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| Supplemental Table S1. *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for forbs1 during period 1 (first two weeks of April). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*2, 45  *P > F* | 0.09  0.9182 | 0.43  0.6517 | 2.83  0.0697 | 0.51  0.6017 |  | 0.8297  (*df*: 8, 84) | 0.4220 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 45  *P > F* | 5.03  0.0299 | 0.10  0.7509 | 52.39  <0.0001 | 3.94  0.0531 |  | 0.4035  (*df*: 4, 42) | 0.0001 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*2, 45  *P > F* | 3.19  0.0506 | 1.92  0.1577 | 0.50  0.6101 | 0.41  0.6642 |  | 0.8229  (*df*: 8, 84) | 0.3884 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | 0.1174  -0.1283 | 0.6245  0.2169 | 1.2964  0.8127 | -0.5385  -0.2758 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | -0.0426  -0.2288 | 0.6463  0.8930 | -0.0093  -0.1177 | 0.5172  0.8066 |  |  |  |
| 1 Forb species: cardinal flower, Indian blanket, lazy daisy, partridge pea, naked Mexican hat, Texas senna; Lindheimer’s sida, American snoutbean, soldier weed, widow’s tear, winecup | | | | | | | | | |
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| Supplemental Table S2 . *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for forbs1 during period 2 (late May to early June). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*2, 51  *P > F* | 3.86  0.0274 | 0.34  0.7135 | 0.21  0.8152 | 1.54  0.2246 |  | 0.8081  (*df*: 8, 96) | 0.2289 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 51  *P > F* | 0.68  0.4122 | 46.19  <0.0001 | 49.67  <0.0001 | 37.59  <0.0001 |  | 0.3240  (*df*: 4, 48) | 0.0001 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*2, 51  *P > F* | 0.02  0.9837 | 0.03  0.9714 | 0.56  0.5738 | 0.17  0.8421 |  | 0.9671  (*df*: 8, 96) | 0.9898 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | 1.0768  0.9729 | 0.0085  0.0788 | 0.2999  -0.0326 | 0.1181  -0.11186 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | 0.1064  -0.1551 | 0.2681  0.4250 | 0.3963  0.3395 | 1.1565  0.9219 |  |  |  |
| 1 Forb species: cardinal flower, tropical Mexican clover, Indian blanket, lazy daisy, partridge pea, naked Mexican hat, Texas senna, Lindheimer’s sida, American snoutbean, soldier weed, widow’s tear, winecup | | | | | | | | | |
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| Supplemental Table S3. *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for forbs1 during period 3 (late July to early August). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*2, 40  *P > F* | 0.03  0.9672 | 0.39  0.6801 | 0.51  0.6038 | 2.00  0.1480 |  | 0.8835  (*df*: 8, 74) | 0.7823 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 40  *P > F* | 0.59  0.4473 | 0.70  0.4072 | 42.77  <0.0001 | 12.46  0.0011 |  | 0.3057  (*df*: 4, 37) | 0.0001 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*2, *40*  *P > F* | 0.02  0.9845 | 0.24  0.7862 | 0.56  0.5768 | 0.03  0.9657 |  | 0.9547  (*df*: 8, 74) | 0.9870 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | 0.0798  0.0531 | 0.0269  0.3537 | -0.2501  -0.4017 | 1.0552  0.9791 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | 0.1343  -0.2362 | -0.8098  -0.5083 | 1.1847  0.5928 | 0.7328  0.1511 |  |  |  |
| 1 Forb species: cardinal flower, tropical Mexican clover, Indian blanket, lazy daisy, partridge pea, naked Mexican hat, Texas senna, Lindheimer’s sida, American snoutbean, soldier weed, widow’s tear | | | | | | | | | |
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| Supplemental Table S4. *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for browse1 during period 1 (first two weeks of April). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*3, 23  *P > F* | 0.41  0.7494 | 0.41  0.7453 | 0.91  0.4516 | 0.48  0.6982 |  | 0.6102  (*df*: 12, 53) | 0.5431 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 23  *P > F* | 0.82  0.3758 | 0.62  0.4384 | 2.31  0.1419 | 0.76  0.3921 |  | 0.6941  (*df*: 4, 20) | 0.1053 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*3, 23  *P > F* | 0.24  0.8702 | 0.64  0.5961 | 0.01  0.9990 | 0.92  0.4470 |  | 0.7071  (*df*: 12, 53) | 0.8153 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | -0.8493  -0.3237 | -0.6735  -0.1841 | 1.1098  0.4987 | -0.0618  0.0362 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | -0.0591  -0.2342 | -0.7229  -0.2000 | -0.3941  -0.2758 | 1.1600  0.6029 |  |  |  |
| 1/ Browse: brasil, spiny hackberry, huisache, lime pricklyash, Texas prickly pear | | | | | | | | | |
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| Supplemental Table S5. *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for browse1 during period 2 (late May to early June). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*3, 25  *P > F* | 0.20  0.8924 | 0.96  0.4248 | 0.54  0.6603 | 0.47  0.7068 |  | 0.7191  (*df*: 12, 58) | 0.7932 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 25  *P > F* | 1.96  0.1736 | 9.31  0.0053 | 2.30  0.1422 | 5.74  0.0244 |  | 0.8674  (*df*: 4, 79) | 0.0226 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*3, 25  *P > F* | 0.12  0.9495 | 0.02  0.9948 | 0.15  0.9319 | 0.12  0.9447 |  | 0.9036  (*df*: 2, 81) | 0.7685 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | -0.2112  -0.3093 | 1.1197  0.3608 | 0.9348  0.5193 | -1.1203  -0.0417 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | 0.5431  0.1823 | 1.2063  0.8458 | -0.4117  -0.1865 | -0.2125  0.5836 |  |  |  |
| 2 Browse: brasil, spiny hackberry, huisache, lime pricklyash, mesquite | | | | | | | | | |
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| Supplemental Table S6. *Top*: univariate (*F*, *df*, *P > F*) and multivariate (Wilk’s λ, *df*, *P* > *F*) tests of location, year, and location × year effects on diet quality components neutral detergent fiber (NDF), crude protein (CP), digestible energy (DE), and phosphorus (P) for browse1 during period 3 (late July to early August). *Bottom*: for the location test, standardized canonical variate coefficients and within-location canonical structure coefficients for canonical variables 1 and 2. Analyses based on normal-score transformed data. | | | | | | | | | |
|  | | Univariate Tests: | | | | |  | Multivariate tests | |
| Effect | |  | NDF | CP | DE | P |  | LRT | *P* > *F* |
| Location | | *F*3, 27  *P > F* | 0.01  0.9988 | 1.62  0.2068 | 0.55  0.6541 | 0.96  0.4263 |  | 0.6750  (*df*: 12, 64) | 0.5988 |
|  | |  |  |  |  |  |  |  |  |
| Year | | *F*1, 27  *P > F* | 0.10  0.7503 | 0.26  0.6166 | 2.93  0.0986 | 2.61  0.1175 |  | 0.8338  (*df*: 4, 70) | 0.0118 |
|  | |  |  |  |  |  |  |  |  |
| Location × Year | | *F*3, 27  *P > F* | 0.68  0.5695 | 0.35  0.7924 | 0.28  0.8363 | 0.67  0.5797 |  | 0.9167  (*df*: 12, 185) | 0.9022 |
|  | | |  |  |  |  |  |  |  |
| Can. Var. | Interpretative coefficients | | NDF | CP | DE | P |  |  |  |
| 1 | Standardized coefs  Canonical struct | | -0.4757  0.0046 | 1.0335  0.8391 | -0.6649  0.0257 | 0.3227  0.4517 |  |  |  |
|  |  | |  |  |  |  |  |  |  |
| 2 | Standardized coefs  Canonical struct | | -0.2498  -0.0614 | -0.6060  0.0270 | 0.7193  0.3949 | 1.1143  0.6486 |  |  |  |
| 2 Browse: brasil, spiny hackberry, huisache, lime pricklyash, mesquite | | | | | | | | | |
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