

| Covariates | | Univariate | | Multivariate | | Multilevel: (1 location) + (1 method) | | | |
|--------------------|---------------------|--------------------|----------|---------------------|----------|--|----------|-----------------|-----------|
| Model 1 | | HR(95%CI) | p | HR(95%CI) | p | HR(95%CI) | p | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.14(1.12-1.15) | <0.05 | 1.14(1.12-1.15) | <0.05 | - | - |
| MWI _{max} | | 0.69(0.64-0.75) | <0.05 | 0.65(0.60-0.70) | <0.05 | 0.65(0.60-0.70) | <0.05 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.80(0.77-0.83) | <0.05 | - | - | 0.0246 | 0.1570 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.29(1.25-1.34) | <0.05 | - | - | 0.0349 | 0.1869 |
| Model 2 | | HR(95%CI) | p | HR(95%CI) | p | HR(95%CI) | p | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.18(1.16-1.20) | <0.05 | 1.18(1.16-1.20) | <0.05 | - | - |
| MWI _{min} | | 1.16(1.09-1.24) | <0.05 | 0.67(0.62-0.72) | <0.05 | 0.67(0.62-0.72) | <0.05 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.77(0.75-0.80) | <0.05 | - | - | 0.0318 | 0.1783 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.30(1.25-1.35) | <0.05 | - | - | 0.0355 | 0.1886 |
| Model 3 | | HR(95%CI) | p | HR(95%CI) | p | HR(95%CI) | p | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.23(1.20-1.26) | <0.05 | 1.23(1.20-1.26) | <0.05 | - | - |
| Mintemperature | | 1.03(1.03-1.03) | <0.05 | 0.97(0.96-0.98) | <0.05 | 0.973(0.965-0.981) | <0.05 | - | - |
| MinRH | | 0.997(0.996-0.999) | <0.05 | 0.99(0.997-1.0001) | 0.07 | 0.998(0.997-1) | 0.078 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.79(0.76-0.82) | <0.05 | - | - | 0.0266 | 0.1632 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.30(1.25-1.35) | <0.05 | - | - | 0.0357 | 0.1891 |

| <i>Covariates</i> | | <i>Univariate</i> | | <i>Multivariate</i> | | <i>Multilevel: (1 location) + (1 method)</i> | | | |
|-------------------|---------------------|--------------------|----------|---------------------|----------|--|----------|-----------------|-----------|
| Model 4 | | HR(95%CI) | <i>p</i> | HR(95%CI) | <i>p</i> | HR(95%CI) | <i>p</i> | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.23(1.20-1.26) | <0.05 | 1.23(1.20-1.26) | <0.05 | - | - |
| Mintemperature | | 1.03(1.03-1.03) | <0.05 | 0.97(0.96-0.978) | <0.05 | 0.97(0.96-0.978) | <0.05 | - | - |
| MaxRH | | 0.996(0.995-0.998) | <0.05 | 0.997(0.995-0.999) | 0.04 | 0.997(0.995-0.999) | 0.042 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.79(0.77-0.82) | <0.05 | - | - | 0.0257 | 0.1604 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.30(1.25-1.35) | <0.05 | - | - | 0.0358 | 0.1893 |
| Model 5 | | | | | | HR(95%CI) | <i>p</i> | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.25(1.21-1.28) | <0.05 | 1.25(1.21-1.28) | <0.05 | - | - |
| GDD | | 1.04(1.03-1.04) | <0.05 | 0.96(0.95-0.97) | <0.05 | 0.96(0.95-0.97) | <0.05 | - | - |
| minRH | | 0.997(0.996-0.999) | <0.05 | 0.99(0.996-0.999) | 0.005 | 0.998(0.996-0.999) | 0.005 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.82(0.79-0.85) | <0.05 | - | - | 0.0186 | 0.1365 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.30(1.25-1.35) | <0.05 | - | - | 0.0351 | 0.1875 |
| Model 6 | | | | | | HR(95%CI) | <i>p</i> | Variance | SD |
| Photoperiod | | 1.17(1.15-1.18) | <0.05 | 1.26(1.22-1.29) | <0.05 | 1.26(1.22-1.29) | <0.05 | - | - |
| GDD | | 1.04(1.03-1.04) | <0.05 | 0.96(0.95-0.97) | <0.05 | 0.96(0.95-0.97) | <0.05 | - | - |
| MaxRH | | 0.996(0.995-0.998) | <0.05 | 0.99(0.995-0.999) | 0.027 | 0.997(0.995-0.999) | 0.03 | - | - |
| <i>Location</i> | UR; 0.80(0.77-0.82) | | <0.05 | 0.83(0.80-0.86) | <0.05 | - | - | 0.0162 | 0.1273 |
| <i>Method</i> | BG; 1.31(1.27-1.36) | | <0.05 | 1.30(1.25-1.35) | <0.05 | - | - | 0.0351 | 0.1876 |

| <i>MODEL</i> | <i>Chisq</i> | <i>Df</i> | <i>LogLikelihood(int)</i> | <i>AIC</i> | <i>BIC</i> |
|---------------------|---------------------|------------------|----------------------------------|-------------------|-------------------|
| Model 1 | 954.19 | 4.00 | -124817.7 | 946.19 | 915.85 |
| Model 2 | 952.86 | 4.00 | -124818.4 | 944.86 | 914.52 |
| Model 3 | 930.30 | 5.00 | -124829.7 | 920.30 | 882.38 |
| Model 4 | 931.30 | 5.00 | -124829.2 | 921.30 | 883.37 |
| Model 5 | 932.24 | 5.00 | -124828.7 | 922.24 | 884.32 |
| Model 6 | 929.35 | 5.00 | -124830.2 | 919.35 | 881.43 |