

Supplemental Tables for:
Does Life Seem Better on a Sunny Day?
Examining the Association Between Daily Weather Conditions and Life Satisfaction
Judgments

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Supplemental Tables

Table 1
Estimates for Precipitation, Snowfall, Minimum and Maximum Temperature Using the County-Level Data.

| | Precipitation | | Snowfall | | Minimum Temp. | | Maximum Temp. | |
|----------------------|---------------|---------|-----------|-----------|---------------|---------|---------------|---------|
| | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.384* | 0.001 | 3.385* | 0.001 | 3.385* | 0.001 | 3.384* | 0.001 |
| Daily | -0.027 | 0.023 | 0.129 | 0.232 | -0.125 | 0.077 | -0.072 | 0.066 |
| Monthly | -0.215 | 0.126 | 0.530 | 0.566 | -0.029 | 0.038 | -0.032 | 0.036 |
| County | -1.184* | 0.346 | 5.376* | 1.684 | 0.046 | 0.170 | 0.204 | 0.169 |
| Daily:Monthly | 3.604 | 4.151 | 47.730 | 88.095 | 4.974 | 5.573 | 4.469 | 4.580 |
| Daily:County | 3.716 | 5.996 | -150.832 | 152.463 | -5.797 | 10.063 | -1.576 | 8.786 |
| Monthly:County | 12.289 | 23.414 | -694.985* | 318.708 | -19.557* | 4.993 | -19.881* | 4.722 |
| Daily:Monthly:County | -399.783 | 664.057 | 2857.105 | 39721.370 | -133.385 | 734.747 | 81.122 | 621.607 |

Note. * = p<.05.

Table 2

Estimates for Maximum Relative Humidity, Average Wind Speed, and Barometric Pressure Using the County-Level Data.

| | Humidity | | Wind Speed | | Pressure | |
|----------------------|----------|-------|------------|-------|----------|--------|
| | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.385* | 0.003 | 3.385* | 0.003 | 3.385* | 0.003 |
| Daily | 0.007 | 0.010 | -0.018 | 0.026 | 0.108* | 0.048 |
| Monthly | -0.033* | 0.015 | 0.079 | 0.057 | 0.141 | 0.107 |
| County | 0.011 | 0.031 | -0.092 | 0.108 | -0.040* | 0.017 |
| Daily:Monthly | 0.208 | 0.160 | -1.316 | 1.751 | 10.898* | 5.173 |
| Daily:County | -0.001 | 0.070 | -0.068 | 0.402 | -0.523 | 0.341 |
| Monthly:County | -0.138 | 0.086 | -1.088 | 0.650 | -1.100 | 0.672 |
| Daily:Monthly:County | 0.630 | 0.749 | 5.132 | 7.961 | -2.094 | 42.561 |

Note. *=p<.05.

Table 3
Estimates for Extreme Precipitation, Snowfall, and Temperature Using the County-Level Data.

| | Precipitation | | Snowfall | | Heat | | Cold | |
|------------------------|---------------|--------|-----------|----------|----------|--------|----------|--------|
| | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.384* | 0.001 | 3.385* | 0.001 | 3.385* | 0.001 | 3.384* | 0.001 |
| Extreme | -0.003 | 0.003 | 0.026 | 0.029 | -0.004 | 0.002 | 0.001 | 0.002 |
| Monthly | -0.230 | 0.132 | 0.493 | 0.568 | -0.052 | 0.038 | -0.016 | 0.040 |
| County | -1.175* | 0.347 | 5.327* | 1.685 | 0.178 | 0.171 | -0.017 | 0.172 |
| Extreme:Monthly | 0.537 | 0.512 | -3.772 | 10.904 | 0.059 | 0.138 | -0.087 | 0.152 |
| Extreme:County | 0.568 | 0.665 | -0.894 | 20.330 | 0.115 | 0.276 | 0.273 | 0.276 |
| Monthly:County | 19.936 | 25.054 | -700.435* | 320.593 | -19.540* | 4.976 | -18.203* | 5.277 |
| Extreme:Monthly:County | -110.348 | 86.737 | 806.086 | 4780.674 | -3.801 | 19.161 | -4.167 | 20.456 |

Note. *= $p < .05$.

Table 4

Estimates for Extreme Humidity, Wind, and Pressure Using the County-Level Data.

| | High Humidity | | Low Humidity | | Wind Speed | | High Pressure | | Low Pressure | |
|------------------------|---------------|-------|--------------|-------|------------|-------|---------------|-------|--------------|-------|
| | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.386* | 0.003 | 3.385* | 0.003 | 3.386* | 0.003 | 3.385* | 0.003 | 3.385* | 0.003 |
| Extreme | -0.000 | 0.003 | -0.003 | 0.011 | -0.004 | 0.005 | 0.010* | 0.005 | -0.006 | 0.004 |
| Monthly | -0.022 | 0.017 | -0.020 | 0.018 | 0.112 | 0.061 | 0.090 | 0.109 | 0.176 | 0.110 |
| County | 0.016 | 0.031 | 0.016 | 0.032 | -0.048 | 0.119 | -0.039* | 0.017 | -0.042* | 0.017 |
| Extreme:Monthly | -0.043 | 0.045 | -0.058 | 0.055 | -0.175 | 0.247 | 1.655* | 0.569 | -0.623 | 0.472 |
| Extreme:County | -0.047 | 0.050 | -0.006 | 0.043 | -0.064 | 0.134 | -0.103* | 0.039 | 0.067* | 0.028 |
| Monthly:County | -0.095 | 0.093 | -0.181 | 0.123 | -0.472 | 1.602 | -0.941 | 0.681 | -1.114 | 0.686 |
| Extreme:Monthly:County | 0.046 | 0.389 | -0.016 | 0.238 | -0.081 | 1.964 | -11.454* | 4.686 | 2.332 | 3.495 |

Note. * = p<.05.

Table 5

Estimates for Weather Variables When Change in Conditions is Included in the Model and Using County-Level Data.

| | Precipitation | | Snowfall | | Minimum Temp. | | Maximum Temp. | |
|-------------|---------------|----------|------------|------------|---------------|------------|---------------|-----------|
| | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.384* | 0.001 | 3.385* | 0.001 | 3.385* | 0.001 | 3.385* | 0.001 |
| Daily (D) | -0.054 | 0.034 | 0.044 | 0.363 | -0.147 | 0.083 | -0.033 | 0.071 |
| Change (Ch) | 0.037 | 0.024 | -0.075 | 0.231 | 0.055 | 0.110 | -0.244* | 0.099 |
| Monthly (M) | -0.207 | 0.128 | 0.464 | 0.573 | -0.016 | 0.040 | -0.012 | 0.037 |
| County (Co) | -1.186* | 0.346 | 5.287* | 1.687 | 0.052 | 0.172 | 0.182 | 0.171 |
| D:Ch | -0.005 | 0.191 | 3.477 | 5.360 | -20.311 | 13.920 | -21.347* | 9.681 |
| D:M | 6.049 | 6.016 | 76.416 | 131.003 | 1.882 | 6.040 | 5.693 | 4.992 |
| Ch:M | -2.861 | 4.511 | -42.335 | 87.938 | 9.840 | 7.885 | -12.469 | 6.688 |
| D:Co | 5.934 | 8.265 | -151.253 | 216.529 | -14.083 | 10.841 | -1.148 | 9.514 |
| Ch:Co | -3.497 | 6.275 | 45.900 | 153.986 | 23.214 | 14.498 | -9.662 | 13.486 |
| M:Co | 11.157 | 23.581 | -712.170* | 323.589 | -18.664* | 5.222 | -18.443* | 4.923 |
| D:Ch:M | -2.706 | 25.598 | -523.106 | 1635.661 | -1722.812 | 932.649 | -1549.439* | 612.792 |
| D:Ch:Co | 5.590 | 38.627 | -667.848 | 2902.386 | -1955.350 | 1826.272 | -385.805 | 1326.153 |
| D:M:Co | -821.059 | 911.127 | -26085.856 | 53099.071 | -777.409 | 794.933 | -167.025 | 674.903 |
| Ch:M:C | 421.173 | 770.254 | 29649.012 | 37396.144 | 1955.105 | 1049.270 | -26.908 | 930.288 |
| D:Ch:M:C | 772.528 | 3507.078 | 385288.163 | 687639.417 | -165035.123 | 120174.174 | -110090.125 | 85334.777 |

Note. * = p<.05.

Table 6

Estimates for Maximum Relative Humidity, Average Wind Speed, and Barometric Pressure When Change in Conditions is Included in the Model and Using County-Level Data.

| | Humidity | | Wind Speed | | Pressure | |
|-----------------------------|----------|-------|------------|---------|----------|----------|
| | Estimate | SE | Estimate | SE | Estimate | SE |
| (Intercept) | 3.385* | 0.003 | 3.385* | 0.003 | 3.385* | 0.003 |
| Daily | 0.006 | 0.012 | -0.046 | 0.033 | 0.143* | 0.055 |
| Change | 0.003 | 0.011 | 0.038 | 0.028 | -0.034 | 0.058 |
| Monthly | -0.026 | 0.016 | 0.087 | 0.062 | 0.136 | 0.107 |
| County | 0.009 | 0.031 | -0.089 | 0.108 | -0.043* | 0.017 |
| Daily:Change | 0.046 | 0.070 | 0.148 | 0.494 | 0.622 | 1.996 |
| Daily:Monthly | 0.239 | 0.186 | 0.646 | 2.207 | 12.504 | 6.476 |
| Daily:County | 0.071 | 0.079 | 0.153 | 0.502 | -0.140 | 0.382 |
| Change:Monthly | -0.108 | 0.180 | -2.535 | 1.851 | -11.072 | 6.049 |
| Change:County | -0.191* | 0.086 | -0.233 | 0.435 | -0.638 | 0.415 |
| Monthly:County | -0.116 | 0.090 | -1.168 | 0.722 | -1.152 | 0.680 |
| Daily:Change:Monthly | -1.097 | 0.996 | -12.298 | 30.336 | -46.769 | 81.145 |
| Daily:Change:County | 0.299 | 0.421 | -1.843 | 3.107 | 26.228 | 17.329 |
| Daily:Monthly:County | 1.235 | 0.843 | 0.082 | 9.962 | -23.334 | 47.720 |
| Change:Monthly:County | -1.808* | 0.903 | 5.213 | 8.561 | 17.601 | 46.849 |
| Daily:Change:Monthly:County | -5.123 | 4.659 | 53.176 | 115.448 | 1115.943 | 1131.566 |

Note. * = $p < .05$.

SUPPLEMENTAL TABLES

Table 7

Estimates for Gender Effects in Metro-Area-Level Data.

| | Cloud Cover | | Temperature | | Precipitation | | Pressure | | Wind Speed | | Humidity | |
|-------------|-------------|-------|-------------|-------|---------------|---------|----------|-------|------------|---------|----------|-------|
| | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE | Estimate | SE |
| Intercept | 3.392* | 0.003 | 3.394* | 0.003 | 3.394* | 0.003 | 3.394* | 0.003 | 3.395* | 0.003 | 3.395* | 0.003 |
| Daily (D) | -0.000 | 0.004 | -0.005 | 0.015 | 0.021 | 0.039 | 0.012* | 0.005 | -0.007 | 0.032 | -0.007 | 0.008 |
| Monthly (M) | 0.009 | 0.015 | -0.007 | 0.007 | 0.097 | 0.269 | 0.026 | 0.017 | -0.052 | 0.095 | 0.035 | 0.020 |
| Area (A) | -0.113* | 0.027 | 0.107* | 0.029 | -0.375 | 0.581 | 0.006 | 0.068 | -0.017 | 0.135 | -0.068* | 0.033 |
| Female (F) | -0.006* | 0.001 | -0.007* | 0.001 | -0.007* | 0.001 | -0.006* | 0.001 | -0.006* | 0.001 | -0.006* | 0.001 |
| D:M | -0.085 | 0.067 | 0.061 | 0.103 | -1.370 | 4.204 | -0.028 | 0.089 | 3.717 | 3.080 | -0.091 | 0.164 |
| D:A | -0.012 | 0.049 | 0.249 | 0.216 | -7.352 | 6.680 | 0.163 | 0.142 | 1.995 | 1.584 | 0.049 | 0.097 |
| M:A | 0.012 | 0.173 | -0.177 | 0.101 | -48.598 | 35.303 | 0.022 | 0.360 | 5.519 | 4.808 | -0.059 | 0.164 |
| D:F | 0.003 | 0.005 | -0.006 | 0.019 | -0.031 | 0.049 | -0.012 | 0.007 | 0.016 | 0.041 | 0.012 | 0.010 |
| M:F | -0.012 | 0.020 | 0.004 | 0.009 | -0.213 | 0.341 | -0.044* | 0.022 | 0.175 | 0.120 | -0.058* | 0.025 |
| A:F | 0.048* | 0.014 | -0.052* | 0.016 | -0.289 | 0.289 | 0.004 | 0.036 | 0.114 | 0.067 | 0.048* | 0.016 |
| D:M:A | -0.689 | 0.772 | 3.457* | 1.442 | 102.882 | 486.441 | 2.499 | 1.785 | 116.488 | 140.308 | 0.505 | 1.308 |
| D:M:F | 0.052 | 0.085 | -0.036 | 0.130 | -0.144 | 5.491 | 0.136 | 0.113 | -5.296 | 3.899 | 0.040 | 0.208 |
| D:A:F | 0.018 | 0.062 | -0.120 | 0.273 | 20.676* | 8.746 | -0.113 | 0.182 | -4.779* | 2.015 | -0.054 | 0.123 |
| M:A:F | -0.043 | 0.219 | 0.115 | 0.128 | 76.868 | 45.657 | -0.594 | 0.460 | -4.086 | 6.110 | 0.093 | 0.209 |
| D:M:A:F | 1.646 | 0.981 | -2.961 | 1.833 | -204.337 | 619.715 | -3.870 | 2.298 | -57.365 | 178.823 | -0.361 | 1.662 |

Note. * = p < .05.