

# **LAND SUITABILITY MAP**

## **CASSAVA**

**LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS**

**PROVINCE OF MISAMIS OCCIDENTAL**



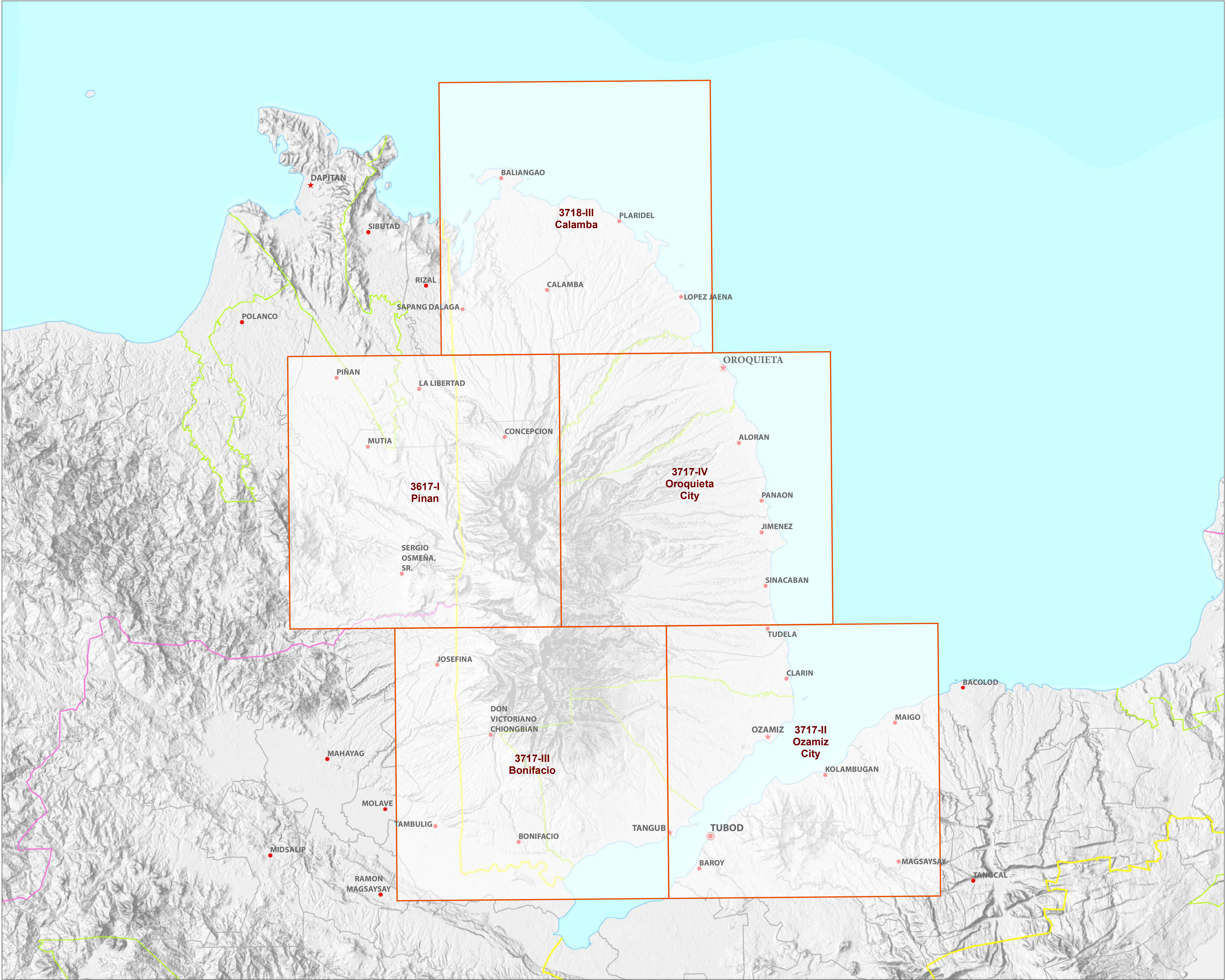
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**DEPARTMENT OF AGRICULTURE**  
**BUREAU OF SOILS AND WATER MANAGEMENT**

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



**LEGEND**

**Places**

- ★ Capital City
- ★ City
- Capital Town
- Town

**Administrative Boundary**

- Regional
- Provincial
- City
- Municipal

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**Bathymetry**



**MISCELLANEOUS INFORMATION**

Land suitability information produced by the Bureau of Soils and Water Management (BSWM) through the Land Resources Evaluation and Suitability Assessment of Strategic Production Areas for Major Commodities Project duly supported by the Philippine Council on Agriculture and Fisheries (PCAF) and funded by the Bureau of Agricultural Research (BAR).

Map produced by the Geomatics and Soil Information Technology Division, Bureau of Soils and Water Management (BSWM).

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# LAND SUITABILITY MAP FOR CASSAVA

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

### EXTENT OF SUITABILITY FOR CASSAVA PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING CASSAVA (Ha)			TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)						CONFLICT RESOLUTION (Ha)						TOTAL POTENTIAL EXPANSION AREA (Ha)
					Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Paddy rice, non-irrigated		Other crops		
	S1	S2	S3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2			
ALORAN	-	-	-	-	1,914	1,792	-	41	-	-	88	4	-	-	-	-	3,839
BALIANGAO	-	-	-	-	3,447	476	-	-	-	-	537	7	-	-	-	-	4,467
BONIFACIO	-	-	-	-	927	2,490	14	35	10	-	658	1,625	-	-	-	-	5,758
CALAMBA	-	-	-	-	2,533	1,724	-	-	293	196	164	-	-	-	-	-	4,910
CLARIN	-	-	-	-	2,229	713	-	-	-	43	195	57	-	-	-	-	3,236
CONCEPCION	-	-	-	-	-	349	-	-	-	103	-	187	-	-	-	-	638
DON VICTORIANO CHIONGBIAN	-	-	-	-	-	54	-	-	-	-	-	10	-	-	-	-	65
JIMENEZ	-	-	-	-	958	1,539	1	8	17	84	96	1	-	-	-	-	2,703
LOPEZ JAENA	-	-	-	-	1,828	5,153	-	48	-	35	152	128	-	-	-	-	7,344
OROQUIETA CITY	-	-	-	-	3,427	4,269	-	-	-	-	99	18	-	-	-	-	7,814
OZAMIS CITY	-	-	-	-	5,355	3,679	-	-	33	-	1,005	726	-	-	-	-	10,799
PANAON	-	-	-	-	952	1,385	-	-	-	-	81	7	-	-	-	-	2,425
PLARIDEL	-	-	-	-	2,736	2,241	-	-	-	-	641	405	-	-	-	-	6,024
SAPANG DALAGA	-	-	-	-	3,506	3,910	1	2	53	104	44	59	-	-	-	-	7,679
SINACABAN	-	-	-	-	1,417	2,225	-	-	21	25	24	7	-	-	-	-	3,718
TANGUB CITY	-	-	-	-	2,757	3,408	-	54	11	32	1,840	1,329	-	-	-	-	9,432
TUDELA	-	-	-	-	1,570	2,578	-	-	-	2	15	29	-	-	-	-	4,194
TOTAL	-	-	-	-	35,556	37,985	16	188	438	623	5,640	4,599	-	-	-	-	85,045

Note: Delivery of cassava planting materials must be started on the onset of rainy season.  
\*establishment of shade trees prior to planting of cassava.

### AGRONOMIC REQUIREMENT OF CASSAVA 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
Cassava	S1	<8	>50	FSL, L, SIL, CL, SICL, SCL, SC, SIC, C	WD,MWD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	1000-2000	I,II,III, IV
	S2	8 - 18	30 - 50	SL, HC	SPD, PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1500	2001-4500	II
	S3	18 - 30	<30	S, LS, CSL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	>1500	<1000 >4500	

#### 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-EI3-Sh2-Rc2	21	T3-EI2-E3	31	T3-E3-Sh3-Rc3
2	F2-D2	12	T2-F2-D2	22	T3-EI2-E3-Sh2-Rc2	32	T3-EI2
3	F3-D2	13	T2-F3-D2	23	T3-EI2-E3-Sh3-Rc2	33	T3-EI2-E3
4	Sh2	14	T3	24	T3-EI3	34	T3-EI2-E3-Sh3-Rc3
5	Sh2-Rc2	15	T3-E3	25	T3-EI3-E3-Sh2-Rc2	35	T3-EI3
6	T2	16	T3-E3-Rc2	26	T3-EI3-E3-Sh3-Rc2	36	T3-EI3-E3-Sh3-Rc3
7	T2-E2-Sh2-Rc2	17	T3-E3-Sh2-Rc2	27	T3-F2-D2	37	T3-EI3
8	T2-EI2	18	T3-E3-Sh2-Rc3	28	T3-F3-D2	38	T3-EI3-F3-D2
9	T2-EI2-Sh2-Rc2	19	T3-E3-Sh3-Rc2	29	T3		
10	T2-EI3	20	T3-EI2	30	T3-E3		

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

### 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.



#### 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.



#### 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.



#### 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.

### CLIMATE TYPE

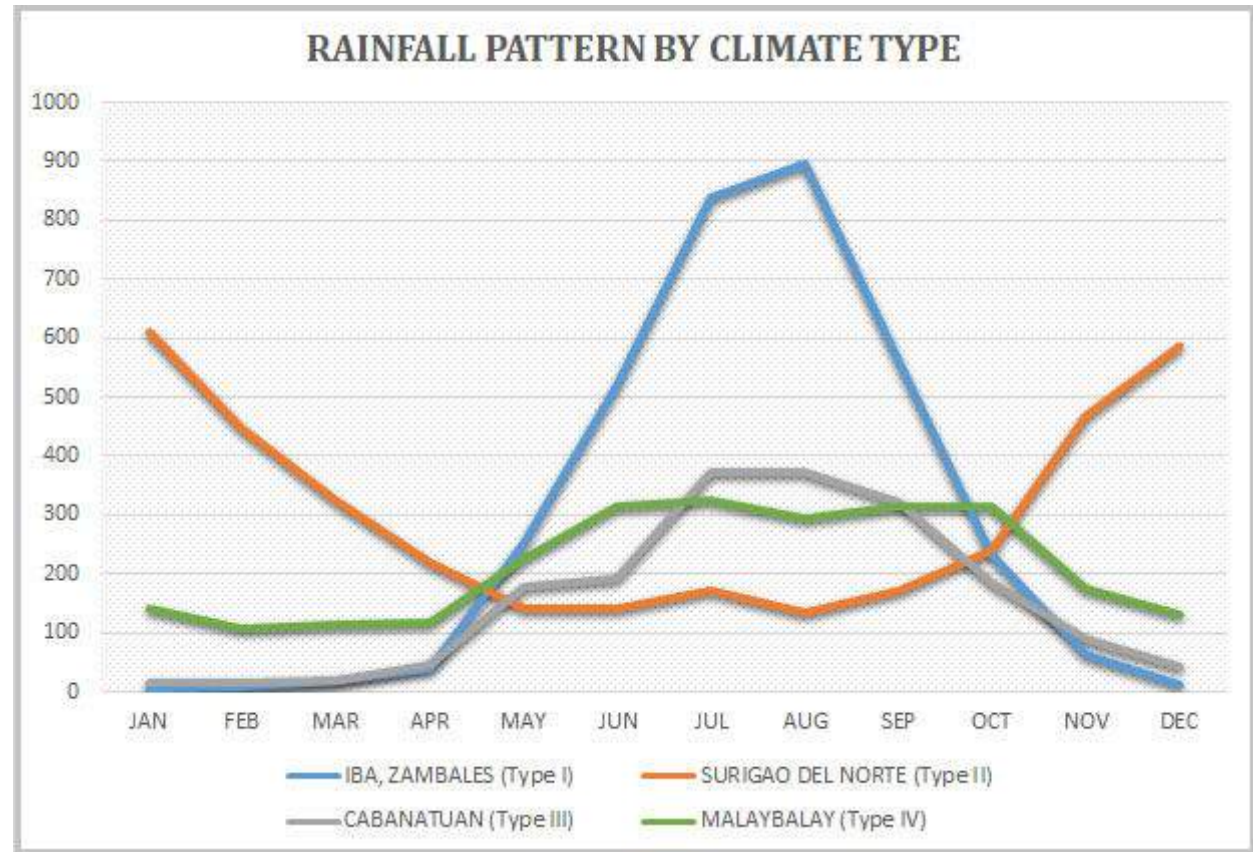
**TYPE I** : Two pronounced season, dry from November to April and wet during the rest of the year. Maximum rain period is from June to September

**TYPE II** : No dry season with a very pronounced maximum rain period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.

**TYPE III** : No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

**TYPE IV** : Rainfall is more or less evenly distributed throughout the year. This type resembles Type II since it has no dry season.

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



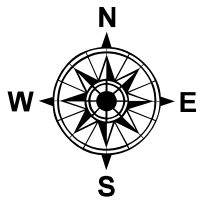
Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <<https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>>.





LAND SUITABILITY MAP  
CASSAVA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

- S1 Highly Suitable** - Land having no significant limitations to sustained application of a given use, or only minor limitations that will not significantly 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.
- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations 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.
- S3 Marginally Suitable** - 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

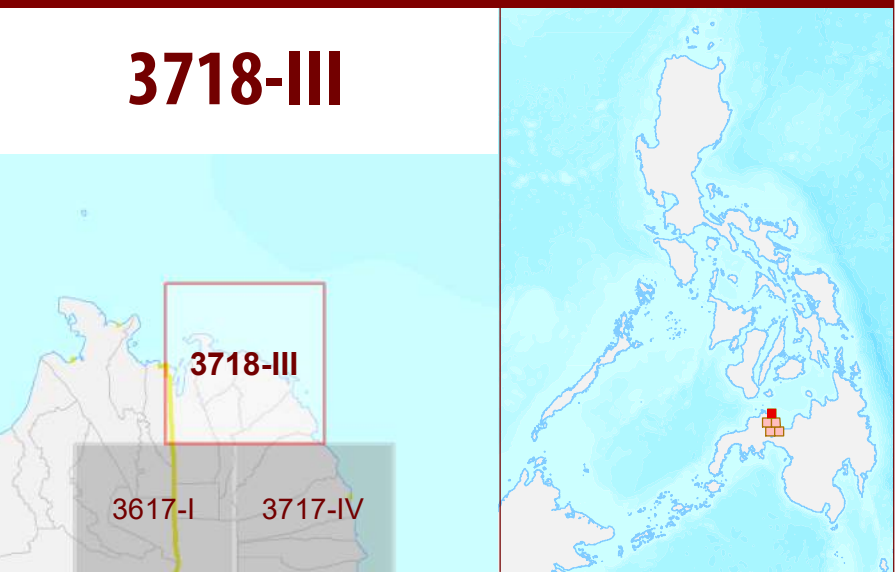
OTHER SIGNS

- 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



MISCELLANEOUS INFORMATION

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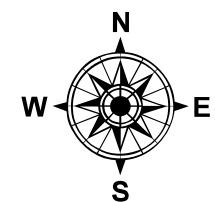
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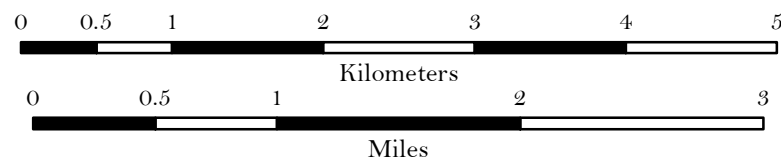
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## LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



**SCALE 1 : 50 000**



Universal Transverse Mercator Zone 51 N. PRS 1992 Datum  
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### LEGEND

### SUITABILITY CLASSES

- |    |  |
|----|--|
| S1 | <b>Highly Suitable</b> - Land having no significant limitations 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.  |
| S2 | <b>Moderately Suitable</b> - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations will reduce productivity or benefits and increase required inputs to the extent that the overall application of a given use from the use, although still attractive, will be appreciably inferior to that expected on class S1 land. |
| S3 | <b>Marginally Suitable</b> - 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**





### OTHER SIGNS

- 
 NGP Areas  

 Cacao
- 
 Land limitation  
 Land use

## CONVENTIONAL SIGNS

## ROADS

-  Express
-  Trunk line
-  Primary
-  Secondary
-  Tertiary

**BOUNDARY**

-  Region  
 Province  
 Sea / Shoreline  
 Lakes / Rivers

## HYDROLOGY

- Sea / Shoreline  
Lakes / Rivers
- PLACES**
- ★ ★ Capital City / City  
● ● Capital Town / Town

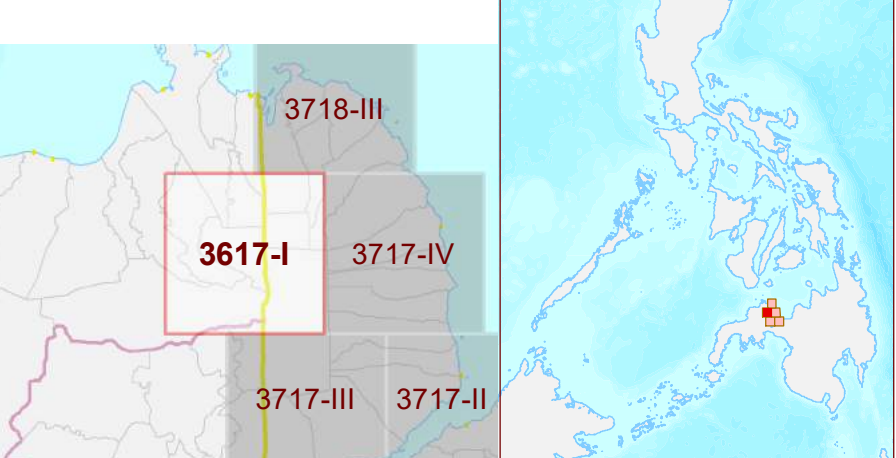
## LAND U.S.

- Legend: Built-up Fishpond Mangrove

## ADJOINING SHEETS

## INDEX MAP

# 3617-I




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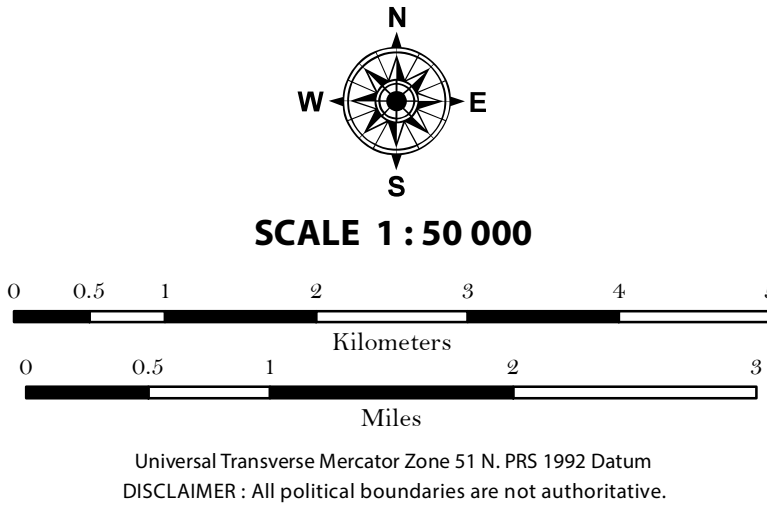
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**Not Suitable/ Not Relevant**

**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**

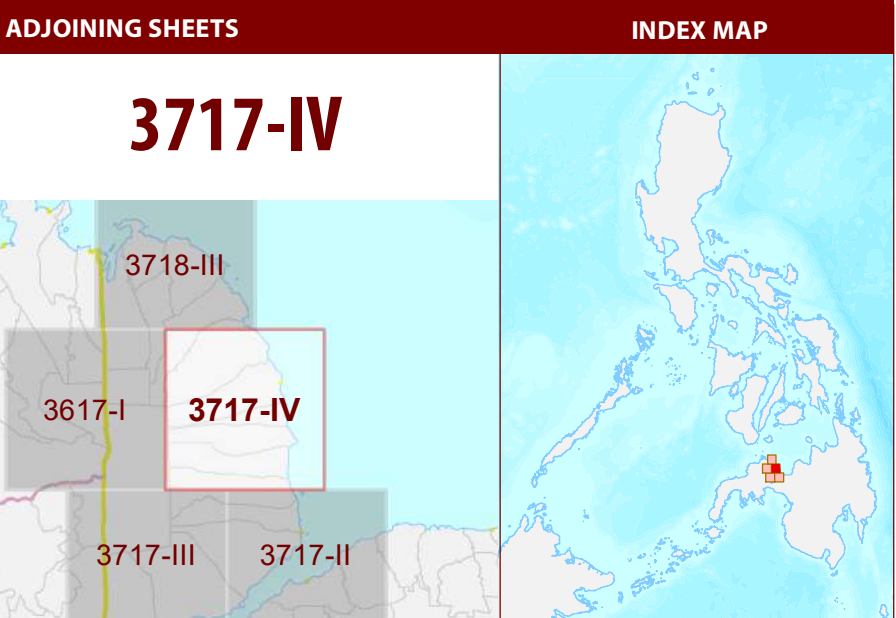
- Sea / Shoreline
- Lakes / Rivers

**PLACES**

- Capital City / City
- Capital Town / Town

**LAND USE**

- Built-up
- Fishpond
- Mangrove



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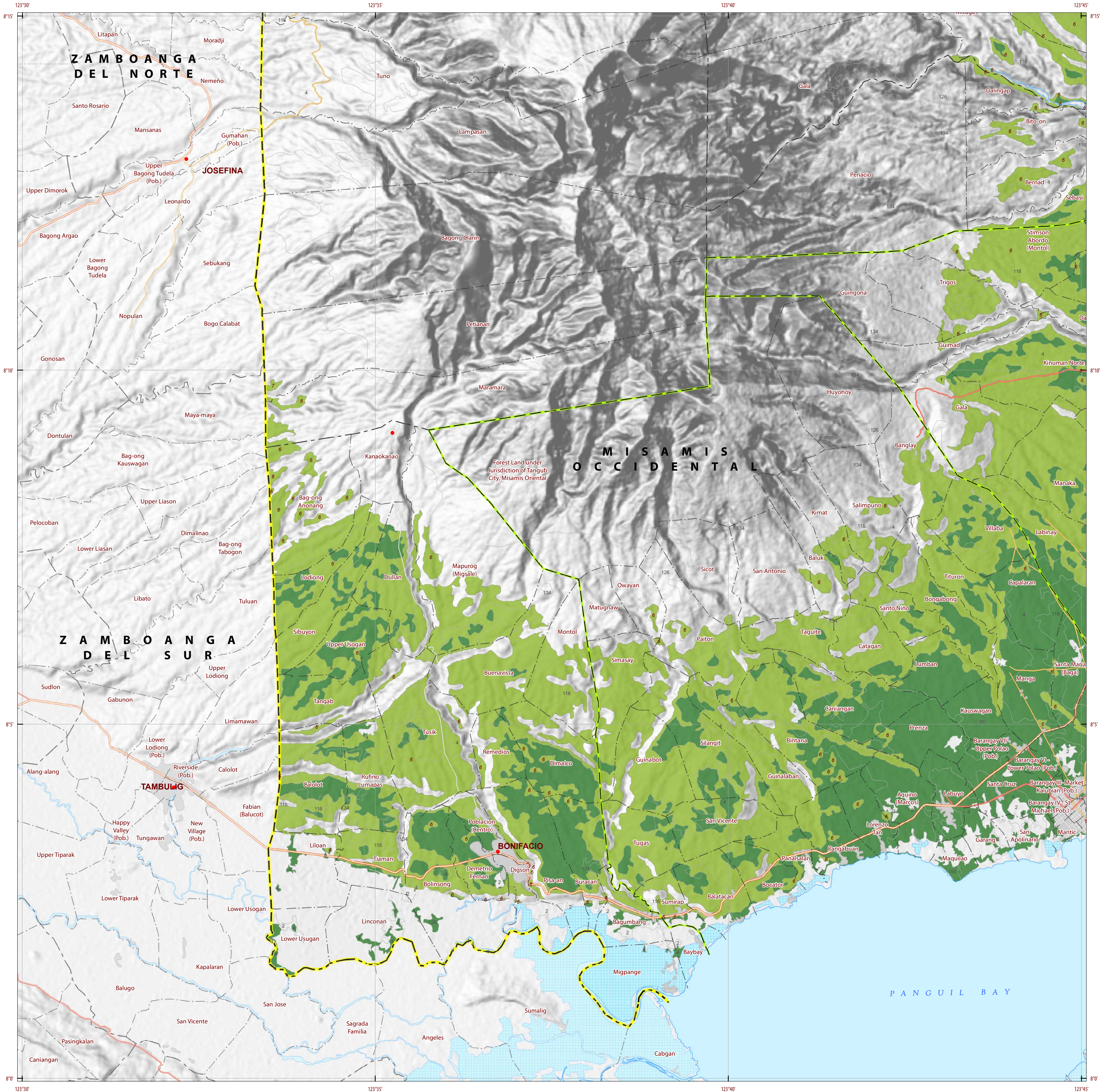
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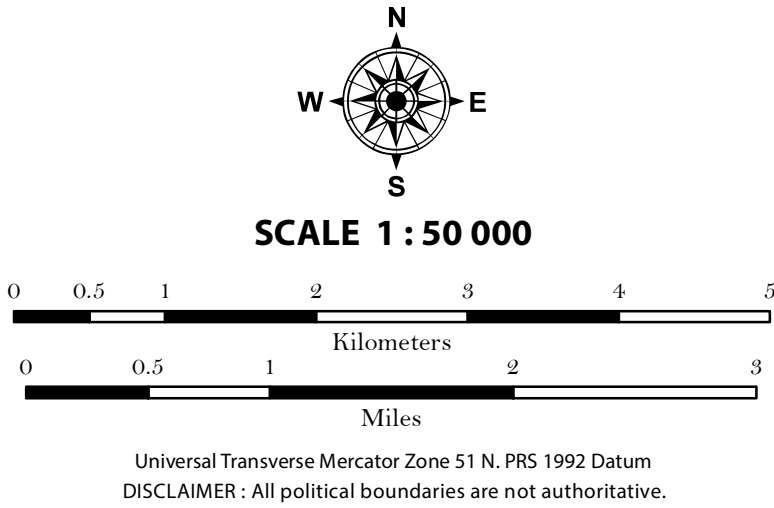
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- Not Suitable/ Not Relevant**

**OTHER SIGNS**

- NGP Areas
- Cacao
- Land limitation
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**CONVENTIONAL SIGNS**

**ROADS**

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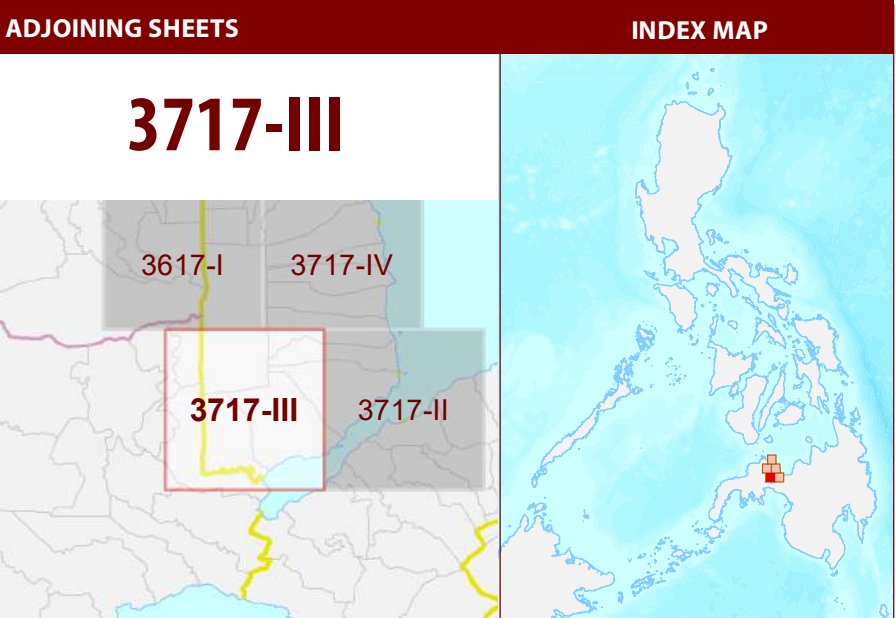
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**PLACES**

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**LAND USE**

- Built-up
- Fishpond
- Mangrove



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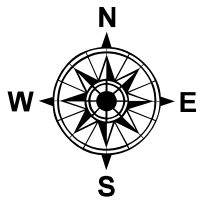
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LAND SUITABILITY MAP  
CASSAVA

LAND RESOURCES EVALUATION AND SUITABILITY  
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N, PRS 1992 Datum  
DISCLAIMER : All political boundaries are not authoritative.

LEGEND

SUITABILITY CLASSES

- S1 Highly Suitable** - Land having no significant limitations 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.
- S2 Moderately Suitable** - Land having limitations which in aggregate are moderately severe for sustained application of a given use; the limitations 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.
- S3 Marginally Suitable** - 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

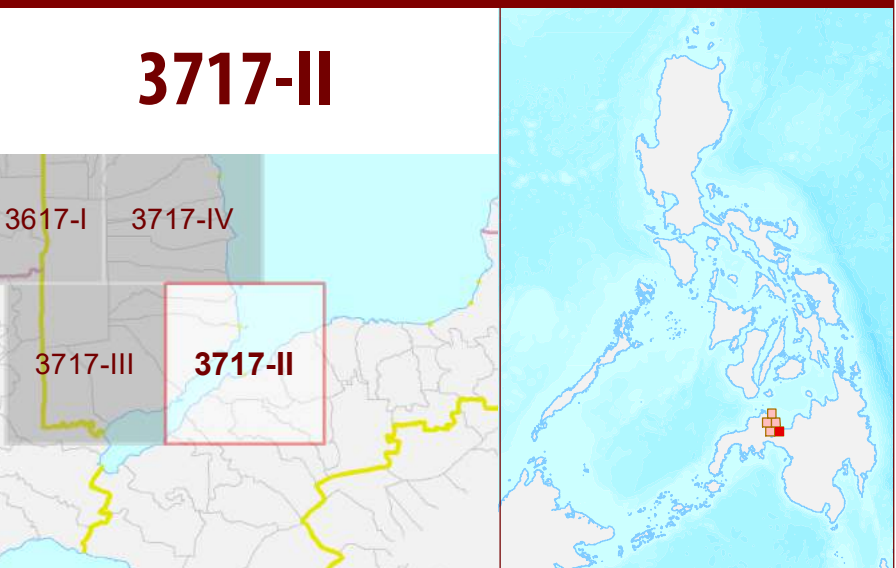
OTHER SIGNS

- 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



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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Collaborating Agencies : Philippine Council on Agriculture and Fisheries (PCAF)  
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