|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Mod.A | | | |
|  | Est. | Std. Err. | z | p |
|  | Regression Slopes | | | |
| Capv |  |  |  |  |
| VPD | -0.30 | 0.01 | -23.42 | .000 |
| CWMSeedMass | 0.10 | 0.01 | 7.41 | .000 |
| FDisSeedMass | 0.09 | 0.01 | 7.00 | .000 |
| CWMSeedMass |  |  |  |  |
| VPD | 0.30 | 0.01 | 25.43 | .000 |
| FDisSeedMass |  |  |  |  |
| VPD | 0.06 | 0.01 | 5.16 | .000 |
|  | Intercepts | | | |
| Capv | 0.00 | 0.01 | 0.06 | .954 |
| FDisSeedMass | 0.00 | 0.01 | 0.00 | .998 |
| CMWSeedMass | 0.00 | 0.01 | 0.27 | .787 |
| VPD | -0.00 | 0.01 | -0.00 | 1.000 |
|  | Residual Variances | | | |
| Capv | 0.91 | 0.02 | 57.42 | .000 |
| CWMSeedMass | 0.91 | 0.01 | 77.57 | .000 |
| FDisSeedMass | 1.00 | 0.01 | 84.96 | .000 |
| VPD | 1.00 | 0.01 | 72.07 | .000 |
|  | Constructed | | | |
| be | 0.01 | 0.00 | 4.23 | .000 |
| ad | 0.03 | 0.00 | 7.12 | .000 |
| total | -0.27 | 0.01 | -21.32 | .000 |
|  | Fit Indices | | | |
| TLI | 0.91 |  |  |  |
| chisq | 19.99 |  |  |  |
| RMSEA | 0.05 |  |  |  |
| Scaled χ2 | 22.12(1) |  |  | 0 |
|  | R-squared | | | |
| Capv | 0.087 |  |  |  |
| CWMSeedMass | 0.091 |  |  |  |
| FDisSeedMass | 0.004 |  |  |  |

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|  | Mod.B | | | |
|  | Est. | Std. Err. | z | p |
|  | Regression Slopes | | | |
| Capv |  |  |  |  |
| VPD | -0.22 | 0.01 | -15.88 | 0 |
| CMWHeight | 0.24 | 0.01 | 16.92 | 0 |
| FDisHeight | 0.08 | 0.01 | 6.75 | 0 |
| CMWHeight |  |  |  |  |
| VPD | -0.51 | 0.01 | -45.12 | 0 |
| FDisHeight |  |  |  |  |
| VPD | 0.01 | 0.01 | 0.74 | 0.459 |
|  | Intercepts | | | |
| Capv | 0 | 0.01 | 0.21 | 0.83 |
| CMWHeight | -0.01 | 0.01 | -0.91 | 0.365 |
| FDisHeight | 0 | 0.01 | -0.08 | 0.936 |
| VPD | 0 | 0.01 | 0 | 1 |
|  | Residual Variances | | | |
| Capv | 0.84 | 0.02 | 49.79 | 0 |
| CMWHeight | 0.74 | 0.01 | 50.65 | 0 |
| FDisHeight | 1 | 0.02 | 58.28 | 0 |
| VPD | 1 | 0.01 | 72.07 | 0 |
|  | Constructed | | | |
| be | 0 | 0 | 0.74 | 0.461 |
| ad | -0.12 | 0.01 | -16.14 | 0 |
| total | -0.34 | 0.01 | -28.78 | 0 |
|  | Fit Indices | | | |
| TLI | 0.74 |  |  |  |
| chisq | 139.21 |  |  |  |
| RMSEA | 0.14 |  |  |  |
| Scaled χ2 | 130.23(1) |  |  | 0 |
|  | R-squared | | | |
| Capv | 0.164 |  |  |  |
| CMWHeight | 0.254 |  |  |  |
| FDisHeight | 0.002 |  |  |  |

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|  | Mod.C | | | | |
|  | Est. | | Std. Err. | z | p |
|  | Regression Slopes | | | | |
| Capv |  | |  |  |  |
| VPD | -0.32 | | 0.01 | -26.17 | 0 |
| CMWSLA | 0 | | 0.01 | -0.28 | 0.781 |
| FDisSLA | 0.12 | | 0.01 | 9.59 | 0 |
| CMWSLA |  | |  |  |  |
| VPD | 0.19 | | 0.01 | 13.31 | 0 |
| FDisSLA |  | |  |  |  |
| VPD | -0.19 | | 0.01 | -14.52 | 0 |
|  | Intercepts | | | | |
| Capv | 0 | | 0.01 | 0.04 | 0.965 |
| CMWSLA | 0 | | 0.01 | 0.19 | 0.85 |
| FDisSLA | 0 | | 0.01 | -0.35 | 0.724 |
| VPD | 0 | | 0.01 | 0 | 1 |
|  | Residual Variances | | | | |
| Capv | 0.87 | | 0.02 | 51.81 | 0 |
| CMWSLA | 0.96 | | 0.02 | 39.82 | 0 |
| FDisSLA | 0.96 | | 0.02 | 59.51 | 0 |
| VPD | 1 | | 0.01 | 72.07 | 0 |
|  | Constructed | | | | |
| be | -0.02 | | 0 | -8.01 | 0 |
| ad | 0 | | 0 | -0.28 | 0.781 |
| total | -0.34 | | 0.01 | -28.78 | 0 |
|  | Fit Indices | | | | |
| TLI | 0.69 | |  |  |  |
| chisq | 77 | |  |  |  |
| RMSEA | 0.11 | |  |  |  |
| Scaled χ2 | 56.95(1) | |  |  | 0 |
|  | | R-squared | | | |
| Capv | 0.129 | |  |  |  |
| CMWSLA | 0.037 | |  |  |  |
| FDisSLA | 0.037 | |  |  |  |

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|  | Mod.D | | | | | |
|  | Est. | | Std. Err. | z | p | |
|  | Regression Slopes | | | | | |
| Capv |  | |  |  |  | |
| VPD | -0.31 | | 0.01 | -23.7 | 0 | |
| CMWWD | -0.07 | | 0.01 | -5.61 | 0 | |
| FDisWD | 0.12 | | 0.01 | 10.12 | 0 | |
| CMWWD |  | |  |  |  | |
| VPD | 0.41 | | 0.01 | 36.13 | 0 | |
| FDisWD |  | |  |  |  | |
| VPD | -0.02 | | 0.01 | -1.31 | 0.191 | |
|  | Intercepts | | | | | |
| Capv | 0 | | 0.01 | 0.07 | 0.946 | |
| CMWWD | 0.01 | | 0.01 | 0.65 | 0.513 | |
| FDisWD | 0 | | 0.01 | -0.15 | 0.879 | |
| VPD | 0 | | 0.01 | 0 | 1 | |
|  | Residual Variances | | | | | |
| Capv | 0.87 | | 0.02 | 51.57 | 0 | |
| CMWWD | 0.84 | | 0.01 | 68.57 | 0 | |
| FDisWD | 1 | | 0.01 | 73.91 | 0 | |
| VPD | 1 | | 0.01 | 72.07 | 0 | |
|  | Constructed | | | | | |
| be | 0 | | 0 | -1.29 | 0.196 | |
| ad | -0.03 | | 0.01 | -5.49 | 0 | |
| total | -0.34 | | 0.01 | -28.78 | 0 | |
|  | Fit Indices | | | | | |
| TLI | 0.69 | |  |  |  | |
| chisq | 113.71 | |  |  |  | |
| RMSEA | 0.13 | |  |  |  | |
| Scaled χ2 | 129.55(1) | |  |  | 0 | |
|  | | R-squared | | | |
| Capv | 0.135 | |  |  |  | |
| CMWWD | 0.164 | |  |  |  | |
| FDisWD | 0.001 | |  |  |  | |

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|  | Mod.E | | | | | |
|  | Est. | | Std. Err. | z | p | |
|  | Regression Slopes | | | | | |
| Capv |  | |  |  |  | |
| VPD | -0.35 | | 0.01 | -28.96 | 0 | |
| CMWXylem | 0.05 | | 0.01 | 3.97 | 0 | |
| FDisXylem | 0.06 | | 0.01 | 4.63 | 0 | |
| CMWXylem |  | |  |  |  | |
| VPD | 0.01 | | 0.01 | 1.02 | 0.309 | |
| FDisXylem |  | |  |  |  | |
| VPD | 0.16 | | 0.01 | 12.8 | 0 | |
|  | Intercepts | | | | | |
| Capv | 0 | | 0.01 | -0.01 | 0.996 | |
| CMWXylem | 0 | | 0.01 | -0.07 | 0.945 | |
| FDisXylem | 0 | | 0.01 | 0.15 | 0.882 | |
| VPD | 0 | | 0.01 | 0 | 1 | |
|  | Residual Variances | | | | | |
| Capv | 0.88 | | 0.02 | 51.52 | 0 | |
| CMWXylem | 1 | | 0.11 | 9.02 | 0 | |
| FDisXylem | 0.97 | | 0.03 | 32.56 | 0 | |
| VPD | 1 | | 0.01 | 72.07 | 0 | |
|  | Constructed | | | | | |
| be | 0.01 | | 0 | 4.45 | 0 | |
| ad | 0 | | 0 | 0.98 | 0.326 | |
| total | -0.34 | | 0.01 | -28.78 | 0 | |
|  | Fit Indices | | | | | |
| TLI | 0.05 | |  |  |  | |
| chisq | 191.86 | |  |  |  | |
| RMSEA | 0.17 | |  |  |  | |
| Scaled χ2 | 34.27(1) | |  |  | 0 | |
|  | | R-squared | | | |
| Capv | 0.121 | |  |  |  | |
| CMWXylem | 0 | |  |  |  | |
| FDisXylem | 0.026 | |  |  |  | |

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|  | Mod.F | | | | | |
|  | Est. | | Std. Err. | z | p | |
|  | Regression Slopes | | | | | |
| Capv |  | |  |  |  | |
| VPD | -0.34 | | 0.01 | -28.15 | 0 | |
| CMWDim1 | 0.01 | | 0.01 | 0.75 | 0.452 | |
| FDisall | 0.11 | | 0.01 | 8.55 | 0 | |
| CMWDim1 |  | |  |  |  | |
| VPD | 0.24 | | 0.01 | 21.03 | 0 | |
| FDisall |  | |  |  |  | |
| VPD | 0.01 | | 0.01 | 0.43 | 0.664 | |
|  | Intercepts | | | | | |
| Capv | 0 | | 0.01 | 0.01 | 0.996 | |
| CMWDim1 | 0.01 | | 0.01 | 0.74 | 0.457 | |
| FDisall | 0 | | 0.01 | -0.11 | 0.91 | |
| VPD | 0 | | 0.01 | 0 | 1 | |
|  | Residual Variances | | | | | |
| Capv | 0.87 | | 0.02 | 52.16 | 0 | |
| CMWDim1 | 0.94 | | 0.02 | 53.37 | 0 | |
| FDisall | 1 | | 0.01 | 84.41 | 0 | |
| VPD | 1 | | 0.01 | 72.07 | 0 | |
|  | Constructed | | | | | |
| be | 0 | | 0 | 0.44 | 0.663 | |
| ad | 0 | | 0 | 0.75 | 0.451 | |
| total | -0.34 | | 0.01 | -28.78 | 0 | |
|  | Fit Indices | | | | | |
| TLI | 0.88 | |  |  |  | |
| chisq | 25.94 | |  |  |  | |
| RMSEA | 0.06 | |  |  |  | |
| Scaled χ2 | 25.50(1) | |  |  | 0 | |
|  | | R-squared | | | |
| Capv | 0.127 | |  |  |  | |
| CMWDim1 | 0.057 | |  |  |  | |
| FDisall | 0 | |  |  |  | |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.3 | 0 | -24.6 | 0 | -0.35 | -0.3 | -0.33 | -0.33 | -0.33 |
| Capv | ~ | CWMSeedMass | 1 | 1 | d0 | 0.09 | 0 | 7.71 | 0 | 0.07 | 0.12 | 0.09 | 0.1 | 0.1 |
| Capv | ~ | FDisSeedMass | 1 | 1 | e0 | 0.07 | 0 | 4.99 | 0 | 0.04 | 0.09 | 0.07 | 0.07 | 0.07 |
| CWMSeedMass | ~ | VPD | 1 | 1 | a0 | 0.32 | 0 | 23.59 | 0 | 0.29 | 0.34 | 0.32 | 0.31 | 0.31 |
| FDisSeedMass | ~ | VPD | 1 | 1 | b0 | 0.18 | 0 | 12.98 | 0 | 0.15 | 0.21 | 0.18 | 0.17 | 0.17 |
| Capv | ~1 |  | 1 | 1 |  | 0.05 | 0 | 3.81 | 0 | 0.02 | 0.08 | 0.05 | 0.05 | 0.05 |
| FDisSeedMass | ~1 |  | 1 | 1 |  | 0.12 | 0 | 8.43 | 0 | 0.09 | 0.14 | 0.12 | 0.12 | 0.12 |
| CWMSeedMass | ~1 |  | 1 | 1 |  | -0 | 0 | -2.05 | 0.04 | -0.05 | 0 | -0.03 | -0.03 | -0.03 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.82 | 0 | 44.62 | 0 | 0.78 | 0.86 | 0.82 | 0.9 | 0.9 |
| CWMSeedMass | ~~ | CWMSeedMass | 1 | 1 |  | 0.9 | 0 | 70.19 | 0 | 0.87 | 0.92 | 0.9 | 0.91 | 0.91 |
| FDisSeedMass | ~~ | FDisSeedMass | 1 | 1 |  | 0.96 | 0 | 73.4 | 0 | 0.93 | 0.98 | 0.96 | 0.97 | 0.97 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c0 | -0.3 | 0 | -24.6 | 0 | -0.35 | -0.3 | -0.33 | -0.2 | -0.2 |
| Capv | ~ | CWMSeedMass | 2 | 2 | d0 | 0.09 | 0 | 7.71 | 0 | 0.07 | 0.12 | 0.09 | 0.08 | 0.08 |
| Capv | ~ | FDisSeedMass | 2 | 2 | e1 | 0.22 | 0 | 7.9 | 0 | 0.17 | 0.27 | 0.22 | 0.2 | 0.2 |
| CWMSeedMass | ~ | VPD | 2 | 2 | a1 | -0.2 | 0 | -4.88 | 0 | -0.28 | -0.12 | -0.2 | -0.14 | -0.14 |
| FDisSeedMass | ~ | VPD | 2 | 2 | b1 | -0 | 0 | -0.52 | 0.6 | -0.11 | 0.06 | -0.02 | -0.01 | -0.01 |
| Capv | ~1 |  | 2 | 2 |  | -0.1 | 0 | -4.86 | 0 | -0.2 | -0.08 | -0.14 | -0.13 | -0.13 |
| FDisSeedMass | ~1 |  | 2 | 2 |  | -0.3 | 0.1 | -6.45 | 0 | -0.38 | -0.2 | -0.29 | -0.3 | -0.3 |
| CWMSeedMass | ~1 |  | 2 | 2 |  | 0.56 | 0 | 12.9 | 0 | 0.47 | 0.64 | 0.56 | 0.61 | 0.61 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 0.99 | 0 | 26.66 | 0 | 0.92 | 1.06 | 0.99 | 0.91 | 0.91 |
| CWMSeedMass | ~~ | CWMSeedMass | 2 | 2 |  | 0.84 | 0 | 27.97 | 0 | 0.78 | 0.89 | 0.84 | 0.98 | 0.98 |
| FDisSeedMass | ~~ | FDisSeedMass | 2 | 2 |  | 0.94 | 0 | 31.86 | 0 | 0.88 | 1 | 0.94 | 1 | 1 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | 0.01 | 0 | 4.72 | 0 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | 0.03 | 0 | 7.29 | 0 | 0.02 | 0.04 | 0.03 | 0.03 | 0.03 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -22.1 | 0 | -0.31 | -0.26 | -0.29 | -0.29 | -0.29 |
| b1e1 | := | b1\*e1 | 0 | 0 | b1e1 | 0 | 0 | -0.52 | 0.61 | -0.02 | 0.01 | 0 | 0 | 0 |
| a1d0 | := | a1\*d0 | 0 | 0 | a1d0 | -0 | 0 | -4.07 | 0 | -0.03 | -0.01 | -0.02 | -0.01 | -0.01 |
| total1 | := | c0+(b1\*e1)+(a1\*d0) | 0 | 0 | total1 | -0.4 | 0 | -20.8 | 0 | -0.38 | -0.32 | -0.35 | -0.35 | -0.35 |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.1 | 0 | -9.03 | 0 | -0.17 | -0.11 | -0.14 | -0.14 | -0.14 |
| Capv | ~ | CWMHeight | 1 | 1 | d0 | 0.32 | 0 | 19.92 | 0 | 0.29 | 0.36 | 0.32 | 0.3 | 0.3 |
| Capv | ~ | FDisHeight | 1 | 1 | e0 | 0.05 | 0 | 3.88 | 0 | 0.03 | 0.08 | 0.05 | 0.05 | 0.05 |
| CWMHeight | ~ | VPD | 1 | 1 | a0 | -0.5 | 0 | -38.2 | 0 | -0.48 | -0.43 | -0.45 | -0.49 | -0.49 |
| FDisHeight | ~ | VPD | 1 | 1 | b0 | 0.08 | 0 | 5.62 | 0 | 0.05 | 0.11 | 0.08 | 0.08 | 0.08 |
| Capv | ~1 |  | 1 | 1 |  | 0.03 | 0 | 2.69 | 0.01 | 0.01 | 0.06 | 0.03 | 0.04 | 0.04 |
| FDisHeight | ~1 |  | 1 | 1 |  | 0.08 | 0 | 5.68 | 0 | 0.05 | 0.1 | 0.08 | 0.08 | 0.08 |
| CWMHeight | ~1 |  | 1 | 1 |  | 0.06 | 0 | 5.14 | 0 | 0.04 | 0.08 | 0.06 | 0.06 | 0.06 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.77 | 0 | 42.29 | 0 | 0.73 | 0.8 | 0.77 | 0.85 | 0.85 |
| CWMHeight | ~~ | CWMHeight | 1 | 1 |  | 0.61 | 0 | 48.58 | 0 | 0.59 | 0.64 | 0.61 | 0.76 | 0.76 |
| FDisHeight | ~~ | FDisHeight | 1 | 1 |  | 0.93 | 0 | 54.82 | 0 | 0.9 | 0.96 | 0.93 | 0.99 | 0.99 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c1 | -0.4 | 0 | -9.18 | 0 | -0.48 | -0.31 | -0.4 | -0.24 | -0.24 |
| Capv | ~ | CWMHeight | 2 | 2 | d1 | 0.04 | 0 | 1.43 | 0.15 | -0.01 | 0.09 | 0.04 | 0.04 | 0.04 |
| Capv | ~ | FDisHeight | 2 | 2 | e1 | 0.14 | 0 | 5.5 | 0 | 0.09 | 0.19 | 0.14 | 0.15 | 0.15 |
| CWMHeight | ~ | VPD | 2 | 2 | a1 | -0.4 | 0 | -9.96 | 0 | -0.52 | -0.35 | -0.43 | -0.24 | -0.24 |
| FDisHeight | ~ | VPD | 2 | 2 | b1 | 0 | 0.1 | 0 | 1 | -0.09 | 0.09 | 0 | 0 | 0 |
| Capv | ~1 |  | 2 | 2 |  | -0.1 | 0 | -1.23 | 0.22 | -0.14 | 0.03 | -0.06 | -0.05 | -0.05 |
| FDisHeight | ~1 |  | 2 | 2 |  | -0.2 | 0.1 | -4.94 | 0 | -0.34 | -0.15 | -0.24 | -0.22 | -0.22 |
| CWMHeight | ~1 |  | 2 | 2 |  | -0.3 | 0 | -6.37 | 0 | -0.37 | -0.2 | -0.28 | -0.25 | -0.25 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 1.01 | 0 | 26.42 | 0 | 0.93 | 1.08 | 1.01 | 0.91 | 0.91 |
| CWMHeight | ~~ | CWMHeight | 2 | 2 |  | 1.2 | 0.1 | 26.41 | 0 | 1.11 | 1.29 | 1.2 | 0.94 | 0.94 |
| FDisHeight | ~~ | FDisHeight | 2 | 2 |  | 1.18 | 0.1 | 20.58 | 0 | 1.07 | 1.29 | 1.18 | 1 | 1 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | 0 | 0 | 3.19 | 0 | 0 | 0.01 | 0 | 0 | 0 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | -0.2 | 0 | -17.8 | 0 | -0.16 | -0.13 | -0.15 | -0.15 | -0.15 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -20.6 | 0 | -0.31 | -0.25 | -0.28 | -0.28 | -0.28 |
| b1e1 | := | b1\*e1 | 0 | 0 | b1e1 | 0 | 0 | 0 | 1 | -0.01 | 0.01 | 0 | 0 | 0 |
| a1d1 | := | a1\*d1 | 0 | 0 | a1d1 | -0 | 0 | -1.42 | 0.16 | -0.04 | 0.01 | -0.02 | -0.01 | -0.01 |
| total1 | := | c1+(b1\*e1)+(a1\*d1) | 0 | 0 | total1 | -0.4 | 0 | -10 | 0 | -0.49 | -0.33 | -0.41 | -0.25 | -0.25 |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.3 | 0 | -18.4 | 0 | -0.29 | -0.23 | -0.26 | -0.26 | -0.26 |
| Capv | ~ | CWMSLA | 1 | 1 | d0 | -0 | 0 | -2.24 | 0.03 | -0.05 | 0 | -0.03 | -0.03 | -0.03 |
| Capv | ~ | FDisSLA | 1 | 1 | e0 | 0.08 | 0 | 6.15 | 0 | 0.05 | 0.11 | 0.08 | 0.09 | 0.09 |
| CWMSLA | ~ | VPD | 1 | 1 | a0 | 0.35 | 0 | 22.21 | 0 | 0.32 | 0.39 | 0.35 | 0.32 | 0.32 |
| FDisSLA | ~ | VPD | 1 | 1 | b0 | -0.1 | 0 | -7.84 | 0 | -0.15 | -0.09 | -0.12 | -0.11 | -0.11 |
| Capv | ~1 |  | 1 | 1 |  | 0.05 | 0 | 4.01 | 0 | 0.03 | 0.08 | 0.05 | 0.06 | 0.06 |
| FDisSLA | ~1 |  | 1 | 1 |  | 0.09 | 0 | 6.73 | 0 | 0.06 | 0.12 | 0.09 | 0.09 | 0.09 |
| CWMSLA | ~1 |  | 1 | 1 |  | 0.13 | 0 | 10.62 | 0 | 0.11 | 0.16 | 0.13 | 0.13 | 0.13 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.82 | 0 | 44.52 | 0 | 0.79 | 0.86 | 0.82 | 0.91 | 0.91 |
| CWMSLA | ~~ | CWMSLA | 1 | 1 |  | 0.98 | 0 | 34.91 | 0 | 0.93 | 1.04 | 0.98 | 0.9 | 0.9 |
| FDisSLA | ~~ | FDisSLA | 1 | 1 |  | 1.04 | 0 | 55.91 | 0 | 1 | 1.08 | 1.04 | 0.99 | 0.99 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c1 | -0.4 | 0 | -10.4 | 0 | -0.5 | -0.34 | -0.42 | -0.25 | -0.25 |
| Capv | ~ | CWMSLA | 2 | 2 | d0 | -0 | 0 | -2.24 | 0.03 | -0.05 | 0 | -0.03 | -0.02 | -0.02 |
| Capv | ~ | FDisSLA | 2 | 2 | e1 | 0.27 | 0 | 7.18 | 0 | 0.19 | 0.34 | 0.27 | 0.18 | 0.18 |
| CWMSLA | ~ | VPD | 2 | 2 | a1 | -0.3 | 0 | -10.6 | 0 | -0.37 | -0.25 | -0.31 | -0.26 | -0.26 |
| FDisSLA | ~ | VPD | 2 | 2 | b1 | 0.01 | 0 | 0.2 | 0.84 | -0.06 | 0.07 | 0.01 | 0.01 | 0.01 |
| Capv | ~1 |  | 2 | 2 |  | 0.03 | 0.1 | 0.67 | 0.51 | -0.06 | 0.12 | 0.03 | 0.03 | 0.03 |
| FDisSLA | ~1 |  | 2 | 2 |  | -0.5 | 0 | -13.4 | 0 | -0.55 | -0.41 | -0.48 | -0.67 | -0.67 |
| CWMSLA | ~1 |  | 2 | 2 |  | 0.06 | 0 | 2.13 | 0.03 | 0 | 0.12 | 0.06 | 0.08 | 0.08 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 1 | 0 | 26.44 | 0 | 0.92 | 1.07 | 1 | 0.9 | 0.9 |
| CWMSLA | ~~ | CWMSLA | 2 | 2 |  | 0.52 | 0 | 26.65 | 0 | 0.48 | 0.56 | 0.52 | 0.93 | 0.93 |
| FDisSLA | ~~ | FDisSLA | 2 | 2 |  | 0.51 | 0 | 17.69 | 0 | 0.46 | 0.57 | 0.51 | 1 | 1 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | -0 | 0 | -4.84 | 0 | -0.01 | -0.01 | -0.01 | -0.01 | -0.01 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | -0 | 0 | -2.23 | 0.03 | -0.02 | 0 | -0.01 | -0.01 | -0.01 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -20.6 | 0 | -0.31 | -0.25 | -0.28 | -0.28 | -0.28 |
| b1e1 | := | b1\*e1 | 0 | 0 | b1e1 | 0 | 0 | 0.2 | 0.84 | -0.02 | 0.02 | 0 | 0 | 0 |
| a1d0 | := | a1\*d0 | 0 | 0 | a1d0 | 0.01 | 0 | 2.19 | 0.03 | 0 | 0.02 | 0.01 | 0.01 | 0.01 |
| total1 | := | c1+(b1\*e1)+(a1\*d0) | 0 | 0 | total1 | -0.4 | 0 | -10 | 0 | -0.49 | -0.33 | -0.41 | -0.25 | -0.25 |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.2 | 0 | -15.9 | 0 | -0.27 | -0.21 | -0.24 | -0.24 | -0.24 |
| Capv | ~ | CWMWD | 1 | 1 | d0 | -0.1 | 0 | -6.77 | 0 | -0.13 | -0.07 | -0.1 | -0.1 | -0.1 |
| Capv | ~ | FDisWD | 1 | 1 | e0 | 0.08 | 0 | 5.93 | 0 | 0.05 | 0.11 | 0.08 | 0.08 | 0.08 |
| CWMWD | ~ | VPD | 1 | 1 | a0 | 0.45 | 0 | 36.35 | 0 | 0.43 | 0.48 | 0.45 | 0.43 | 0.43 |
| FDisWD | ~ | VPD | 1 | 1 | b0 | 0.1 | 0 | 6.98 | 0 | 0.07 | 0.12 | 0.1 | 0.09 | 0.09 |
| Capv | ~1 |  | 1 | 1 |  | 0.05 | 0 | 3.92 | 0 | 0.03 | 0.08 | 0.05 | 0.06 | 0.06 |
| FDisWD | ~1 |  | 1 | 1 |  | 0.11 | 0 | 7.96 | 0 | 0.08 | 0.14 | 0.11 | 0.11 | 0.11 |
| CWMWD | ~1 |  | 1 | 1 |  | 0.04 | 0 | 3.2 | 0 | 0.02 | 0.06 | 0.04 | 0.04 | 0.04 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.82 | 0 | 44.14 | 0 | 0.78 | 0.86 | 0.82 | 0.91 | 0.91 |
| CWMWD | ~~ | CWMWD | 1 | 1 |  | 0.81 | 0 | 59.38 | 0 | 0.79 | 0.84 | 0.81 | 0.81 | 0.81 |
| FDisWD | ~~ | FDisWD | 1 | 1 |  | 0.99 | 0 | 66.92 | 0 | 0.96 | 1.02 | 0.99 | 0.99 | 0.99 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c1 | -0.4 | 0 | -9.37 | 0 | -0.47 | -0.31 | -0.39 | -0.23 | -0.23 |
| Capv | ~ | CWMWD | 2 | 2 | d1 | 0 | 0 | -0.03 | 0.98 | -0.06 | 0.06 | 0 | 0 | 0 |
| Capv | ~ | FDisWD | 2 | 2 | e1 | 0.23 | 0 | 8.06 | 0 | 0.18 | 0.29 | 0.23 | 0.21 | 0.21 |
| CWMWD | ~ | VPD | 2 | 2 | a1 | 0.18 | 0 | 4.06 | 0 | 0.09 | 0.27 | 0.18 | 0.12 | 0.12 |
| FDisWD | ~ | VPD | 2 | 2 | b1 | -0.1 | 0 | -2.17 | 0.03 | -0.18 | -0.01 | -0.09 | -0.06 | -0.06 |
| Capv | ~1 |  | 2 | 2 |  | -0 | 0 | -0.76 | 0.45 | -0.12 | 0.05 | -0.03 | -0.03 | -0.03 |
| FDisWD | ~1 |  | 2 | 2 |  | -0.3 | 0.1 | -6.17 | 0 | -0.38 | -0.19 | -0.29 | -0.31 | -0.31 |
| CWMWD | ~1 |  | 2 | 2 |  | 0.1 | 0.1 | 2.18 | 0.03 | 0.01 | 0.2 | 0.1 | 0.11 | 0.11 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 0.99 | 0 | 26.29 | 0 | 0.91 | 1.06 | 0.99 | 0.9 | 0.9 |
| CWMWD | ~~ | CWMWD | 2 | 2 |  | 0.9 | 0 | 34.69 | 0 | 0.85 | 0.95 | 0.9 | 0.99 | 0.99 |
| FDisWD | ~~ | FDisWD | 2 | 2 |  | 0.86 | 0 | 25.99 | 0 | 0.79 | 0.92 | 0.86 | 1 | 1 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | 0.01 | 0 | 4.61 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.01 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | -0.1 | 0 | -6.58 | 0 | -0.06 | -0.03 | -0.05 | -0.05 | -0.05 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -20.6 | 0 | -0.31 | -0.25 | -0.28 | -0.28 | -0.28 |
| b1e1 | := | b1\*e1 | 0 | 0 | b1e1 | -0 | 0 | -2.11 | 0.03 | -0.04 | 0 | -0.02 | -0.01 | -0.01 |
| a1d1 | := | a1\*d1 | 0 | 0 | a1d1 | 0 | 0 | -0.03 | 0.98 | -0.01 | 0.01 | 0 | 0 | 0 |
| total1 | := | c1+(b1\*e1)+(a1\*d1) | 0 | 0 | total1 | -0.4 | 0 | -10 | 0 | -0.49 | -0.33 | -0.41 | -0.25 | -0.25 |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.3 | 0 | -21.8 | 0 | -0.32 | -0.27 | -0.29 | -0.3 | -0.3 |
| Capv | ~ | CWMXylem | 1 | 1 | d0 | 0 | 0 | 0.09 | 0.93 | -0.03 | 0.03 | 0 | 0 | 0 |
| Capv | ~ | FDisXylem | 1 | 1 | e0 | 0.03 | 0 | 1.88 | 0.06 | 0 | 0.06 | 0.03 | 0.03 | 0.03 |
| CWMXylem | ~ | VPD | 1 | 1 | a0 | 0.14 | 0 | 11.79 | 0 | 0.12 | 0.17 | 0.14 | 0.17 | 0.17 |
| FDisXylem | ~ | VPD | 1 | 1 | b0 | 0.2 | 0 | 15.23 | 0 | 0.17 | 0.22 | 0.2 | 0.21 | 0.21 |
| Capv | ~1 |  | 1 | 1 |  | 0.05 | 0 | 4.03 | 0 | 0.03 | 0.08 | 0.05 | 0.06 | 0.06 |
| FDisXylem | ~1 |  | 1 | 1 |  | 0.05 | 0 | 3.34 | 0 | 0.02 | 0.07 | 0.05 | 0.05 | 0.05 |
| CWMXylem | ~1 |  | 1 | 1 |  | 0.1 | 0 | 7.73 | 0 | 0.07 | 0.12 | 0.1 | 0.12 | 0.12 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.83 | 0 | 44.27 | 0 | 0.79 | 0.87 | 0.83 | 0.92 | 0.92 |
| CWMXylem | ~~ | CWMXylem | 1 | 1 |  | 0.61 | 0.1 | 7.33 | 0 | 0.45 | 0.77 | 0.61 | 0.97 | 0.97 |
| FDisXylem | ~~ | FDisXylem | 1 | 1 |  | 0.79 | 0 | 29.74 | 0 | 0.74 | 0.84 | 0.79 | 0.96 | 0.96 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c0 | -0.3 | 0 | -21.8 | 0 | -0.32 | -0.27 | -0.29 | -0.18 | -0.18 |
| Capv | ~ | CWMXylem | 2 | 2 | d1 | 0.09 | 0 | 4.38 | 0 | 0.05 | 0.13 | 0.09 | 0.13 | 0.13 |
| Capv | ~ | FDisXylem | 2 | 2 | e1 | 0.1 | 0 | 4.61 | 0 | 0.06 | 0.14 | 0.1 | 0.12 | 0.12 |
| CWMXylem | ~ | VPD | 2 | 2 | a1 | -0.5 | 0.1 | -7.48 | 0 | -0.6 | -0.35 | -0.48 | -0.19 | -0.19 |
| FDisXylem | ~ | VPD | 2 | 2 | b0 | 0.2 | 0 | 15.23 | 0 | 0.17 | 0.22 | 0.2 | 0.1 | 0.1 |
| Capv | ~1 |  | 2 | 2 |  | -0.2 | 0 | -6 | 0 | -0.23 | -0.12 | -0.18 | -0.17 | -0.17 |
| FDisXylem | ~1 |  | 2 | 2 |  | -0.2 | 0 | -4.7 | 0 | -0.25 | -0.1 | -0.18 | -0.14 | -0.14 |
| CWMXylem | ~1 |  | 2 | 2 |  | 0.13 | 0.1 | 2.89 | 0 | 0.04 | 0.23 | 0.13 | 0.09 | 0.09 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 1.01 | 0 | 26.59 | 0 | 0.94 | 1.09 | 1.01 | 0.93 | 0.93 |
| CWMXylem | ~~ | CWMXylem | 2 | 2 |  | 2.35 | 0.4 | 5.59 | 0 | 1.52 | 3.17 | 2.35 | 0.96 | 0.96 |
| FDisXylem | ~~ | FDisXylem | 2 | 2 |  | 1.69 | 0.1 | 15.66 | 0 | 1.48 | 1.9 | 1.69 | 0.99 | 0.99 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | 0.01 | 0 | 1.87 | 0.06 | 0 | 0.01 | 0.01 | 0.01 | 0.01 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | 0 | 0 | 0.09 | 0.93 | 0 | 0 | 0 | 0 | 0 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -22.3 | 0 | -0.31 | -0.26 | -0.29 | -0.29 | -0.29 |
| b1e1 | := | b0\*e1 | 0 | 0 | b1e1 | 0.02 | 0 | 4.45 | 0 | 0.01 | 0.03 | 0.02 | 0.03 | 0.03 |
| a1d0 | := | a1\*d1 | 0 | 0 | a1d0 | -0 | 0 | -4.16 | 0 | -0.06 | -0.02 | -0.04 | -0.03 | -0.03 |
| total1 | := | c0+(b0\*e1)+(a1\*d1) | 0 | 0 | total1 | -0.3 | 0 | -19.9 | 0 | -0.35 | -0.29 | -0.32 | -0.3 | -0.3 |

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| **lhs** | **op** | **rhs** | **block** | **group** | **label** | **est** | **se** | **z** | **pvalue** | **ci.lower** | **ci.upper** | **std.lv** | **std.all** | **std.nox** |
| Capv | ~ | VPD | 1 | 1 | c0 | -0.3 | 0 | -22.5 | 0 | -0.33 | -0.27 | -0.3 | -0.3 | -0.3 |
| Capv | ~ | CWMDim1 | 1 | 1 | d0 | 0.01 | 0 | 1.11 | 0.27 | -0.01 | 0.04 | 0.01 | 0.01 | 0.01 |
| Capv | ~ | FDisAll | 1 | 1 | e0 | 0.06 | 0 | 4.61 | 0 | 0.04 | 0.09 | 0.06 | 0.07 | 0.07 |
| CWMDim1 | ~ | VPD | 1 | 1 | a0 | 0.22 | 0 | 18.31 | 0 | 0.2 | 0.25 | 0.22 | 0.23 | 0.23 |
| FDisAll | ~ | VPD | 1 | 1 | b0 | 0.11 | 0 | 8.2 | 0 | 0.09 | 0.14 | 0.11 | 0.11 | 0.11 |
| Capv | ~1 |  | 1 | 1 |  | 0.05 | 0 | 3.56 | 0 | 0.02 | 0.07 | 0.05 | 0.05 | 0.05 |
| FDisAll | ~1 |  | 1 | 1 |  | 0.12 | 0 | 8.5 | 0 | 0.09 | 0.14 | 0.12 | 0.12 | 0.12 |
| CWMDim1 | ~1 |  | 1 | 1 |  | -0 | 0 | -1.5 | 0.13 | -0.05 | 0.01 | -0.02 | -0.02 | -0.02 |
| VPD | ~1 |  | 1 | 1 |  | -0.2 | 0 | -17.4 | 0 | -0.26 | -0.2 | -0.23 | -0.24 | -0.24 |
| Capv | ~~ | Capv | 1 | 1 |  | 0.83 | 0 | 44.76 | 0 | 0.79 | 0.86 | 0.83 | 0.91 | 0.91 |
| CWMDim1 | ~~ | CWMDim1 | 1 | 1 |  | 0.85 | 0 | 47.46 | 0 | 0.82 | 0.89 | 0.85 | 0.95 | 0.95 |
| FDisAll | ~~ | FDisAll | 1 | 1 |  | 0.95 | 0 | 72.57 | 0 | 0.93 | 0.98 | 0.95 | 0.99 | 0.99 |
| VPD | ~~ | VPD | 1 | 1 |  | 0.91 | 0 | 64.61 | 0 | 0.89 | 0.94 | 0.91 | 1 | 1 |
| Capv | ~ | VPD | 2 | 2 | c0 | -0.3 | 0 | -22.5 | 0 | -0.33 | -0.27 | -0.3 | -0.18 | -0.18 |
| Capv | ~ | CWMDim1 | 2 | 2 | d0 | 0.01 | 0 | 1.11 | 0.27 | -0.01 | 0.04 | 0.01 | 0.02 | 0.02 |
| Capv | ~ | FDisAll | 2 | 2 | e1 | 0.2 | 0 | 7.09 | 0 | 0.14 | 0.25 | 0.2 | 0.19 | 0.19 |
| CWMDim1 | ~ | VPD | 2 | 2 | a1 | 0.05 | 0.1 | 0.77 | 0.44 | -0.07 | 0.17 | 0.05 | 0.03 | 0.03 |
| FDisAll | ~ | VPD | 2 | 2 | b1 | -0 | 0.1 | -0.18 | 0.86 | -0.1 | 0.08 | -0.01 | -0.01 | -0.01 |
| Capv | ~1 |  | 2 | 2 |  | -0.1 | 0 | -4.35 | 0 | -0.18 | -0.07 | -0.13 | -0.12 | -0.12 |
| FDisAll | ~1 |  | 2 | 2 |  | -0.4 | 0.1 | -7.61 | 0 | -0.45 | -0.27 | -0.36 | -0.37 | -0.37 |
| CWMDim1 | ~1 |  | 2 | 2 |  | 0.29 | 0.1 | 4.52 | 0 | 0.16 | 0.42 | 0.29 | 0.25 | 0.25 |
| VPD | ~1 |  | 2 | 2 |  | 0.85 | 0 | 50.63 | 0 | 0.82 | 0.89 | 0.85 | 1.35 | 1.35 |
| Capv | ~~ | Capv | 2 | 2 |  | 1 | 0 | 27.05 | 0 | 0.93 | 1.07 | 1 | 0.93 | 0.93 |
| CWMDim1 | ~~ | CWMDim1 | 2 | 2 |  | 1.33 | 0.1 | 25.17 | 0 | 1.23 | 1.43 | 1.33 | 1 | 1 |
| FDisAll | ~~ | FDisAll | 2 | 2 |  | 0.97 | 0 | 30.31 | 0 | 0.91 | 1.04 | 0.97 | 1 | 1 |
| VPD | ~~ | VPD | 2 | 2 |  | 0.4 | 0 | 26.17 | 0 | 0.37 | 0.43 | 0.4 | 1 | 1 |
| b0e0 | := | b0\*e0 | 0 | 0 | b0e0 | 0.01 | 0 | 4.06 | 0 | 0 | 0.01 | 0.01 | 0.01 | 0.01 |
| a0d0 | := | a0\*d0 | 0 | 0 | a0d0 | 0 | 0 | 1.11 | 0.27 | 0 | 0.01 | 0 | 0 | 0 |
| total0 | := | c0+(b0\*e0)+(a0\*d0) | 0 | 0 | total0 | -0.3 | 0 | -22.5 | 0 | -0.32 | -0.27 | -0.29 | -0.29 | -0.29 |
| b1e1 | := | b1\*e1 | 0 | 0 | b1e1 | 0 | 0 | -0.18 | 0.86 | -0.02 | 0.02 | 0 | 0 | 0 |
| a1d0 | := | a1\*d0 | 0 | 0 | a1d0 | 0 | 0 | 0.65 | 0.51 | 0 | 0 | 0 | 0 | 0 |
| total1 | := | c0+(b1\*e1)+(a1\*d0) | 0 | 0 | total1 | -0.3 | 0 | -19 | 0 | -0.33 | -0.27 | -0.3 | -0.3 | -0.3 |