Hale, C.W., J.J. Granger, C.M. Siegert, S.B. Correa, J.L. DuBien, C.D. Goldsmith, and W. Kruckeberg. 2022. Microsite habitat, species associations, and habitat suitability model of a globally imperiled shrub. Natural Areas Journal 42(3).

ANOVA statistic tables and Tukey’s pairwise comparison (if appropriate) results for all tests ran within the manuscript. Lower and upper bounds represent a 95% confidence interval.

**Overstory Stems**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 68299 | 34150 | 1.253 | 0.318 |
| Residuals | 13 | 354276 | 27252 |  |  |

**Overstory Basal Area**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 98.3 | 49.13 | 1.131 | 0.352 |
| Residuals | 13 | 564.5 | 43.42 |  |  |

**Overstory Canopy Height**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 12.95 | 6.474 | 1.171 | 0.341 |
| Residuals | 13 | 71.90 | 5.531 |  |  |

**Overstory Canopy Cover**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 1361.8 | 680.9 | 9.35 | 0.00305 |
| Residuals | 13 | 946.6 | 72.8 |  |  |

Tukey’s pairwise comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Populations | Difference | Lower Bound | Upper Bound | p-value |
| Okaloosa-Geneva | 8.98300 | -9.868580 | 27.83458 | 0.4420199 |
| Baldwin-Geneva | 24.20889 | 6.594855 | 41.82292 | 0.0080024 |
| Baldwin-Okaloosa | 15.22589 | 2.658169 | 27.79361 | 0.0178725 |

**Midstory Stems**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 1217.3 | 608.7 | 11.34 | 0.00141 |
| Residuals | 13 | 697.7 | 53.7 |  |  |

Tukey’s pairwise comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Populations | Difference | Lower Bound | Upper Bound | p-value |
| Okaloosa-Geneva | 11.683756 | -4.500204 | 27.867716 | 0.1761609 |
| Baldwin-Geneva | -7.767714 | -22.889248 | 7.353821 | 0.3909408 |
| Baldwin-Okaloosa | -19.451470 | -30.240777 | -8.662163 | 0.0010096 |

**Midstory Basal Area**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 2.239 | 1.1192 | 6.266 | 0.0124 |
| Residuals | 13 | 2.322 | 0.1786 |  |  |

Tukey’s pairwise comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Populations | Difference | Lower Bound | Upper Bound | p-value |
| Okaloosa-Geneva | 0.5182856 | -0.4153769 | 1.4519480 | 0.3383159 |
| Baldwin-Geneva | -0.3161260 | -1.1884965 | 0.5562445 | 0.6155994 |
| Baldwin-Okaloosa | -0.8344116 | -1.4568532 | -0.2119699 | 0.0094569 |

**Soil pH**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 0.8952 | 0.4476 | 7.409 | 0.00712 |
| Residuals | 13 | 0.7854 | 0.0604 |  |  |

Tukey’s pairwise comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Populations | Difference | Lower Bound | Upper Bound | p-value |
| Okaloosa-Geneva | -0.7857000 | -1.3286863 | -0.2427137 | 0.0055991 |
| Baldwin-Geneva | -0.6192778 | -1.1266188 | -0.1119368 | 0.0170870 |
| Baldwin-Okaloosa | 0.1664222 | -0.1955687 | 0.5284131 0 | 0.4661372 |

**Soil C:N Ratio**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Degrees of Freedom | Sum of Squares | Mean of Squares | F-value | p-value |
| Population | 2 | 0.1093 | 0.05467 | 5.234 | 0.0215 |
| Residuals | 13 | 0.1358 | 0.01044 |  |  |

Tukey’s pairwise comparison

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Populations | Difference | Lower Bound | Upper Bound | p-value |
| Okaloosa-Geneva | 0.21544399 | -0.01033115 | 0.4412191 | 0.0621192 |
| Baldwin-Geneva | 0.04934313 | -0.16161059 | 0.2602968 | 0.8131919 |
| Baldwin-Okaloosa | -0.16610086 | -0.31661762 | -0.0155841 | 0.0303375 |