**BCF (**natural log transformed)

> logbcf3 <- aov(lbcf ~ Soil\_Good$Chem \* Soil\_Good$Hab, data=Soil\_Good)

> summary(logbcf3)

Df Sum Sq Mean Sq F value Pr(>F)

Soil\_Good$Chem 4 148.00 37.00 83.936 < 2e-16 \*\*\* by pesticide

Soil\_Good$Hab 2 9.57 4.78 10.855 4.74e-05 \*\*\* by Habitat Factor

Soil\_Good$Chem:Soil\_Good$Hab 7 12.01 1.72 3.891 0.00076 \*\*\* interaction term

Residuals 117 51.57 0.44

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> TukeyHSD(logbcf3, conf.level=0.95)

Tukey multiple comparisons of means

95% family-wise confidence level

*BCF Contrasts*

Fit: aov(formula = lbcf ~ Soil\_Good$Chem \* Soil\_Good$Hab, data = Soil\_Good)

$`Soil\_Good$Chem`

diff lwr upr p adj

Pendimethalin-Imidacloprid -2.1044905 -2.6302020 -1.5787790 0.0000000

Total Atrazine-Imidacloprid 1.2104120 0.6847004 1.7361235 0.0000000

Total Fipronil-Imidacloprid 0.3135705 -0.2121410 0.8392821 0.4672126

Total Triadimefon-Imidacloprid -0.6392053 -1.1238703 -0.1545403 0.0034976

Total Atrazine-Pendimethalin 3.3149025 2.7838536 3.8459513 0.0000000

Total Fipronil-Pendimethalin 2.4180610 1.8870122 2.9491099 0.0000000

Total Triadimefon-Pendimethalin 1.4652852 0.9748360 1.9557344 0.0000000

Total Fipronil-Total Atrazine -0.8968414 -1.4278902 -0.3657926 0.0000755

Total Triadimefon-Total Atrazine -1.8496173 -2.3400664 -1.3591681 0.0000000

Total Triadimefon-Total Fipronil -0.9527758 -1.4432250 -0.4623267 0.0000038

$`Soil\_Good$Hab`

diff lwr upr p adj

Arboreal-Aquatic -0.07198712 -0.4584375 0.3144632 0.8979271

Terrestrial-Aquatic 0.57897800 0.1305399 1.0274161 0.0075644

Terrestrial-Arboreal 0.65096512 0.3135392 0.9883910 0.0000347

$`Soil\_Good$Chem:Soil\_Good$Hab`

diff lwr upr

Pendimethalin:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 2.84582723 1.21902377 4.472630688

Total Fipronil:Aquatic-Pendimethalin:Aquatic 2.47005758 0.84325412 4.096861037

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 1.49829534 0.11577824 2.880812438

Imidacloprid:Arboreal-Pendimethalin:Aquatic 2.02618078 0.76606424 3.286297323

Pendimethalin:Arboreal-Pendimethalin:Aquatic -0.44871183 -1.74335850 0.845934849

Total Atrazine:Arboreal-Pendimethalin:Aquatic 3.30212150 2.00747482 4.596768173

Total Fipronil:Arboreal-Pendimethalin:Aquatic 2.16273282 0.86808615 3.457379501

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 1.55434063 0.25969395 2.848987307

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 2.53439153 0.99107026 4.077712803

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 1.45813109 -0.08519018 3.001452361

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 3.84050118 2.29717991 5.383822452

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 3.25444410 1.71112283 4.797765374

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 1.38132318 0.02024175 2.742404606

Total Fipronil:Aquatic-Total Atrazine:Aquatic -0.37576965 -2.00257311 1.251033809

Total Triadimefon:Aquatic-Total Atrazine:Aquatic -1.34753189 -2.73004899 0.034985210

Imidacloprid:Arboreal-Total Atrazine:Aquatic -0.81964645 -2.07976299 0.440470095

Pendimethalin:Arboreal-Total Atrazine:Aquatic -3.29453905 -4.58918573 -1.999892379

Total Atrazine:Arboreal-Total Atrazine:Aquatic 0.45629427 -0.83835241 1.750940945

Total Fipronil:Arboreal-Total Atrazine:Aquatic -0.68309440 -1.97774108 0.611552273

Total Triadimefon:Arboreal-Total Atrazine:Aquatic -1.29148660 -2.58613327 0.003160079

Imidacloprid:Terrestrial-Total Atrazine:Aquatic -0.31143570 -1.85475697 1.231885575

Pendimethalin:Terrestrial-Total Atrazine:Aquatic -1.38769614 -2.93101741 0.155625133

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.99467395 -0.54864732 2.537995224

Total Fipronil:Terrestrial-Total Atrazine:Aquatic 0.40861687 -1.13470440 1.951938146

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic -1.46450405 -2.82558547 -0.103422622

Total Triadimefon:Aquatic-Total Fipronil:Aquatic -0.97176224 -2.35427933 0.410754862

Imidacloprid:Arboreal-Total Fipronil:Aquatic -0.44387680 -1.70399334 0.816239747

Pendimethalin:Arboreal-Total Fipronil:Aquatic -2.91876940 -4.21341608 -1.624122727

Total Atrazine:Arboreal-Total Fipronil:Aquatic 0.83206392 -0.46258276 2.126710597

Total Fipronil:Arboreal-Total Fipronil:Aquatic -0.30732475 -1.60197143 0.987321925

Total Triadimefon:Arboreal-Total Fipronil:Aquatic -0.91571695 -2.21036362 0.378929731

Imidacloprid:Terrestrial-Total Fipronil:Aquatic 0.06433395 -1.47898732 1.607655226

Pendimethalin:Terrestrial-Total Fipronil:Aquatic -1.01192649 -2.55524776 0.531394785

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 1.37044360 -0.17287767 2.913764875

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.78438653 -0.75893475 2.327707798

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic -1.08873440 -2.44981582 0.272347029

Imidacloprid:Arboreal-Total Triadimefon:Aquatic 0.52788544 -0.39556338 1.451334264

Pendimethalin:Arboreal-Total Triadimefon:Aquatic -1.94700717 -2.91704533 -0.976969000

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 1.80382616 0.83378799 2.773864324

Total Fipronil:Arboreal-Total Triadimefon:Aquatic 0.66443749 -0.30560068 1.634475651

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic 0.05604529 -0.91399287 1.026083458

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic 1.03609619 -0.24714368 2.319336066

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic -0.04016425 -1.32340413 1.243075625

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 2.34220584 1.05896596 3.625445715

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 1.75614876 0.47290889 3.039388638

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic -0.11697216 -1.17404674 0.940102424

Pendimethalin:Arboreal-Imidacloprid:Arboreal -2.47489261 -3.26071334 -1.689071880

Total Atrazine:Arboreal-Imidacloprid:Arboreal 1.27594072 0.49011999 2.061761444

Total Fipronil:Arboreal-Imidacloprid:Arboreal 0.13655204 -0.64926868 0.922372772

Total Triadimefon:Arboreal-Imidacloprid:Arboreal -0.47184015 -1.25766088 0.313980578

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 0.50821075 -0.64211301 1.658534508

Pendimethalin:Terrestrial-Imidacloprid:Arboreal -0.56804969 -1.71837345 0.582274067

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 1.81432040 0.66399664 2.964644157

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 1.22826332 0.07793956 2.378587080

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal -0.64485760 -1.53589455 0.246179350

Total Atrazine:Arboreal-Pendimethalin:Arboreal 3.75083332 2.91075563 4.590911019

Total Fipronil:Arboreal-Pendimethalin:Arboreal 2.61144465 1.77136696 3.451522346

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 2.00305246 1.16297476 2.843130153

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 2.98310336 1.79505409 4.171152627

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 1.90684292 0.71879365 3.094892185

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 4.28921301 3.10116374 5.477262275

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 3.70315593 2.51510666 4.891205198

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 1.83003501 0.89079959 2.769270422

Total Fipronil:Arboreal-Total Atrazine:Arboreal -1.13938867 -1.97946637 -0.299310978

Total Triadimefon:Arboreal-Total Atrazine:Arboreal -1.74778087 -2.58785856 -0.907703172

Imidacloprid:Terrestrial-Total Atrazine:Arboreal -0.76772997 -1.95577924 0.420319303

Pendimethalin:Terrestrial-Total Atrazine:Arboreal -1.84399041 -3.03203968 -0.655941139

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.53837968 -0.64966959 1.726428951

Total Fipronil:Terrestrial-Total Atrazine:Arboreal -0.04767740 -1.23572666 1.140371874

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal -1.92079832 -2.86003373 -0.981562902

Total Triadimefon:Arboreal-Total Fipronil:Arboreal -0.60839219 -1.44846989 0.231685501

Imidacloprid:Terrestrial-Total Fipronil:Arboreal 0.37165871 -0.81639056 1.559707975

Pendimethalin:Terrestrial-Total Fipronil:Arboreal -0.70460174 -1.89265100 0.483447533

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 1.67776835 0.48971909 2.865817624

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 1.09171128 -0.09633799 2.279760546

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal -0.78140965 -1.72064506 0.157825770

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal 0.98005090 -0.20799837 2.168100169

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal -0.09620954 -1.28425881 1.091839727

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 2.28616055 1.09811128 3.474209818

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 1.70010347 0.51205420 2.888152740

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal -0.17301745 -1.11225287 0.766217964

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial -1.07626044 -2.53131769 0.378796808

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 1.30610965 -0.14894760 2.761166898

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 0.72005257 -0.73500468 2.175109821

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial -1.15306835 -2.41318489 0.107048191

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 2.38237009 0.92731284 3.837427340

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 1.79631301 0.34125576 3.251370262

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial -0.07680791 -1.33692445 1.183308632

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial -0.58605708 -2.04111433 0.869000172

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial -2.45917800 -3.71929454 -1.199061458

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial -1.87312092 -3.13323746 -0.613004381

p adj

Pendimethalin:Aquatic-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 0.0000017

Total Fipronil:Aquatic-Pendimethalin:Aquatic 0.0000647

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 0.0205587

Imidacloprid:Arboreal-Pendimethalin:Aquatic 0.0000165

Pendimethalin:Arboreal-Pendimethalin:Aquatic 0.9968078

Total Atrazine:Arboreal-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Aquatic 0.0000062

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 0.0051825

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 0.0000096

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 0.0853199

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 0.0000000

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 0.0429834

Total Fipronil:Aquatic-Total Atrazine:Aquatic 0.9999680

Total Triadimefon:Aquatic-Total Atrazine:Aquatic 0.0642234

Imidacloprid:Arboreal-Total Atrazine:Aquatic 0.6258484

Pendimethalin:Arboreal-Total Atrazine:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Atrazine:Aquatic 0.9962125

Total Fipronil:Arboreal-Total Atrazine:Aquatic 0.8816115

Total Triadimefon:Arboreal-Total Atrazine:Aquatic 0.0512418

Imidacloprid:Terrestrial-Total Atrazine:Aquatic 0.9999940

Pendimethalin:Terrestrial-Total Atrazine:Aquatic 0.1282908

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.6405926

Total Fipronil:Terrestrial-Total Atrazine:Aquatic 0.9998362

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic 0.0224058

Total Triadimefon:Aquatic-Total Fipronil:Aquatic 0.4943122

Imidacloprid:Arboreal-Total Fipronil:Aquatic 0.9962338

Pendimethalin:Arboreal-Total Fipronil:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Fipronil:Aquatic 0.6450463

Total Fipronil:Arboreal-Total Fipronil:Aquatic 0.9999554

Total Triadimefon:Arboreal-Total Fipronil:Aquatic 0.4833688

Imidacloprid:Terrestrial-Total Fipronil:Aquatic 1.0000000

Pendimethalin:Terrestrial-Total Fipronil:Aquatic 0.6128157

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 0.1410692

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.9083605

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic 0.2770052

Imidacloprid:Arboreal-Total Triadimefon:Aquatic 0.8051918

Pendimethalin:Arboreal-Total Triadimefon:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 0.0000003

Total Fipronil:Arboreal-Total Triadimefon:Aquatic 0.5391872

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic 1.0000000

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic 0.2629205

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic 1.0000000

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 0.0000005

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 0.0005653

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic 1.0000000

Pendimethalin:Arboreal-Imidacloprid:Arboreal 0.0000000

Total Atrazine:Arboreal-Imidacloprid:Arboreal 0.0000129

Total Fipronil:Arboreal-Imidacloprid:Arboreal 0.9999991

Total Triadimefon:Arboreal-Imidacloprid:Arboreal 0.7446706

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 0.9689580

Pendimethalin:Terrestrial-Imidacloprid:Arboreal 0.9254854

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 0.0000264

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 0.0245274

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal 0.4432951

Total Atrazine:Arboreal-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Arboreal 0.0000000

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 0.0000000

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 0.0000000

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 0.0000172

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 0.0000001

Total Fipronil:Arboreal-Total Atrazine:Arboreal 0.0006698

Total Triadimefon:Arboreal-Total Atrazine:Arboreal 0.0000000

Imidacloprid:Terrestrial-Total Atrazine:Arboreal 0.6363708

Pendimethalin:Terrestrial-Total Atrazine:Arboreal 0.0000388

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.9617021

Total Fipronil:Terrestrial-Total Atrazine:Arboreal 1.0000000

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal 0.0000000

Total Triadimefon:Arboreal-Total Fipronil:Arboreal 0.4421060

Imidacloprid:Terrestrial-Total Fipronil:Arboreal 0.9989202

Pendimethalin:Terrestrial-Total Fipronil:Arboreal 0.7608398

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 0.0003055

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 0.1079564

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal 0.2200765

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal 0.2318423

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal 1.0000000

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 0.0000001

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 0.0002334

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal 0.9999981

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial 0.4054497

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 0.1299817

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 0.9243239

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial 0.1117152

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 0.0000104

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 0.0033813

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial 1.0000000

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial 0.9862239

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial 0.0000001

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial 0.0001039

**TISSUE CONCENTRATION** (log transformed)

> lTC <- log(TC)

> TC2 <- aov(lTC ~ Soil\_Good$Chem \* Soil\_Good$Hab, data=Soil\_Good)

> summary(TC2)

Df Sum Sq Mean Sq F value Pr(>F)

Soil\_Good$Chem 4 195.39 48.85 101.849 < 2e-16 \*\*\* by pesticide

Soil\_Good$Hab 2 11.41 5.70 11.891 1.99e-05 \*\*\* by Habitat Factor

Soil\_Good$Chem:Soil\_Good$Hab 7 11.85 1.69 3.528 0.00179 \*\* Interaction Term

Residuals 117 56.12 0.48

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> bartlett.test(lTC, Soil\_Good$Hab.f)

Bartlett test of homogeneity of variances

data: lTC and Soil\_Good$Hab.f

Bartlett's K-squared = 0.4983, df = 2, p-value = 0.7795

> shapiro.test(lTC)

Shapiro-Wilk normality test

data: lTC

W = 0.9437, p-value = 3.582e-05

> TukeyHSD(TC2, conf.level=0.95)

Tukey multiple comparisons of means

95% family-wise confidence level

Fit: aov(formula = lTC ~ Soil\_Good$Chem \* Soil\_Good$Hab, data = Soil\_Good)

*Tissue Concentration Contrasts*

$`Soil\_Good$Chem`

diff lwr upr p adj

Pendimethalin-Imidacloprid -0.3665756 -0.91494509 0.1817939 0.3490404

Total Atrazine-Imidacloprid 3.2247754 2.67640590 3.7731448 0.0000000

Total Fipronil-Imidacloprid 0.5851012 0.03673171 1.1334707 0.0303041

Total Triadimefon-Imidacloprid 0.4163091 -0.08924469 0.9218629 0.1582272

Total Atrazine-Pendimethalin 3.5913510 3.03741417 4.1452878 0.0000000

Total Fipronil-Pendimethalin 0.9516768 0.39773998 1.5056136 0.0000542

Total Triadimefon-Pendimethalin 0.7828847 0.27129742 1.2944721 0.0004255

Total Fipronil-Total Atrazine -2.6396742 -3.19361101 -2.0857374 0.0000000

Total Triadimefon-Total Atrazine -2.8084662 -3.32005357 -2.2968789 0.0000000

Total Triadimefon-Total Fipronil -0.1687921 -0.68037937 0.3427953 0.8909401

$`Soil\_Good$Hab`

diff lwr upr p adj

Arboreal-Aquatic -0.3399381 -0.7430444 0.06316808 0.1162462

Terrestrial-Aquatic 0.3573704 -0.1103951 0.82513602 0.1695838

Terrestrial-Arboreal 0.6973086 0.3453398 1.04927738 0.0000210

$`Soil\_Good$Chem:Soil\_Good$Hab`

diff lwr upr

Pendimethalin:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 3.048766141 1.351848114 4.74568417

Total Fipronil:Aquatic-Pendimethalin:Aquatic 0.753094814 -0.943823213 2.45001284

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 0.758041817 -0.684061205 2.20014484

Imidacloprid:Arboreal-Pendimethalin:Aquatic 0.017954948 -1.296472104 1.33238200

Pendimethalin:Arboreal-Pendimethalin:Aquatic -0.815787817 -2.166233237 0.53465760

Total Atrazine:Arboreal-Pendimethalin:Aquatic 3.218910257 1.868464836 4.56935568

Total Fipronil:Arboreal-Pendimethalin:Aquatic 0.343767752 -1.006677669 1.69421317

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 0.421131266 -0.929314154 1.77157669

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 0.373174007 -1.236663784 1.98301180

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 1.114994549 -0.494843242 2.72483234

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 3.810372164 2.200534374 5.42020995

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 1.601900607 -0.007937183 3.21173840

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 0.404112278 -1.015631203 1.82385576

Total Fipronil:Aquatic-Total Atrazine:Aquatic -2.295671327 -3.992589354 -0.59875330

Total Triadimefon:Aquatic-Total Atrazine:Aquatic -2.290724323 -3.732827345 -0.84862130

Imidacloprid:Arboreal-Total Atrazine:Aquatic -3.030811193 -4.345238245 -1.71638414

Pendimethalin:Arboreal-Total Atrazine:Aquatic -3.864553958 -5.214999378 -2.51410854

Total Atrazine:Arboreal-Total Atrazine:Aquatic 0.170144116 -1.180301304 1.52058954

Total Fipronil:Arboreal-Total Atrazine:Aquatic -2.704998389 -4.055443809 -1.35455297

Total Triadimefon:Arboreal-Total Atrazine:Aquatic -2.627634875 -3.978080295 -1.27718945

Imidacloprid:Terrestrial-Total Atrazine:Aquatic -2.675592134 -4.285429925 -1.06575434

Pendimethalin:Terrestrial-Total Atrazine:Aquatic -1.933771592 -3.543609383 -0.32393380

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.761606023 -0.848231767 2.37144381

Total Fipronil:Terrestrial-Total Atrazine:Aquatic -1.446865534 -3.056703324 0.16297226

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic -2.644653863 -4.064397344 -1.22491038

Total Triadimefon:Aquatic-Total Fipronil:Aquatic 0.004947004 -1.437156018 1.44705003

Imidacloprid:Arboreal-Total Fipronil:Aquatic -0.735139866 -2.049566918 0.57928719

Pendimethalin:Arboreal-Total Fipronil:Aquatic -1.568882631 -2.919328051 -0.21843721

Total Atrazine:Arboreal-Total Fipronil:Aquatic 2.465815443 1.115370023 3.81626086

Total Fipronil:Arboreal-Total Fipronil:Aquatic -0.409327062 -1.759772482 0.94111836

Total Triadimefon:Arboreal-Total Fipronil:Aquatic -0.331963548 -1.682408968 1.01848187

Imidacloprid:Terrestrial-Total Fipronil:Aquatic -0.379920807 -1.989758597 1.22991698

Pendimethalin:Terrestrial-Total Fipronil:Aquatic 0.361899735 -1.247938055 1.97173753

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 3.057277350 1.447439560 4.66711514

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.848805794 -0.761031997 2.45864358

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic -0.348982535 -1.768726017 1.07076095

Imidacloprid:Arboreal-Total Triadimefon:Aquatic -0.740086870 -1.703335960 0.22316222

Pendimethalin:Arboreal-Total Triadimefon:Aquatic -1.573829634 -2.585676050 -0.56198322

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 2.460868439 1.449022023 3.47271486

Total Fipronil:Arboreal-Total Triadimefon:Aquatic -0.414274066 -1.426120482 0.59757235

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic -0.336910551 -1.348756967 0.67493586

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic -0.384867811 -1.723414802 0.95367918

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic 0.356952731 -0.981594260 1.69549972

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 3.052330347 1.713783356 4.39087734

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 0.843858790 -0.494688201 2.18240578

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic -0.353929539 -1.456563608 0.74870453

Pendimethalin:Arboreal-Imidacloprid:Arboreal -0.833742764 -1.653432046 -0.01405348

Total Atrazine:Arboreal-Imidacloprid:Arboreal 3.200955309 2.381266028 4.02064459

Total Fipronil:Arboreal-Imidacloprid:Arboreal 0.325812804 -0.493876477 1.14550209

Total Triadimefon:Arboreal-Imidacloprid:Arboreal 0.403176319 -0.416512963 1.22286560

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 0.355219059 -0.844683185 1.55512130

Pendimethalin:Terrestrial-Imidacloprid:Arboreal 1.097039601 -0.102862643 2.29694184

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 3.792417216 2.592514973 4.99231946

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 1.583945660 0.384043416 2.78384790

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal 0.386157331 -0.543282951 1.31559761

Total Atrazine:Arboreal-Pendimethalin:Arboreal 4.034698074 3.158413373 4.91098277

Total Fipronil:Arboreal-Pendimethalin:Arboreal 1.159555569 0.283270868 2.03584027

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 1.236919083 0.360634382 2.11320378

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 1.188961823 -0.050291885 2.42821553

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 1.930782365 0.691528657 3.17003607

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 4.626159981 3.386906272 5.86541369

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 2.417688424 1.178434715 3.65694213

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 1.219900095 0.240184016 2.19961617

Total Fipronil:Arboreal-Total Atrazine:Arboreal -2.875142505 -3.751427206 -1.99885780

Total Triadimefon:Arboreal-Total Atrazine:Arboreal -2.797778991 -3.674063692 -1.92149429

Imidacloprid:Terrestrial-Total Atrazine:Arboreal -2.845736250 -4.084989959 -1.60648254

Pendimethalin:Terrestrial-Total Atrazine:Arboreal -2.103915708 -3.343169417 -0.86466200

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.591461907 -0.647791802 1.83071562

Total Fipronil:Terrestrial-Total Atrazine:Arboreal -1.617009650 -2.856263358 -0.37775594

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal -2.814797978 -3.794514058 -1.83508190

Total Triadimefon:Arboreal-Total Fipronil:Arboreal 0.077363514 -0.798921187 0.95364822

Imidacloprid:Terrestrial-Total Fipronil:Arboreal 0.029406255 -1.209847454 1.26865996

Pendimethalin:Terrestrial-Total Fipronil:Arboreal 0.771226797 -0.468026912 2.01048051

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 3.466604412 2.227350703 4.70585812

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 1.258132855 0.018879147 2.49738656

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal 0.060344527 -0.919371553 1.04006061

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal -0.047957259 -1.287210968 1.19129645

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal 0.693863283 -0.545390426 1.93311699

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 3.389240898 2.149987189 4.62849461

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 1.180769341 -0.058484367 2.42002305

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal -0.017018988 -0.996735067 0.96269709

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial 0.741820542 -0.775949082 2.25959017

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 3.437198157 1.919428533 4.95496778

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 1.228726601 -0.289043023 2.74649622

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial 0.030938272 -1.283488780 1.34536532

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 2.695377615 1.177607991 4.21314724

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 0.486906059 -1.030863565 2.00467568

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial -0.710882270 -2.025309322 0.60354478

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial -2.208471557 -3.726241181 -0.69070193

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial -3.406259886 -4.720686937 -2.09183283

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial -1.197788329 -2.512215381 0.11663872

p adj

Pendimethalin:Aquatic-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 0.0000008

Total Fipronil:Aquatic-Pendimethalin:Aquatic 0.9677606

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 0.8845414

Imidacloprid:Arboreal-Pendimethalin:Aquatic 1.0000000

Pendimethalin:Arboreal-Pendimethalin:Aquatic 0.7365142

Total Atrazine:Arboreal-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Aquatic 0.9998969

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 0.9989566

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 0.9999666

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 0.5199686

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 0.0525357

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 0.9996226

Total Fipronil:Aquatic-Total Atrazine:Aquatic 0.0007024

Total Triadimefon:Aquatic-Total Atrazine:Aquatic 0.0000222

Imidacloprid:Arboreal-Total Atrazine:Aquatic 0.0000000

Pendimethalin:Arboreal-Total Atrazine:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Atrazine:Aquatic 1.0000000

Total Fipronil:Arboreal-Total Atrazine:Aquatic 0.0000000

Total Triadimefon:Arboreal-Total Atrazine:Aquatic 0.0000001

Imidacloprid:Terrestrial-Total Atrazine:Aquatic 0.0000070

Pendimethalin:Terrestrial-Total Atrazine:Aquatic 0.0051421

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.9460667

Total Fipronil:Terrestrial-Total Atrazine:Aquatic 0.1287290

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic 0.0000003

Total Triadimefon:Aquatic-Total Fipronil:Aquatic 1.0000000

Imidacloprid:Arboreal-Total Fipronil:Aquatic 0.8287601

Pendimethalin:Arboreal-Total Fipronil:Aquatic 0.0083290

Total Atrazine:Arboreal-Total Fipronil:Aquatic 0.0000005

Total Fipronil:Arboreal-Total Fipronil:Aquatic 0.9992363

Total Triadimefon:Arboreal-Total Fipronil:Aquatic 0.9999320

Imidacloprid:Terrestrial-Total Fipronil:Aquatic 0.9999584

Pendimethalin:Terrestrial-Total Fipronil:Aquatic 0.9999771

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 0.0000001

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.8821600

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic 0.9999321

Imidacloprid:Arboreal-Total Triadimefon:Aquatic 0.3411498

Pendimethalin:Arboreal-Total Triadimefon:Aquatic 0.0000369

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 0.0000000

Total Fipronil:Arboreal-Total Triadimefon:Aquatic 0.9840087

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic 0.9978954

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic 0.9995768

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic 0.9998219

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 0.0000000

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 0.6749564

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic 0.9985741

Pendimethalin:Arboreal-Imidacloprid:Arboreal 0.0419904

Total Atrazine:Arboreal-Imidacloprid:Arboreal 0.0000000

Total Fipronil:Arboreal-Imidacloprid:Arboreal 0.9878050

Total Triadimefon:Arboreal-Imidacloprid:Arboreal 0.9276232

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 0.9994124

Pendimethalin:Terrestrial-Imidacloprid:Arboreal 0.1124818

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 0.0000000

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 0.0010990

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal 0.9817585

Total Atrazine:Arboreal-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Arboreal 0.0010524

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 0.0003084

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 0.0743765

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 0.0000355

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 0.0000001

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 0.0029514

Total Fipronil:Arboreal-Total Atrazine:Arboreal 0.0000000

Total Triadimefon:Arboreal-Total Atrazine:Arboreal 0.0000000

Imidacloprid:Terrestrial-Total Atrazine:Arboreal 0.0000000

Pendimethalin:Terrestrial-Total Atrazine:Arboreal 0.0000040

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.9422856

Total Fipronil:Terrestrial-Total Atrazine:Arboreal 0.0013490

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal 0.0000000

Total Triadimefon:Arboreal-Total Fipronil:Arboreal 1.0000000

Imidacloprid:Terrestrial-Total Fipronil:Arboreal 1.0000000

Pendimethalin:Terrestrial-Total Fipronil:Arboreal 0.6943180

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 0.0000000

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 0.0428237

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal 1.0000000

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal 1.0000000

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal 0.8276178

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 0.0000000

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 0.0791710

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal 1.0000000

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial 0.9309394

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 0.0000000

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 0.2589615

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial 1.0000000

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 0.0000011

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 0.9985827

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial 0.8609313

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial 0.0001647

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial 0.0000000

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial 0.1155015

**App Factor** (log transformed)

> lApp <- log(Soil\_Good$App)

> App <- aov(lApp ~ Soil\_Good$Chem \* Soil\_Good$Hab, data=Soil\_Good)

> summary(App)

Df Sum Sq Mean Sq F value Pr(>F)

Soil\_Good$Chem 4 236.78 59.20 133.939 < 2e-16 \*\*\* by pesticide

Soil\_Good$Hab 2 6.59 3.30 7.457 0.000895 \*\*\* by Habitat Factor

Soil\_Good$Chem:Soil\_Good$Hab 7 14.52 2.07 4.693 0.000115 \*\*\* Interaction Term

Residuals 117 51.71 0.44

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

> shapiro.test(lApp)

Shapiro-Wilk normality test

data: lApp

W = 0.9662, p-value = 0.002375

> bartlett.test(lApp, Soil\_Good$Hab.f)

Bartlett test of homogeneity of variances

data: lApp and Soil\_Good$Hab.f

Bartlett's K-squared = 1.1632, df = 2, p-value = 0.559

> TukeyHSD(App, conf.level=0.95)

Tukey multiple comparisons of means

95% family-wise confidence level

Fit: aov(formula = lApp ~ Soil\_Good$Chem \* Soil\_Good$Hab, data = Soil\_Good)

*App Factor Contrasts*

$`Soil\_Good$Chem`

diff lwr upr p adj

Pendimethalin-Imidacloprid -1.3658342 -1.8922354 -0.8394330 0.0000000

Total Atrazine-Imidacloprid 2.0557796 1.5293784 2.5821808 0.0000000

Total Fipronil-Imidacloprid 2.4607985 1.9343973 2.9871998 0.0000000

Total Triadimefon-Imidacloprid 1.1879390 0.7026382 1.6732398 0.0000000

Total Atrazine-Pendimethalin 3.4216138 2.8898683 3.9533593 0.0000000

Total Fipronil-Pendimethalin 3.8266327 3.2948872 4.3583783 0.0000000

Total Triadimefon-Pendimethalin 2.5537732 2.0626806 3.0448658 0.0000000

Total Fipronil-Total Atrazine 0.4050189 -0.1267266 0.9367645 0.2226182

Total Triadimefon-Total Atrazine -0.8678406 -1.3589332 -0.3767480 0.0000308

Total Triadimefon-Total Fipronil -1.2728595 -1.7639521 -0.7817669 0.0000000

$`Soil\_Good$Hab`

diff lwr upr p adj

Arboreal-Aquatic -0.2504508 -0.6374082 0.1365065 0.2777193

Terrestrial-Aquatic 0.2813529 -0.1676735 0.7303793 0.3006302

Terrestrial-Arboreal 0.5318037 0.1939351 0.8696723 0.0008417

$`Soil\_Good$Chem:Soil\_Good$Hab`

diff lwr upr

Pendimethalin:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA NA NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA NA NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA NA NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 2.990386597 1.36144889 4.61932430

Total Fipronil:Aquatic-Pendimethalin:Aquatic 3.568225039 1.93928734 5.19716274

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 2.422973894 1.03864304 3.80730475

Imidacloprid:Arboreal-Pendimethalin:Aquatic 1.082208176 -0.17956154 2.34397790

Pendimethalin:Arboreal-Pendimethalin:Aquatic -0.800615019 -2.09696017 0.49573014

Total Atrazine:Arboreal-Pendimethalin:Aquatic 3.024088719 1.72774356 4.32043387

Total Fipronil:Arboreal-Pendimethalin:Aquatic 3.257785420 1.96144027 4.55413057

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 2.363639596 1.06729444 3.65998475

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 1.120683320 -0.42466267 2.66602931

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 1.077376322 -0.46796967 2.62272231

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 3.634702035 2.08935604 5.18004803

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 4.415432095 2.87008610 5.96077809

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 2.018527746 0.65566068 3.38139481

Total Fipronil:Aquatic-Total Atrazine:Aquatic 0.577838442 -1.05109926 2.20677615

Total Triadimefon:Aquatic-Total Atrazine:Aquatic -0.567412703 -1.95174356 0.81691815

Imidacloprid:Arboreal-Total Atrazine:Aquatic -1.908178421 -3.16994814 -0.64640870

Pendimethalin:Arboreal-Total Atrazine:Aquatic -3.791001616 -5.08734677 -2.49465646

Total Atrazine:Arboreal-Total Atrazine:Aquatic 0.033702122 -1.26264303 1.33004728

Total Fipronil:Arboreal-Total Atrazine:Aquatic 0.267398823 -1.02894633 1.56374398

Total Triadimefon:Arboreal-Total Atrazine:Aquatic -0.626747001 -1.92309216 0.66959815

Imidacloprid:Terrestrial-Total Atrazine:Aquatic -1.869703277 -3.41504927 -0.32435728

Pendimethalin:Terrestrial-Total Atrazine:Aquatic -1.913010275 -3.45835627 -0.36766428

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.644315438 -0.90103056 2.18966143

Total Fipronil:Terrestrial-Total Atrazine:Aquatic 1.425045498 -0.12030049 2.97039149

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic -0.971858851 -2.33472591 0.39100821

Total Triadimefon:Aquatic-Total Fipronil:Aquatic -1.145251146 -2.52958200 0.23907971

Imidacloprid:Arboreal-Total Fipronil:Aquatic -2.486016863 -3.74778658 -1.22424714

Pendimethalin:Arboreal-Total Fipronil:Aquatic -4.368840058 -5.66518521 -3.07249490

Total Atrazine:Arboreal-Total Fipronil:Aquatic -0.544136320 -1.84048147 0.75220883

Total Fipronil:Arboreal-Total Fipronil:Aquatic -0.310439619 -1.60678477 0.98590554

Total Triadimefon:Arboreal-Total Fipronil:Aquatic -1.204585444 -2.50093060 0.09175971

Imidacloprid:Terrestrial-Total Fipronil:Aquatic -2.447541719 -3.99288771 -0.90219573

Pendimethalin:Terrestrial-Total Fipronil:Aquatic -2.490848718 -4.03619471 -0.94550273

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 0.066476995 -1.47886900 1.61182299

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.847207056 -0.69813894 2.39255305

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic -1.549697294 -2.91256436 -0.18683023

Imidacloprid:Arboreal-Total Triadimefon:Aquatic -1.340765717 -2.26542603 -0.41610540

Pendimethalin:Arboreal-Total Triadimefon:Aquatic -3.223588913 -4.19489970 -2.25227813

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 0.601114825 -0.37019596 1.57242561

Total Fipronil:Arboreal-Total Triadimefon:Aquatic 0.834811527 -0.13649926 1.80612231

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic -0.059334298 -1.03064508 0.91197648

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic -1.302290574 -2.58721396 -0.01736719

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic -1.345597572 -2.63052096 -0.06067418

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 1.211728141 -0.07319525 2.49665153

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 1.992458202 0.70753481 3.27738159

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic -0.404446148 -1.46290753 0.65401524

Pendimethalin:Arboreal-Imidacloprid:Arboreal -1.882823195 -2.66967486 -1.09597153

Total Atrazine:Arboreal-Imidacloprid:Arboreal 1.941880543 1.15502888 2.72873221

Total Fipronil:Arboreal-Imidacloprid:Arboreal 2.175577244 1.38872558 2.96242891

Total Triadimefon:Arboreal-Imidacloprid:Arboreal 1.281431419 0.49457975 2.06828308

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 0.038475144 -1.11335775 1.19030804

Pendimethalin:Terrestrial-Imidacloprid:Arboreal -0.004831855 -1.15666475 1.14700104

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 2.552493858 1.40066096 3.70432675

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 3.333223919 2.18139102 4.48505682

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal 0.936319569 0.04411364 1.82852549

Total Atrazine:Arboreal-Pendimethalin:Arboreal 3.824703738 2.98352393 4.66588355

Total Fipronil:Arboreal-Pendimethalin:Arboreal 4.058400439 3.21722063 4.89958025

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 3.164254615 2.32307480 4.00543443

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 1.921298339 0.73169044 3.11090624

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 1.877991341 0.68838344 3.06759924

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 4.435317054 3.24570915 5.62492495

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 5.216047115 4.02643921 6.40565501

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 2.819142765 1.87867514 3.75961039

Total Fipronil:Arboreal-Total Atrazine:Arboreal 0.233696701 -0.60748311 1.07487651

Total Triadimefon:Arboreal-Total Atrazine:Arboreal -0.660449123 -1.50162894 0.18073069

Imidacloprid:Terrestrial-Total Atrazine:Arboreal -1.903405399 -3.09301330 -0.71379750

Pendimethalin:Terrestrial-Total Atrazine:Arboreal -1.946712397 -3.13632030 -0.75710450

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.610613316 -0.57899458 1.80022122

Total Fipronil:Terrestrial-Total Atrazine:Arboreal 1.391343377 0.20173548 2.58095128

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal -1.005560973 -1.94602859 -0.06509335

Total Triadimefon:Arboreal-Total Fipronil:Arboreal -0.894145825 -1.73532564 -0.05296601

Imidacloprid:Terrestrial-Total Fipronil:Arboreal -2.137102100 -3.32671000 -0.94749420

Pendimethalin:Terrestrial-Total Fipronil:Arboreal -2.180409099 -3.37001700 -0.99080120

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 0.376916614 -0.81269129 1.56652451

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 1.157646675 -0.03196122 2.34725458

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal -1.239257675 -2.17972530 -0.29879005

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal -1.242956276 -2.43256418 -0.05334838

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal -1.286263274 -2.47587117 -0.09665537

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 1.271062439 0.08145454 2.46067034

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 2.051792500 0.86218460 3.24140040

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal -0.345111850 -1.28557947 0.59535577

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial -0.043306998 -1.50027317 1.41365918

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 2.514018715 1.05705254 3.97098489

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 3.294748775 1.83778260 4.75171495

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial 0.897844426 -0.36392529 2.15961414

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 2.557325713 1.10035954 4.01429189

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 3.338055774 1.88108960 4.79502195

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial 0.941151424 -0.32061830 2.20292114

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial 0.780730061 -0.67623611 2.23769624

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial -1.616174289 -2.87794401 -0.35440457

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial -2.396904350 -3.65867407 -1.13513463

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Pendimethalin:Aquatic-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Imidacloprid:Aquatic NA

Total Fipronil:Aquatic-Imidacloprid:Aquatic NA

Total Triadimefon:Aquatic-Imidacloprid:Aquatic NA

Imidacloprid:Arboreal-Imidacloprid:Aquatic NA

Pendimethalin:Arboreal-Imidacloprid:Aquatic NA

Total Atrazine:Arboreal-Imidacloprid:Aquatic NA

Total Fipronil:Arboreal-Imidacloprid:Aquatic NA

Total Triadimefon:Arboreal-Imidacloprid:Aquatic NA

Imidacloprid:Terrestrial-Imidacloprid:Aquatic NA

Pendimethalin:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Terrestrial-Imidacloprid:Aquatic NA

Total Fipronil:Terrestrial-Imidacloprid:Aquatic NA

Total Triadimefon:Terrestrial-Imidacloprid:Aquatic NA

Total Atrazine:Aquatic-Pendimethalin:Aquatic 0.0000004

Total Fipronil:Aquatic-Pendimethalin:Aquatic 0.0000000

Total Triadimefon:Aquatic-Pendimethalin:Aquatic 0.0000017

Imidacloprid:Arboreal-Pendimethalin:Aquatic 0.1806033

Pendimethalin:Arboreal-Pendimethalin:Aquatic 0.7054792

Total Atrazine:Arboreal-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Aquatic 0.0000000

Total Triadimefon:Arboreal-Pendimethalin:Aquatic 0.0000005

Imidacloprid:Terrestrial-Pendimethalin:Aquatic 0.4397252

Pendimethalin:Terrestrial-Pendimethalin:Aquatic 0.5085560

Total Atrazine:Terrestrial-Pendimethalin:Aquatic 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Aquatic 0.0000000

Total Triadimefon:Terrestrial-Pendimethalin:Aquatic 0.0001125

Total Fipronil:Aquatic-Total Atrazine:Aquatic 0.9959561

Total Triadimefon:Aquatic-Total Atrazine:Aquatic 0.9838463

Imidacloprid:Arboreal-Total Atrazine:Aquatic 0.0000708

Pendimethalin:Arboreal-Total Atrazine:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Atrazine:Aquatic 1.0000000

Total Fipronil:Arboreal-Total Atrazine:Aquatic 0.9999921

Total Triadimefon:Arboreal-Total Atrazine:Aquatic 0.9363364

Imidacloprid:Terrestrial-Total Atrazine:Aquatic 0.0046153

Pendimethalin:Terrestrial-Total Atrazine:Aquatic 0.0032383

Total Atrazine:Terrestrial-Total Atrazine:Aquatic 0.9811774

Total Fipronil:Terrestrial-Total Atrazine:Aquatic 0.1048799

Total Triadimefon:Terrestrial-Total Atrazine:Aquatic 0.4691172

Total Triadimefon:Aquatic-Total Fipronil:Aquatic 0.2278321

Imidacloprid:Arboreal-Total Fipronil:Aquatic 0.0000000

Pendimethalin:Arboreal-Total Fipronil:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Fipronil:Aquatic 0.9800246

Total Fipronil:Arboreal-Total Fipronil:Aquatic 0.9999504

Total Triadimefon:Arboreal-Total Fipronil:Aquatic 0.0984227

Imidacloprid:Terrestrial-Total Fipronil:Aquatic 0.0000239

Pendimethalin:Terrestrial-Total Fipronil:Aquatic 0.0000155

Total Atrazine:Terrestrial-Total Fipronil:Aquatic 1.0000000

Total Fipronil:Terrestrial-Total Fipronil:Aquatic 0.8484780

Total Triadimefon:Terrestrial-Total Fipronil:Aquatic 0.0111652

Imidacloprid:Arboreal-Total Triadimefon:Aquatic 0.0001773

Pendimethalin:Arboreal-Total Triadimefon:Aquatic 0.0000000

Total Atrazine:Arboreal-Total Triadimefon:Aquatic 0.7024868

Total Fipronil:Arboreal-Total Triadimefon:Aquatic 0.1780780

Total Triadimefon:Arboreal-Total Triadimefon:Aquatic 1.0000000

Imidacloprid:Terrestrial-Total Triadimefon:Aquatic 0.0435853

Pendimethalin:Terrestrial-Total Triadimefon:Aquatic 0.0306263

Total Atrazine:Terrestrial-Total Triadimefon:Aquatic 0.0867278

Total Fipronil:Terrestrial-Total Triadimefon:Aquatic 0.0000397

Total Triadimefon:Terrestrial-Total Triadimefon:Aquatic 0.9915926

Pendimethalin:Arboreal-Imidacloprid:Arboreal 0.0000000

Total Atrazine:Arboreal-Imidacloprid:Arboreal 0.0000000

Total Fipronil:Arboreal-Imidacloprid:Arboreal 0.0000000

Total Triadimefon:Arboreal-Imidacloprid:Arboreal 0.0000119

Imidacloprid:Terrestrial-Imidacloprid:Arboreal 1.0000000

Pendimethalin:Terrestrial-Imidacloprid:Arboreal 1.0000000

Total Atrazine:Terrestrial-Imidacloprid:Arboreal 0.0000000

Total Fipronil:Terrestrial-Imidacloprid:Arboreal 0.0000000

Total Triadimefon:Terrestrial-Imidacloprid:Arboreal 0.0299063

Total Atrazine:Arboreal-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Arboreal-Pendimethalin:Arboreal 0.0000000

Total Triadimefon:Arboreal-Pendimethalin:Arboreal 0.0000000

Imidacloprid:Terrestrial-Pendimethalin:Arboreal 0.0000147

Pendimethalin:Terrestrial-Pendimethalin:Arboreal 0.0000259

Total Atrazine:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Triadimefon:Terrestrial-Pendimethalin:Arboreal 0.0000000

Total Fipronil:Arboreal-Total Atrazine:Arboreal 0.9997139

Total Triadimefon:Arboreal-Total Atrazine:Arboreal 0.3060283

Imidacloprid:Terrestrial-Total Atrazine:Arboreal 0.0000186

Pendimethalin:Terrestrial-Total Atrazine:Arboreal 0.0000105

Total Atrazine:Terrestrial-Total Atrazine:Arboreal 0.9018159

Total Fipronil:Terrestrial-Total Atrazine:Arboreal 0.0075789

Total Triadimefon:Terrestrial-Total Atrazine:Arboreal 0.0241386

Total Triadimefon:Arboreal-Total Fipronil:Arboreal 0.0258430

Imidacloprid:Terrestrial-Total Fipronil:Arboreal 0.0000008

Pendimethalin:Terrestrial-Total Fipronil:Arboreal 0.0000004

Total Atrazine:Terrestrial-Total Fipronil:Arboreal 0.9987603

Total Fipronil:Terrestrial-Total Fipronil:Arboreal 0.0652042

Total Triadimefon:Terrestrial-Total Fipronil:Arboreal 0.0011346

Imidacloprid:Terrestrial-Total Triadimefon:Arboreal 0.0314123

Pendimethalin:Terrestrial-Total Triadimefon:Arboreal 0.0211370

Total Atrazine:Terrestrial-Total Triadimefon:Arboreal 0.0243356

Total Fipronil:Terrestrial-Total Triadimefon:Arboreal 0.0000026

Total Triadimefon:Terrestrial-Total Triadimefon:Arboreal 0.9943274

Pendimethalin:Terrestrial-Imidacloprid:Terrestrial 1.0000000

Total Atrazine:Terrestrial-Imidacloprid:Terrestrial 0.0000025

Total Fipronil:Terrestrial-Imidacloprid:Terrestrial 0.0000000

Total Triadimefon:Terrestrial-Imidacloprid:Terrestrial 0.4728569

Total Atrazine:Terrestrial-Pendimethalin:Terrestrial 0.0000016

Total Fipronil:Terrestrial-Pendimethalin:Terrestrial 0.0000000

Total Triadimefon:Terrestrial-Pendimethalin:Terrestrial 0.3910378

Total Fipronil:Terrestrial-Total Atrazine:Terrestrial 0.8689504

Total Triadimefon:Terrestrial-Total Atrazine:Terrestrial 0.0018541

Total Triadimefon:Terrestrial-Total Fipronil:Terrestrial 0.0000001