|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **Nigeria: Fertilizer rate adjustment for ISFM practices and soil test information** | | |  | | |
| **ISFM practice** | | **Urea** | **SSP** | **KCl** | **NPK 15-15-15** | |
|  | | **Fertilizer reduction, % or kg/ha** | | | | |
| **Farmyard manure or compost** applied | | Both yield and response to fertilizer are expected to be increased; therefore fertilizer rates should not be decreased | | | | |
| **Cattle manure** 1t dry material | | 12kg | 59 kg | 20 kg | | 35 kg |
| **Poultry manure** 1t dry material | | 19kg | 106kg | 12kg | | 28 |
| **Horse** 1t dry material | | 12kg | 24kg | 8.6kg | | 19kg |
| **Swine** 1t dry material | | 16kg | 80kg | 31kg | | 12kg |
| **Sheep and goats** 1t dry material | | 12kg | 75kg | 8kg | | 24 |
| Residual value of dairy and poultry manure applied for the previous crops per 1t dry material | | 6kg | 23kg | 2kg | | 12 |
| **Compost** | | 16kg | 7kg | 30kg | | 121kg |
| **Cereals harvest waste** | | 0% reduction of fertilizers. Use as soil cover for soil water conservation and erosion control. | | | | |
| **Cereal-cowpea or groundnut intercropping** | | Apply sole crop recommended rates of NPK to cereals only | | | | |
| **Cereal-cowpea or groundnut strip cropping** | | Apply sole crop recommended rates of NPK to strips of legumes and cereals separately | | | | |
| **Cereal-other legume** (effective in N fixation) **rotation with return of residues** | | Reduce urea by 11kg/ha and apply recommended rates sole crop rates of P and K fertilizer | | | | |
| If **Bray-1 > 15 ppm** | | Apply no P | | | | |
| If soil test **K >0.17 cmol/kg (>68 ppm)** | | Apply no K | | | | |