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 SOUTH COTABATO

SCALE 1 : 140 , 000

0 1 2 4 6 8 10 12
Kilometers

Projection : Transverse Mercator
Datum : Luzon 1911

DISCLAIMER: All political boundaries are not authoritative

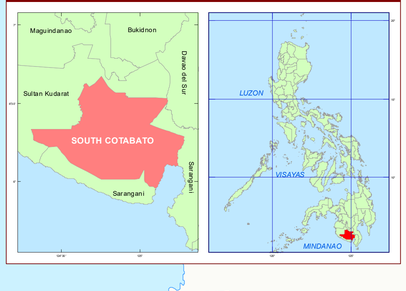
124°20' 124°30' 124°40' 124°50' 125°0' 125°10'
6°40' 6°30' 6°20' 6°10' 6°0' 5°50'

Province of Maguindanao
Province of Sultan Kudarat
Province of Davao del Sur
Province of Saranggani
Province of Saranggani

Tantangan
Norala
Sto. Niño
KORONADAL
Banga
Surallah
Tupi
Tampakan
Lake Sebu
T'boli
Polomolok
GENERAL SANTOS

Tinoto Bay
SARANGGANI BAY
CELEBES SEA

LOCATION MAP



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.

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Prepared and produced by the **GEOMATICS AND SOIL INFORMATION TECHNOLOGY DIVISION, BSWM.**

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

LEGEND

All options recommended to apply 10-20 bags/ha Organic Fertilizer

Mapping Symbol	DESCRIPTION	INBRED RICE								HYBRID RICE								AREA	
		WET SEASON				DRY SEASON				WET SEASON				DRY SEASON					
		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)	ha	%
	TEXTURE-N-P-K	N	P_2O_5	K_2O		N	P_2O_5	K_2O		N	P_2O_5	K_2O		N	P_2O_5	K_2O			
66	M-L-L-ML	90	60	40	Option 1: *(1st Application):* 5.75 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); Option 2: *(1st Application):* 6.00 (16-20-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.00 (46-0-0); 6.75 (0-18-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	100	60	40	Option 1: *(1st Application):* 5.75 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); Option 2: *(1st Application):* 6.00 (16-20-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.25 (46-0-0); 6.75 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.50 (0-0-60);	110	70	50	Option 1: *(1st Application):* 7.25 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); Option 2: *(1st Application):* 7.00 (16-20-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 2.50 (46-0-0); 8.00 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.75 (0-0-60);	120	70	50	Option 1: *(1st Application):* 7.25 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); Option 2: *(1st Application):* 7.00 (16-20-0); *(2nd Application):* 2.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 2.75 (46-0-0); 8.00 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); 1.75 (0-0-60);	903	2.31
74	M-L-MH-ML	90	20	40	Option 1: *(1st Application):* 3.00 (14-14-14-); 1.25 (46-0-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 2.00 (16-20-0); *(2nd Application):* 2.25 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.00 (46-0-0); 2.25 (0-18-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	100	20	40	Option 1: *(1st Application):* 3.00 (14-14-14-); 1.50 (46-0-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 2.00 (16-20-0); *(2nd Application):* 2.00 (46-0-0); *(3rd Application):* 1.75 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.25 (46-0-0); 2.25 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.50 (0-0-60);	110	30	50	Option 1: *(1st Application):* 4.50 (14-14-14-); 1.25 (46-0-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 3.00 (16-20-0); *(2nd Application):* 2.00 (46-0-0); *(3rd Application):* 1.75 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 2.50 (46-0-0); 3.50 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.75 (0-0-60);	120	30	50	Option 1: *(1st Application):* 4.50 (14-14-14-); 1.50 (46-0-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 3.00 (16-20-0); *(2nd Application):* 2.25 (46-0-0); *(3rd Application):* 2.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 2.75 (46-0-0); 3.50 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); 1.75 (0-0-60);	4,107	10.50
78	M-L-H-ML	90	7	40	Option 1: *(1st Application):* 1.00 (14-14-14-); 1.75 (46-0-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.25 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 2.00 (46-0-0); *(3rd Application):* 1.75 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.00 (46-0-0); 1.00 (0-18-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	100	7	40	Option 1: *(1st Application):* 1.00 (14-14-14-); 2.00 (46-0-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.25 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 2.25 (46-0-0); *(3rd Application):* 2.00 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 2.25 (46-0-0); 1.00 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.50 (0-0-60);	110	7	50	Option 1: *(1st Application):* 1.00 (14-14-14-); 2.25 (46-0-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.50 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 4.75 (46-0-0); *(3rd Application):* 1.75 (0-0-60); Option 3: *(1st Application):* 2.50 (46-0-0); 1.00 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.25 (46-0-0); 1.75 (0-0-60);	120	7	50	Option 1: *(1st Application):* 1.00 (14-14-14-); 2.50 (46-0-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); 1.50 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 3.00 (46-0-0); *(3rd Application):* 2.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 2.75 (46-0-0); 1.00 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.50 (46-0-0); 1.75 (0-0-60);	17,074	43.65
98	M-MH-L-ML	50	60	40	Option 1: *(1st Application):* 5.75 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 0.50 (46-0-0); Option 2: *(1st Application):* 6.00 (16-20-0); *(3rd Application):* 0.25 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 1.25 (46-0-0); 6.75 (0-18-0); *(2nd Application):* 0.50 (46-0-0); *(3rd Application):* 0.50 (46-0-0); 1.50 (0-0-60);	60	60	40	Option 1: *(1st Application):* 5.75 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.00 (46-0-0); Option 2: *(1st Application):* 6.00 (16-20-0); *(3rd Application):* 0.50 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 1.50 (46-0-0); 6.75 (0-18-0); *(2nd Application):* 0.75 (46-0-0); *(3rd Application):* 0.75 (46-0-0); 1.50 (0-0-60);	70	70	50	Option 1: *(1st Application):* 7.25 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.00 (46-0-0); Option 2: *(1st Application):* 7.00 (16-20-0); *(3rd Application):* 0.75 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 1.50 (46-0-0); 8.00 (0-18-0); *(2nd Application):* 0.75 (46-0-0); *(3rd Application):* 0.75 (46-0-0); 1.75 (0-0-60);	80	70	50	Option 1: *(1st Application):* 7.25 (14-14-14-); 2.25 (0-18-0); *(2nd Application):* 1.50 (46-0-0); Option 2: *(1st Application):* 7.00 (16-20-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 1.75 (46-0-0); 8.00 (0-18-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60);	985	2.52
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 (0-0-60); 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 (0-0-60); 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 (0-0-60);	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 (0-0-60); 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 (0-0-60); 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 (0-0-60);	70	30	50	Option 1: *(1st Application):* 4.50 (14-14-14-); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 0.75 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 3.00 (16-20-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); 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); 1.75 (0-0-60);	80	30	50	Option 1: *(1st Application):* 4.50 (14-14-14-); *(2nd Application):* 1.09 (46-0-0); *(3rd Application):* 0.87 (46-0-0); 0.75 (0-0-60); 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 (0-0-60); 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 (0-0-60);	4,054	10.36
110	M-MH-H-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 (0-0-60); 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 (0-0-60); 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 (0-0-60);	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 (0-0-60); 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 (0-0-60); 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 (0-0-60);	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 (0-0-60); 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 (0-0-60); 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 (0-0-60);	80	7	50	Option 1: *(1st Application):* 1.00 (14-14-14-); *(2nd Application):* 1.75 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 2.25 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); 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); 1.75 (0-0-60);	9,885	25.27
114	M-H-L-ML	30	60	40	Option 1: *(1st Application):* 2.25 (14-14-14-); 5.00 (0-18-0); *(3rd Application):* 0.75 (46-0-0); 1.00 (0-0-60); Option 2: *(1st Application):* 0.75 (46-0-0); 6.75 (0-18-0); *(3rd Application):* 0.75 (46-0-0); 1.50 (0-0-60);	40	60	40	Option 1: *(1st Application):* 3.00 (14-14-14-); 4.50 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 1.00 (46-0-0); 6.75 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	50	70	50	Option 1: *(1st Application):* 3.75 (14-14-14-); 5.00 (0-18-0); *(2nd Application):* 1.25 (46-0-0); *(3rd Application):* 1.00 (0-0-60); Option 2: *(1st Application):* 1.25 (46-0-0); 8.00 (0-18-0); *(3rd Application):* 1.25 (46-0-0); 1.75 (0-0-60);	60	70	50	Option 1: *(1st Application):* 4.25 (14-14-14-); 4.50 (0-18-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 0.75 (0-0-60); Option 2: *(1st Application):* 1.50 (46-0-0); 7.78 (0-18-0); *(2nd Application):* 0.65 (46-0-0); *(3rd Application):* 0.65 (46-0-0); 1.75 (0-0-60);	526	1.34
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 (0-0-60); Option 2: *(1st Application):* 0.75 (46-0-0); 2.25 (0-18-0); *(3rd Application):* 0.75 (46-0-0); 1.50 (0-0-60);	40	20	40	Option 1: *(1st Application):* 3.00 (14-14-14-); *(3rd Application):* 1.00 (46-0-0); 0.75 (0-0-60); Option 2: *(1st Application):* 1.00 (46-0-0); 2.25 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	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 (0-0-60); Option 2: *(1st Application):* 1.25 (46-0-0); 3.50 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60);	60	30	50	Option 1: *(1st Application):* 4.50 (14-14-14-); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 0.75 (0-0-60); Option 2: *(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); 1.75 (0-0-60);	1,145	2.93
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 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(3rd Application):* 1.25 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 0.75 (46-0-0); 1.00 (0-18-0); *(3rd Application):* 0.75 (46-0-0); 1.50 (0-0-60);	40	7	40	Option 1: *(1st Application):* 1.00 (14-14-14-); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.25 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 0.75 (46-0-0); *(3rd Application):* 0.75 (46-0-0); 1.50 (0-0-60); Option 3: *(1st Application):* 1.00 (46-0-0); 1.00 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60);	50	7	50	Option 1: *(1st Application):* 1.00 (14-14-14-); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.50 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 1.00 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); Option 3: *(1st Application):* 1.25 (46-0-0); 1.00 (0-18-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60);	60	7	50	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 (0-0-60); Option 2: *(1st Application):* 0.75 (16-20-0); *(2nd Application):* 1.50 (46-0-0); *(3rd Application):* 1.00 (46-0-0); 1.75 (0-0-60); 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 (0-0-60);	441	1.13
																	T O T A L	**39,120**	**100.00**

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

DESCRIPTION				
TEXTURE			N	P	K
L	...	Light	L	-	Moderately low
			ML	-	Moderately low
M	...	Medium to Heavy	MH	-	Moderately High
			H	-	High

FERTILIZER RECOMMENDATION GUIDE FOR RICE			
1st Application -	*After last harrowing - Basal*	*(14-14-14)*	*Complete*
2nd Application -	*10 - 14 DAT (days after transplanting) - Topdress*	*(46-0-0)*	*Urea*
3rd Application -	*20 - 25 DAT (days after transplanting) - Topdress*	*(16-20-0)*	*Ammophos*
		(0-18-0)	*Solophos*
		(0-0-60)	*Muriate of Potash*