
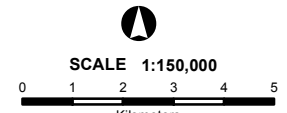


124°0'

124°15'



REPUBLIC OF THE PHILIPPINES  
**DEPARTMENT OF AGRICULTURE**  
**BUREAU OF SOILS AND WATER MANAGEMENT**  
Elliptical Road Cor. Visayas Ave., Diliman, Quezon City

**FERTILIZER GUIDE MAP**  
( Key Rice Areas )  
**PROVINCE OF CATANDUANES**  
  
SCALE 1:150,000  
Projection : Transverse Mercator  
Datum : PRS 1992  
DISCLAIMER : All political boundaries are not authoritative

14°0'

14°0'













13°45'

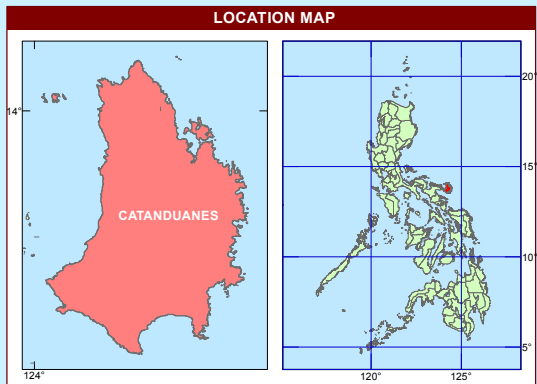
13°45'

13°30'

13°30'

**MISCELLANEOUS INFORMATION**  
**SOURCES OF INFORMATION:** Topographic information taken from NAMRIA Topographic Map at a scale of 1:50,000. Elevation data taken from SRTM 1 arc-second global dataset (2015). Bathymetry information taken from British Oceanographic Centre Fertility data gathered through the Soil Health Assessment-National Soil Sampling and Testing Project Phase II led by the Bureau of Soils and Water Management in partnership with the DA-Regional Field Offices (RFOs) and Local Government Units (LGUs).  
Users noting errors or omissions in this publication are requested to inform the BSWM, SRDC Bldg., Elliptical Rd., cor. Visayas Avenue, Diliman, Quezon City, Philippines or visit the BSWM website (<http://www.bswm.da.gov.ph>).  
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Prepared and produced by the GEOMATICS AND SOIL INFORMATION TECHNOLOGY DIVISION, BSWM.

| CONVENTIONAL SIGNS   |  |   |
|--|--|---|
| <b>ROADS</b>   | <b>BOUNDARY</b>  | <b>HYDROLOGY</b>  |
|  Expressway |  Regional   |  Rivers / Lake       |
|  Trunk line |  Provincial |  Shoreline           |
|  Primary    |  Municipal  | <b>PLACES</b>   |
|  Secondary  |  |  Capital City / City |
|  Tertiary   |  |  Capital Town / Town |



124°0'

124°15'



| LEGEND         |             |   |  |    |  |                               |  |    |  |                               |  |    |  |                               |  |    |  |       |        |
|----------------|-------------|---|--|----|--|-------------------------------|--|----|--|-------------------------------|--|----|--|-------------------------------|--|----|--|-------|--------|
| MAPPING SYMBOL | DESCRIPTION | All options recommended to apply 10-20 bags/ha Organic Fertilizer |  |    |  |                               |  |    |  |                               |  |    |  |                               |  |    |  | AREA  |        |
|                |             | INBRED RICE   |  |    |  |                               |  |    |  | HYBRID RICE                   |  |    |  |                               |  |    |  |       |        |
|                |             | WET SEASON  |  |    |  | DRY SEASON                    |  |    |  | WET SEASON                    |  |    |  | DRY SEASON                    |  |    |  | ha    | %      |
|                |             | Nutrient Requirement  | Recommended Fertilizer Rate (bags/hectare) |    |  | Nutrient Requirement          | Recommended Fertilizer Rate (bags/hectare) |    |  | Nutrient Requirement          | Recommended Fertilizer Rate (bags/hectare) |    |  | Nutrient Requirement          | Recommended Fertilizer Rate (bags/hectare) |    |  |       |        |
| TEXTURE-N-P-K  | N           | P <sub>2</sub> O <sub>5</sub>                                     | K <sub>2</sub> O                           |    | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O                           |    | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O                           |    | N  | P <sub>2</sub> O <sub>5</sub> | K <sub>2</sub> O                           |    |  |       |        |
| 65             | M-L-L-L     | 90  | 60   | 60 | Option 1:<br>(1st Application): 8.75 (14-14-14-);<br>(2nd Application): 0.75 (46-0-0);<br>(3rd Application): 0.75 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);                                  | 100                           | 60   | 60 | Option 1:<br>(1st Application): 8.75 (14-14-14-);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.00 (0-0-60);                                  | 110                           | 70   | 70 | Option 1:<br>(1st Application): 10.00 (14-14-14-);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.50 (0-0-60);                                 | 120                           | 70   | 70 | Option 1:<br>(1st Application): 10.00 (14-14-14-);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 2.50 (0-0-60);                                 | 2,706 | 57.33  |
| 66             | M-L-L-ML    | 90  | 60   | 40 | Option 1:<br>(1st Application): 5.75 (14-14-14-); 2.25 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.50 (0-0-60);                   | 100                           | 60   | 40 | Option 1:<br>(1st Application): 5.75 (14-14-14-); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.50 (0-0-60);                   | 110                           | 70   | 50 | Option 1:<br>(1st Application): 7.25 (14-14-14-); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.75 (0-0-60);                   | 120                           | 70   | 50 | Option 1:<br>(1st Application): 7.25 (14-14-14-); 2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 1.75 (0-0-60);                   | 1,020 | 21.61  |
| 67             | M-L-L-MH    | 90  | 60   | 20 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);                   | 100                           | 60   | 20 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.75 (46-0-0);<br>(3rd Application): 1.75 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.75 (0-0-60);                   | 110                           | 70   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 1.75 (46-0-0);<br>(3rd Application): 1.75 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.00 (0-0-60);                   | 120                           | 70   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 4.50 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 1.00 (0-0-60);                   | 428   | 9.07   |
| 68             | M-L-L-H     | 90  | 60   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.25 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.25 (0-0-60);                   | 100                           | 60   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 6.00 (0-18-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0);<br>Option 2:<br>(1st Application): 6.00 (16-20-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.25 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 6.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.25 (0-0-60);                   | 110                           | 70   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 2.25 (46-0-0);<br>(3rd Application): 2.25 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.25 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.25 (0-0-60);                   | 120                           | 70   | 7  | Option 1:<br>(1st Application): 1.00 (14-14-14-); 7.00 (0-18-0);<br>(2nd Application): 2.50 (46-0-0);<br>(3rd Application): 2.50 (46-0-0);<br>Option 2:<br>(1st Application): 7.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.25 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 8.00 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 0.25 (0-0-60);                   | 141   | 2.99   |
| 69             | M-L-ML-L    | 90  | 40   | 60 | Option 1:<br>(1st Application): 5.75 (14-14-14-); 0.25 (46-0-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 4.50 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);    | 100                           | 40   | 60 | Option 1:<br>(1st Application): 5.75 (14-14-14-); 0.50 (46-0-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.75 (0-0-60);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 4.50 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.00 (0-0-60);    | 110                           | 50   | 70 | Option 1:<br>(1st Application): 7.25 (14-14-14-); 0.25 (46-0-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.75 (0-0-60);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 5.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.50 (0-0-60);    | 120                           | 50   | 70 | Option 1:<br>(1st Application): 7.25 (14-14-14-); 0.50 (46-0-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 0.75 (0-0-60);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 5.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 2.50 (0-0-60);    | 175   | 3.70   |
| 71             | M-L-ML-MH   | 90  | 40   | 20 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.25 (46-0-0);<br>2.25 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 4.50 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60); | 100                           | 40   | 20 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.30 (46-0-0);<br>2.22 (0-18-0);<br>(2nd Application): 1.09 (46-0-0);<br>(3rd Application): 1.09 (46-0-0);<br>Option 2:<br>(1st Application): 4.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 0.75 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 4.50 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 0.75 (0-0-60); | 110                           | 50   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.25 (46-0-0);<br>2.22 (0-18-0);<br>(2nd Application): 1.20 (46-0-0);<br>(3rd Application): 1.20 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 5.75 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.00 (0-0-60); | 120                           | 50   | 30 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.50 (46-0-0);<br>2.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0);<br>Option 2:<br>(1st Application): 5.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 1.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 5.25 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 1.00 (0-0-60); | 100   | 2.12   |
| 73             | M-L-MH-L    | 90  | 20   | 60 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.25 (46-0-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 1.50 (0-0-60);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.25 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.00 (46-0-0), 2.25 (0-18-0);<br>(2nd Application): 1.00 (46-0-0);<br>(3rd Application): 1.00 (46-0-0), 2.00 (0-0-60);    | 100                           | 20   | 60 | Option 1:<br>(1st Application): 3.00 (14-14-14-); 1.50 (46-0-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.50 (0-0-60);<br>Option 2:<br>(1st Application): 2.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.75 (46-0-0), 2.00 (0-0-60);<br>Option 3:<br>(1st Application): 2.25 (46-0-0), 2.25 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.00 (0-0-60);    | 110                           | 30   | 70 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.25 (46-0-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 1.50 (0-0-60);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 1.75 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.50 (46-0-0), 3.50 (0-18-0);<br>(2nd Application): 1.25 (46-0-0);<br>(3rd Application): 1.25 (46-0-0), 2.50 (0-0-60);    | 120                           | 30   | 70 | Option 1:<br>(1st Application): 4.50 (14-14-14-); 1.50 (46-0-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 1.50 (0-0-60);<br>Option 2:<br>(1st Application): 3.00 (16-20-0);<br>(2nd Application): 2.00 (46-0-0);<br>(3rd Application): 2.00 (46-0-0), 2.50 (0-0-60);<br>Option 3:<br>(1st Application): 2.75 (46-0-0), 3.50 (0-18-0);<br>(2nd Application): 1.50 (46-0-0);<br>(3rd Application): 1.50 (46-0-0), 2.50 (0-0-60);    | 150   | 3.18   |
| TOTAL          |             |   |  |    |  |                               |  |    |  |                               |  |    |  |                               |  |    |  | 4,720 | 100.00 |

| DESCRIPTION       |    |                   |   |
|-------------------|----|-------------------|---|
| TEXTURE           | N  | P                 | K |
| <b>L</b> - Light  | L  | -Low              |   |
|                   | ML | - Moderately Low  |   |
| <b>M</b> - Medium | MH | - Moderately High |   |
| to Heavy          | H  | - High            |   |

## FERTILIZER GUIDE FOR RICE

## ORGANIC FERTILIZER

*Basal Application: After 2nd harrowing - 10-20 bags \*Organic Fertilizer*

## INORGANIC FERTILIZER

*1st Application: After last harrowing - Basal*

**2nd Application: 10-14 DAT/P (days after transplanting/planting) - Topdress**

**3rd Application: 20-25 DAT/P (days after transplanting/planting) - Topdress**

\*5-10% Total NPK per PNS/ BAFS 183:2016

*Area estimated based on actual field survey, other information from DA-RFO's, MA's NIA Service Area, NAMRIA Land Cover (2010) and BSWM Land Use System Map.*