Table S1: P values for the ANOVA for measured parameters of four different cowpea varieties grown under varying Plant densities.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Effect | IPAR |  LAI | No of pods (m-2) | No of grain (m-2) | Total dry matter (g m-2) | 100 seed weight (g) | Grain yield (kgha-1) | Fodder yield (kgha-1) |
|  |  |  | **Minjibir** |  |  |
| Year (Y) |  0.0544 |  0.0508  |  0.0039 | 0.9264 |  0.0001 | 0.0004 | 0.0002 | <.0001 |
|  Density (D) |  0.0013 |  0.0137  |  <.0001 | <.0001 |  <.0001 | <.0001 | 0.0001 | 0.0015 |
| Y x D |  0.4792 |  0.3881  |  0.0976 | 0.3585 |  0.0044 | 0.0003 | 0.6716 | 0.9126 |
| Variety (V) |  <.0001 |  0.0008  |  0.0003 | 0.0590 |  <.0001 | <.0001 | <.0001 | <.0001 |
| Y x V |  0.5752 |  0.2899  |  <.0001 | 0.5231 |  0.3066 | 0.0040 | 0.2519 | 0.8939 |
| D x V |  0.6826 |  0.3749  |  0.4922 | 0.0895 |  0.2049 | 0.5221 | 0.1711 | 0.9257 |
| Y x D x V |  0.8541 |  0.3601  |  0.9203 | 0.1338 |  0.3673 | 0.6289 | 0.8258 | 0.7920 |
|  |  |  |  **Zaria** |  |  |
| Year (Y) | 0.0545 | <.0001 | <.0001 |  0.1301 | 0.0011 |  0.0009 | <.0001 |  <.0001 |
| Density (D) | <.0001 | <.0001 | <.0001 |  <.0001 | <.0001 |  0.0112 | <.0001 |  <.0001 |
| Y x D | 0.0063 | <.0001 | 0.2389 |  0.2839 | 0.0798 |  0.7058 | <.0001 |  0.5473 |
| Variety (V) | <.0001 | <.0001 | <.0001 |  <.0001 | <.0001 |  <.0001 | <.0001 |  <.0001 |
| Y x V | <.0001 | 0.0008 | 0.0005 |  0.2720 | 0.0540 |  0.0217 | <.0001 |  0.0001 |
| D x V | 0.0070 | 0.1665 | 0.4023 |  0.1441 | 0.8078 |  0.6189 | 0.0115 |  0.9215 |
| Y x D x V | 0.1714 | 0.0575 | 0.8125 |  0.2996 | 0.1653 |  0.0277 | 0.0200 |  0.1803 |