Probability of occurrance

Call:

model.avg(object = Morn\_mod)

Component model call:

lme.formula(fixed = <10 unique values>, data = Occurrance2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

2 4 -1590.85 3189.71 0.00 0.96

12 5 -1593.10 3196.22 6.51 0.04

24 5 -1594.82 3199.66 9.95 0.01

124 6 -1596.83 3205.69 15.98 0.00

234 6 -1599.43 3210.88 21.17 0.00

1 4 -1602.23 3212.47 22.75 0.00

4 4 -1603.96 3215.94 26.23 0.00

14 5 -1605.65 3221.33 31.61 0.00

12346 8 -1607.75 3231.54 41.83 0.00

123456 9 -1610.41 3238.87 49.16 0.00

Term codes:

Denning Moonlight\_before Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5 6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 7.995e-01 3.335e-02 3.336e-02 23.967 <2e-16 \*\*\*

Moonlight\_before -9.713e-03 1.784e-03 1.784e-03 5.443 1e-07 \*\*\*

Denningyes 9.522e-04 6.720e-03 6.721e-03 0.142 0.887

Temperature 3.064e-05 4.730e-04 4.731e-04 0.065 0.948

Rainfall -4.857e-08 1.200e-05 1.200e-05 0.004 0.997

Rainfall:Temperature 1.680e-13 2.088e-08 2.089e-08 0.000 1.000

Denningyes:Temperature -3.312e-13 9.627e-08 9.628e-08 0.000 1.000

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 0.7995404 0.0333490 0.0333603 23.967 <2e-16 \*\*\*

Moonlight\_before -0.0097136 0.0017834 0.0017841 5.445 1e-07 \*\*\*

Denningyes 0.0255411 0.0241505 0.0241596 1.057 0.290

Temperature 0.0043973 0.0035920 0.0035934 1.224 0.221

Rainfall -0.0020087 0.0013844 0.0013849 1.450 0.147

Rainfall:Temperature 0.0002072 0.0007035 0.0007037 0.294 0.768

Denningyes:Temperature -0.0163731 0.0137860 0.0137912 1.187 0.235

---

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

Relative variable importance:

Moonlight\_before Denning Temperature Rainfall Rainfall:Temperature Denning:Temperature

Importance: 1 0.04 0.01 <0.01 <0.01 <0.01

N containing models: 7 6 7 3 2 1

Call:

model.avg(object = Day\_mod)

Component model call:

lme.formula(fixed = <7 unique values>, data = Occurrance2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

1 4 -617.70 1243.42 0.00 0.85

3 4 -619.43 1246.87 3.46 0.15

13 5 -622.42 1254.86 11.44 0.00

23 5 -625.16 1260.35 16.93 0.00

134 6 -626.02 1264.06 20.65 0.00

1234 7 -631.75 1277.54 34.12 0.00

1235 7 -634.33 1282.69 39.28 0.00

Term codes:

Denning Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 1.358e-01 4.397e-02 4.398e-02 3.087 0.00202 \*\*

Denningyes 8.688e-03 1.696e-02 1.697e-02 0.512 0.60861

Temperature -3.364e-04 1.308e-03 1.308e-03 0.257 0.79705

Rainfall 1.248e-07 1.658e-05 1.659e-05 0.008 0.99400

Denningyes:Temperature -1.056e-07 5.740e-05 5.742e-05 0.002 0.99853

Rainfall:Temperature 1.257e-12 3.622e-08 3.622e-08 0.000 0.99997

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 0.1357687 0.0439668 0.0439791 3.087 0.00202 \*\*

Denningyes 0.0102278 0.0179691 0.0179759 0.569 0.56937

Temperature -0.0021935 0.0026608 0.0026618 0.824 0.40992

Rainfall 0.0006988 0.0010253 0.0010257 0.681 0.49567

Denningyes:Temperature -0.0037917 0.0101929 0.0101967 0.372 0.71000

Rainfall:Temperature 0.0005015 0.0005215 0.0005217 0.961 0.33633

---

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

Call:

model.avg(object = Even\_mod)

Component model call:

lme.formula(fixed = <10 unique values>, data = Occurrance2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

24 5 -1839.18 3688.38 0.00 0.90

124 6 -1840.67 3693.36 4.98 0.07

2 4 -1843.90 3695.81 7.44 0.02

12 5 -1844.24 3698.49 10.12 0.01

234 6 -1844.73 3701.49 13.11 0.00

4 4 -1846.91 3701.84 13.46 0.00

14 5 -1848.05 3706.12 17.75 0.00

1 4 -1851.01 3710.04 21.66 0.00

12346 8 -1852.48 3721.00 32.62 0.00

123456 9 -1855.67 3729.40 41.02 0.00

Term codes:

Denning Moonlight Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5 6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 1.217e+00 1.329e-01 1.329e-01 9.154 < 2e-16 \*\*\*

Temperature -1.620e-02 4.689e-03 4.690e-03 3.454 0.000552 \*\*\*

Moonlight -9.809e-03 1.950e-03 1.951e-03 5.028 5e-07 \*\*\*

Denningyes 3.407e-03 1.379e-02 1.379e-02 0.247 0.804859

Rainfall -5.333e-07 5.551e-05 5.553e-05 0.010 0.992337

Rainfall:Temperature 7.207e-12 2.095e-07 2.096e-07 0.000 0.999973

Denningyes:Temperature 7.273e-12 5.413e-07 5.414e-07 0.000 0.999989

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 1.217e+00 1.329e-01 1.329e-01 9.154 < 2e-16 \*\*\*

Temperature -1.666e-02 3.871e-03 3.872e-03 4.302 1.69e-05 \*\*\*

Moonlight -9.821e-03 1.921e-03 1.922e-03 5.110 3.00e-07 \*\*\*

Denningyes 4.260e-02 2.660e-02 2.661e-02 1.601 0.109

Rainfall -4.183e-04 1.497e-03 1.498e-03 0.279 0.780

Rainfall:Temperature 9.614e-05 7.592e-04 7.594e-04 0.127 0.899

Denningyes:Temperature 6.555e-03 1.487e-02 1.487e-02 0.441 0.659

---

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

Relative variable importance:

Moonlight Temperature Denning Rainfall Rainfall:Temperature Denning:Temperature

Importance: 1 0.97 0.08 <0.01 <0.01 <0.01

N containing models: 7 7 6 3 2 1

Call:

model.avg(object = Night\_mod)

Component model call:

lme.formula(fixed = <10 unique values>, data = Occurrance2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

124 6 -1661.81 3335.65 0.00 0.52

24 5 -1662.91 3335.84 0.19 0.48

234 6 -1668.13 3348.29 12.64 0.00

12 5 -1670.01 3350.04 14.38 0.00

2 4 -1673.53 3355.07 19.42 0.00

12346 8 -1670.79 3357.63 21.98 0.00

123456 9 -1673.71 3365.48 29.83 0.00

14 5 -1792.16 3594.34 258.69 0.00

4 4 -1795.07 3598.15 262.50 0.00

1 4 -1797.34 3602.70 267.05 0.00

Term codes:

Denning Moonlight Rainfall Temperature Denning:Temperature

1 2 3 4 5

Rainfall:Temperature

6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) -4.137e-01 1.090e-01 1.090e-01 3.794 0.000148 \*\*\*

Temperature 1.953e-02 3.775e-03 3.776e-03 5.171 2e-07 \*\*\*

Moonlight 3.069e-02 1.821e-03 1.822e-03 16.847 < 2e-16 \*\*\*

Denningyes -3.631e-02 3.907e-02 3.907e-02 0.929 0.352732

Rainfall -8.437e-07 1.495e-04 1.495e-04 0.006 0.995496

Rainfall:Temperature -1.453e-08 5.303e-06 5.304e-06 0.003 0.997815

Denningyes:Temperature -2.260e-09 7.984e-06 7.986e-06 0.000 0.999774

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) -0.4136899 0.1090011 0.1090396 3.794 0.000148 \*\*\*

Temperature 0.0195348 0.0037542 0.0037556 5.202 2e-07 \*\*\*

Moonlight 0.0306934 0.0018212 0.0018219 16.847 < 2e-16 \*\*\*

Denningyes -0.0694097 0.0249049 0.0249142 2.786 0.005337 \*\*

Rainfall -0.0008889 0.0047690 0.0047694 0.186 0.852152

Rainfall:Temperature -0.0016178 0.0007176 0.0007179 2.254 0.024225 \*

Denningyes:Temperature -0.0129951 0.0140565 0.0140618 0.924 0.355411

---

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

Relative variable importance:

Moonlight Temperature Denning Rainfall Rainfall:Temperature Denning:Temperature

Importance: 1 1 0.52 <0.01 <0.01 <0.01

N containing models: 7 7 6 3 2 1

# Morning

Call:

model.avg(object = Morn\_dur)

Component model call:

lme.formula(fixed = <10 unique values>, data = Morning2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

123456 9 -14462.70 28943.46 0.00 0.58

14 5 -14467.65 28945.33 1.87 0.23

1 4 -14469.57 28947.16 3.70 0.09

124 6 -14467.94 28947.90 4.45 0.06

12 5 -14469.84 28949.71 6.25 0.03

12346 8 -14467.03 28950.12 6.67 0.02

4 4 -14482.75 28973.52 30.06 0.00

234 6 -14481.52 28975.07 31.61 0.00

24 5 -14483.04 28976.10 32.64 0.00

2 4 -14486.81 28981.64 38.18 0.00

Term codes:

Denning Moonlight\_before Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5 6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 220.05701 21.27025 21.27657 10.343 <2e-16 \*\*\*

Temperature -1.17705 0.76449 0.76471 1.539 0.124

Rainfall -1.77208 2.95912 2.96016 0.599 0.549

Moonlight\_before 0.03734 0.24803 0.24814 0.150 0.880

DenningYes -57.48211 79.88222 79.89365 0.719 0.472

Rainfall:Temperature 0.07629 0.11455 0.11459 0.666 0.506

DenningYes:Temperature 2.88446 2.97957 2.98000 0.968 0.333

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 220.05701 21.27025 21.27657 10.343 <2e-16 \*\*\*

Temperature -1.33111 0.67518 0.67546 1.971 0.0488 \*

Rainfall -2.97430 3.33485 3.33639 0.891 0.3727

Moonlight\_before 0.05464 0.29845 0.29859 0.183 0.8548

DenningYes -57.48213 79.88222 79.89365 0.719 0.4718

Rainfall:Temperature 0.12805 0.12408 0.12414 1.031 0.3023

DenningYes:Temperature 5.01417 2.18036 2.18137 2.299 0.0215 \*

---

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

Relative variable importance:

Denning Temperature Moonlight\_before Rainfall Rainfall:Temperature Denning:Temperature

Importance: 1.00 0.88 0.68 0.60 0.60 0.58

N containing models: 6 7 7 3 2 1

|  |
| --- |
| Call:  model.avg(object = Morn\_int)  Component model call:  lme.formula(fixed = <10 unique values>, data = Morning2, random = ~1 | ID, na.action = na.exclude)  Component models:  df logLik AICc delta weight  14 5 -10198.06 20406.14 0.00 0.43  1 4 -10199.14 20406.30 0.17 0.40  4 4 -10200.50 20409.01 2.87 0.10  124 6 -10199.76 20411.54 5.40 0.03  12 5 -10200.92 20411.87 5.73 0.02  24 5 -10202.16 20414.34 8.20 0.01  2 4 -10204.06 20416.13 9.99 0.00  234 6 -10204.33 20420.70 14.56 0.00  12346 8 -10204.39 20424.83 18.69 0.00  123456 9 -10204.30 20426.67 20.53 0.00  Term codes:  Denning Moonlight\_before Rainfall Temperature Denning:Temperature Rainfall:Temperature  1 2 3 4 5 6  Model-averaged coefficients:  (full average)  Estimate Std. Error Adjusted SE z value Pr(>|z|)  (Intercept) 5.143e+01 4.646e+00 4.646e+00 11.070 <2e-16 \*\*\*  Temperature -1.503e-01 1.582e-01 1.582e-01 0.950 0.342  DenningYes 1.383e+00 8.766e-01 8.768e-01 1.577 0.115  Moonlight\_before -2.322e-03 1.730e-02 1.730e-02 0.134 0.893  Rainfall 2.935e-05 6.212e-03 6.214e-03 0.005 0.996  Rainfall:Temperature -1.058e-06 2.293e-04 2.293e-04 0.005 0.996  DenningYes:Temperature -9.953e-07 1.691e-03 1.692e-03 0.001 1.000    (conditional average)  Estimate Std. Error Adjusted SE z value Pr(>|z|)  (Intercept) 51.43383 4.64557 4.64642 11.070 <2e-16 \*\*\*  Temperature -0.26216 0.11960 0.11966 2.191 0.0285 \*  DenningYes 1.56003 0.76847 0.76882 2.029 0.0424 \*  Moonlight\_before -0.03615 0.05860 0.05863 0.616 0.5376  Rainfall 0.08353 0.32069 0.32079 0.260 0.7946  Rainfall:Temperature -0.02000 0.02436 0.02437 0.821 0.4119  DenningYes:Temperature -0.06599 0.43042 0.43062 0.153 0.8782  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  Relative variable importance:  Denning Temperature Moonlight\_before Rainfall Rainfall:Temperature Denning:Temperature  Importance: 0.89 0.57 0.06 <0.01 <0.01 <0.01  N containing models: 6 7 7 3 2 1 |
|  |
| |  | | --- | | > | |

Start

Component model call:

lme.formula(fixed = <10 unique values>, data = Morning2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

14 5 7085.74 -14161.46 0.00 0.99

1 4 7080.02 -14152.02 9.44 0.01

4 4 7078.79 -14149.57 11.89 0.00

124 6 7078.72 -14145.41 16.05 0.00

12 5 7072.50 -14134.97 26.49 0.00

24 5 7071.54 -14133.05 28.41 0.00

2 4 7068.99 -14129.97 31.49 0.00

234 6 7062.99 -14113.94 47.52 0.00

12346 8 7060.84 -14105.63 55.83 0.00

123456 9 7054.88 -14091.69 69.77 0.00

Term codes:

Denning Moonlight\_before Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5 6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 2.720e-01 5.250e-03 5.252e-03 51.791 <2e-16 \*\*\*

Temperature -8.599e-04 1.841e-04 1.842e-04 4.668 3e-06 \*\*\*

DenningYes -5.385e-03 1.099e-03 1.099e-03 4.898 1e-06 \*\*\*

Moonlight\_before -4.580e-08 2.934e-06 2.935e-06 0.016 0.988

Rainfall 1.904e-15 9.434e-10 9.438e-10 0.000 1.000

Rainfall:Temperature 1.399e-19 2.937e-11 2.939e-11 0.000 1.000

DenningYes:Temperature -4.334e-19 2.284e-11 2.284e-11 0.000 1.000

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 2.720e-01 5.250e-03 5.252e-03 51.791 <2e-16 \*\*\*

Temperature -8.676e-04 1.660e-04 1.661e-04 5.223 2e-07 \*\*\*

DenningYes -5.399e-03 1.065e-03 1.066e-03 5.065 4e-07 \*\*\*

Moonlight\_before -1.403e-04 8.185e-05 8.189e-05 1.713 0.0867 .

Rainfall 3.951e-05 1.300e-04 1.301e-04 0.304 0.7613

Rainfall:Temperature 1.881e-07 3.406e-05 3.408e-05 0.006 0.9956

DenningYes:Temperature -6.212e-04 6.015e-04 6.017e-04 1.032 0.3019

---

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

Relative variable importance:

Denning Temperature Moonlight\_before Rainfall Rainfall:Temperature Denning:Temperature

Importance: 1 0.99 <0.01 <0.01 <0.01 <0.01

N containing models: 6 7 7 3 2 1

Call:

model.avg(object = Morn\_stop)

Component model call:

lme.formula(fixed = <10 unique values>, data = Morning2, random = ~1 | ID, na.action = na.exclude)

Component models:

df logLik AICc delta weight

4 4 4794.00 -9579.99 0.00 0.43

14 5 4794.59 -9579.16 0.82 0.29

1 4 4793.56 -9579.10 0.89 0.28

24 5 4786.65 -9563.27 16.72 0.00

124 6 4787.17 -9562.32 17.67 0.00

12 5 4786.02 -9562.01 17.98 0.00

2 4 4782.95 -9557.88 22.11 0.00

234 6 4781.88 -9551.73 28.25 0.00

12346 8 4774.48 -9532.91 47.08 0.00

123456 9 4770.66 -9523.25 56.73 0.00

Term codes:

Denning Moonlight\_before Rainfall Temperature Denning:Temperature Rainfall:Temperature

1 2 3 4 5 6

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 4.131e-01 2.366e-02 2.366e-02 17.463 <2e-16 \*\*\*

Temperature -1.236e-03 8.405e-04 8.405e-04 1.470 0.142

DenningYes 5.272e-03 5.032e-03 5.032e-03 1.048 0.295

Moonlight\_before -2.721e-08 3.486e-06 3.487e-06 0.008 0.994

Rainfall 1.203e-10 2.305e-07 2.305e-07 0.001 1.000

Rainfall:Temperature 2.445e-15 6.343e-10 6.344e-10 0.000 1.000

DenningYes:Temperature 5.678e-16 1.406e-09 1.407e-09 0.000 1.000

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 4.131e-01 2.366e-02 2.366e-02 17.463 < 2e-16 \*\*\*

Temperature -1.711e-03 4.054e-04 4.055e-04 4.220 2.44e-05 \*\*\*

DenningYes 9.322e-03 2.649e-03 2.650e-03 3.518 0.000435 \*\*\*

Moonlight\_before -1.202e-04 1.980e-04 1.981e-04 0.607 0.544048

Rainfall 3.783e-04 1.547e-04 1.548e-04 2.444 0.014506 \*

Rainfall:Temperature 9.356e-05 8.150e-05 8.154e-05 1.147 0.251198

DenningYes:Temperature 2.730e-03 1.435e-03 1.435e-03 1.902 0.057169 .

---

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

Relative variable importance:

Temperature Denning Moonlight\_before Rainfall Rainfall:Temperature Denning:Temperature

Importance: 0.72 0.57 <0.01 <0.01 <0.01 <0.01

N containing models: 7 6 7 3 2 1

# Evening

|  |
| --- |
| Call:  model.avg(object = Evening\_dur)  Component model call:  lme.formula(fixed = <10 unique values>, data = Evening2, random = ~1 | ID, na.action =  na.exclude)  Component models:  df logLik AICc delta weight  1235 7 -12677.46 25368.96 0.00 0.80  1234567 10 -12676.08 25372.26 3.30 0.15  123457 9 -12678.31 25374.70 5.74 0.05  235 6 -12696.22 25404.47 35.51 0.00  2345 7 -12695.51 25405.06 36.10 0.00  123 6 -12701.39 25414.81 45.85 0.00  15 5 -12710.74 25431.50 62.54 0.00  23 5 -12726.85 25463.73 94.77 0.00  1 4 -12730.65 25469.32 100.36 0.00  5 4 -12731.86 25471.74 102.79 0.00  Term codes:  Denning Moonlight Moonrise\_sun Rainfall Temperature  1 2 3 4 5  Denning:Temperature Rainfall:Temperature  6 7  Model-averaged coefficients:  (full average)  Estimate Std. Error Adjusted SE z value Pr(>|z|)  (Intercept) 226.494573 12.533706 12.539881 18.062 <2e-16 \*\*\*  Temperature -3.010965 0.443603 0.443821 6.784 <2e-16 \*\*\*  Moonlight -1.843667 0.219071 0.219179 8.412 <2e-16 \*\*\*  Moonrise\_sun -0.006336 0.114749 0.114805 0.055 0.956  DenningYes 7.432989 25.564484 25.569651 0.291 0.771  Rainfall -0.014220 0.995420 0.995912 0.014 0.989  Rainfall:Temperature 0.002697 0.037970 0.037988 0.071 0.943  DenningYes:Temperature 0.313894 0.951435 0.951624 0.330 0.742    (conditional average)  Estimate Std. Error Adjusted SE z value Pr(>|z|)  (Intercept) 226.494573 12.533706 12.539881 18.062 <2e-16 \*\*\*  Temperature -3.010965 0.443603 0.443821 6.784 <2e-16 \*\*\*  Moonlight -1.843667 0.219071 0.219179 8.412 <2e-16 \*\*\*  Moonrise\_sun -0.006336 0.114749 0.114805 0.055 0.956  DenningYes 7.432989 25.564484 25.569651 0.291 0.771  Rainfall -0.071344 2.228704 2.229807 0.032 0.974  Rainfall:Temperature 0.013533 0.084181 0.084223 0.161 0.872  DenningYes:Temperature 2.039534 1.536959 1.537720 1.326 0.185  ---  Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1  Relative variable importance:  Moonlight Moonrise\_sun Temperature Denning Rainfall Rainfall:Temperature  Importance: 1.00 1.00 1.00 1.00 0.20 0.20  N containing models: 7 7 7 6 3 2  Denning:Temperature  Importance: 0.15  N containing models: 1 |
|  |
| |  | | --- | | > | |

Call:

model.avg(object = Evening\_Intensity)

Component model call:

lme.formula(fixed = <10 unique values>, data = Evening2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

15 5 -9587.98 19185.98 0.00 0.55

1235 7 -9586.54 19187.13 1.15 0.31

123457 9 -9586.01 19190.08 4.10 0.07

1234567 10 -9585.05 19190.19 4.20 0.07

1 4 -9607.88 19223.78 37.79 0.00

123 6 -9607.89 19227.81 41.83 0.00

235 6 -9620.61 19253.26 67.28 0.00

2345 7 -9620.11 19254.27 68.29 0.00

5 4 -9623.61 19255.24 69.26 0.00

23 5 -9650.23 19310.49 124.51 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 62.982890 3.794458 3.796200 16.591 <2e-16 \*\*\*

Temperature -0.828668 0.128431 0.128491 6.449 <2e-16 \*\*\*

DenningYes 7.497329 4.948398 4.949382 1.515 0.130

Moonlight -0.095304 0.113524 0.113532 0.839 0.401

Moonrise\_sun -0.002572 0.022091 0.022102 0.116 0.907

Rainfall -0.195872 0.542573 0.542624 0.361 0.718

Rainfall:Temperature 0.007966 0.021779 0.021781 0.366 0.715

DenningYes:Temperature -0.038835 0.183825 0.183860 0.211 0.833

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 62.982890 3.794458 3.796200 16.591 < 2e-16 \*\*\*

Temperature -0.828668 0.128430 0.128491 6.449 < 2e-16 \*\*\*

DenningYes 7.497329 4.948398 4.949382 1.515 0.129823

Moonlight -0.212285 0.062237 0.062268 3.409 0.000651 \*\*\*

Moonrise\_sun -0.005729 0.032695 0.032711 0.175 0.860980

Rainfall -1.416138 0.632705 0.633018 2.237 0.025278 \*

Rainfall:Temperature 0.057593 0.023899 0.023911 2.409 0.016010 \*

DenningYes:Temperature -0.576225 0.437881 0.438098 1.315 0.188413

---

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

Relative variable importance:

Denning Temperature Moonlight Moonrise\_sun Rainfall Rainfall:Temperature

Importance: 1.00 1.00 0.45 0.45 0.14 0.14

N containing models: 6 7 7 7 3 2

Denning:Temperature

Importance: 0.07

N containing models: 1

Call:

model.avg(object = Evening\_start)

Component model call:

lme.formula(fixed = <10 unique values>, data = Evening2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

1235 7 6089.15 -12164.26 0.00 0.9

15 5 6084.90 -12159.78 4.48 0.1

235 6 6079.39 -12146.75 17.51 0.0

2345 7 6077.13 -12140.22 24.04 0.0

5 4 6073.28 -12138.53 25.73 0.0

123457 9 6077.74 -12137.42 26.85 0.0

1234567 10 6074.51 -12128.94 35.33 0.0

1 4 6034.40 -12060.78 103.48 0.0

123 6 6033.45 -12054.87 109.40 0.0

23 5 6013.91 -12017.80 146.46 0.0

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 6.555e-01 6.315e-03 6.318e-03 103.756 < 2e-16 \*\*\*

Temperature 2.430e-03 2.157e-04 2.158e-04 11.260 < 2e-16 \*\*\*

Moonlight 6.374e-04 2.317e-04 2.317e-04 2.751 0.00594 \*\*

Moonrise\_sun -1.275e-06 5.360e-05 5.363e-05 0.024 0.98104

DenningYes -7.509e-03 1.350e-03 1.350e-03 5.561 < 2e-16 \*\*\*

Rainfall -2.271e-09 1.581e-06 1.581e-06 0.001 0.99885

Rainfall:Temperature 1.429e-11 4.964e-08 4.967e-08 0.000 0.99977

DenningYes:Temperature -3.589e-11 2.790e-07 2.790e-07 0.000 0.99990

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 6.555e-01 6.315e-03 6.318e-03 103.756 <2e-16 \*\*\*

Temperature 2.430e-03 2.157e-04 2.158e-04 11.260 <2e-16 \*\*\*

Moonlight 7.051e-04 1.076e-04 1.077e-04 6.548 <2e-16 \*\*\*

Moonrise\_sun -1.410e-06 5.638e-05 5.641e-05 0.025 0.9801

DenningYes -7.510e-03 1.347e-03 1.347e-03 5.575 <2e-16 \*\*\*

Rainfall -3.345e-04 5.060e-04 5.063e-04 0.661 0.5088

Rainfall:Temperature 1.053e-05 4.129e-05 4.131e-05 0.255 0.7989

DenningYes:Temperature -1.862e-03 7.552e-04 7.556e-04 2.465 0.0137 \*

---

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

Relative variable importance:

Temperature Denning Moonlight Moonrise\_sun Rainfall Rainfall:Temperature

Importance: 1 1 0.9 0.9 <0.01 <0.01

N containing models: 7 6 7 7 3 2

Denning:Temperature

Importance: <0.01

N containing models: 1

Call:

model.avg(object = Evening\_stop)

Component model call:

lme.formula(fixed = <10 unique values>, data = Evening2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

1 4 6057.25 -12106.48 0.00 0.54

23 5 6058.04 -12106.05 0.43 0.43

5 4 6053.96 -12099.90 6.58 0.02

123 6 6054.71 -12097.39 9.09 0.01

15 5 6051.98 -12093.93 12.55 0.00

235 6 6051.53 -12091.03 15.44 0.00

1235 7 6048.80 -12083.56 22.92 0.00

2345 7 6043.57 -12073.10 33.37 0.00

123457 9 6031.83 -12045.59 60.88 0.00

1234567 10 6025.66 -12031.23 75.24 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 8.210e-01 2.368e-03 2.368e-03 346.637 <2e-16 \*\*\*

DenningYes 1.782e-03 1.904e-03 1.904e-03 0.936 0.349

Moonlight -2.659e-04 3.082e-04 3.082e-04 0.863 0.388

Moonrise\_sun -3.052e-06 3.837e-05 3.839e-05 0.079 0.937

Temperature 7.931e-06 6.212e-05 6.213e-05 0.128 0.898

Rainfall -2.569e-12 2.029e-08 2.030e-08 0.000 1.000

Rainfall:Temperature 7.241e-19 8.596e-12 8.600e-12 0.000 1.000

DenningYes:Temperature -7.669e-21 4.110e-12 4.112e-12 0.000 1.000

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 8.210e-01 2.368e-03 2.368e-03 346.637 <2e-16 \*\*\*

DenningYes 3.271e-03 1.335e-03 1.335e-03 2.449 0.0143 \*

Moonlight -6.032e-04 1.096e-04 1.096e-04 5.501 <2e-16 \*\*\*

Moonrise\_sun -6.**923e**-06 5.756e-05 5.758e-05 0.120 0.9043

Temperature 3.718e-04 2.137e-04 2.138e-04 1.739 0.0820 .

Rainfall -8.433e-05 8.006e-05 8.010e-05 1.053 0.2924

Rainfall:Temperature 2.234e-05 4.220e-05 4.222e-05 0.529 0.5967

DenningYes:Temperature -3.111e-04 7.671e-04 7.675e-04 0.405 0.6852

---

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

Relative variable importance:

Denning Moonlight Moonrise\_sun Temperature Rainfall Rainfall:Temperature

Importance: 0.54 0.44 0.44 0.02 <0.01 <0.01

N containing models: 6 7 7 7 3 2

Denning:Temperature

Importance: <0.01

N containing models: 1

# Night

Call:

model.avg(object = Night\_dur)

Component model call:

lme.formula(fixed = <10 unique values>, data = Night2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

1234567 10 -4808.23 9636.72 0.00 0.47

1235 7 -4811.96 9638.06 1.34 0.24

123 6 -4813.21 9638.52 1.80 0.19

123457 9 -4811.68 9641.58 4.86 0.04

235 6 -4815.32 9642.74 6.02 0.02

23 5 -4816.52 9643.10 6.38 0.02

2345 7 -4814.64 9643.41 6.69 0.02

15 5 -4860.47 9731.00 94.28 0.00

1 4 -4861.74 9731.53 94.81 0.00

5 4 -4863.86 9735.77 99.05 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 80.693485 32.924857 32.969641 2.448 0.0144 \*

Temperature 0.561001 1.153891 1.155449 0.486 0.6273

Rainfall -0.286073 5.161279 5.168731 0.055 0.9559

Moonlight 5.593083 0.589409 0.590251 9.476 <2e-16 \*\*\*

Moonrise\_sun 0.835557 0.418057 0.418661 1.996 0.0460 \*

DenningYes 96.100976 152.141077 152.268207 0.631 0.5280

Rainfall:Temperature 0.002068 0.191916 0.192194 0.011 0.9914

DenningYes:Temperature -3.481789 5.698060 5.702821 0.611 0.5415

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 80.693485 32.924857 32.969641 2.448 0.0144 \*

Temperature 0.710042 1.256730 1.258540 0.564 0.5726

Rainfall -0.543276 7.102782 7.113067 0.076 0.9391

Moonlight 5.593083 0.589409 0.590251 9.476 <2e-16 \*\*\*

Moonrise\_sun 0.835557 0.418057 0.418661 1.996 0.0460 \*

DenningYes 102.117825 154.860258 154.992975 0.659 0.5100

Rainfall:Temperature 0.004055 0.268707 0.269096 0.015 0.9880

DenningYes:Temperature -7.428052 6.320915 6.330069 1.173 0.2406

---

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

Relative variable importance:

Moonlight Moonrise\_sun Denning Temperature Rainfall Rainfall:Temperature

Importance: 1.00 1.00 0.94 0.79 0.53 0.51

N containing models: 7 7 6 7 3 2

Denning:Temperature

Importance: 0.47

N containing models: 1

Call:

model.avg(object = Night\_Intensity)

Component model call:

lme.formula(fixed = <10 unique values>, data = Night2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

1235 7 -3435.30 6884.72 0.00 0.38

123 6 -3436.41 6884.92 0.19 0.35

23 5 -3438.41 6886.90 2.17 0.13

235 6 -3437.62 6887.34 2.62 0.10

2345 7 -3438.33 6890.80 6.07 0.02

1234567 10 -3435.93 6892.12 7.40 0.01

123457 9 -3437.31 6892.84 8.11 0.01

1 4 -3459.93 6927.91 43.19 0.00

15 5 -3459.20 6928.47 43.74 0.00

5 4 -3461.41 6930.87 46.15 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 28.515881 7.838776 7.843595 3.636 0.000277 \*\*\*

Temperature 0.219416 0.272914 0.273073 0.804 0.421681

Moonlight 0.864382 0.117274 0.117443 7.360 < 2e-16 \*\*\*

Moonrise\_sun -0.011170 0.083120 0.083240 0.134 0.893255

DenningYes 1.369633 4.401527 4.406115 0.311 0.755916

Rainfall 0.023697 0.273094 0.273271 0.087 0.930896

Rainfall:Temperature -0.001038 0.010566 0.010572 0.098 0.921756

DenningYes:Temperature 0.008147 0.147839 0.147985 0.055 0.956095

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 28.51588 7.83878 7.84360 3.636 0.000277 \*\*\*

Temperature 0.42044 0.24125 0.24160 1.740 0.081815 .

Moonlight 0.86438 0.11727 0.11744 7.360 < 2e-16 \*\*\*

Moonrise\_sun -0.01117 0.08312 0.08324 0.134 0.893255

DenningYes 1.82946 5.00364 5.00903 0.365 0.714939

Rainfall 0.68578 1.30546 1.30653 0.525 0.599661

Rainfall:Temperature -0.06435 0.05333 0.05341 1.205 0.228210

DenningYes:Temperature 0.85856 1.25424 1.25605 0.684 0.494267

---

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

Relative variable importance:

Moonlight Moonrise\_sun Denning Temperature Rainfall Rainfall:Temperature

Importance: 1.00 1.00 0.75 0.52 0.03 0.02

N containing models: 7 7 6 7 3 2

Denning:Temperature

Importance: 0.01

N containing models: 1

Call:

model.avg(object = Night\_start)

Component model call:

lme.formula(fixed = <10 unique values>, data = Night2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

23 5 -484.31 978.68 0.00 0.72

235 6 -484.53 981.15 2.47 0.21

123 6 -485.85 983.80 5.11 0.06

1235 7 -486.27 986.66 7.98 0.01

2345 7 -488.07 990.28 11.59 0.00

5 4 -494.93 997.90 19.22 0.00

1 4 -495.74 999.52 20.84 0.00

15 5 -496.64 1003.35 24.67 0.00

123457 9 -494.93 1008.08 29.40 0.00

1234567 10 -496.47 1013.19 34.51 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 6.617e-01 2.626e-01 2.626e-01 2.520 0.0118 \*

Moonlight -3.644e-03 3.731e-03 3.736e-03 0.975 0.3293

Moonrise\_sun 1.691e-02 2.677e-03 2.680e-03 6.310 <2e-16 \*\*\*

Temperature -4.627e-03 9.283e-03 9.285e-03 0.498 0.6183

DenningYes 2.812e-03 2.077e-02 2.079e-02 0.135 0.8924

Rainfall 1.208e-05 3.112e-04 3.113e-04 0.039 0.9690

Rainfall:Temperature 4.424e-10 1.246e-06 1.247e-06 0.000 0.9997

DenningYes:Temperature 1.148e-09 9.730e-06 9.736e-06 0.000 0.9999

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 0.661749 0.262587 0.262647 2.520 0.01175 \*

Moonlight -0.003645 0.003731 0.003736 0.976 0.32929

Moonrise\_sun 0.016916 0.002673 0.002677 6.320 < 2e-16 \*\*\*

Temperature -0.020582 0.007413 0.007424 2.773 0.00556 \*\*

DenningYes 0.040711 0.068572 0.068667 0.593 0.55326

Rainfall 0.005533 0.003714 0.003720 1.487 0.13689

Rainfall:Temperature 0.001382 0.001715 0.001717 0.805 0.42109

DenningYes:Temperature 0.049743 0.040332 0.040391 1.232 0.21811

---

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

Relative variable importance:

Moonlight Moonrise\_sun Temperature Denning Rainfall Rainfall:Temperature

Importance: 1 1 0.22 0.07 <0.01 <0.01

N containing models: 7 7 7 6 3 2

Denning:Temperature

Importance: <0.01

N containing models: 1

Call:

model.avg(object = Night\_stop)

Component model call:

lme.formula(fixed = <10 unique values>, data = Night2, random = ~1 | ID, na.action =

na.exclude)

Component models:

df logLik AICc delta weight

23 5 -222.96 455.99 0.00 0.68

123 6 -223.01 458.12 2.12 0.24

235 6 -224.19 460.48 4.49 0.07

1235 7 -225.03 464.19 8.19 0.01

1 4 -231.02 470.09 14.09 0.00

2345 7 -228.28 470.69 14.69 0.00

5 4 -232.48 473.01 17.01 0.00

15 5 -233.28 476.63 20.64 0.00

123457 9 -234.29 486.79 30.80 0.00

1234567 10 -233.97 488.19 32.20 0.00

Term codes:

Denning Moonlight Moonrise\_sun Rainfall Temperature

1 2 3 4 5

Denning:Temperature Rainfall:Temperature

6 7

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 3.851e-01 1.152e-01 1.153e-01 3.342 0.000833 \*\*\*

Moonlight -1.685e-02 2.776e-03 2.780e-03 6.060 < 2e-16 \*\*\*

Moonrise\_sun 2.331e-03 1.974e-03 1.977e-03 1.179 0.238261

DenningYes 2.444e-02 4.922e-02 4.924e-02 0.496 0.619626

Temperature -1.113e-03 4.002e-03 4.002e-03 0.278 0.780935

Rainfall 1.604e-06 9.772e-05 9.777e-05 0.016 0.986908

Rainfall:Temperature -2.800e-10 8.421e-07 8.427e-07 0.000 0.999735

DenningYes:Temperature 4.985e-09 2.048e-05 2.048e-05 0.000 0.999806

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 0.385140 0.115222 0.115253 3.342 0.000833 \*\*\*

Moonlight -0.016859 0.002738 0.002742 6.148 < 2e-16 \*\*\*

Moonrise\_sun 0.002333 0.001973 0.001976 1.180 0.237839

DenningYes 0.098902 0.049397 0.049468 1.999 0.045575 \*

Temperature -0.013238 0.005471 0.005479 2.416 0.015684 \*

Rainfall 0.003658 0.002898 0.002902 1.261 0.207471

Rainfall:Temperature -0.001340 0.001264 0.001266 1.058 0.289964

DenningYes:Temperature 0.071850 0.029684 0.029727 2.417 0.015651 \*

---

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

Relative variable importance:

Moonlight Moonrise\_sun Denning Temperature Rainfall Rainfall:Temperature

Importance: 1 1 0.25 0.08 <0.01 <0.01

N containing models: 7 7 6 7 3 2

Denning:Temperature

Importance: <0.01

N containing models: 1

Dikdik distance to glades

> summary(model.avg(dik.glade.models))

Call:

model.avg(object = dik.glade.models)

Component model call:

lmer(formula = gladedistmin ~ <22 unique rhs>, data = na.omit(dikdik))

Component models:

df logLik AICc delta weight

3 5 3475.99 -6941.87 0.00 1

4 5 3469.23 -6928.35 13.52 0

1 5 3466.35 -6922.58 19.29 0

1/3 6 3465.59 -6919.02 22.85 0

1/4 6 3459.12 -6906.08 35.79 0

3/4/10 7 3459.11 -6904.01 37.86 0

2 7 3457.15 -6900.10 41.77 0

1/3/6 7 3454.72 -6895.23 46.64 0

1/4/7 7 3450.02 -6885.84 56.03 0

2/4 8 3450.00 -6883.74 58.13 0

1/2/3 9 3446.29 -6874.26 67.61 0

1/2/4 9 3439.88 -6861.45 80.43 0

2/3/8 11 3436.51 -6850.54 91.34 0

1/2/3/6 10 3435.43 -6850.46 91.41 0

1/2/4/7 10 3430.81 -6841.23 100.64 0

2/4/9 11 3428.42 -6834.36 107.51 0

1/2/3/8 12 3426.13 -6827.70 114.17 0

1/2/4/9 12 3418.32 -6812.08 129.79 0

1/2/3/5/8 15 3396.74 -6762.61 179.27 0

1/2/4/5/9 15 3388.75 -6746.64 195.23 0

1/2/3/5/6/8 16 3385.92 -6738.86 203.01 0

1/2/4/5/7/9 16 3379.67 -6726.36 215.51 0

Term codes:

maxtemp partofday rain season maxtemp:partofday

1 2 3 4 5

maxtemp:rain maxtemp:season partofday:rain partofday:season rain:season

6 7 8 9 10

Model-averaged coefficients:

(full average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 1.132e-03 6.027e-04 6.040e-04 1.874 0.0609 .

rain -2.692e-05 5.655e-06 5.666e-06 4.750 2e-06 \*\*\*

seasonWet 1.732e-07 6.038e-06 6.041e-06 0.029 0.9771

maxtemp 7.170e-10 1.397e-07 1.399e-07 0.005 0.9959

rain:seasonWet -2.946e-14 2.444e-09 2.450e-09 0.000 1.0000

partofdayB -1.058e-13 3.910e-09 3.911e-09 0.000 1.0000

partofdayC 4.869e-14 2.242e-09 2.244e-09 0.000 1.0000

partofdayD -7.711e-14 3.039e-09 3.040e-09 0.000 1.0000

maxtemp:rain -1.117e-16 6.551e-11 6.565e-11 0.000 1.0000

maxtemp:seasonWet 1.843e-17 3.100e-11 3.103e-11 0.000 1.0000

partofdayB:rain -6.659e-25 5.635e-15 5.635e-15 0.000 1.0000

partofdayC:rain -6.819e-25 5.764e-15 5.765e-15 0.000 1.0000

partofdayD:rain -5.591e-25 4.778e-15 4.779e-15 0.000 1.0000

partofdayB:seasonWet -1.967e-28 2.612e-16 2.617e-16 0.000 1.0000

partofdayC:seasonWet -3.342e-28 2.978e-16 2.983e-16 0.000 1.0000

partofdayD:seasonWet 8.986e-28 4.928e-16 4.931e-16 0.000 1.0000

partofdayB:seasonWet -1.967e-28 2.612e-16 2.617e-16 0.000 1.0000

partofdayC:seasonWet -3.342e-28 2.978e-16 2.983e-16 0.000 1.0000

partofdayD:seasonWet 8.986e-28 4.928e-16 4.931e-16 0.000 1.0000

maxtemp:partofdayB 1.113e-44 6.143e-25 6.153e-25 0.000 1.0000

maxtemp:partofdayC -6.370e-45 5.590e-25 5.601e-25 0.000 1.0000

maxtemp:partofdayD -1.910e-44 7.660e-25 7.668e-25 0.000 1.0000

(conditional average)

Estimate Std. Error Adjusted SE z value Pr(>|z|)

(Intercept) 1.132e-03 6.027e-04 6.040e-04 1.874 0.060876 .

rain -2.695e-05 5.579e-06 5.591e-06 4.820 1.4e-06 \*\*\*

seasonWet 1.497e-04 9.549e-05 9.569e-05 1.565 0.117677

maxtemp 9.479e-06 1.298e-05 1.300e-05 0.729 0.465976

rain:seasonWet -4.912e-06 3.118e-05 3.125e-05 0.157 0.875080

partofdayB -1.246e-04 4.988e-05 4.999e-05 2.492 0.012688 \*

partofdayC 5.736e-05 5.128e-05 5.139e-05 1.116 0.264375

partofdayD -9.085e-05 5.123e-05 5.134e-05 1.770 0.076801 .

maxtemp:rain -1.501e-06 7.445e-06 7.462e-06 0.201 0.840543

maxtemp:seasonWet 2.710e-05 2.605e-05 2.610e-05 1.038 0.299244

partofdayB:rain -4.543e-05 1.011e-05 1.013e-05 4.486 7.2e-06 \*\*\*

partofdayC:rain -4.653e-05 1.012e-05 1.014e-05 4.589 4.4e-06 \*\*\*

partofdayD:rain -3.815e-05 1.012e-05 1.014e-05 3.763 0.000168 \*\*\*

partofdayB:seasonWet -4.358e-05 1.150e-04 1.152e-04 0.378 0.705224

partofdayC:seasonWet -7.405e-05 1.190e-04 1.193e-04 0.621 0.534752

partofdayD:seasonWet 1.991e-04 1.190e-04 1.192e-04 1.670 0.094966 .

partofdayB:seasonWet -4.358e-05 1.150e-04 1.152e-04 0.378 0.705224

partofdayC:seasonWet -7.405e-05 1.190e-04 1.193e-04 0.621 0.534752

partofdayD:seasonWet 1.991e-04 1.190e-04 1.192e-04 1.670 0.094966 .

maxtemp:partofdayB 9.424e-06 1.518e-05 1.522e-05 0.619 0.535758

maxtemp:partofdayC -5.391e-06 1.534e-05 1.538e-05 0.351 0.725900

maxtemp:partofdayD -1.616e-05 1.534e-05 1.537e-05 1.052 0.292982

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

Relative variable importance:

rain season maxtemp rain:season partofday maxtemp:rain maxtemp:season partofday:rain

Importance: 1 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01

N containing models: 10 11 15 1 14 3 3 4

partofday:season maxtemp:partofday

Importance: <0.01 <0.01

N containing models: 4 4