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 |