|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Tanzania: fertilizer rate adjustment for ISFM practices and soil test information** | | |  | |
| **ISFM practice** | | **Urea** | **DAP or TSP** | **KCl** | **NPK 17-17-17** |
|  | | **Fertilizer reduction, % or kg/ac** | | | |
| Previous crop was a **green manure crop** (azolla in lowland rice and tithonia for maize) | | 100% | 70% | 70% | 70% |
| **Farmyard manure** per 1 t of dry material (low quality) | | 5 kg | 3 kg | 2 kg | 10 kg |
| Residual value of farmyard manure applied for the previous crop, per 1 t | | 2 kg | 1 kg | 1 kg | 3 kg |
| **Poultry manure**, per 1 t dry material | | 9 kg | 4 kg | 5 kg | 16 kg |
| Residue value of poultry manure, per 1 t dry material | | 2 kg | 2 kg | 1 kg | 3 kg |
| **Compost**, per 1 t | | 8 kg | 3 kg | 3 kg | 15 kg |
| **Maize-bean intercropping** | | Increase DAP/TSP by 7 kg/ac, but no change in N & K compared with sole maize rates | | | |
| **Maize-pigeonpea** **intercropping** | | Increase DAP/TSP by 11 kg/ac, reduce urea by 9 kg/ac, & no change in K compared with maize rates | | | |
| **Maize- lablab rotation** | | 0% reduction but more yield expected | | | |
| **Rice-bean rotation** | | 0% reduction but more yield expected | | | |
| **Maize or upland rice-cowpea/pigeonpea/**  **green gram rotation** | | Reduce urea by 20 kg/ha, and more yield expected | | | |
| If **Bray-Kurtz I P > 20 ppm, or Olsen P > 10 ppm** | | Apply no P | | | |
| If soil test **K < 100 ppm** | | Band apply 20 kg/ac KCl | | | |