

LAND SUITABILITY MAP

ABACA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

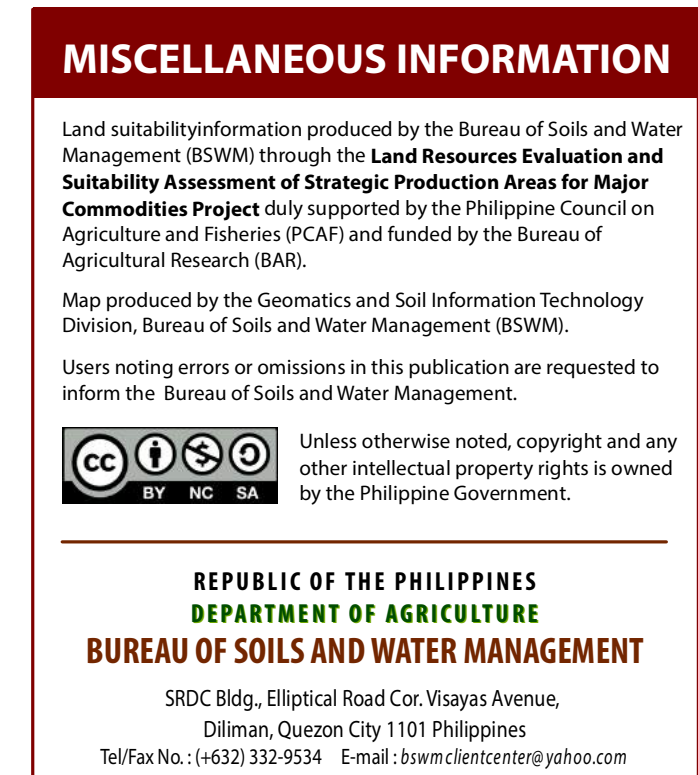
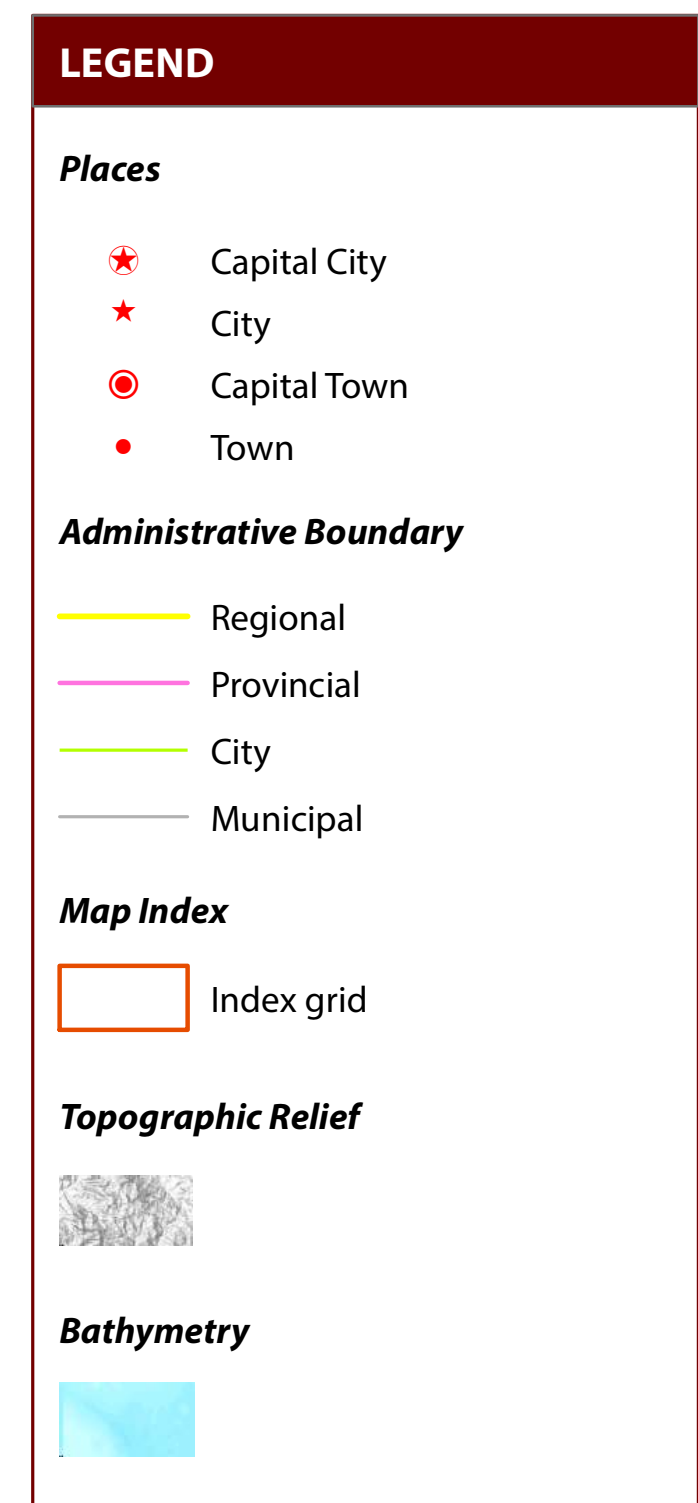
PROVINCE OF MISAMIS OCCIDENTAL



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT

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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF MISAMIS OCCIDENTAL



LAND SUITABILITY MAP FOR ABACA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS MISAMIS OCCIDENTAL, REGION X

EXTENT OF SUITABILITY FOR ABACA PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING ABACA (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION (Ha)						TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Rice paddy, non-irrigated		Other crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2			
ALORAN	-	-	-	-	1,914	2,069	-	65	-	-	88	4	-	-	-	-	4,140
BALIANGAO	-	-	-	-	3,447	476	-	-	-	-	537	7	-	-	-	-	4,467
BONIFACIO	-	-	-	-	927	2,874	14	35	10	-	658	1,625	-	-	-	-	6,143
CALAMBA	-	-	-	-	2,533	1,810	-	-	293	199	164	-	-	-	-	-	5,000
CLARIN	-	-	-	-	2,229	729	-	3	-	66	195	79	-	-	-	-	3,302
CONCEPCION	-	-	-	-	-	637	-	-	-	344	-	793	-	-	-	-	1,774
DON VICTORIANO CHIONGBIAN	-	-	-	-	-	560	-	6	-	20	-	525	-	-	-	-	1,111
JIMENEZ	-	-	-	-	958	1,828	1	8	17	84	96	1	-	-	-	-	2,993
LOPEZ JAENA	-	-	-	-	1,762	5,286	-	48	-	35	147	133	-	-	-	-	7,410
OROQUIETA CITY	-	-	-	-	3,427	4,689	-	-	-	-	99	18	-	-	-	-	8,234
OZAMIS CITY	-	-	-	-	5,355	3,735	-	1	33	18	1,005	924	-	-	-	-	11,071
PANAON	-	-	-	-	952	1,523	-	-	-	-	81	7	-	-	-	-	2,563
PLARIDEL	-	-	-	-	2,688	2,290	-	-	-	-	633	413	-	-	-	-	6,024
SAPANG DALAGA	-	-	-	-	3,506	4,126	1	2	53	104	44	59	-	-	-	-	7,895
SINACABAN	-	-	-	-	1,417	2,757	-	-	21	114	24	7	-	-	-	-	4,340
TANGUB CITY	-	-	-	-	2,757	3,705	-	55	11	89	1,840	1,430	-	-	-	-	9,888
TUDELA	-	-	-	-	1,570	3,290	-	-	-	26	15	29	-	-	-	-	4,930
TOTAL	-	-	-	-	35,442	42,386	16	224	438	1,099	5,626	6,054	-	-	-	-	91,285

Note: Delivery of abaca planting materials must be started on the onset of rainy season.

*establishment of shade trees prior to planting of abaca.

SUITABILITY CLASSES:

Highly Suitable (S1)
Land having no significant limitation to sustained application of a given use, or only minor limitations that will not significantly reduce productivity or benefits and will not raise inputs above an acceptable level.

Moderately Suitable (S2)
Land having limitation which in aggregate are moderately severe for sustained application of a given use; the limitation will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

Marginally Suitable (S3)
Land having limitations which in aggregate are severe for sustained application of a given use and will so reduce productivity or benefits, or increase required inputs, that this expenditure will be only marginally justified.

Not Suitable / Not Relevant
Land having limitations which may be surmountable in time but which cannot be corrected with existing knowledge at currently acceptable cost; the limitations are so severe as to preclude successful sustained use of the land in the given manner. Existing forest, shrubland greater than 18% slope, irrigated paddy rice and miscellaneous land types such as built up areas, roads, etc are considered as not relevant.

AGRONOMIC REQUIREMENT OF ABACA PRODUCTION

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%)	SOIL DEPTH (cm)	SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFALL (mm)	CLIMATIC TYPE
Abaca	S1	<8	>50	CL, SICL, SCL, SC, SIC, C, HC	WD,MWD, SPD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	2001-4500	II, III, IV
	S2	8 - 30	30 - 50	FSL, L, SIL, SL	PD,VPD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1500	1000-2000	I, II
	S3	>30	< 30	S, LS, CSL	ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500	I

SLOPE (%)

0 - 3 - level to gently sloping
3 - 8 - gently sloping to undulating
8 - 18 - undulating to rolling
18 - 30 - rolling to moderately steep
30 - 50 - steep
> 50 - very steep

SOIL DRAINAGE

ED - excessively drained
WD - well drained
MWD - moderately well drained
SPD - somewhat poorly drained
PD - poorly drained
VPD - very poorly drained

SOIL REACTION (pH)

< 4.5 - extremely acid
4.5 - 5.0 - very strongly acid
5.1 - 5.5 - strongly acid
5.6 - 6.0 - medium acid
6.1 - 6.5 - slightly acid
6.6 - 7.2 - neutral
7.3 - 7.8 - mildly alkaline
7.9 - 8.4 - moderately alkaline
> 8.5 - strongly alkaline

SOIL TEXTURE

Coarse
S - sand
LS - loamy sand
CSL - coarse sandy loam
SL - sandy loam
Medium
FSL - fine sandy loam
L - loam
SIL - silt loam
CL - clay loam
SICL - silty clay loam
SCL - sandy clay loam

Fine
SC - sandy clay
SiC - silty clay
C - clay
HC - heavy clay

SOIL DEPTH (cm)

0 - 30 - very shallow
30 - 50 - shallow
50 - 100 - moderately deep
> 100 - deep to very deep

SURFACE IMPEDIMENT

ROCK OUTCROPS
< 10% - none - few
10 - 30% - common
> 30% - many

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION

EI2 - 500 - 1000m or 2000 - 2500m
EI3 - < 500m or > 2500m

SOIL DRAINAGE

D2 - Somewhat poorly drained to poorly drained
D3 - Very poorly drained or excessively drained

SOIL DEPTH

Sh2 - Shallow to moderately deep (30 - 100cm)
Sh3 - Very shallow (< 30cm)

SOIL EROSION

E2 - Moderate erosion
E3 - Severe erosion

SLOPE/TOPOGRAPHY

T2 - Undulating to moderately steep
T3 - Steep to very steep

SOIL TEXTURE

Tc - Coarse texture

ROCK OUTCROPS

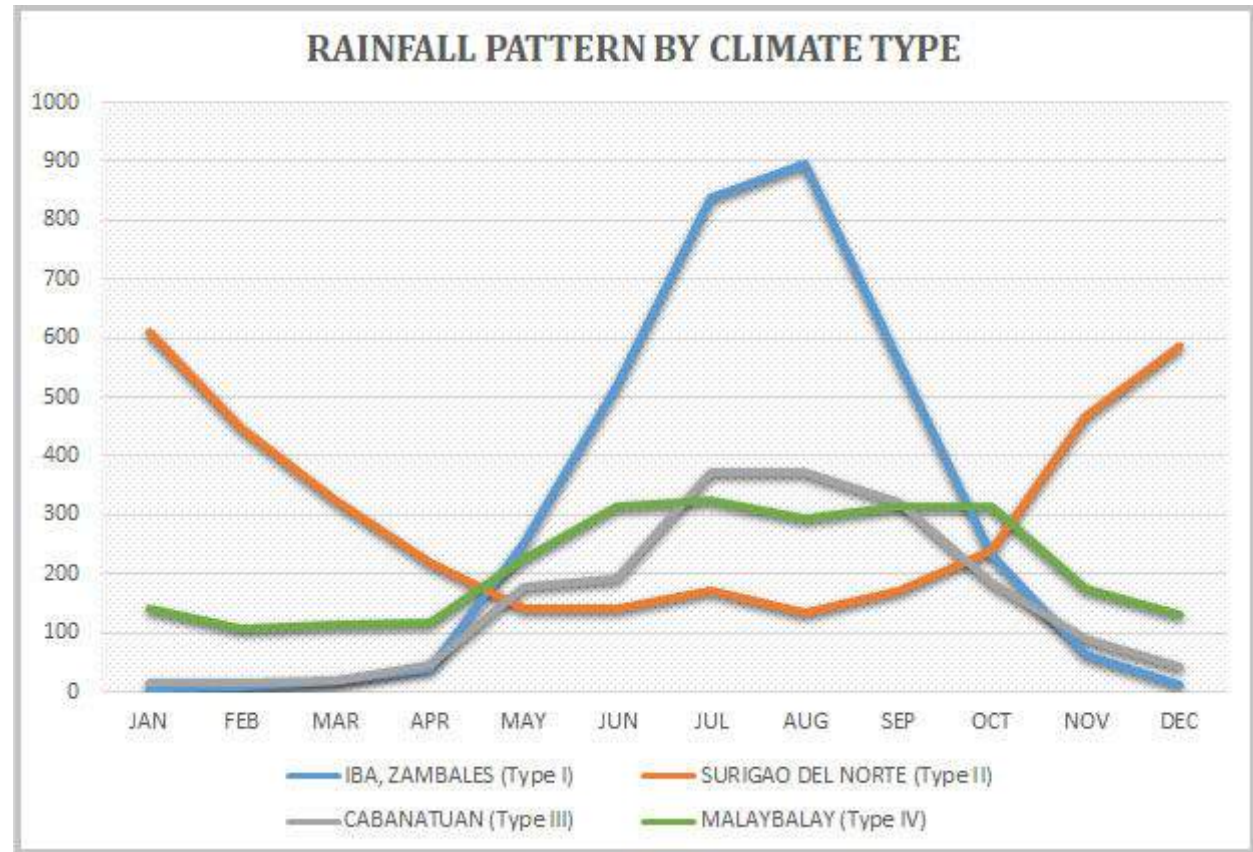
Rc2 - Common
Rc3 - Many

FLOODING

F2 - Moderate seasonal flooding
F3 - Severe seasonal flooding

CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION
1	EI2	11	T2-E3-Sh2-Rc3	21	T3-E3	31	T3-EI2-E3
2	F2-D2	12	T2-EI2	22	T3-E3-Sh3-Rc2	32	T3-EI2-E3-Sh3-Rc3
3	F3-D2	13	T2-EI2-E3-Sh2-Rc2	23	T3-EI2	33	T3-EI3-E3-Sh3-Rc3
4	Sh2	14	T2-EI2-Sh2-Rc2	24	T3-EI2-E3-Sh3-Rc2	34	T3-EI3
5	Sh2-Rc2	15	T2-EI3-E3-Sh2-Rc2	25	T3-EI3-E3-Sh3-Rc2	35	T3-EI3-F3-D2
6	T2	16	T2-EI3-Sh2-Rc2	26	T3-F3-D2		
7	T2-E2-Sh2-Rc2	17	T2-F2-D2	27	T3		
8	T2-E3	18	T2-F3-D2	28	T3-E3		
9	T2-E3-Rc2	19	T2-Sh2-Rc2	29	T3-E3-Sh3-Rc3		
10	T2-E3-Sh2-Rc2	20	T3	30	T3-EI2		

CODE	LANDUSE
4	Corn
81	Coffee
82	Cacao
116	Coconut
126	Grassland
134	Shrubs, unmanaged
137	Rubber

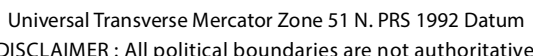
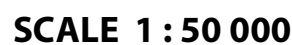


Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <<https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>>.

Almost whole part of Misamis Occidental classified as climatic Type III and small part in the Western side is climate Type IV.

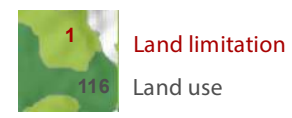
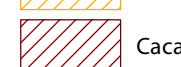


LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SUITABILITY CLASSES

- ☐
- Not Suitable/ Not Relevant**

 NGP

ROADS

ROADS

- LAND USE

BOUNDAR

1

HYDROLOGY

Spain



PLACES

★ ★ Capit



LAND USE

Built:



ADJOINING SHEETS

3718-III

INDEX MAP

MISCELLANEOUS INFORMATION

SOURCES OF INFORMATION : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** implemented by BSWM (2017).

Project Leader	BERNARDO B. PASCUA
GIS and Cartography	IRVIN K. SAMALCA
Funding Agency	Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
Collaborating Agencies	Philippine Council on Agriculture and Fisheries (PCAF) Department of Agriculture and Fisheries - ARMM, Department of Agriculture Regional Field Office of Region IX, X, XI, XII and XIII (Caraga) Local Government Unit (LGU) of covered provinces and municipalities

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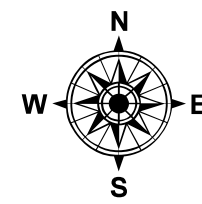


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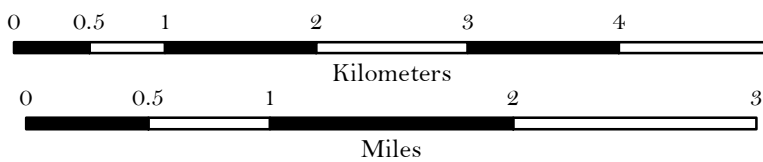
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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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LEGEND

SUITABILITY CLASSES

- | | |
|----|--|
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Not Suitable/ Not Relevant

OTHER SIGNS

- 

CONVENTIONAL SIGNS

ROADS

- Express
Trunk line
Primary
Secondary
Tertiary

BOUNDARY

HYDROLOGY

 Sea / Shoreline
Lakes / Rivers

PLACES

Secondary Municipality ★ Capital City / City
Tertiary Barangay ● Capital Town / Town

LAND U.S.

 Built-up  Fishpond  Mangrove

ADJOINING SHEETS

3617-I

INDEX MAP

3617-I

The map shows the Philippines with a red box highlighting the central region. Within this box, the location of station 3617-I is marked. Surrounding areas are labeled with other station numbers: 3718-III to the north, 3717-IV to the east, 3717-III to the south, and 3717-II to the southwest. A small inset map on the right shows the entire Philippines with a red dot indicating the location of the study area in the central part of the country.


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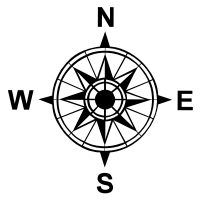
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ABACA

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ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



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LEGEND

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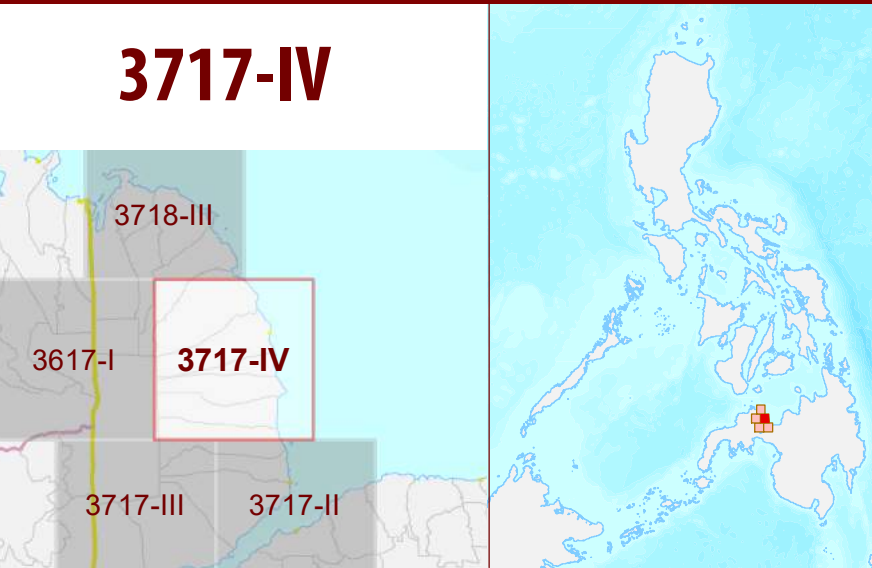
OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**
 - Expressway
 - Trunk line
 - Primary
 - Secondary
 - Tertiary
- BOUNDARY**
 - Region
 - Province
 - District
 - Municipality
 - Barangay
- HYDROLOGY**
 - Sea / Shoreline
 - Lakes / Rivers
- PLACES**
 - Capital City / City
 - Capital Town / Town
- LAND USE**
 - Built-up
 - Fishpond
 - Mangrove

ADJOINING SHEETS



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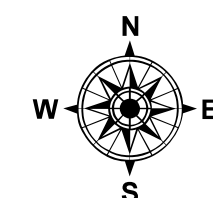


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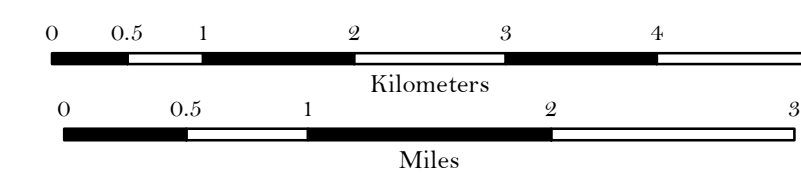
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OTHER SIGNS


-  NGP Areas
 Cacao
 Land limitation
 Land use

CONVENTIONAL SIGNS

ROADS



- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY



Sea / Shoreline
Lakes / Rivers

PLACES

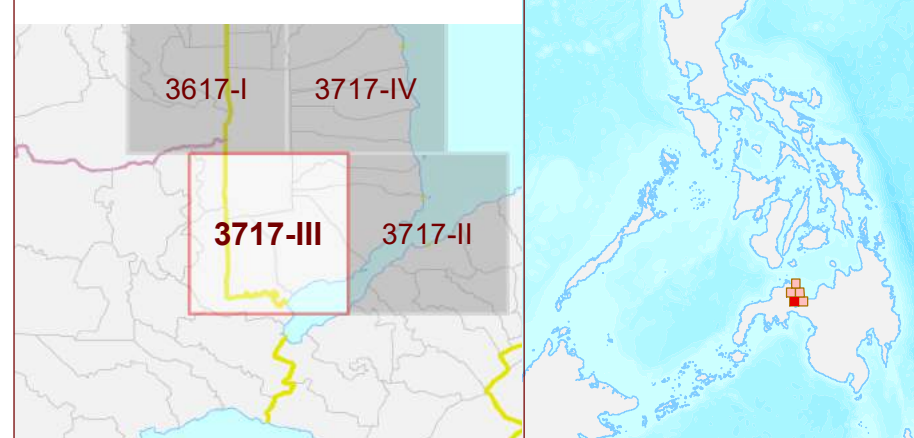
-   Capital City / City
 Capital Town / Town

LAND USE

- Built-up Fishpond Mangrove

ADJOINING SHEETS

3717-III



MISCELLANEOUS INFORMATION

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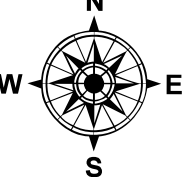
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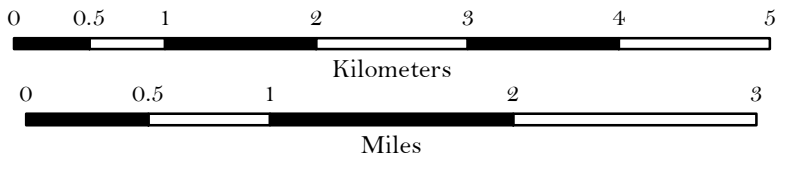


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- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

ROADS

- Expressway
- Trunk line
- Primary
- Secondary
- Tertiary

BOUNDARY

- Region
- Province
- District
- Municipality
- Barangay

HYDROLOGY

- Sea / Shoreline
- Lakes / Rivers

PLACES

- Capital City / City
- Capital Town / Town

LAND USE

- Built-up
- Fishpond
- Mangrove

ADJOINING SHEETS

3717-II

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MISCELLANEOUS INFORMATION

SOURCES OF INFORMATION : Topographic information taken from NAMRIA Topographic Map at 1:50,000 scale. Land resources information from the Agricultural Land Management and Evaluation Division (ALMED), Soils Survey Division (SSD) and Laboratory Services Division (LSD) of BSWM. Rice areas obtained from the Land Use System (FAO, 2015) and Philippine Rice Information System (PRISM) (IRRI, 2015). Data analysis and compilation through the **Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project** implemented by BSWM (2017).

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