Table 1: Results of generalized linear mixed effect regression models testing three measure of fire behavior against potential predictor variables. Statistics reflect pooled results of 50 imputed datasets using the *mice* package in R; see Methods.

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| --- | --- | --- | --- |
| Response | Model term | t *df* | P |
| Rate of spread |  |  |  |
|  | Wind speed | 3.16 *101* | < 0.01 |
|  | Fuel moisture | -1.12 *43* | 0.27 |
|  | Fuel load | 0.95 *46* | 0.35 |
|  | Relative humidity | -0.47 *89* | 0.64 |
| Flame temperature |  |  |  |
|  | Fuel load | 2.82 *54* | 0.01 |
|  | Fuel moisture | -2.16 *41* | 0.04 |
|  | Relative humidity | -1.19 *120* | 0.24 |
|  | Wind speed | 0.02 *132* | 0.99 |
| Soil surface temperature |  |  |  |
|  | Relative humidity | -1.19 *75* | 0.24 |
|  | Fuel load | -0.48 *20* | 0.64 |
|  | Fuel moisture | -0.47 *40* | 0.64 |
|  | Wind speed | 0.06 *50* | 0.95 |