**Long – term fertilizer trial on sorghum – sunflower cropping system under in Alfisols (2015-16)**

|  |  |  |  |
| --- | --- | --- | --- |
| **Treatment** | **Sorghum** | **Sunflower** | **System B:C ratio** |
| **Sorghum (*Kharif*)** | **Sunflower (*Rabi*)** | **2015-16** | **Mean (2009-10 to 2015-16)** | **SYI** | **2015-16** | **Mean (2009-10 to 2015-16)** | **SYI** |
| N | N | 2515 | 2722 | 0.24 | 653 | 628 | 0.39 | 2.88 |
| NP | NP | 3679 | 4001 | 0.39 | 1024 | 1307 | 0.66 | 3.68 |
| NPK | NPK | 4189 | 3830 | 0.41 | 963 | 1311 | 0.64 | 3.76 |
| 50% NPK | 50% NPK | 2827 | 3145 | 0.35 | 1148 | 1151 | 0.61 | 3.77 |
| 150 % NPK | 150 % NPK | 4454 | 4650 | 0.42 | 1069 | 1451 | 0.66 | 3.51 |
| NPK + CR | NPK | 4131 | 4093 | 0.43 | 1179 | 1462 | 0.70 | 4.14 |
| NPK + FYM | NPK  | 3893 | 4294 | 0.39 | 1084 | 1527 | 0.57 | 3.56 |
| NPK | NPK + S | 3951 | 4093 | 0.42 | 1225 | 1378 | 0.73 | 3.92 |
| NPK | NPK + B | 3983 | 4253 | 0.39 | 1243 | 1442 | 0.67 | 3.94 |
| NPK | NPK + Zn | 3563 | 3822 | 0.41 | 962 | 1368 | 0.61 | 3.32 |
| NPK | NPK + S + Zn | 3587 | 3983 | 0.40 | 1244 | 1420 | 0.69 | 3.57 |
| No manure | No manure | 1856 | 2439 | 0.20 | 705 | 822 | 0.37 | 2.63 |
| CD (P=0.05) |  | 819 |  |  | 248 |  |  |  |
| CV (%) |   | 13.6 |  |  | 14.0 |  |  |  |