153441

sample estimates:

cor

0.1345504

> #Grass5km by each

> #cor.test(test$Grass5km, test$Treatment) #non-numeric

> #cor.test(test$Grass5km, test$Grass5km)

> cor.test(test$Grass5km, test$Grass30km) #r is 0.740

Pearson's product-moment correlation

data: test$Grass5km and test$Grass30km

t = 11.284, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6498668 0.8246055

sample estimates:

cor

0.7500434

> cor.test(test$Grass5km, test$Schrubs500m) #r is 0.040

Pearson's product-moment correlation

data: test$Grass5km and test$Schrubs500m

t = -0.15741, df = 99, p-value = 0.8752

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2106061 0.1801784

sample estimates:

cor

-0.01581789

> cor.test(test$Grass5km, test$Schrubs1km) #r is -0.021

Pearson's product-moment correlation

data: test$Grass5km and test$Schrubs1km

t = -1.0475, df = 99, p-value = 0.2974

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29411553 0.09264054

sample estimates:

cor

-0.1046943

> cor.test(test$Grass5km, test$Schrubs5km) #r is -0.261

Pearson's product-moment correlation

data: test$Grass5km and test$Schrubs5km

t = -2.8657, df = 99, p-value = 0.005083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44796871 -0.08597085

sample estimates:

cor

-0.27676

> cor.test(test$Grass5km, test$Schrubs30km) #r is -0.120

Pearson's product-moment correlation

data: test$Grass5km and test$Schrubs30km

t = 1.5748, df = 99, p-value = 0.1185

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04034157 0.34134052

sample estimates:

cor

0.1563303

> cor.test(test$Grass5km, test$Water500m) #r is 0.107

Pearson's product-moment correlation

data: test$Grass5km and test$Water500m

t = 1.6328, df = 99, p-value = 0.1057

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03460175 0.34640872

sample estimates:

cor

0.1619326

> cor.test(test$Grass5km, test$Water1km) #r is 0.127

Pearson's product-moment correlation

data: test$Grass5km and test$Water1km

t = 1.0959, df = 99, p-value = 0.2758

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08784168 0.29852895

sample estimates:

cor

0.109477

> cor.test(test$Grass5km, test$Water5km) #r is -0.007

Pearson's product-moment correlation

data: test$Grass5km and test$Water5km

t = -0.42736, df = 99, p-value = 0.67

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2363689 0.1538173

sample estimates:

cor

-0.04291195

> cor.test(test$Grass5km, test$Water30km) #r is -0.422

Pearson's product-moment correlation

data: test$Grass5km and test$Water30km

t = -3.4618, df = 99, p-value = 0.0007937

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4924169 -0.1423010

sample estimates:

cor

-0.3286015

> cor.test(test$Grass5km, test$NSoilTypes) #r is 0.126

Pearson's product-moment correlation

data: test$Grass5km and test$NSoilTypes

t = 0.95667, df = 99, p-value = 0.3411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1016331 0.2858006

sample estimates:

cor

0.09570722

> cor.test(test$Grass5km, test$FPSiteIndex) # r is 0.087 .420

Pearson's product-moment correlation

data: test$Grass5km and test$FPSiteIndex

t = 2.6733, df = 91, p-value = 0.008902

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06998271 0.44887777

sample estimates:

cor

0.2698441

> cor.test(test$Grass5km, test$SiteIndexPrimaryS) # r is 0.207 .491

Pearson's product-moment correlation

data: test$Grass5km and test$SiteIndexPrimaryS

t = 3.799, df = 91, p-value = 0.0002621

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1798305 0.5334851

sample estimates:

cor

0.3699851

> cor.test(test$Grass5km, test$PISoils) # r is 0.012

Pearson's product-moment correlation

data: test$Grass5km and test$PISoils

t = 0.39147, df = 99, p-value = 0.6963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1573347 0.2329627

sample estimates:

cor

0.03931339

> cor.test(test$Grass5km, test$SISoils) # r is -0.086

Pearson's product-moment correlation

data: test$Grass5km and test$SISoils

t = -1.2216, df = 99, p-value = 0.2248

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30991450 0.07537844

sample estimates:

cor

-0.121856

> cor.test(test$Grass5km, test$HydricSoils) # r is 0.223 .559

Pearson's product-moment correlation

data: test$Grass5km and test$HydricSoils

t = 4.7499, df = 99, p-value = 6.888e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2570096 0.5776151

sample estimates:

cor

0.4308094

> #Grass30km by each

> #cor.test(test$Grass30km, test$Treatment) #non-numeric

> #cor.test(test$Grass30km, test$Grass30km)

> cor.test(test$Grass30km, test$Schrubs500m) #r is -0.178

Pearson's product-moment correlation

data: test$Grass30km and test$Schrubs500m

t = -2.0889, df = 99, p-value = 0.03929

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3854223 -0.0104396

sample estimates:

cor

-0.2054597

> cor.test(test$Grass30km, test$Schrubs1km) #r is -0.237

Pearson's product-moment correlation

data: test$Grass30km and test$Schrubs1km

t = -2.9772, df = 99, p-value = 0.003657

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.45652540 -0.09663797

sample estimates:

cor

-0.2866631

> cor.test(test$Grass30km, test$Schrubs5km) #r is -0.620

Pearson's product-moment correlation

data: test$Grass30km and test$Schrubs5km

t = -6.2269, df = 99, p-value = 1.156e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6577488 -0.3738256

sample estimates:

cor

-0.530506

> cor.test(test$Grass30km, test$Schrubs30km) #r is -0.450

Pearson's product-moment correlation

data: test$Grass30km and test$Schrubs30km

t = -0.30873, df = 99, p-value = 0.7582

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2250890 0.1654279

sample estimates:

cor

-0.03101409

> cor.test(test$Grass30km, test$Water500m) #r is -0.045

Pearson's product-moment correlation

data: test$Grass30km and test$Water500m

t = 0.31111, df = 99, p-value = 0.7564

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1651961 0.2253153

sample estimates:

cor

0.0312522

> cor.test(test$Grass30km, test$Water1km) #r is -0.023

Pearson's product-moment correlation

data: test$Grass30km and test$Water1km

t = -0.35689, df = 99, p-value = 0.7219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2296760 0.1607194

sample estimates:

cor

-0.03584576

> cor.test(test$Grass30km, test$Water5km) #r is -0.062

Pearson's product-moment correlation

data: test$Grass30km and test$Water5km

t = -0.91711, df = 99, p-value = 0.3613

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2821618 0.1055487

sample estimates:

cor

-0.09178396

> cor.test(test$Grass30km, test$Water30km) #r is -0.563 -.294

Pearson's product-moment correlation

data: test$Grass30km and test$Water30km

t = -4.3426, df = 99, p-value = 3.407e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5522730 -0.2219189

sample estimates:

cor

-0.4000091

> cor.test(test$Grass30km, test$NSoilTypes) #r is -0.011

Pearson's product-moment correlation

data: test$Grass30km and test$NSoilTypes

t = -0.88914, df = 99, p-value = 0.3761

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2795831 0.1083161

sample estimates:

cor

-0.08900738

> cor.test(test$Grass30km, test$FPSiteIndex) # r is 0.089 .383

Pearson's product-moment correlation

data: test$Grass30km and test$FPSiteIndex

t = 2.6437, df = 91, p-value = 0.009657

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06700776 0.44648785

sample estimates:

cor

0.2670705

> cor.test(test$Grass30km, test$SiteIndexPrimaryS) # r is 0.228 .487

Pearson's product-moment correlation

data: test$Grass30km and test$SiteIndexPrimaryS

t = 4.0408, df = 91, p-value = 0.0001112

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2024167 0.5500465

sample estimates:

cor

0.390042

> cor.test(test$Grass30km, test$PISoils) # r is -0.237

Pearson's product-moment correlation

data: test$Grass30km and test$PISoils

t = -1.9464, df = 99, p-value = 0.05444

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.373411938 0.003590475

sample estimates:

cor

-0.1919835

> cor.test(test$Grass30km, test$SISoils) # r is 0.041

Pearson's product-moment correlation

data: test$Grass30km and test$SISoils

t = -0.59745, df = 99, p-value = 0.5516

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2524208 0.1371069

sample estimates:

cor

-0.05993852

> cor.test(test$Grass30km, test$HydricSoils) # r is 0.185 .505

Pearson's product-moment correlation

data: test$Grass30km and test$HydricSoils

t = 4.4225, df = 99, p-value = 2.506e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2288982 0.5573625

sample estimates:

cor

0.4061673

> #Schrubs500m by each

> #cor.test(test$Schrubs500m, test$Treatment) #non-numeric

> #cor.test(test$Schrubs500m, test$Schrubs500m)

> cor.test(test$Schrubs500m, test$Schrubs1km) #r is 0.753

Pearson's product-moment correlation

data: test$Schrubs500m and test$Schrubs1km

t = 11.398, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.6542088 0.8270078

sample estimates:

cor

0.7533289

> cor.test(test$Schrubs500m, test$Schrubs5km) #r is 0.344

Pearson's product-moment correlation

data: test$Schrubs500m and test$Schrubs5km

t = 3.7263, df = 99, p-value = 0.0003234

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1667107 0.5111268

sample estimates:

cor

0.3507227

> cor.test(test$Schrubs500m, test$Schrubs30km) #r is 0.049

Pearson's product-moment correlation

data: test$Schrubs500m and test$Schrubs30km

t = 0.36504, df = 99, p-value = 0.7159

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1599222 0.2304509

sample estimates:

cor

0.03666294

> cor.test(test$Schrubs500m, test$Water500m) #r is -0.142

Pearson's product-moment correlation

data: test$Schrubs500m and test$Water500m

t = -1.5339, df = 99, p-value = 0.1283

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3377425 0.0444012

sample estimates:

cor

-0.1523602

> cor.test(test$Schrubs500m, test$Water1km) #r is 0.154

Pearson's product-moment correlation

data: test$Schrubs500m and test$Water1km

t = 1.4898, df = 99, p-value = 0.1394

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04876724 0.33386032

sample estimates:

cor

0.1480834

> cor.test(test$Schrubs500m, test$Water5km) #r is 0.403 .400

Pearson's product-moment correlation

data: test$Schrubs500m and test$Water5km

t = 4.3582, df = 99, p-value = 3.209e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2232854 0.5532715

sample estimates:

cor

0.4012161

> cor.test(test$Schrubs500m, test$Water30km) #r is 0.026

Pearson's product-moment correlation

data: test$Schrubs500m and test$Water30km

t = 0.50059, df = 99, p-value = 0.6178

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1466315 0.2432977

sample estimates:

cor

0.0502477

> cor.test(test$Schrubs500m, test$NSoilTypes) #r is -0.042

Pearson's product-moment correlation

data: test$Schrubs500m and test$NSoilTypes

t = -0.32755, df = 99, p-value = 0.7439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2268825 0.1635890

sample estimates:

cor

-0.0329022

> cor.test(test$Schrubs500m, test$FPSiteIndex) # r is -0.040

Pearson's product-moment correlation

data: test$Schrubs500m and test$FPSiteIndex

t = -0.44101, df = 91, p-value = 0.6603

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2475606 0.1590230

sample estimates:

cor

-0.04618126

> cor.test(test$Schrubs500m, test$SiteIndexPrimaryS) # r is -0.085

Pearson's product-moment correlation

data: test$Schrubs500m and test$SiteIndexPrimaryS

t = -0.98766, df = 91, p-value = 0.3259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3003905 0.1028826

sample estimates:

cor

-0.102984

> cor.test(test$Schrubs500m, test$PISoils) # r is 0.035

Pearson's product-moment correlation

data: test$Schrubs500m and test$PISoils

t = 0.39214, df = 99, p-value = 0.6958

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1572684 0.2330271

sample estimates:

cor

0.03938132

> cor.test(test$Schrubs500m, test$SISoils) # r is 0.063

Pearson's product-moment correlation

data: test$Schrubs500m and test$SISoils

t = 0.81565, df = 99, p-value = 0.4167

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1155830 0.2727853

sample estimates:

cor

0.08170184

> cor.test(test$Schrubs500m, test$HydricSoils) # r is 0.038

Pearson's product-moment correlation

data: test$Schrubs500m and test$HydricSoils

t = -0.031438, df = 99, p-value = 0.975

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1984763 0.1923985

sample estimates:

cor

-0.003159597

> #Schrubs1km by each

> #cor.test(test$Schrubs1km, test$Treatment) #non-numeric

> #cor.test(test$Schrubs1km, test$Schrubs1km)

> cor.test(test$Schrubs1km, test$Schrubs5km) #r is 0.550

Pearson's product-moment correlation

data: test$Schrubs1km and test$Schrubs5km

t = 6.7048, df = 99, p-value = 1.255e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4079381 0.6799966

sample estimates:

cor

0.5588239

> cor.test(test$Schrubs1km, test$Schrubs30km) #r is 0.142

Pearson's product-moment correlation

data: test$Schrubs1km and test$Schrubs30km

t = 1.2218, df = 99, p-value = 0.2247

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07535837 0.30993276

sample estimates:

cor

0.1218759

> cor.test(test$Schrubs1km, test$Water500m) #r is -0.093

Pearson's product-moment correlation

data: test$Schrubs1km and test$Water500m

t = -1.131, df = 99, p-value = 0.2608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30172037 0.08436035

sample estimates:

cor

-0.112941

> cor.test(test$Schrubs1km, test$Water1km) #r is 0.395

Pearson's product-moment correlation

data: test$Schrubs1km and test$Water1km

t = 4.1289, df = 99, p-value = 7.616e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2030537 0.5383917

sample estimates:

cor

0.3832825

> cor.test(test$Schrubs1km, test$Water5km) #r is 0.550

Pearson's product-moment correlation

data: test$Schrubs1km and test$Water5km

t = 6.4939, df = 99, p-value = 3.368e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3931070 0.6703851

sample estimates:

cor

0.5465552

> cor.test(test$Schrubs1km, test$Water30km) #r is 0.057

Pearson's product-moment correlation

data: test$Schrubs1km and test$Water30km

t = 0.96779, df = 99, p-value = 0.3355

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1005315 0.2868223

sample estimates:

cor

0.09680986

> cor.test(test$Schrubs1km, test$NSoilTypes) #r is -0.067

Pearson's product-moment correlation

data: test$Schrubs1km and test$NSoilTypes

t = -0.603, df = 99, p-value = 0.5479

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2529419 0.1365607

sample estimates:

cor

-0.06049311

> cor.test(test$Schrubs1km, test$FPSiteIndex) # r is -0.131

Pearson's product-moment correlation

data: test$Schrubs1km and test$FPSiteIndex

t = -1.3296, df = 91, p-value = 0.187

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33240505 0.06756396

sample estimates:

cor

-0.1380443

> cor.test(test$Schrubs1km, test$SiteIndexPrimaryS) # r is -0.175

Pearson's product-moment correlation

data: test$Schrubs1km and test$SiteIndexPrimaryS

t = -1.9331, df = 91, p-value = 0.05633

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.386673956 0.005313316

sample estimates:

cor

-0.1986099

> cor.test(test$Schrubs1km, test$PISoils) # r is -0.064

Pearson's product-moment correlation

data: test$Schrubs1km and test$PISoils

t = -0.62428, df = 99, p-value = 0.5339

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2549389 0.1344652

sample estimates:

cor

-0.0626197

> cor.test(test$Schrubs1km, test$SISoils) # r is 0.181

Pearson's product-moment correlation

data: test$Schrubs1km and test$SISoils

t = 2.1647, df = 99, p-value = 0.03281

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0178952 0.3917534

sample estimates:

cor

0.2125909

> cor.test(test$Schrubs1km, test$HydricSoils) # r is 0.012

Pearson's product-moment correlation

data: test$Schrubs1km and test$HydricSoils

t = -0.46334, df = 99, p-value = 0.6441

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2397759 0.1502890

sample estimates:

cor

-0.04651652

>

> #Schrubs5km by each

> #cor.test(test$Schrubs5km, test$Treatment) #non-numeric

> #cor.test(test$Schrubs5km, test$Schrubs5km)

> cor.test(test$Schrubs5km, test$Schrubs30km) #r is 0.545

Pearson's product-moment correlation

data: test$Schrubs5km and test$Schrubs30km

t = 5.4517, df = 99, p-value = 3.667e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3146201 0.6179225

sample estimates:

cor

0.4805131

> cor.test(test$Schrubs5km, test$Water500m) #r is -0.013

Pearson's product-moment correlation

data: test$Schrubs5km and test$Water500m

t = -0.28792, df = 99, p-value = 0.774

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2231032 0.1674608

sample estimates:

cor

-0.02892515

> cor.test(test$Schrubs5km, test$Water1km) #r is 0.168

Pearson's product-moment correlation

data: test$Schrubs5km and test$Water1km

t = 1.6438, df = 99, p-value = 0.1034

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03350777 0.34737217

sample estimates:

cor

0.1629989

> cor.test(test$Schrubs5km, test$Water5km) #r is 0.491

Pearson's product-moment correlation

data: test$Schrubs5km and test$Water5km

t = 5.641, df = 99, p-value = 1.607e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3295177 0.6280925

sample estimates:

cor

0.4931948

> cor.test(test$Schrubs5km, test$Water30km) #r is 0.395

Pearson's product-moment correlation

data: test$Schrubs5km and test$Water30km

t = 4.4553, df = 99, p-value = 2.207e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2317443 0.5594309

sample estimates:

cor

0.4086739

> cor.test(test$Schrubs5km, test$NSoilTypes) #r is 0.206

Pearson's product-moment correlation

data: test$Schrubs5km and test$NSoilTypes

t = 2.0597, df = 99, p-value = 0.04205

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.007574749 0.382980170

sample estimates:

cor

0.2027139

> cor.test(test$Schrubs5km, test$FPSiteIndex) # r is -0.234

Pearson's product-moment correlation

data: test$Schrubs5km and test$FPSiteIndex

t = -2.4685, df = 91, p-value = 0.01544

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.43216975 -0.04932494

sample estimates:

cor

-0.250516

> cor.test(test$Schrubs5km, test$SiteIndexPrimaryS) # r is -0.319

Pearson's product-moment correlation

data: test$Schrubs5km and test$SiteIndexPrimaryS

t = -3.3405, df = 91, p-value = 0.001214

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5005151 -0.1359495

sample estimates:

cor

-0.3305048

> cor.test(test$Schrubs5km, test$PISoils) # r is 0.237

Pearson's product-moment correlation

data: test$Schrubs5km and test$PISoils

t = 2.3163, df = 99, p-value = 0.0226

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.03274614 0.40425972

sample estimates:

cor

0.2267343

> cor.test(test$Schrubs5km, test$SISoils) # r is -0.121

Pearson's product-moment correlation

data: test$Schrubs5km and test$SISoils

t = -1.0619, df = 99, p-value = 0.2909

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29543489 0.09120784

sample estimates:

cor

-0.1061231

> cor.test(test$Schrubs5km, test$HydricSoils) # r is 0.193

Pearson's product-moment correlation

data: test$Schrubs5km and test$HydricSoils

t = 1.075, df = 99, p-value = 0.285

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08990892 0.29662978

sample estimates:

cor

0.1074179

>

> #Schrubs30km by each

> #cor.test(test$Schrubs30km, test$Treatment) #non-numeric

> #cor.test(test$Schrubs30km, test$Schrubs30km)

> cor.test(test$Schrubs30km, test$Water500m) #r is 0.271 .378

Pearson's product-moment correlation

data: test$Schrubs30km and test$Water500m

t = 3.4498, df = 99, p-value = 0.0008258

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1411876 0.4915557

sample estimates:

cor

0.3275875

> cor.test(test$Schrubs30km, test$Water1km) #r is 0.254

Pearson's product-moment correlation

data: test$Schrubs30km and test$Water1km

t = 2.8371, df = 99, p-value = 0.005522

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.08323462 0.44576309

sample estimates:

cor

0.2742132

> cor.test(test$Schrubs30km, test$Water5km) #r is 0.126

Pearson's product-moment correlation

data: test$Schrubs30km and test$Water5km

t = 1.2392, df = 99, p-value = 0.2182

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07362343 0.31150894

sample estimates:

cor

0.1235942

> cor.test(test$Schrubs30km, test$Water30km) #r is 0.399

Pearson's product-moment correlation

data: test$Schrubs30km and test$Water30km

t = 3.2989, df = 99, p-value = 0.00135

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1270794 0.4805835

sample estimates:

cor

0.3147026

> cor.test(test$Schrubs30km, test$NSoilTypes) #r is 0.207

Pearson's product-moment correlation

data: test$Schrubs30km and test$NSoilTypes

t = 1.6568, df = 99, p-value = 0.1007

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.03222539 0.34850053

sample estimates:

cor

0.1642483

> cor.test(test$Schrubs30km, test$FPSiteIndex) # r is 0.230 .352

Pearson's product-moment correlation

data: test$Schrubs30km and test$FPSiteIndex

t = 2.9637, df = 91, p-value = 0.003879

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09896781 0.47188265

sample estimates:

cor

0.2966946

> cor.test(test$Schrubs30km, test$SiteIndexPrimaryS) # r is 0.076 .328

Pearson's product-moment correlation

data: test$Schrubs30km and test$SiteIndexPrimaryS

t = 2.1355, df = 91, p-value = 0.03541

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01543341 0.40417685

sample estimates:

cor

0.2184549

> cor.test(test$Schrubs30km, test$PISoils) # r is 0.059

Pearson's product-moment correlation

data: test$Schrubs30km and test$PISoils

t = 0.55478, df = 99, p-value = 0.5803

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1413059 0.2484073

sample estimates:

cor

0.05567076

> cor.test(test$Schrubs30km, test$SISoils) # r is -0.055 -.200

Pearson's product-moment correlation

data: test$Schrubs30km and test$SISoils

t = -1.3178, df = 99, p-value = 0.1906

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3185579 0.0658358

sample estimates:

cor

-0.1312928

> cor.test(test$Schrubs30km, test$HydricSoils) # r is 0.145 .463

Pearson's product-moment correlation

data: test$Schrubs30km and test$HydricSoils

t = 3.566, df = 99, p-value = 0.0005602

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1519653 0.4998634

sample estimates:

cor

0.3373842

>

> #Water500m by each

> #cor.test(test$Water500m, test$Treatment) #non-numeric

> #cor.test(test$Water500m, test$Water500m)

> cor.test(test$Water500m, test$Water1km) #r is 0.537

Pearson's product-moment correlation

data: test$Water500m and test$Water1km

t = 6.2924, df = 99, p-value = 8.56e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3786046 0.6608957

sample estimates:

cor

0.5344944

> cor.test(test$Water500m, test$Water5km) #r is -0.110

Pearson's product-moment correlation

data: test$Water500m and test$Water5km

t = -1.1683, df = 99, p-value = 0.2455

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30510305 0.08066005

sample estimates:

cor

-0.1166176

> cor.test(test$Water500m, test$Water30km) #r is -0.115

Pearson's product-moment correlation

data: test$Water500m and test$Water30km

t = -1.0928, df = 99, p-value = 0.2771

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29824972 0.08814583

sample estimates:

cor

-0.1091742

> cor.test(test$Water500m, test$NSoilTypes) #r is -0.122

Pearson's product-moment correlation

data: test$Water500m and test$NSoilTypes

t = -1.2683, df = 99, p-value = 0.2077

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31412456 0.07073919

sample estimates:

cor

-0.1264482

> cor.test(test$Water500m, test$FPSiteIndex) # r is -0.020

Pearson's product-moment correlation

data: test$Water500m and test$FPSiteIndex

t = 0.39829, df = 91, p-value = 0.6913

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1633805 0.2433564

sample estimates:

cor

0.04171617

> cor.test(test$Water500m, test$SiteIndexPrimaryS) # r is -0.049

Pearson's product-moment correlation

data: test$Water500m and test$SiteIndexPrimaryS

t = 0.20262, df = 91, p-value = 0.8399

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1832657 0.2239748

sample estimates:

cor

0.02123536

> cor.test(test$Water500m, test$PISoils) # r is 0.096

Pearson's product-moment correlation

data: test$Water500m and test$PISoils

t = 1.0636, df = 99, p-value = 0.2901

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09104073 0.29558868

sample estimates:

cor

0.1062897

> cor.test(test$Water500m, test$SISoils) # r is 0.083

Pearson's product-moment correlation

data: test$Water500m and test$SISoils

t = 0.73334, df = 99, p-value = 0.4651

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1237123 0.2651346

sample estimates:

cor

0.07350413

> cor.test(test$Water500m, test$HydricSoils) # r is -0.047 0.139

Pearson's product-moment correlation

data: test$Water500m and test$HydricSoils

t = 0.64314, df = 99, p-value = 0.5216

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1326080 0.2567061

sample estimates:

cor

0.06450293

>

> #Water1km by each

> #cor.test(test$Water1km, test$Treatment) #non-numeric

> #cor.test(test$Water1km, test$Water1km)

> cor.test(test$Water1km, test$Water5km) #r is 0.259

Pearson's product-moment correlation

data: test$Water1km and test$Water5km

t = 2.6015, df = 99, p-value = 0.0107

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.06051207 0.42727524

sample estimates:

cor

0.2529597

> cor.test(test$Water1km, test$Water30km) #r is -0.150

Pearson's product-moment correlation

data: test$Water1km and test$Water30km

t = -1.3422, df = 99, p-value = 0.1826

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.32074093 0.06341453

sample estimates:

cor

-0.1336815

> cor.test(test$Water1km, test$NSoilTypes) #r is -0.333

Pearson's product-moment correlation

data: test$Water1km and test$NSoilTypes

t = -3.5735, df = 99, p-value = 0.0005461

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5003954 -0.1526582

sample estimates:

cor

-0.3380128

> cor.test(test$Water1km, test$FPSiteIndex) # r is -0.186

Pearson's product-moment correlation

data: test$Water1km and test$FPSiteIndex

t = -1.483, df = 91, p-value = 0.1415

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34648370 0.05170837

sample estimates:

cor

-0.153618

> cor.test(test$Water1km, test$SiteIndexPrimaryS) # r is -0.174

Pearson's product-moment correlation

data: test$Water1km and test$SiteIndexPrimaryS

t = -1.3977, df = 91, p-value = 0.1656

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33867588 0.06052652

sample estimates:

cor

-0.1449692

> cor.test(test$Water1km, test$PISoils) # r is -0.074

Pearson's product-moment correlation

data: test$Water1km and test$PISoils

t = -0.68047, df = 99, p-value = 0.4978

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2602001 0.1289280

sample estimates:

cor

-0.06823055

> cor.test(test$Water1km, test$SISoils) # r is 0.106

Pearson's product-moment correlation

data: test$Water1km and test$SISoils

t = 1.2152, df = 99, p-value = 0.2272

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07600598 0.30934385

sample estimates:

cor

0.1212342

> cor.test(test$Water1km, test$HydricSoils) # r is -0.196

Pearson's product-moment correlation

data: test$Water1km and test$HydricSoils

t = -1.34, df = 99, p-value = 0.1833

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3205471 0.0636297

sample estimates:

cor

-0.1334693

>

> #Water5km by each

> #cor.test(test$Water5km, test$Treatment) #non-numeric

> #cor.test(test$Water5km, test$Water5km)

> cor.test(test$Water5km, test$Water30km) #r is 0.074

Pearson's product-moment correlation

data: test$Water5km and test$Water30km

t = 0.9932, df = 99, p-value = 0.323

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09801503 0.28915305

sample estimates:

cor

0.09932694

> cor.test(test$Water5km, test$NSoilTypes) #r is 0.061

Pearson's product-moment correlation

data: test$Water5km and test$NSoilTypes

t = 0.6259, df = 99, p-value = 0.5328

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1343061 0.2550904

sample estimates:

cor

0.06278109

> cor.test(test$Water5km, test$FPSiteIndex) # r is -0.444

Pearson's product-moment correlation

data: test$Water5km and test$FPSiteIndex

t = -4.5148, df = 91, p-value = 1.893e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5808773 -0.2454724

sample estimates:

cor

-0.4277891

> cor.test(test$Water5km, test$SiteIndexPrimaryS) # r is -0.444 -0.410

Pearson's product-moment correlation

data: test$Water5km and test$SiteIndexPrimaryS

t = -4.4702, df = 91, p-value = 2.247e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5780692 -0.2414952

sample estimates:

cor

-0.4243288

> cor.test(test$Water5km, test$PISoils) # r is -0.011

Pearson's product-moment correlation

data: test$Water5km and test$PISoils

t = -0.10407, df = 99, p-value = 0.9173

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2054782 0.1853592

sample estimates:

cor

-0.01045895

> cor.test(test$Water5km, test$SISoils) # r is -0.118

Pearson's product-moment correlation

data: test$Water5km and test$SISoils

t = -1.0168, df = 99, p-value = 0.3117

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.29131048 0.09568125

sample estimates:

cor

-0.101659

> cor.test(test$Water5km, test$HydricSoils) # r is 0.418 0.266

Pearson's product-moment correlation

data: test$Water5km and test$HydricSoils

t = 3.4018, df = 99, p-value = 0.0009671

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1367105 0.4880858

sample estimates:

cor

0.3235061

>

> #Water30km by each

> #cor.test(test$Water30km, test$Treatment) #non-numeric

> #cor.test(test$Water30km, test$Water30km)

> cor.test(test$Water30km, test$NSoilTypes) #r is 0.101

Pearson's product-moment correlation

data: test$Water30km and test$NSoilTypes

t = 1.0014, df = 99, p-value = 0.3191

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09720673 0.28990072

sample estimates:

cor

0.1001349

> cor.test(test$Water30km, test$FPSiteIndex) # r is 0.264 .166

Pearson's product-moment correlation

data: test$Water30km and test$FPSiteIndex

t = 2.0923, df = 91, p-value = 0.0392

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.0110091 0.4004680

sample estimates:

cor

0.2142369

> cor.test(test$Water30km, test$SiteIndexPrimaryS) # r is 0.098

Pearson's product-moment correlation

data: test$Water30km and test$SiteIndexPrimaryS

t = 0.75184, df = 91, p-value = 0.4541

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1271733 0.2778319

sample estimates:

cor

0.07857048

> cor.test(test$Water30km, test$PISoils) # r is 0.024

Pearson's product-moment correlation

data: test$Water30km and test$PISoils

t = 0.10456, df = 99, p-value = 0.9169

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1853115 0.2055255

sample estimates:

cor

0.01050838

> cor.test(test$Water30km, test$SISoils) # r is 0.040

Pearson's product-moment correlation

data: test$Water30km and test$SISoils

t = 0.20095, df = 99, p-value = 0.8411

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1759410 0.2147842

sample estimates:

cor

0.02019257

> cor.test(test$Water30km, test$HydricSoils) # r is -0.030

Pearson's product-moment correlation

data: test$Water30km and test$HydricSoils

t = -0.33932, df = 99, p-value = 0.7351

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2280036 0.1624382

sample estimates:

cor

-0.03408306

>

> #soils with one another:

> cor.test(test$NSoilTypes, test$FPSiteIndex) # r is 0.045

Pearson's product-moment correlation

data: test$NSoilTypes and test$FPSiteIndex

t = 0.20683, df = 91, p-value = 0.8366

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1828395 0.2243936

sample estimates:

cor

0.02167614

> cor.test(test$NSoilTypes, test$SiteIndexPrimaryS) # r is -0.077

Pearson's product-moment correlation

data: test$NSoilTypes and test$SiteIndexPrimaryS

t = -0.70789, df = 91, p-value = 0.4808

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2735876 0.1316899

sample estimates:

cor

-0.07400366

> cor.test(test$NSoilTypes, test$PISoils) # r is -0.077

Pearson's product-moment correlation

data: test$NSoilTypes and test$PISoils

t = -0.8734, df = 99, p-value = 0.3846

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2781301 0.1098729

sample estimates:

cor

-0.08744408

> cor.test(test$NSoilTypes, test$SISoils) # r is -0.262

Pearson's product-moment correlation

data: test$NSoilTypes and test$SISoils

t = -2.0969, df = 99, p-value = 0.03856

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38609131 -0.01122543

sample estimates:

cor

-0.2062123

> cor.test(test$NSoilTypes, test$HydricSoils) # r is 0.533 #medium! 0.352

Pearson's product-moment correlation

data: test$NSoilTypes and test$HydricSoils

t = 4.593, df = 99, p-value = 1.288e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2436315 0.5680260

sample estimates:

cor

0.4191145

>

> cor.test(test$FPSiteIndex, test$SiteIndexPrimaryS) #0.875 #HIGHLY, duh 0.932

Pearson's product-moment correlation

data: test$FPSiteIndex and test$SiteIndexPrimaryS

t = 20.332, df = 91, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.8602468 0.9363389

sample estimates:

cor

0.9053092

> cor.test(test$FPSiteIndex, test$PISoils) #-.130 -0.101

Pearson's product-moment correlation

data: test$FPSiteIndex and test$PISoils

t = -1.1083, df = 91, p-value = 0.2707

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.31177971 0.09043341

sample estimates:

cor

-0.1154008

> cor.test(test$FPSiteIndex, test$SISoils) #0.181 0.090

Pearson's product-moment correlation

data: test$FPSiteIndex and test$SISoils

t = 1.282, df = 91, p-value = 0.2031

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07248548 0.32799854

sample estimates:

cor

0.1331895

> cor.test(test$FPSiteIndex, test$HydricSoils) #-0.064 0.262

Pearson's product-moment correlation

data: test$FPSiteIndex and test$HydricSoils

t = 1.2694, df = 91, p-value = 0.2075

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.07378152 0.32683521

sample estimates:

cor

0.1319093

>

> cor.test(test$SiteIndexPrimaryS, test$PISoils) #-0.172 -0.092

Pearson's product-moment correlation

data: test$SiteIndexPrimaryS and test$PISoils

t = -1.2378, df = 91, p-value = 0.219

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3238964 0.0770496

sample estimates:

cor

-0.1286784

> cor.test(test$SiteIndexPrimaryS, test$SISoils) #0.308 #medium 0.146

Pearson's product-moment correlation

data: test$SiteIndexPrimaryS and test$SISoils

t = 2.1431, df = 91, p-value = 0.03477

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01620878 0.40482552

sample estimates:

cor

0.2191933

> cor.test(test$SiteIndexPrimaryS, test$HydricSoils) #-0.147 0.264

Pearson's product-moment correlation

data: test$SiteIndexPrimaryS and test$HydricSoils

t = 1.0505, df = 91, p-value = 0.2963

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.09639584 0.30633933

sample estimates:

cor

0.1094619

>

> cor.test(test$PISoils, test$SISoils) #-0.358 medium -0.315

Pearson's product-moment correlation

data: test$PISoils and test$SISoils

t = -3.5551, df = 99, p-value = 0.0005812

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4990851 -0.1509521

sample estimates:

cor

-0.336465

> cor.test(test$PISoils, test$HydricSoils) #0.043 0.087

Pearson's product-moment correlation

data: test$PISoils and test$HydricSoils

t = 0.6791, df = 99, p-value = 0.4987

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.129063 0.260072

sample estimates:

cor

0.06809383

>

> cor.test(test$SISoils, test$HydricSoils) #-0.361 #medium -0.349

Pearson's product-moment correlation

data: test$SISoils and test$HydricSoils

t = -3.7235, df = 99, p-value = 0.0003266

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5109293 -0.1664507

sample estimates:

cor

-0.3504882

> #cor.test(test$Latitude, test$Treatment) #non-numeric

> cor.test(test$Latitude, test$Herbicide) #r is 0.164 #-0.010

Pearson's product-moment correlation

data: test$Latitude and test$Herbicide

t = -0.44159, df = 99, p-value = 0.6597

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2377172 0.1524222

sample estimates:

cor

-0.04433782

> cor.test(test$Latitude, test$LastB) #r is 0.164 #-0.010

Pearson's product-moment correlation

data: test$Latitude and test$LastB

t = -1.1574, df = 77, p-value = 0.2507

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.34199142 0.09303082

sample estimates:

cor

-0.1307695

> cor.test(test$Latitude, test$LastT) #r is -0.169 #-0.041

Pearson's product-moment correlation

data: test$Latitude and test$LastT

t = -0.63862, df = 94, p-value = 0.5246

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2627502 0.1365589

sample estimates:

cor

-0.06572654

> cor.test(test$Latitude, test$BA) #r is -0.173 #0.0.049

Pearson's product-moment correlation

data: test$Latitude and test$BA

t = 2.5939, df = 99, p-value = 0.01093

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.05976916 0.42666556

sample estimates:

cor

0.2522617

> cor.test(test$Latitude, test$Nsnags) #r is 0.007 #0.054

Pearson's product-moment correlation

data: test$Latitude and test$Nsnags

t = -0.15606, df = 99, p-value = 0.8763

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2104767 0.1803093

sample estimates:

cor

-0.01568258

> cor.test(test$Latitude, test$Ccover) #r is -0.209 #-0.090

Pearson's product-moment correlation

data: test$Latitude and test$Ccover

t = 2.9146, df = 99, p-value = 0.004404

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09065868 0.45173727

sample estimates:

cor

0.281117

> cor.test(test$Latitude, test$Ldepth) #r is -0.059 #-0.350

Pearson's product-moment correlation

data: test$Latitude and test$Ldepth

t = 2.9894, df = 99, p-value = 0.003526

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.09780302 0.45745594

sample estimates:

cor

0.2877422

> cor.test(test$Latitude, test$TreeHt) #r is -0.167 #-0.342 #ish

Pearson's product-moment correlation

data: test$Latitude and test$TreeHt

t = 0.64243, df = 99, p-value = 0.5221

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1326774 0.2566401

sample estimates:

cor

0.0644326

> cor.test(test$Latitude, test$Age) #r is 0.102 #0.093

Pearson's product-moment correlation

data: test$Latitude and test$Age

t = -1.7579, df = 99, p-value = 0.08186

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35726970 0.02221627

sample estimates:

cor

-0.1739784

> cor.test(test$Latitude, test$Nburns) #r is 0.350 #high-ISH #0.295

Pearson's product-moment correlation

data: test$Latitude and test$Nburns

t = -2.5416, df = 99, p-value = 0.01259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.42249734 -0.05470094

sample estimates:

cor

-0.2474943

> cor.test(test$Latitude, test$Nthins) #r is 0.101 #0.132

Pearson's product-moment correlation

data: test$Latitude and test$Nthins

t = -2.1762, df = 99, p-value = 0.03192

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39270410 -0.01901838

sample estimates:

cor

-0.2136635

> cor.test(test$Latitude, test$TimeSinceB) #r is -0.300 #-0.352 #ish

Pearson's product-moment correlation

data: test$Latitude and test$TimeSinceB

t = 2.1987, df = 99, p-value = 0.03023

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.02122647 0.39457081

sample estimates:

cor

0.2157706

> cor.test(test$Latitude, test$TimeSinceT) #r is -0.064 #-0.145

Pearson's product-moment correlation

data: test$Latitude and test$TimeSinceT

t = -1.4926, df = 99, p-value = 0.1387

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.33410729 0.04848992

sample estimates:

cor

-0.1483553

> cor.test(test$Latitude, test$HWdens\_10) #r is -0.137 #-0.190

Pearson's product-moment correlation

data: test$Latitude and test$HWdens\_10

t = -3.7205, df = 99, p-value = 0.0003301

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5107211 -0.1661768

sample estimates:

cor

-0.3502411

> cor.test(test$Latitude, test$HWdens\_50) #r is -0.041 #-0.173

Pearson's product-moment correlation

data: test$Latitude and test$HWdens\_50

t = -3.3903, df = 99, p-value = 0.001004

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4872514 -0.1356361

sample estimates:

cor

-0.3225257

> cor.test(test$Latitude, test$HWdens\_100) #r is -0.135 #-0.073

Pearson's product-moment correlation

data: test$Latitude and test$HWdens\_100

t = -2.1025, df = 99, p-value = 0.03805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.38656332 -0.01178018

sample estimates:

cor

-0.2067435

> cor.test(test$Latitude, test$FG\_herb) #r is 0.221 #0.066

Pearson's product-moment correlation

data: test$Latitude and test$FG\_herb

t = -2.8672, df = 99, p-value = 0.005061

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44808383 -0.08611381

sample estimates:

cor

-0.276893

> cor.test(test$Latitude, test$FG\_shrub) #r is -0.038 #0.173

Pearson's product-moment correlation

data: test$Latitude and test$FG\_shrub

t = -1.6807, df = 99, p-value = 0.09598

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.35058196 0.02985653

sample estimates:

cor

-0.1665546

> cor.test(test$Latitude, test$NHW\_saplings) #r is -0.205 #-0.319 #ish

Pearson's product-moment correlation

data: test$Latitude and test$NHW\_saplings

t = 0.19958, df = 99, p-value = 0.8422

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1760747 0.2146526

sample estimates:

cor

0.02005466

> cor.test(test$Latitude, test$NP\_over\_20cm) #r is -0.192 #0.207

Pearson's product-moment correlation

data: test$Latitude and test$NP\_over\_20cm

t = 1.1587, df = 99, p-value = 0.2494

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08160918 0.30423631

sample estimates:

cor

0.1156751

> cor.test(test$Latitude, test$Rel\_HW2P\_canopy) #r is -0.390 #highest but still not 0.5 #cool #-0.076

Pearson's product-moment correlation

data: test$Latitude and test$Rel\_HW2P\_canopy

t = -0.37175, df = 99, p-value = 0.7109

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2310893 0.1592651

sample estimates:

cor

-0.03733633

> cor.test(test$Latitude, test$Rel\_HW2P\_shrubcover) #r is -0.118 #-0.047

Pearson's product-moment correlation

data: test$Latitude and test$Rel\_HW2P\_shrubcover

t = -2.2779, df = 99, p-value = 0.02488

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.40111248 -0.02899337

sample estimates:

cor

-0.2231681

> cor.test(test$Latitude, test$LCR) #r is 0.006 #0.175

Pearson's product-moment correlation

data: test$Latitude and test$LCR

t = -0.13022, df = 98, p-value = 0.8967

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2090316 0.1837393

sample estimates:

cor

-0.0131535

> cor.test(test$Latitude, test$HW\_dens\_1050) #r is -0.974 #-0.191

Pearson's product-moment correlation

data: test$Latitude and test$HW\_dens\_1050

t = -3.8345, df = 99, p-value = 0.0002214

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5185930 -0.1765706

sample estimates:

cor

-0.3596005

> cor.test(test$Latitude, test$HW\_shrub) #r is -0.366 #-0.244

Pearson's product-moment correlation

data: test$Latitude and test$HW\_shrub

t = -1.1951, df = 99, p-value = 0.2349

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30753108 0.07799746

sample estimates:

cor

-0.1192598

> cor.test(test$Latitude, test$Parea) #r is -0.277 #-0.245

Pearson's product-moment correlation

data: test$Latitude and test$Parea

t = 0.35161, df = 99, p-value = 0.7259

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1612357 0.2291739

sample estimates:

cor

0.03531648

> cor.test(test$Latitude, test$ShapeIndex) #r is -0.260 #-0.308 #ish

Pearson's product-moment correlation

data: test$Latitude and test$ShapeIndex

t = -1.0542, df = 99, p-value = 0.2943

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2947333 0.0919699

sample estimates:

cor

-0.1053632

> cor.test(test$Latitude, test$PAratio) #r is 0.169 #0.130

Pearson's product-moment correlation

data: test$Latitude and test$PAratio

t = -1.1829, df = 99, p-value = 0.2397

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30642637 0.07920957

sample estimates:

cor

-0.1180573

> cor.test(test$Latitude, test$FracDimIndex) #r is -0.136 #-0.199

Pearson's product-moment correlation

data: test$Latitude and test$FracDimIndex

t = -1.2039, df = 99, p-value = 0.2315

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30831949 0.07713171

sample estimates:

cor

-0.1201183

> cor.test(test$Latitude, test$CoreAreaIndex) #r is -0.228 #0.151

Pearson's product-moment correlation

data: test$Latitude and test$CoreAreaIndex

t = 0.32686, df = 99, p-value = 0.7445

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1636565 0.2268168

sample estimates:

cor

0.03283296

> cor.test(test$Latitude, test$Ag500m) #r is 0.062 #0.055

Pearson's product-moment correlation

data: test$Latitude and test$Ag500m

t = 0.30383, df = 99, p-value = 0.7619

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1659067 0.2246216

sample estimates:

cor

0.03052227

> cor.test(test$Latitude, test$Ag1km) #r is -0.074 #0.033

Pearson's product-moment correlation

data: test$Latitude and test$Ag1km

t = 1.7639, df = 99, p-value = 0.08083

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.02161614 0.35779337

sample estimates:

cor

0.1745606

> cor.test(test$Latitude, test$Ag5km) #r is -0.085 #0.116

Pearson's product-moment correlation

data: test$Latitude and test$Ag5km

t = 6.316, df = 99, p-value = 7.678e-09

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3803219 0.6620241

sample estimates:

cor

0.5359258

> cor.test(test$Latitude, test$Ag30km) #r is -0.055 #0.079

Pearson's product-moment correlation

data: test$Latitude and test$Ag30km

t = 7.4395, df = 99, p-value = 3.73e-11

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4568477 0.7110443

sample estimates:

cor

0.5988207

> cor.test(test$Latitude, test$Evergreen500m) #r is 0.076 #0.106

Pearson's product-moment correlation

data: test$Latitude and test$Evergreen500m

t = -2.8838, df = 99, p-value = 0.004821

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.44936402 -0.08770465

sample estimates:

cor

-0.2783724

> cor.test(test$Latitude, test$Evergreen1km) #r is 0.321 #0.248

Pearson's product-moment correlation

data: test$Latitude and test$Evergreen1km

t = -3.5928, df = 99, p-value = 0.0005116

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5017625 -0.1544406

sample estimates:

cor

-0.3396286

> cor.test(test$Latitude, test$Evergreen5km) #r is 0.235 #0.147

Pearson's product-moment correlation

data: test$Latitude and test$Evergreen5km

t = -9.9715, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.7935301 -0.5947091

sample estimates:

cor

-0.7078727

> cor.test(test$Latitude, test$Evergreen30km) #r is 0.270 #0.281

Pearson's product-moment correlation

data: test$Latitude and test$Evergreen30km

t = -3.5677, df = 99, p-value = 0.0005571

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.4999798 -0.1521168

sample estimates:

cor

-0.3375217

> cor.test(test$Latitude, test$Imperv500m) #r is -0.075 -0.099

Pearson's product-moment correlation

data: test$Latitude and test$Imperv500m

t = -0.047029, df = 99, p-value = 0.9626

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1999811 0.1908891

sample estimates:

cor

-0.004726539

> cor.test(test$Latitude, test$Imperv1km) #r is 0.078 0.072

Pearson's product-moment correlation

data: test$Latitude and test$Imperv1km

t = 2.1144, df = 99, p-value = 0.03699

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.01295031 0.38755830

sample estimates:

cor

0.2078635

> cor.test(test$Latitude, test$Imperv5km) #r is 0.125 0.098

Pearson's product-moment correlation

data: test$Latitude and test$Imperv5km

t = 1.5769, df = 99, p-value = 0.118

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.04013994 0.34151892

sample estimates:

cor

0.1565273

> cor.test(test$Latitude, test$Imperv30km) #r is -0.323 -0.329 #ish

Pearson's product-moment correlation

data: test$Latitude and test$Imperv30km

t = 0.87047, df = 99, p-value = 0.3861

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1101629 0.2778592

sample estimates:

cor

0.08715278

> cor.test(test$Latitude, test$Protected30km) #r is 0.073 -

Pearson's product-moment correlation

data: test$Latitude and test$Protected30km

t = -4.1049, df = 99, p-value = 8.323e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5368060 -0.2009144

sample estimates:

cor

-0.3813782

> cor.test(test$Latitude, test$HighDev500m) #r is -0.169

Pearson's product-moment correlation

data: test$Latitude and test$HighDev500m

t = 1.1694, df = 99, p-value = 0.2451

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.08055456 0.30519934

sample estimates:

cor

0.1167223

> cor.test(test$Latitude, test$HighDev1km) #r is 0.079

Pearson's product-moment correlation

data: test$Latitude and test$HighDev1km

t = 2.0839, df = 99, p-value = 0.03974

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.009955975 0.385010434

sample estimates:

cor

0.2049964

> cor.test(test$Latitude, test$HighDev5km) #r is 0.126

Pearson's product-moment correlation

data: test$Latitude and test$HighDev5km

t = 1.3843, df = 99, p-value = 0.1694

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.05923221 0.32450207

sample estimates:

cor

0.1378023

> cor.test(test$Latitude, test$HighDev30km) #r is 0.169

Pearson's product-moment correlation

data: test$Latitude and test$HighDev30km

t = -14.135, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8735489 -0.7406396

sample estimates:

cor

-0.8177146

> cor.test(test$Latitude, test$LowDev500m) #r is 0.179

Pearson's product-moment correlation

data: test$Latitude and test$LowDev500m

t = 2.0351, df = 99, p-value = 0.04452

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.005145121 0.380904893

sample estimates:

cor

0.2003829

> cor.test(test$Latitude, test$LowDev1km) #r is 0.168

Pearson's product-moment correlation

data: test$Latitude and test$LowDev1km

t = 3.6982, df = 99, p-value = 0.0003566

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1641335 0.5091667

sample estimates:

cor

0.3483968

> cor.test(test$Latitude, test$LowDev5km) #r is 0.151

Pearson's product-moment correlation

data: test$Latitude and test$LowDev5km

t = 3.5554, df = 99, p-value = 0.0005805

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1509859 0.4991112

sample estimates:

cor

0.3364957

> cor.test(test$Latitude, test$LowDev30km) #r is -0.340

Pearson's product-moment correlation

data: test$Latitude and test$LowDev30km

t = 0.3275, df = 99, p-value = 0.744

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1635937 0.2268779

sample estimates:

cor

0.03289735

> cor.test(test$Latitude, test$OpenDev500m) #r is 0.390 -0.300

Pearson's product-moment correlation

data: test$Latitude and test$OpenDev500m

t = 3.8932, df = 99, p-value = 0.0001796

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.1818970 0.5226047

sample estimates:

cor

0.3643825

> cor.test(test$Latitude, test$OpenDev1km) #r is 0.352 0.338

Pearson's product-moment correlation

data: test$Latitude and test$OpenDev1km

t = 4.5435, df = 99, p-value = 1.565e-05

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.2393715 0.5649539

sample estimates:

cor

0.4153783

> cor.test(test$Latitude, test$OpenDev5km) #r is 0.158

Pearson's product-moment correlation

data: test$Latitude and test$OpenDev5km

t = 5.9011, df = 99, p-value = 5.065e-08

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.3495193 0.6415883

sample estimates:

cor

0.5101128

> cor.test(test$Latitude, test$OpenDev30km) #r is -0.247

Pearson's product-moment correlation

data: test$Latitude and test$OpenDev30km

t = 7.212, df = 99, p-value = 1.12e-10

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

0.4421563 0.7018212

sample estimates:

cor

0.5868805

> cor.test(test$Latitude, test$Grass500m) #r is 0

Pearson's product-moment correlation

data: test$Latitude and test$Grass500m

t = 0.46372, df = 99, p-value = 0.6439

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1502510 0.2398127

sample estimates:

cor

0.0465554

> cor.test(test$Latitude, test$Grass1km) #r is -0.338 -0.339

Pearson's product-moment correlation

data: test$Latitude and test$Grass1km

t = -0.18834, df = 99, p-value = 0.851

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2135752 0.1771687

sample estimates:

cor

-0.01892592

> cor.test(test$Latitude, test$Grass5km) #r is -0.335 nah

Pearson's product-moment correlation

data: test$Latitude and test$Grass5km

t = -1.1311, df = 99, p-value = 0.2607

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30173412 0.08434532

sample estimates:

cor

-0.1129559

> cor.test(test$Latitude, test$Grass30km) #r is -0.237

Pearson's product-moment correlation

data: test$Latitude and test$Grass30km

t = 0.97188, df = 99, p-value = 0.3335

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1001266 0.2871976

sample estimates:

cor

0.097215

> cor.test(test$Latitude, test$Schrubs500m) #r is -0.135

Pearson's product-moment correlation

data: test$Latitude and test$Schrubs500m

t = 0.17316, df = 99, p-value = 0.8629

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1786460 0.2121187

sample estimates:

cor

0.01740077

> cor.test(test$Latitude, test$Schrubs1km) #r is -0.049

Pearson's product-moment correlation

data: test$Latitude and test$Schrubs1km

t = -0.33886, df = 99, p-value = 0.7354

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2279594 0.1624835

sample estimates:

cor

-0.03403657

> cor.test(test$Latitude, test$Schrubs5km) #r is 0.037 -

Pearson's product-moment correlation

data: test$Latitude and test$Schrubs5km

t = -2.2159, df = 99, p-value = 0.02899

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.39599317 -0.02291142

sample estimates:

cor

-0.2173773

> cor.test(test$Latitude, test$Schrubs30km) #r is -0.009 +

Pearson's product-moment correlation

data: test$Latitude and test$Schrubs30km

t = -10.731, df = 99, p-value < 2.2e-16

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.8123223 -0.6278424

sample estimates:

cor

-0.7333018

> cor.test(test$Latitude, test$Water500m) #r is 0.050

Pearson's product-moment correlation

data: test$Latitude and test$Water500m

t = -3.6948, df = 99, p-value = 0.0003608

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5089306 -0.1638233

sample estimates:

cor

-0.3481167

> cor.test(test$Latitude, test$Water1km) #r is 0.100

Pearson's product-moment correlation

data: test$Latitude and test$Water1km

t = -2.2632, df = 99, p-value = 0.02581

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.3998961 -0.0275458

sample estimates:

cor

-0.221791

> cor.test(test$Latitude, test$Water5km) #r is 0.170

Pearson's product-moment correlation

data: test$Latitude and test$Water5km

t = 0.87504, df = 99, p-value = 0.3837

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1097110 0.2782813

sample estimates:

cor

0.08760667

> cor.test(test$Latitude, test$Water30km) #r is -0.002

Pearson's product-moment correlation

data: test$Latitude and test$Water30km

t = -5.5516, df = 99, p-value = 2.376e-07

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6233254 -0.3225160

sample estimates:

cor

-0.4872432

> cor.test(test$Latitude, test$NSoilTypes) #r is -0.267

Pearson's product-moment correlation

data: test$Latitude and test$NSoilTypes

t = 0.21833, df = 99, p-value = 0.8276

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1742491 0.2164485

sample estimates:

cor

0.02193721

> cor.test(test$Latitude, test$FPSiteIndex) # r is -0.226

Pearson's product-moment correlation

data: test$Latitude and test$FPSiteIndex

t = -5.2394, df = 91, p-value = 1.034e-06

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.6239303 -0.3078950

sample estimates:

cor

-0.481409

> cor.test(test$Latitude, test$SiteIndexPrimaryS) # r is -0.203

Pearson's product-moment correlation

data: test$Latitude and test$SiteIndexPrimaryS

t = -3.9732, df = 91, p-value = 0.0001418

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.5454702 -0.1961384

sample estimates:

cor

-0.3844846

> cor.test(test$Latitude, test$PISoils) # r is 0.229

Pearson's product-moment correlation

data: test$Latitude and test$PISoils

t = 0.61923, df = 99, p-value = 0.5372

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.1349632 0.2544646

sample estimates:

cor

0.06211447

> cor.test(test$Latitude, test$SISoils) # r is 0.070 -

Pearson's product-moment correlation

data: test$Latitude and test$SISoils

t = -1.126, df = 99, p-value = 0.2629

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.30127197 0.08485005

sample estimates:

cor

-0.112454

> cor.test(test$Latitude, test$HydricSoils) # r is -0.130 +

Pearson's product-moment correlation

data: test$Latitude and test$HydricSoils

t = -0.48727, df = 99, p-value = 0.6271

alternative hypothesis: true correlation is not equal to 0

95 percent confidence interval:

-0.2420389 0.1479401

sample estimates:

cor

-0.0489134

|  |
| --- |
| > #Longitude by each ###IGNORE ALL NUMBERS IN GREEN  > #cor.test(test$Longitude, test$Treatment) #non-numeric  > cor.test(test$Longitude, test$Herbicide) #r is 0.164 #-0.010  Pearson's product-moment correlation  data: test$Longitude and test$Herbicide  t = 2.7466, df = 99, p-value = 0.007155  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.07452566 0.43871354  sample estimates:  cor  0.2660893  > cor.test(test$Longitude, test$LastB) #r is 0.164 #-0.010  Pearson's product-moment correlation  data: test$Longitude and test$LastB  t = 0.42722, df = 77, p-value = 0.6704  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1743561 0.2668700  sample estimates:  cor  0.04862907  > cor.test(test$Longitude, test$LastT) #r is -0.169 #-0.041  Pearson's product-moment correlation  data: test$Longitude and test$LastT  t = -0.55585, df = 94, p-value = 0.5796  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2547992 0.1449118  sample estimates:  cor  -0.05723709  > cor.test(test$Longitude, test$BA) #r is -0.173 #0.0.049  Pearson's product-moment correlation  data: test$Longitude and test$BA  t = -0.46541, df = 99, p-value = 0.6427  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2399726 0.1500851  sample estimates:  cor  -0.04672475  > cor.test(test$Longitude, test$Nsnags) #r is 0.007 #0.054  Pearson's product-moment correlation  data: test$Longitude and test$Nsnags  t = -2.8577, df = 99, p-value = 0.005202  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.44735679 -0.08521117  sample estimates:  cor  -0.2760532  > cor.test(test$Longitude, test$Ccover) #r is -0.209 #-0.090  Pearson's product-moment correlation  data: test$Longitude and test$Ccover  t = -0.38032, df = 99, p-value = 0.7045  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2319034 0.1584266  sample estimates:  cor  -0.0381953  > cor.test(test$Longitude, test$Ldepth) #r is -0.059 #-0.350  Pearson's product-moment correlation  data: test$Longitude and test$Ldepth  t = -3.0229, df = 99, p-value = 0.003188  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.4599992 -0.1009923  sample estimates:  cor  -0.2906939  > cor.test(test$Longitude, test$TreeHt) #r is -0.167 #-0.342 #ish  Pearson's product-moment correlation  data: test$Longitude and test$TreeHt  t = -2.3199, df = 99, p-value = 0.0224  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.40455188 -0.03309505  sample estimates:  cor  -0.2270656  > cor.test(test$Longitude, test$Age) #r is 0.102 #0.093  Pearson's product-moment correlation  data: test$Longitude and test$Age  t = 1.8468, df = 99, p-value = 0.06776  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.01342476 0.36491730  sample estimates:  cor  0.1824933  > cor.test(test$Longitude, test$Nburns) #r is 0.350 #high-ISH #0.295  Pearson's product-moment correlation  data: test$Longitude and test$Nburns  t = 2.4188, df = 99, p-value = 0.0174  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.04275189 0.41260819  sample estimates:  cor  0.2362175  > cor.test(test$Longitude, test$Nthins) #r is 0.101 #0.132  Pearson's product-moment correlation  data: test$Longitude and test$Nthins  t = 0.44731, df = 99, p-value = 0.6556  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1518613 0.2382589  sample estimates:  cor  0.04491095  > cor.test(test$Longitude, test$TimeSinceB) #r is -0.300 #-0.352 #ish  Pearson's product-moment correlation  data: test$Longitude and test$TimeSinceB  t = -3.4551, df = 99, p-value = 0.0008114  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.4919379 -0.1416816  sample estimates:  cor  -0.3280374  > cor.test(test$Longitude, test$TimeSinceT) #r is -0.064 #-0.145  Pearson's product-moment correlation  data: test$Longitude and test$TimeSinceT  t = -0.33624, df = 99, p-value = 0.7374  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2277099 0.1627397  sample estimates:  cor  -0.03377373  > cor.test(test$Longitude, test$HWdens\_10) #r is -0.137 #-0.190  Pearson's product-moment correlation  data: test$Longitude and test$HWdens\_10  t = 2.0191, df = 99, p-value = 0.04618  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.003569519 0.379557059  sample estimates:  cor  0.19887  > cor.test(test$Longitude, test$HWdens\_50) #r is -0.041 #-0.173  Pearson's product-moment correlation  data: test$Longitude and test$HWdens\_50  t = 3.2387, df = 99, p-value = 0.001635  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.1214219 0.4761522  sample estimates:  cor  0.3095161  > cor.test(test$Longitude, test$HWdens\_100) #r is -0.135 #-0.073  Pearson's product-moment correlation  data: test$Longitude and test$HWdens\_100  t = 4.1568, df = 99, p-value = 6.867e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.2055307 0.5402247  sample estimates:  cor  0.3854855  > cor.test(test$Longitude, test$FG\_herb) #r is 0.221 #0.066  Pearson's product-moment correlation  data: test$Longitude and test$FG\_herb  t = 2.739, df = 99, p-value = 0.007311  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.07379162 0.43811732  sample estimates:  cor  0.2654033  > cor.test(test$Longitude, test$FG\_shrub) #r is -0.038 #0.173  Pearson's product-moment correlation  data: test$Longitude and test$FG\_shrub  t = 1.2277, df = 99, p-value = 0.2225  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.07477322 0.31046459  sample estimates:  cor  0.1224556  > cor.test(test$Longitude, test$NHW\_saplings) #r is -0.205 #-0.319 #ish  Pearson's product-moment correlation  data: test$Longitude and test$NHW\_saplings  t = 1.0441, df = 99, p-value = 0.299  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.09296834 0.29381346  sample estimates:  cor  0.1043672  > cor.test(test$Longitude, test$NP\_over\_20cm) #r is -0.192 #0.207  Pearson's product-moment correlation  data: test$Longitude and test$NP\_over\_20cm  t = -0.58337, df = 99, p-value = 0.561  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2510970 0.1384935  sample estimates:  cor  -0.05853004  > cor.test(test$Longitude, test$Rel\_HW2P\_canopy) #r is -0.390 #highest but still not 0.5 #cool #-0.076  Pearson's product-moment correlation  data: test$Longitude and test$Rel\_HW2P\_canopy  t = 1.4153, df = 99, p-value = 0.1601  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.0561553 0.3272614  sample estimates:  cor  0.1408296  > cor.test(test$Longitude, test$Rel\_HW2P\_shrubcover) #r is -0.118 #-0.047  Pearson's product-moment correlation  data: test$Longitude and test$Rel\_HW2P\_shrubcover  t = 2.9058, df = 99, p-value = 0.00452  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.0898154 0.4510603  sample estimates:  cor  0.2803338  > cor.test(test$Longitude, test$LCR) #r is 0.006 #0.175  Pearson's product-moment correlation  data: test$Longitude and test$LCR  t = 0.83246, df = 98, p-value = 0.4072  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1145072 0.2756763  sample estimates:  cor  0.08379555  > cor.test(test$Longitude, test$HW\_dens\_1050) #r is -0.974 #-0.191  Pearson's product-moment correlation  data: test$Longitude and test$HW\_dens\_1050  t = 2.8162, df = 99, p-value = 0.005866  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.08122335 0.44413903  sample estimates:  cor  0.2723394  > cor.test(test$Longitude, test$HW\_shrub) #r is -0.366 #-0.244  Pearson's product-moment correlation  data: test$Longitude and test$HW\_shrub  t = 2.3721, df = 99, p-value = 0.01962  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.03819896 0.40881706  sample estimates:  cor  0.2319069  > cor.test(test$Longitude, test$Parea) #r is -0.277 #-0.245  Pearson's product-moment correlation  data: test$Longitude and test$Parea  t = -0.88854, df = 99, p-value = 0.3764  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2795278 0.1083755  sample estimates:  cor  -0.0889478  > cor.test(test$Longitude, test$ShapeIndex) #r is -0.260 #-0.308 #ish  Pearson's product-moment correlation  data: test$Longitude and test$ShapeIndex  t = -2.1017, df = 99, p-value = 0.03811  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.38650071 -0.01170658  sample estimates:  cor  -0.206673  > cor.test(test$Longitude, test$PAratio) #r is 0.169 #0.130  Pearson's product-moment correlation  data: test$Longitude and test$PAratio  t = 0.29762, df = 99, p-value = 0.7666  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1665140 0.2240285  sample estimates:  cor  0.0298983  > cor.test(test$Longitude, test$FracDimIndex) #r is -0.136 #-0.199  Pearson's product-moment correlation  data: test$Longitude and test$FracDimIndex  t = -1.466, df = 99, p-value = 0.1458  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.33175339 0.05113069  sample estimates:  cor  -0.1457652  > cor.test(test$Longitude, test$CoreAreaIndex) #r is -0.228 #0.151  Pearson's product-moment correlation  data: test$Longitude and test$CoreAreaIndex  t = -0.094102, df = 99, p-value = 0.9252  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2045184 0.1863265  sample estimates:  cor  -0.009457136  > cor.test(test$Longitude, test$Ag500m) #r is 0.062 #0.055  Pearson's product-moment correlation  data: test$Longitude and test$Ag500m  t = -1.7256, df = 99, p-value = 0.08754  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.35448052 0.02540811  sample estimates:  cor  -0.1708797  > cor.test(test$Longitude, test$Ag1km) #r is -0.074 #0.033  Pearson's product-moment correlation  data: test$Longitude and test$Ag1km  t = -2.1623, df = 99, p-value = 0.03301  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.39154954 -0.01765449  sample estimates:  cor  -0.212361  > cor.test(test$Longitude, test$Ag5km) #r is -0.085 #0.116  Pearson's product-moment correlation  data: test$Longitude and test$Ag5km  t = -2.4106, df = 99, p-value = 0.01777  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.41194118 -0.04194974  sample estimates:  cor  -0.2354586  > cor.test(test$Longitude, test$Ag30km) #r is -0.055 #0.079  Pearson's product-moment correlation  data: test$Longitude and test$Ag30km  t = -4.1765, df = 99, p-value = 6.379e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.5415202 -0.2072838  sample estimates:  cor  -0.3870434  > cor.test(test$Longitude, test$Evergreen500m) #r is 0.076 #0.106  Pearson's product-moment correlation  data: test$Longitude and test$Evergreen500m  t = 3.1243, df = 99, p-value = 0.002339  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.1106168 0.4676387  sample estimates:  cor  0.2995795  > cor.test(test$Longitude, test$Evergreen1km) #r is 0.321 #0.248  Pearson's product-moment correlation  data: test$Longitude and test$Evergreen1km  t = 4.4296, df = 99, p-value = 2.438e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.2295126 0.5578094  sample estimates:  cor  0.4067086  > cor.test(test$Longitude, test$Evergreen5km) #r is 0.235 #0.147  Pearson's product-moment correlation  data: test$Longitude and test$Evergreen5km  t = 4.1124, df = 99, p-value = 8.095e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.2015838 0.5373024  sample estimates:  cor  0.3819743  > cor.test(test$Longitude, test$Evergreen30km) #r is 0.270 #0.281  Pearson's product-moment correlation  data: test$Longitude and test$Evergreen30km  t = 7.6767, df = 99, p-value = 1.175e-11  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.4717357 0.7203023  sample estimates:  cor  0.6108566  > cor.test(test$Longitude, test$Imperv500m) #r is -0.075 -0.099  Pearson's product-moment correlation  data: test$Longitude and test$Imperv500m  t = -0.25871, df = 99, p-value = 0.7964  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2203128 0.1703118  sample estimates:  cor  -0.02599268  > cor.test(test$Longitude, test$Imperv1km) #r is 0.078 0.072  Pearson's product-moment correlation  data: test$Longitude and test$Imperv1km  t = -2.611, df = 99, p-value = 0.01043  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.4280315 -0.0614342  sample estimates:  cor  -0.2538259  > cor.test(test$Longitude, test$Imperv5km) #r is 0.125 0.098  Pearson's product-moment correlation  data: test$Longitude and test$Imperv5km  t = -3.6428, df = 99, p-value = 0.0004315  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.5052859 -0.1590448  sample estimates:  cor  -0.3437976  > cor.test(test$Longitude, test$Imperv30km) #r is -0.323 -0.329 #ish  Pearson's product-moment correlation  data: test$Longitude and test$Imperv30km  t = -2.2058, df = 99, p-value = 0.02971  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.39516260 -0.02192726  sample estimates:  cor  -0.216439  > cor.test(test$Longitude, test$Protected30km) #r is 0.073 -  Pearson's product-moment correlation  data: test$Longitude and test$Protected30km  t = 0.41051, df = 99, p-value = 0.6823  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1554693 0.2347703  sample estimates:  cor  0.04122249  > cor.test(test$Longitude, test$HighDev500m) #r is -0.169  Pearson's product-moment correlation  data: test$Longitude and test$HighDev500m  t = -0.65089, df = 99, p-value = 0.5166  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2574328 0.1318435  sample estimates:  cor  -0.06527781  > cor.test(test$Longitude, test$HighDev1km) #r is 0.079  Pearson's product-moment correlation  data: test$Longitude and test$HighDev1km  t = -2.8495, df = 99, p-value = 0.005328  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.44671703 -0.08441738  sample estimates:  cor  -0.2753144  > cor.test(test$Longitude, test$HighDev5km) #r is 0.126  Pearson's product-moment correlation  data: test$Longitude and test$HighDev5km  t = -3.5955, df = 99, p-value = 0.000507  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.5019498 -0.1546849  sample estimates:  cor  -0.33985  > cor.test(test$Longitude, test$HighDev30km) #r is 0.169  Pearson's product-moment correlation  data: test$Longitude and test$HighDev30km  t = 4.6061, df = 99, p-value = 1.222e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.2447587 0.5688374  sample estimates:  cor  0.4201022  > cor.test(test$Longitude, test$LowDev500m) #r is 0.179  Pearson's product-moment correlation  data: test$Longitude and test$LowDev500m  t = -0.096525, df = 99, p-value = 0.9233  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2047518 0.1860914  sample estimates:  cor  -0.00970068  > cor.test(test$Longitude, test$LowDev1km) #r is 0.168  Pearson's product-moment correlation  data: test$Longitude and test$LowDev1km  t = -1.0439, df = 99, p-value = 0.2991  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.29379029 0.09299348  sample estimates:  cor  -0.1043422  > cor.test(test$Longitude, test$LowDev5km) #r is 0.151  Pearson's product-moment correlation  data: test$Longitude and test$LowDev5km  t = -3.3628, df = 99, p-value = 0.001098  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.4852557 -0.1330695  sample estimates:  cor  -0.3201818  > cor.test(test$Longitude, test$LowDev30km) #r is -0.340  Pearson's product-moment correlation  data: test$Longitude and test$LowDev30km  t = -2.4857, df = 99, p-value = 0.0146  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.41801456 -0.04927132  sample estimates:  cor  -0.2423766  > cor.test(test$Longitude, test$OpenDev500m) #r is 0.390 -0.300  Pearson's product-moment correlation  data: test$Longitude and test$OpenDev500m  t = -1.4132, df = 99, p-value = 0.1607  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.32706929 0.05636977  sample estimates:  cor  -0.1406187  > cor.test(test$Longitude, test$OpenDev1km) #r is 0.352 0.338  Pearson's product-moment correlation  data: test$Longitude and test$OpenDev1km  t = -1.6277, df = 99, p-value = 0.1068  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.34597025 0.03509932  sample estimates:  cor  -0.1614474  > cor.test(test$Longitude, test$OpenDev5km) #r is 0.158  Pearson's product-moment correlation  data: test$Longitude and test$OpenDev5km  t = -2.5071, df = 99, p-value = 0.0138  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.41973042 -0.05134703  sample estimates:  cor  -0.2443343  > cor.test(test$Longitude, test$OpenDev30km) #r is -0.247  Pearson's product-moment correlation  data: test$Longitude and test$OpenDev30km  t = -4.9495, df = 99, p-value = 3.056e-06  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.5895088 -0.2737752  sample estimates:  cor  -0.4453836  > cor.test(test$Longitude, test$Grass500m) #r is 0  Pearson's product-moment correlation  data: test$Longitude and test$Grass500m  t = -0.016613, df = 99, p-value = 0.9868  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1970446 0.1938329  sample estimates:  cor  -0.001669662  > cor.test(test$Longitude, test$Grass1km) #r is -0.338 -0.339  Pearson's product-moment correlation  data: test$Longitude and test$Grass1km  t = -2.0858, df = 99, p-value = 0.03957  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.38516669 -0.01013942  sample estimates:  cor  -0.2051721  > cor.test(test$Longitude, test$Grass5km) #r is -0.335 nah  Pearson's product-moment correlation  data: test$Longitude and test$Grass5km  t = -0.7313, df = 99, p-value = 0.4663  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2649445 0.1239136  sample estimates:  cor  -0.07330084  > cor.test(test$Longitude, test$Grass30km) #r is -0.237  Pearson's product-moment correlation  data: test$Longitude and test$Grass30km  t = -0.0036999, df = 99, p-value = 0.9971  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1957969 0.1950816  sample estimates:  cor  -0.0003718551  > cor.test(test$Longitude, test$Schrubs500m) #r is -0.135  Pearson's product-moment correlation  data: test$Longitude and test$Schrubs500m  t = -0.12758, df = 99, p-value = 0.8987  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.2077402 0.1830766  sample estimates:  cor  -0.01282145  > cor.test(test$Longitude, test$Schrubs1km) #r is -0.049  Pearson's product-moment correlation  data: test$Longitude and test$Schrubs1km  t = 0.33719, df = 99, p-value = 0.7367  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1626467 0.2278005  sample estimates:  cor  0.03386915  > cor.test(test$Longitude, test$Schrubs5km) #r is 0.037 -  Pearson's product-moment correlation  data: test$Longitude and test$Schrubs5km  t = 0.68159, df = 99, p-value = 0.4971  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1288172 0.2603051  sample estimates:  cor  0.06834264  > cor.test(test$Longitude, test$Schrubs30km) #r is -0.009 +  Pearson's product-moment correlation  data: test$Longitude and test$Schrubs30km  t = 4.2847, df = 99, p-value = 4.246e-05  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.2168402 0.5485540  sample estimates:  cor  0.3955178  > cor.test(test$Longitude, test$Water500m) #r is 0.050  Pearson's product-moment correlation  data: test$Longitude and test$Water500m  t = 2.9919, df = 99, p-value = 0.003499  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.09804138 0.45764622  sample estimates:  cor  0.2879629  > cor.test(test$Longitude, test$Water1km) #r is 0.100  Pearson's product-moment correlation  data: test$Longitude and test$Water1km  t = 2.1754, df = 99, p-value = 0.03198  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  0.01894006 0.39263783  sample estimates:  cor  0.2135887  > cor.test(test$Longitude, test$Water5km) #r is 0.170  Pearson's product-moment correlation  data: test$Longitude and test$Water5km  t = 0.90588, df = 99, p-value = 0.3672  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.1066599 0.2811270  sample estimates:  cor  0.09066938  > cor.test(test$Longitude, test$Water30km) #r is -0.002  Pearson's product-moment correlation  data: test$Longitude and test$Water30km  t = -2.7911, df = 99, p-value = 0.006304  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.44218670 -0.07880944  sample estimates:  cor  -0.2700887  > cor.test(test$Longitude, test$NSoilTypes) #r is -0.267  Pearson's product-moment correlation  data: test$Longitude and test$NSoilTypes  t = 0.55934, df = 99, p-value = 0.5772  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.140857 0.248837  sample estimates:  cor  0.05612736  > cor.test(test$Longitude, test$FPSiteIndex) # r is -0.226  Pearson's product-moment correlation  data: test$Longitude and test$FPSiteIndex  t = -2.0055, df = 91, p-value = 0.04788  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.39297587 -0.00211786  sample estimates:  cor  -0.2057374  > cor.test(test$Longitude, test$SiteIndexPrimaryS) # r is -0.203  Pearson's product-moment correlation  data: test$Longitude and test$SiteIndexPrimaryS  t = -1.4481, df = 91, p-value = 0.151  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.34329593 0.05531615  sample estimates:  cor  -0.1500833  > cor.test(test$Longitude, test$PISoils) # r is 0.229  Pearson's product-moment correlation  data: test$Longitude and test$PISoils  t = -1.2641, df = 99, p-value = 0.2092  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.31374072 0.07116286  sample estimates:  cor  -0.1260292  > cor.test(test$Longitude, test$SISoils) # r is 0.070 -  Pearson's product-moment correlation  data: test$Longitude and test$SISoils  t = -0.99197, df = 99, p-value = 0.3236  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.28904057 0.09813659  sample estimates:  cor  -0.09920541  > cor.test(test$Longitude, test$HydricSoils) # r is -0.130 +  Pearson's product-moment correlation  data: test$Longitude and test$HydricSoils  t = 1.7131, df = 99, p-value = 0.08982  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.02664336 0.35339927  sample estimates:  cor  0.1696794  > cor.test(test$Longitude, test$Latitude) # r is -0.130 +  Pearson's product-moment correlation  data: test$Longitude and test$Latitude  t = -2.137, df = 99, p-value = 0.03506  alternative hypothesis: true correlation is not equal to 0  95 percent confidence interval:  -0.38944705 -0.01517438  sample estimates:  cor  -0.2099909 |
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