Tables:

Table 1: One Way ANOVA table for mean species richness of treatment plots

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Treatments** | Number of sampled plots | Mean | Std. Error | F-value | p-value |
| cut only | 9 | 5.333 | 0.373 | 2.243 | 0.128 |
| cut-and-burned | 9 | 5.889 | 0.588 |
| burned only | 9 | 4.444 | 0.475 |
| Total | 27 | 5.222 | 0.294 |  |  |
| The mean difference is not significant at the 0.05 level. | | | | | |

Table 2 : One Way ANOVA table for mean grass height of treatment plots

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Treatments | Number of sampled plots | Mean | Std. Error | F-value | P-value |
| cut only | 9 | 11.67 | 1.775 | 98.987 | .000\* |
| cut-and-burned | 9 | 25.29 | 3.613 |
| burned only | 9 | 171.44 | 14.885 |
| Total | 27 | 69.47 | 15.018 |
| \*. The mean difference is significant at the 0.05 level. | | | | | |

Table 3: One Way ANOVA table for comparison of leaf and stem proportion among treatment plots

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Physical parts** | **Treatments** | **Number of sampled plots** | **Mean** | **Std. Error** | **F-value** | **P-value** |
|  |
| **Green leaf proportion (%)** | cut only | 9 | 0.44 | 0.06 | 4.08 | 0.030**\*** |  |
| cut-and-burned | 9 | 0.41 | 0.03 |  |
| burned only | 9 | 0.28 | 0.04 |  |
| Total | 27 | 0.38 | 0.03 |  |
| **Green stem proportion (%)** | cut only | 9 | 0.22 | 0.04 | 3.99 | 0.032\* |  |
| cut-and-burned | 9 | 0.11 | 0.01 |  |
| burned only | 9 | 0.13 | 0.02 |  |
| Total | 27 | 0.15 | 0.02 |  |
| **Dead leaf proportion (%)** | cut only | 9 | 0.26 | 0.05 | 0.35 | 0.711 |  |
| cut-and-burned | 9 | 0.27 | 0.03 |  |
| burned only | 9 | 0.31 | 0.05 |  |
| Total | 27 | 0.28 | 0.03 |  |
| **Dead stem proportion (%)** | cut only | 9 | 0.08 | 0.01 | 42.40 | 0.000\* |  |
| cut-and-burned | 9 | 0.21 | 0.01 |  |
| burned only | 9 | 0.28 | 0.03 |  |
| Total | 27 | 0.19 | 0.02 |  |
| \*. The mean difference is significant at the 0.05 level. | | | | | | |  |

Table 4: Karl Pearson’s correlation coefficient in different treatment

|  |  |  |
| --- | --- | --- |
| Treatments | Variables | grazing intensity |
| cut only | grass height | -0.321 |
| cut-and-burned | grass height | -0.462 |
| burned only | grass height | -0.217 |
| Whole grassland | Grass height | -0.474\* |
| \*. The correlation is significant at the 0.05 level | | |

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