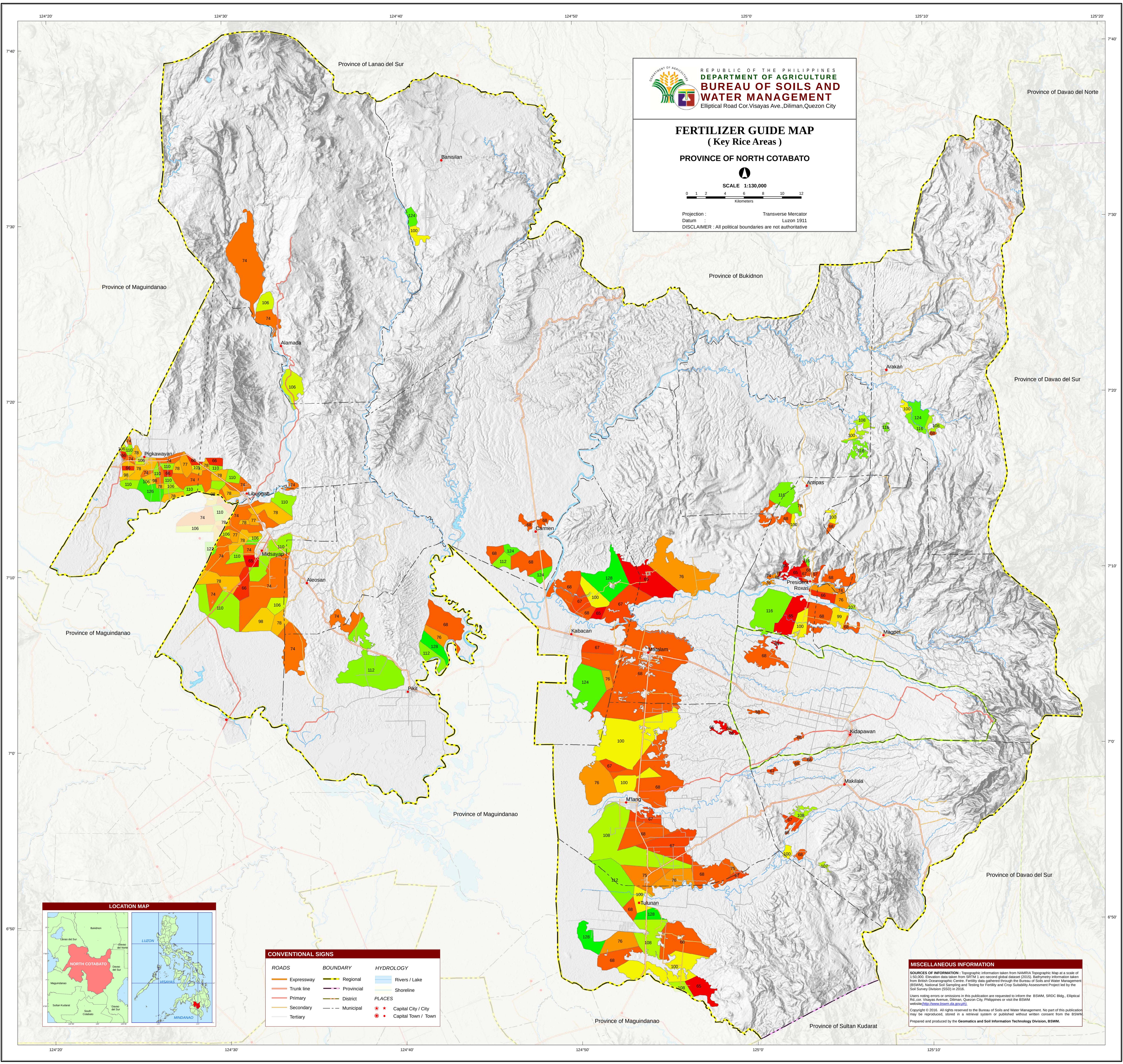






REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT
Elliptical Road Cor. Visayas Ave., Diliman, Quezon City

FERTILIZER GUIDE MAP
(Key Rice Areas)

PROVINCE OF NORTH COTABATO



SCALE 1:130,000

0

1

2

4

6

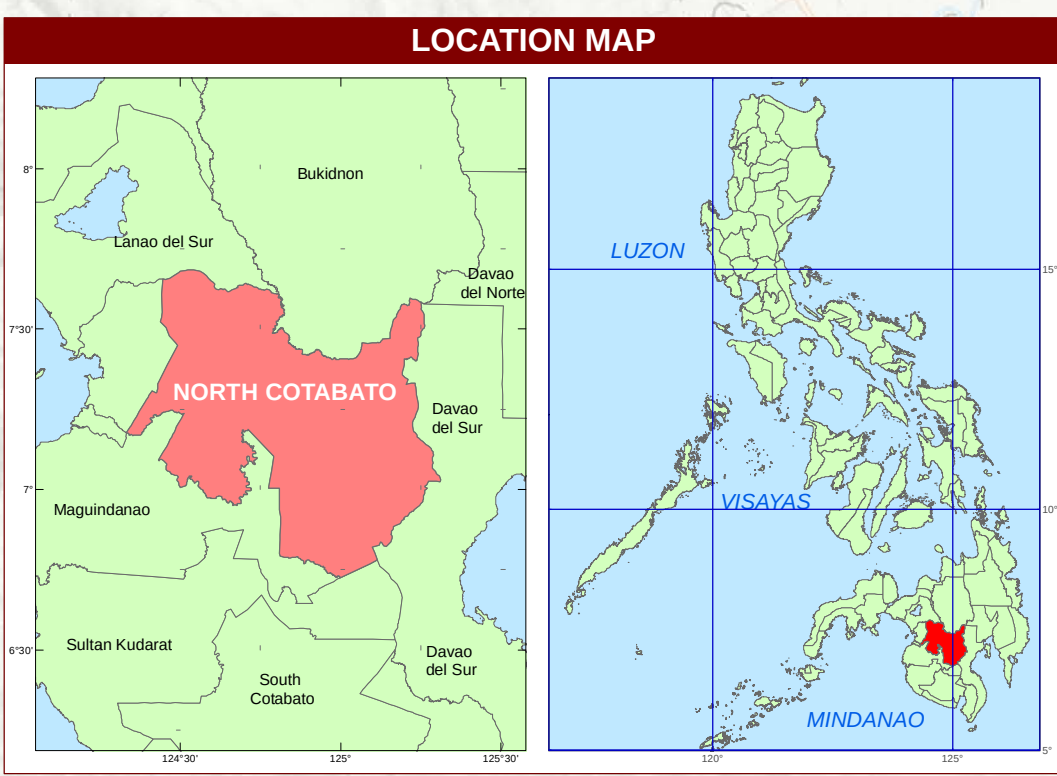
8

10

12

Kilometers

Projection : Transverse Mercator
Datum Luzon 1911
DISCLAIMER : All political boundaries are not authoritative



CONVENTIONAL SIGNS		
ROADS	BOUNDARY	HYDROLOGY
 Expressway	 Regional	 Rivers / Lake
 Trunk line	 Provincial	 Shoreline
 Primary	 District	PLACES
 Secondary	 Municipal	 Capital City / City
 Tertiary		 Capital Town / Town

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 Bureau of Soils and Water Management (BSWM), National Soil Sampling and Testing for Fertility and Crop-Suitability Assessment Project led by the Soil Survey Division (SSD) in 2016.

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.

LEGEND			All options recommended to apply 10-20 bags/ha Organic Fertilizer																				AREA																			
Mapping Symbol	Description	WET SEASON						INBRED RICE			DRY SEASON			WET SEASON						HYBRID RICE			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)				Nutrient Requirement		Recommended Fertilizer Rate (bags/hectare)																				
		N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O	N	P ₂ O ₅	K ₂ O																	
105	M-MH-MH-L	50	20	60	Option 1: (1st Application): 3.00 (14-14-14); (2nd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 2.00 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 2.00 (0-6-0);						60	20	60	Option 1: (1st Application): 3.00 (14-14-14); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 2.00 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 2.00 (0-6-0);						70	30	70	Option 1: (1st Application): 4.50 (14-14-14); (2nd Application): 1.00 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0); Option 2: (1st Application): 3.00 (16-20-0); (2nd Application): 1.00 (46-0-0); 2.50 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 3.50 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 2.50 (0-6-0);						80	30	70	Option 1: (1st Application): 4.50 (14-14-14); (2nd Application): 1.25 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 2: (1st Application): 3.00 (16-20-0); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.00 (46-0-0); 2.50 (0-6-0); Option 3: (1st Application): 1.75 (46-0-0); 3.50 (0-18-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 2.50 (0-6-0);										
					46.91	0.063																																				
					106	M-MH-MH-ML	50	20	40	Option 1: (1st Application): 3.00 (14-14-14); (3rd Application): 1.00 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 1.50 (0-6-0);						60	20	40	Option 1: (1st Application): 3.00 (14-14-14); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0);						70	30	50	Option 1: (1st Application): 4.50 (14-14-14); (2nd Application): 1.00 (46-0-0); (3rd Application): 0.87 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 3.00 (16-20-0); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.75 (0-6-0); Option 3: (1st Application): 1.75 (46-0-0); 3.50 (0-18-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.75 (0-6-0);														
										1807				2.363																												
107	M-MH-MH-VH	50	20	20						Option 1: (1st Application): 3.00 (14-14-14); (3rd Application): 1.00 (46-0-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.75 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 0.75 (0-6-0);									60	20	20	Option 1: (1st Application): 3.00 (14-14-14); (2nd Application): 0.75 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.75 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.75 (0-6-0);						70	30	30	Option 1: (1st Application): 4.50 (14-14-14); (2nd Application): 1.00 (46-0-0); (3rd Application): 0.75 (46-0-0); Option 2: (1st Application): 3.00 (16-20-0); (2nd Application): 1.00 (46-0-0); 1.00 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 3.50 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.00 (0-6-0);											
										90.87	0.119																															
					108	M-MH-MH-H	50	20	7	Option 1: (1st Application): 1.00 (14-14-14); 1.50 (0-18-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 0.25 (0-6-0);						60	7	40				Option 1: (1st Application): 1.00 (14-14-14); 1.50 (0-18-0); (2nd Application): 1.25 (46-0-0); (3rd Application): 1.25 (46-0-0); Option 2: (1st Application): 2.00 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 2.25 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);									70	30	7	Option 1: (1st Application): 1.00 (14-14-14); 2.75 (0-18-0); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.50 (46-0-0); Option 2: (1st Application): 3.00 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 3.50 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);								
										4419	5.777																															
110	M-MH-MH-ML	50	7	40						Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.50 (46-0-0); 1.25 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 1.00 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 1.50 (0-6-0);									60	7	40	Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.00 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.25 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 1.00 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0);						70	7	50				Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.50 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 2.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.75 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 1.00 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 1.75 (0-6-0);								
										3990	5.217																															
					112	M-MH-MH-H	50	7	7	Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.50 (46-0-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 1.00 (0-18-0); (2nd Application): 0.50 (46-0-0); (3rd Application): 0.50 (46-0-0); 0.25 (0-6-0);						60	7	7				Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.00 (46-0-0); (3rd Application): 0.75 (46-0-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.50 (46-0-0); 1.00 (0-18-0); (2nd Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);									70	7	7	Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.75 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 2.25 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.75 (46-0-0); 0.78 (0-18-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);								
										4006	5.237																															
116	M-H-L-H	30	60	7						Option 1: (1st Application): 1.00 (14-14-14); 0.50 (46-0-0); 5.89 (0-18-0); (2nd Application): 0.75 (46-0-0); Option 2: (1st Application): 0.75 (46-0-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);									40	60	7	Option 1: (1st Application): 1.00 (14-14-14); 0.75 (46-0-0); 6.00 (0-18-0); (2nd Application): 1.00 (46-0-0); Option 2: (1st Application): 1.00 (46-0-0); 6.75 (0-18-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);						50	70	7				Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.00 (46-0-0); 1.00 (0-18-0); (3rd Application): 1.25 (46-0-0); Option 2: (1st Application): 1.25 (46-0-0); 8.00 (0-18-0); (3rd Application): 1.25 (46-0-0); 0.25 (0-6-0);								
										2391	3.126																															
					122	M-H-MH-ML	30	20	40	Option 1: (1st Application): 2.25 (14-14-14); 0.75 (0-18-0); (3rd Application): 0.75 (46-0-0); 1.00 (0-6-0); Option 2: (1st Application): 0.75 (46-0-0); 2.25 (0-18-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0);						40	20	40				Option 1: (1st Application): 3.00 (14-14-14); (3rd Application): 1.00 (46-0-0); 0.75 (0-6-0); Option 2: (1st Application): 1.00 (46-0-0); 2.25 (0-18-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0);									50	30	50	Option 1: (1st Application): 3.75 (14-14-14); 0.75 (0-18-0); (2nd Application): 1.25 (46-0-0); (3rd Application): 1.00 (0-6-0); Option 2: (1st Application): 1.25 (46-0-0); 3.50 (0-18-0); (3rd Application): 1.00 (46-0-0); 1.75 (0-6-0);								
										227.1	0.297																															
124	M-H-MH-H	30	20	7						Option 1: (1st Application): 1.00 (14-14-14); 0.50 (46-0-0); 1.50 (0-18-0); (2nd Application): 0.75 (46-0-0); Option 2: (1st Application): 0.75 (46-0-0); 2.25 (0-18-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);									40	20	7	Option 1: (1st Application): 1.00 (14-14-14); 0.75 (46-0-0); 1.50 (0-18-0); (3rd Application): 1.00 (46-0-0); Option 2: (1st Application): 1.00 (46-0-0); 2.25 (0-18-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);						50	70	7				Option 1: (1st Application): 1.00 (14-14-14); 0.78 (46-0-0); 2.75 (0-18-0); (3rd Application): 1.25 (46-0-0); Option 2: (1st Application): 1.25 (46-0-0); 3.50 (0-18-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);								
										2098	2.743																															
					126	M-H-H-ML	30	7	40	Option 1: (1st Application): 1.00 (14-14-14); (3rd Application): 1.00 (46-0-0); 1.25 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (3rd Application): 1.25 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 0.75 (46-0-0); 1.00 (0-18-0); (3rd Application): 0.75 (46-0-0); 1.50 (0-6-0);						40	7	40				Option 1: (1st Application): 0.75 (16-20-0); (2nd Application): 0.75 (46-0-0); 1.50 (0-6-0); Option 3: (1st Application): 1.00 (46-0-0); 1.00 (0-18-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0);									50	70	7	Option 1: (1st Application): 1.00 (14-14-14); (2nd Application): 1.50 (46-0-0); (3rd Application): 1.00 (46-0-0); 1.50 (0-6-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.50 (46-0-0); 1.75 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 1.00 (0-18-0); (3rd Application): 1.00 (46-0-0); 1.75 (0-6-0);								
										402.2	0.528																															
128	M-H-H-H	30	7	7						Option 1: (1st Application): 1.00 (14-14-14); 0.50 (46-0-0); (2nd Application): 0.75 (46-0-0); Option 2: (1st Application): 0.75 (16-20-0); (3rd Application): 1.25 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 0.75 (46-0-0); 1.00 (0-18-0); (3rd Application): 0.75 (46-0-0); 0.25 (0-6-0);									40	7	7	Option 1: (1st Application): 1.00 (14-14-14); 0.75 (46-0-0); (2nd Application): 1.00 (46-0-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 0.75 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.00 (46-0-0); 1.00 (0-18-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);						50	70	7				Option 1: (1st Application): 1.00 (14-14-14); 0.78 (46-0-0); (2nd Application): 1.09 (46-0-0); Option 2: (1st Application): 0.75 (16-20-0); (2nd Application): 1.00 (46-0-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0); Option 3: (1st Application): 1.25 (46-0-0); 1.00 (0-18-0); (3rd Application): 1.00 (46-0-0); 0.25 (0-6-0);								
										2251	2.943																															
					TOTAL		76493																																			

Fertilizer Recommendation Guide for Rice						DESCRIPTION			
						TEXTURE	N	P	K
1st Application - After last harrowing - Basal					(14-14-14) Complete	L - Light	L - Low		
2nd Application - 10 - 14 DAT (days after transplanting) - Topdress					(46-0-0) Urea		MH - Moderately High		
3rd Application - 20 - 25 DAT (days after transplanting) - Topdress					(16-20-0) Ammophos (0-18-0) Solaphos (0-0-60) Muriate of Potash	M - Medium to Heavy	MH - Moderately High H - High		