

LAND SUITABILITY MAP

NATURAL RUBBER

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

PROVINCE OF MISAMIS OCCIDENTAL

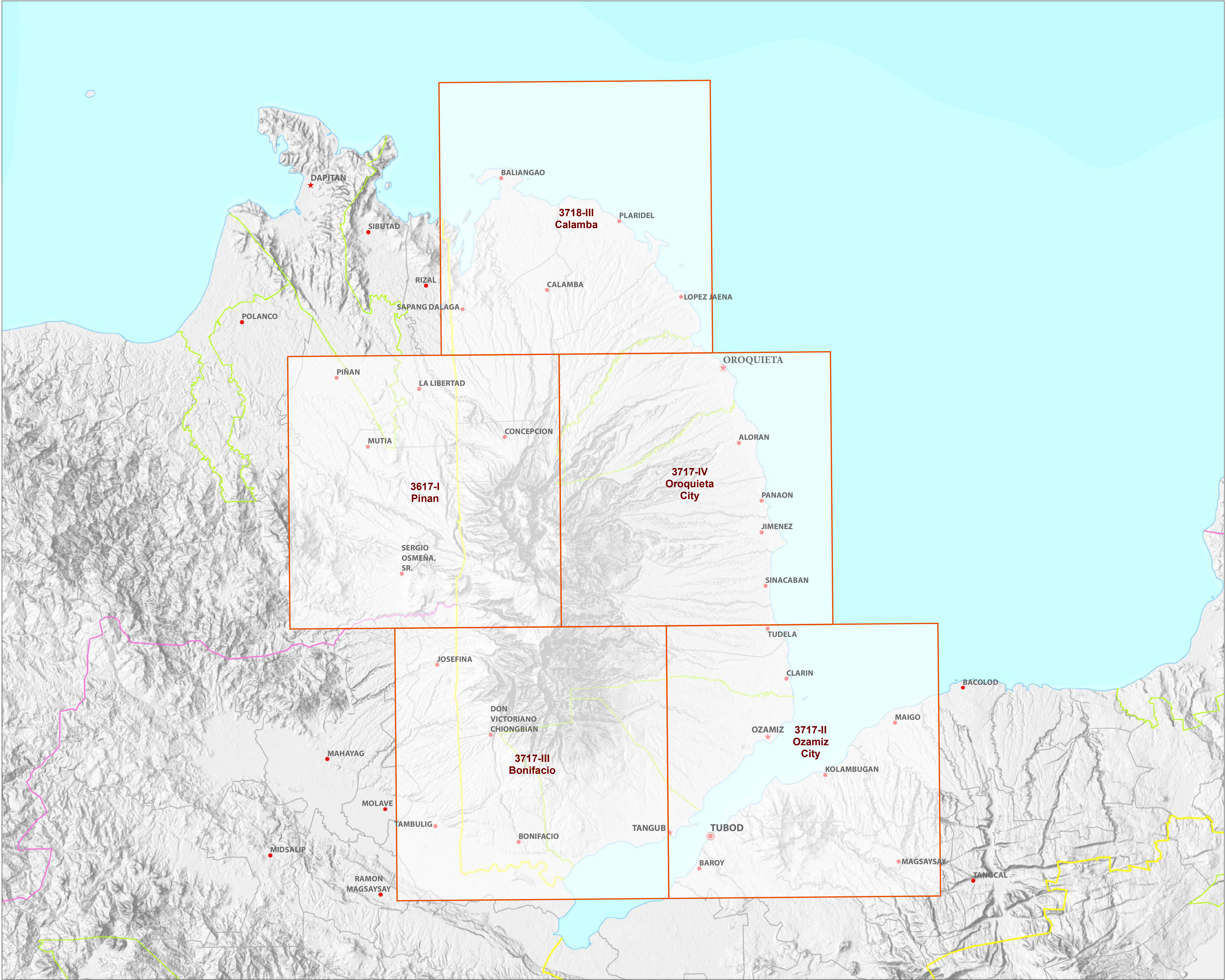


REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
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MAP INDEX

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

Map Index

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Topographic Relief

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 RUBBER

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

EXTENT OF SUITABILITY FOR RUBBER PRODUCTION BY MUNICIPALITY

MUNICIPALITY	EXISTING RUBBER (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	2,019	-	65	-	-	88	4	-	-	-	-	4,090
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	-	-	-	340	-	793	-	-	-	-	1,770
DON VICTORIANO CHIONGBIAN	-	-	-	-	-	561	-	146	-	87	-	567	-	-	-	-	1,362
JIMENEZ	-	-	-	-	958	1,828	1	8	17	84	96	1	-	-	-	-	2,993
LOPEZ JAENA	-	-	-	-	1,762	5,269	-	48	-	35	147	133	-	-	-	-	7,394
OROQUIETA CITY	-	-	-	-	3,427	4,656	-	-	-	-	99	18	-	-	-	-	8,201
OZAMIS CITY	-	-	-	-	5,355	3,735	-	1	33	18	1,005	920	-	-	-	-	11,067
PANAON	-	-	-	-	952	1,504	-	-	-	-	81	7	-	-	-	-	2,544
PLARIDEL	-	-	-	-	2,688	2,290	-	-	-	-	633	413	-	-	-	-	6,024
SAPANG DALAGA	146	141	54	341	3,506	4,126	1	2	53	104	44	59	-	-	-	-	7,895
SINACABAN	-	-	-	-	1,417	2,591	-	-	21	114	24	7	-	-	-	-	4,174
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	146	141	54	341	35,442	42,101	16	365	438	1,163	5,626	6,092	-	-	-	-	91,242

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

AGRONOMIC REQUIREMENT OF RUBBER 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
Rubber Tree	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD,SPD	5.6 -7.2	high	none-slight	none-slight	none-few	<500	1000-2000	III, IV
	S2	8 - 30	30 - 100	FSL, L, SiL, SL	PD,VPD	4.5 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1000	2001-4500	I, II, III
	S3	>30	<30	S, LS, CSL	ED	<4.5 - > 7.9	low	severe	severe	many	>1000	<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
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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																																																																																																											
<table><tr><th>CODE</th><th>LIMITATION</th><th>CODE</th><th>LIMITATION</th><th>CODE</th><th>LIMITATION</th><th>CODE</th><th>LIMITATION</th></tr><tr><td>1</td><td>EI2</td><td>11</td><td>T2-E3-Sh2-Rc3</td><td>21</td><td>T3</td><td>31</td><td>T3-E3</td></tr><tr><td>2</td><td>T2-D2</td><td>12</td><td>T2-EI2</td><td>22</td><td>T3-E3</td><td>32</td><td>T3-E3-Sh3-Rc3</td></tr><tr><td>3</td><td>F3-D2</td><td>13</td><td>T2-EI2-E3</td><td>23</td><td>T3-E3-Sh3-Rc2</td><td>33</td><td>T3-EI2</td></tr><tr><td>4</td><td>Sh2</td><td>14</td><td>T2-EI2-E3-Sh2-Rc2</td><td>24</td><td>T3-EI2</td><td>34</td><td>T3-EI2-E3</td></tr><tr><td>5</td><td>Sh2-Rc2</td><td>15</td><td>T2-EI2-Sh2-Rc2</td><td>25</td><td>T3-EI2-E3</td><td>35</td><td>T3-EI2-E3-Sh3-Rc3</td></tr><tr><td>6</td><td>T2</td><td>16</td><td>T2-EI3</td><td>26</td><td>T3-EI2-E3-Sh3-Rc2</td><td>36</td><td>T3-EI3</td></tr><tr><td>7</td><td>T2-E2-Sh2-Rc2</td><td>17</td><td>T2-EI3-E3-Sh2-Rc2</td><td>27</td><td>T3-EI3</td><td>37</td><td>T3-EI3-E3-Sh3-Rc3</td></tr><tr><td>8</td><td>T2-E3</td><td>18</td><td>T2-EI3-Sh2-Rc2</td><td>28</td><td>T3-EI3-E3-Sh3-Rc2</td><td>38</td><td>T3-EI3</td></tr><tr><td>9</td><td>T2-E3-Rc2</td><td>19</td><td>T2-F2-D2</td><td>29</td><td>T3-F3-D2</td><td>39</td><td>T3-EI3-F3-D2</td></tr><tr><td>10</td><td>T2-E3-Sh2-Rc2</td><td>20</td><td>T2-F3-D2</td><td>30</td><td>T3</td><td></td><td></td></tr></table>	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	CODE	LIMITATION	1	EI2	11	T2-E3-Sh2-Rc3	21	T3	31	T3-E3	2	T2-D2	12	T2-EI2	22	T3-E3	32	T3-E3-Sh3-Rc3	3	F3-D2	13	T2-EI2-E3	23	T3-E3-Sh3-Rc2	33	T3-EI2	4	Sh2	14	T2-EI2-E3-Sh2-Rc2	24	T3-EI2	34	T3-EI2-E3	5	Sh2-Rc2	15	T2-EI2-Sh2-Rc2	25	T3-EI2-E3	35	T3-EI2-E3-Sh3-Rc3	6	T2	16	T2-EI3	26	T3-EI2-E3-Sh3-Rc2	36	T3-EI3	7	T2-E2-Sh2-Rc2	17	T2-EI3-E3-Sh2-Rc2	27	T3-EI3	37	T3-EI3-E3-Sh3-Rc3	8	T2-E3	18	T2-EI3-Sh2-Rc2	28	T3-EI3-E3-Sh3-Rc2	38	T3-EI3	9	T2-E3-Rc2	19	T2-F2-D2	29	T3-F3-D2	39	T3-EI3-F3-D2	10	T2-E3-Sh2-Rc2	20	T2-F3-D2	30	T3					<table><tr><th>CODE</th><th>LANDUSE</th></tr><tr><td>4</td><td>Corn</td></tr><tr><td>81</td><td>Coffee</td></tr><tr><td>82</td><td>Cacao</td></tr><tr><td>116</td><td>Coconut</td></tr><tr><td>126</td><td>Grassland</td></tr><tr><td>134</td><td>Shrubs, unmanaged</td></tr><tr><td>137</td><td>Rubber</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>	CODE	LANDUSE	4	Corn	81	Coffee	82	Cacao	116	Coconut	126	Grassland	134	Shrubs, unmanaged	137	Rubber						
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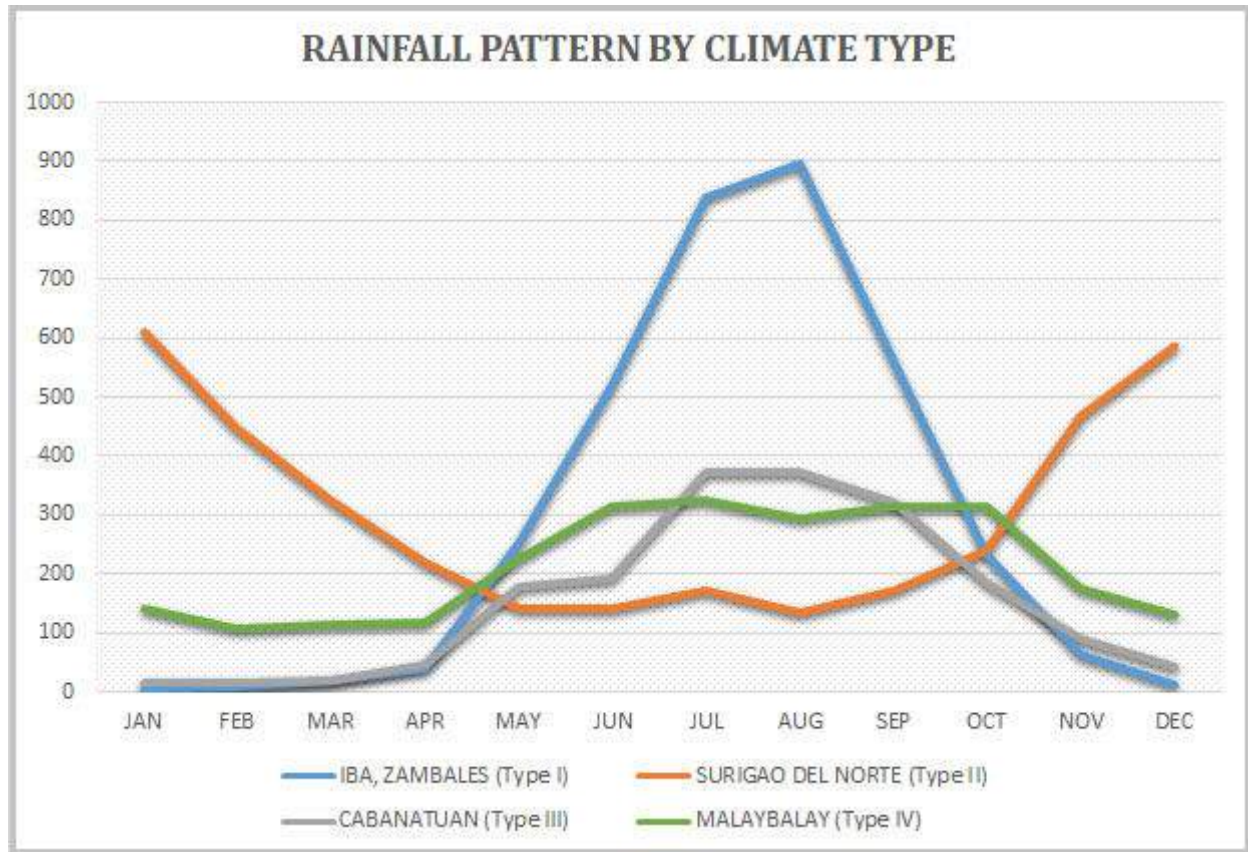
SUITABILITY CLASSES:

<div></div> 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.	<div></div> 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.
<div></div> 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.	<div></div> 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.

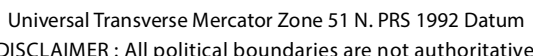
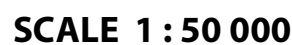
Almost whole part of Misamis Occidental classified as climatic Type III and small part in the Western side is climate Type IV.



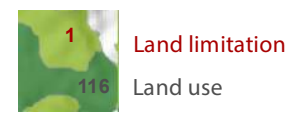
Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <<https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals>>.




















LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SUITABILITY CLASSES

☐ **Not Suitable/ Not Relevant** NGP

ROADS

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

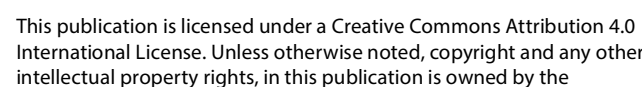
INDEX MAP

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 IRWIN. Data obtained from the Land Use System (PAQ, 2015) and Philippine Fisheries Information System (PFIS) and Data analysis and compilation from 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 (PCAP)
 Department of Agriculture and Fisheries - ANR, Department of Agriculture Regional Office (DAR) Regions I, X, XI and XIII (Caraga)
 Local Government Unit (LGU) of covered provinces and municipalities

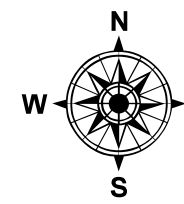
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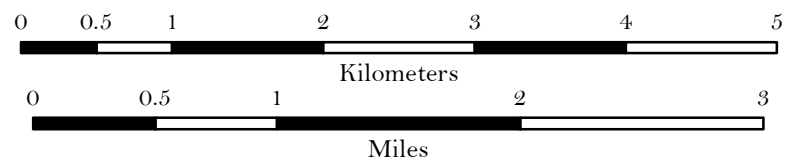
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LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS



SCALE 1 : 50 000



Universal Transverse Mercator Zone 51 N. PRS 1992 Datum
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 application to be expected 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
- 1 Land limitation
 116 Land use

CONVENTIONAL SIGNS

ROADS




-
- Expressive
Trunk line
Primary
Secondary
Tertiary

BOUNDARY

HYDROLOGY

 Sea / Shoreline
Lakes / Rivers

PLACES

- Secondary
 Municipality
 Capital City / City
-  Tertiary
  Barangay
  Capital Town / Town

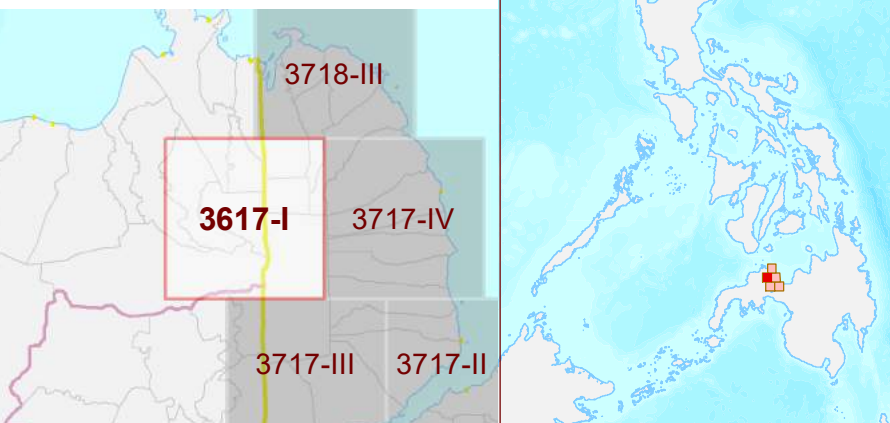
LAND USE

-  Built-up  Fishpond  Mangrove

ADJOINING SHEETS

INDEX MAP

3617-I




MISCELLANEOUS INFORMATION

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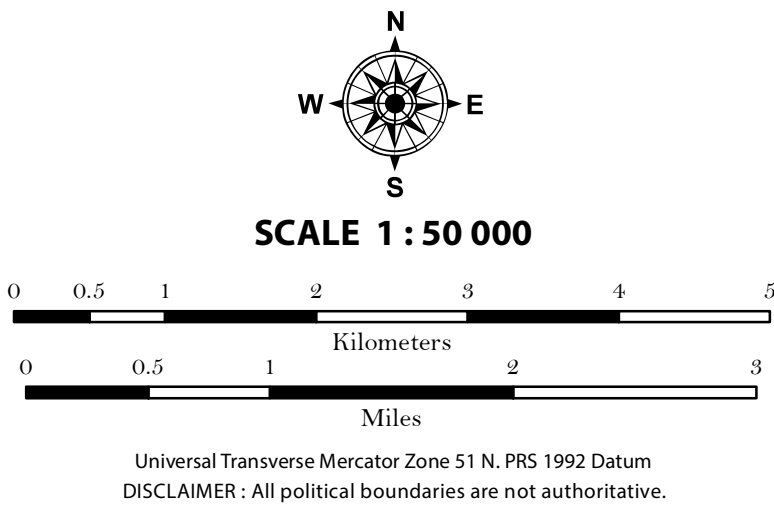
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REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF AGRICULTURE
BUREAU OF SOILS AND WATER MANAGEMENT
SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101
Tel/Fax No. : (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com



LAND SUITABILITY MAP
RUBBER

LAND RESOURCES EVALUATION AND SUITABILITY
ASSESSMENT OF STRATEGIC PRODUCTION AREAS



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

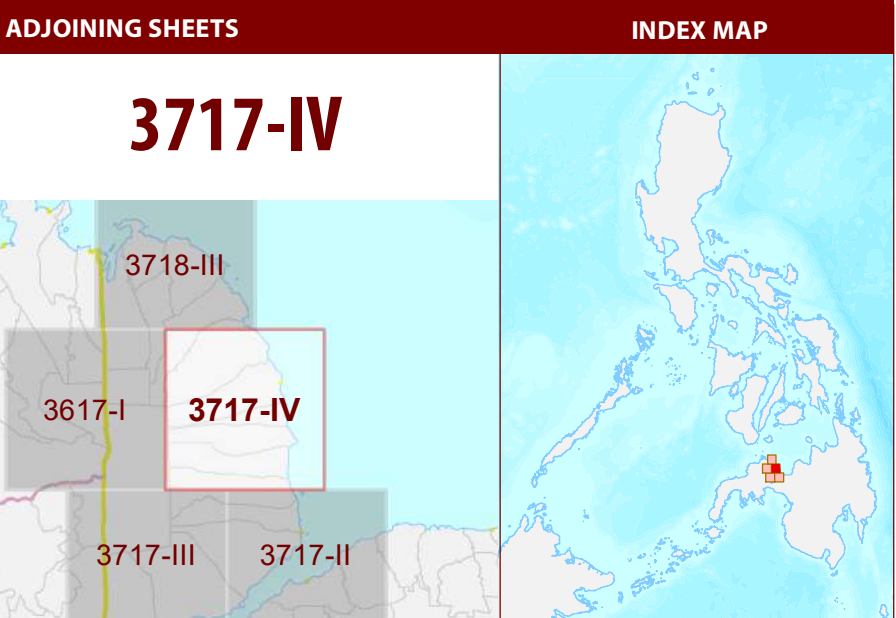
- Sea / Shoreline
- Lakes / Rivers

PLACES

- Capital City / City
- Capital Town / Town

LAND USE

- Built-up
- Fishpond
- Mangrove



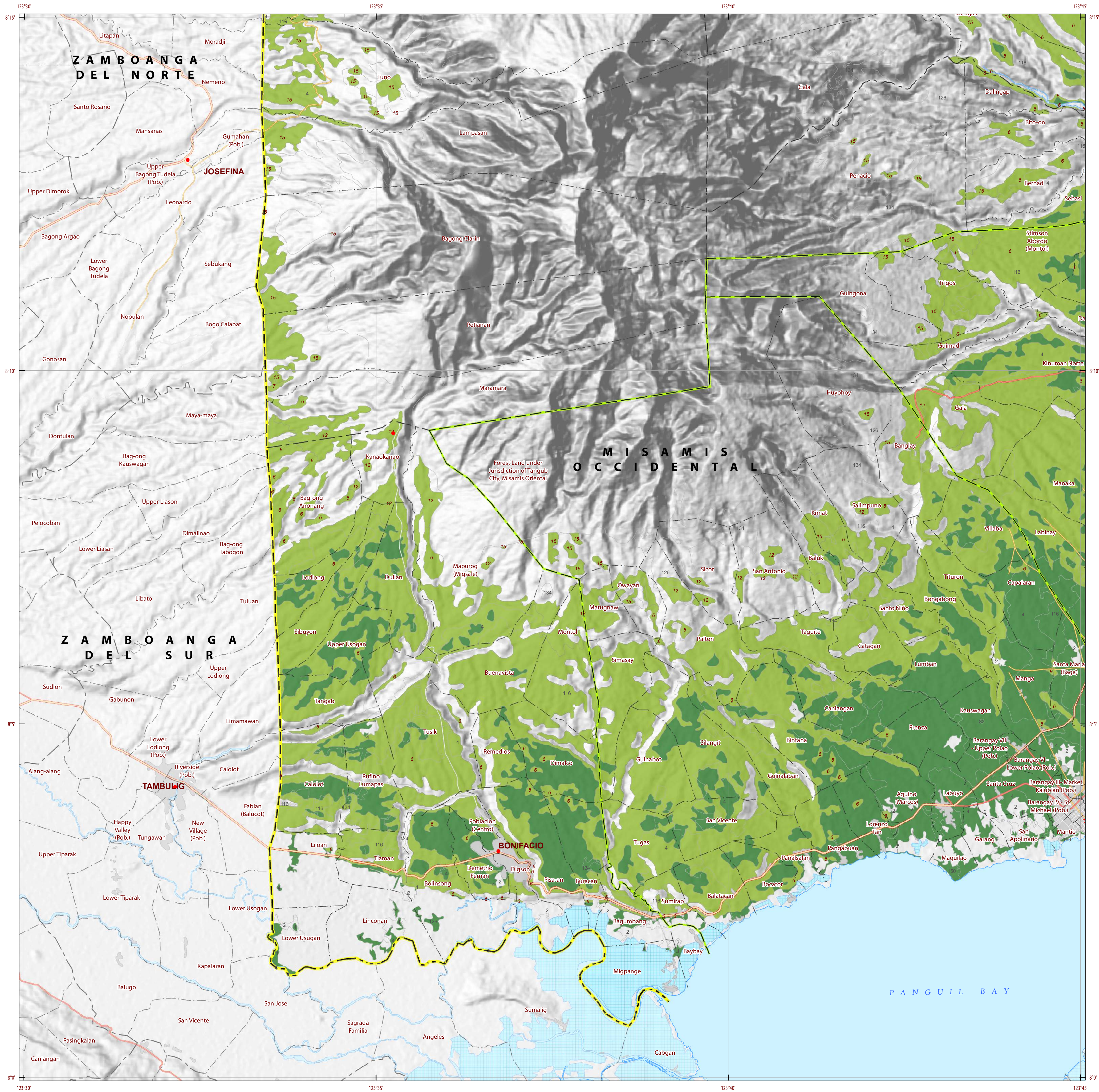
MISCELLANEOUS INFORMATION

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Project Leader : BERNARDO B. PASCUA
GIS and Cartography : IRVIN K. SAMALCA
Funding Agency : Department of Agriculture - Bureau of Agricultural Research (DA-BAR)
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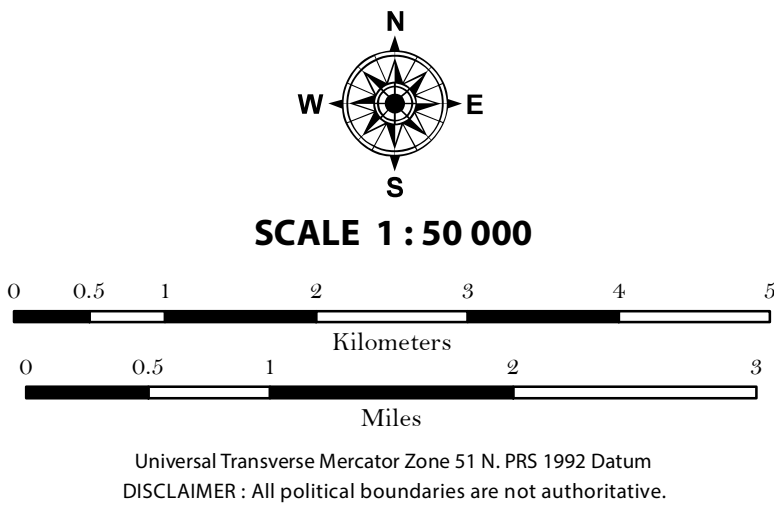
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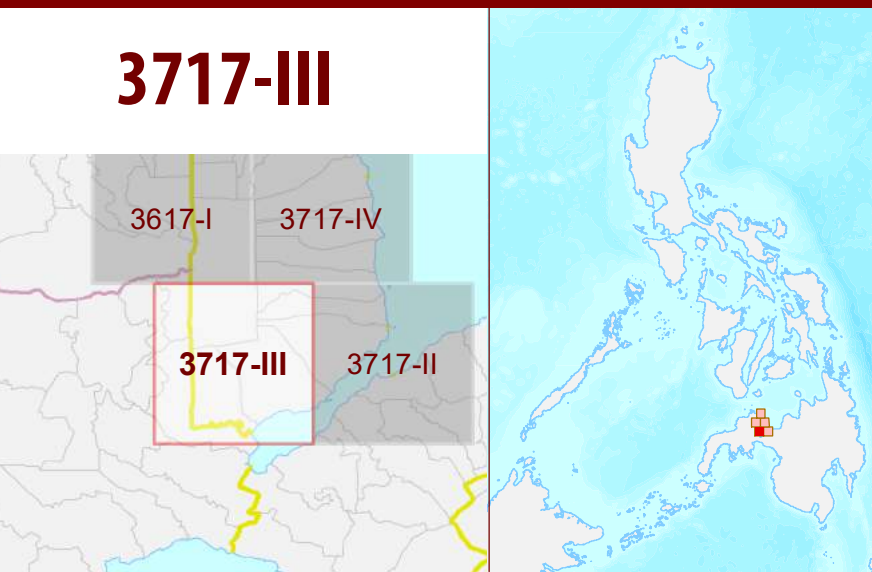
OTHER SIGNS

- NGP Areas
- Cacao
- Land limitation
- Land use

CONVENTIONAL SIGNS

- ROADS**: Expressway, Trunk line, Primary, Secondary, Tertiary
- BOUNDARY**: 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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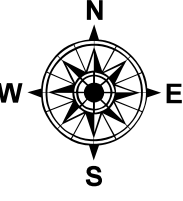
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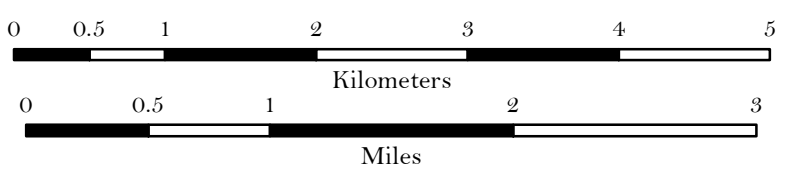


LAND SUITABILITY MAP RUBBER

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.

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BOUNDARY

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- Province
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- Municipality
- Barangay

HYDROLOGY

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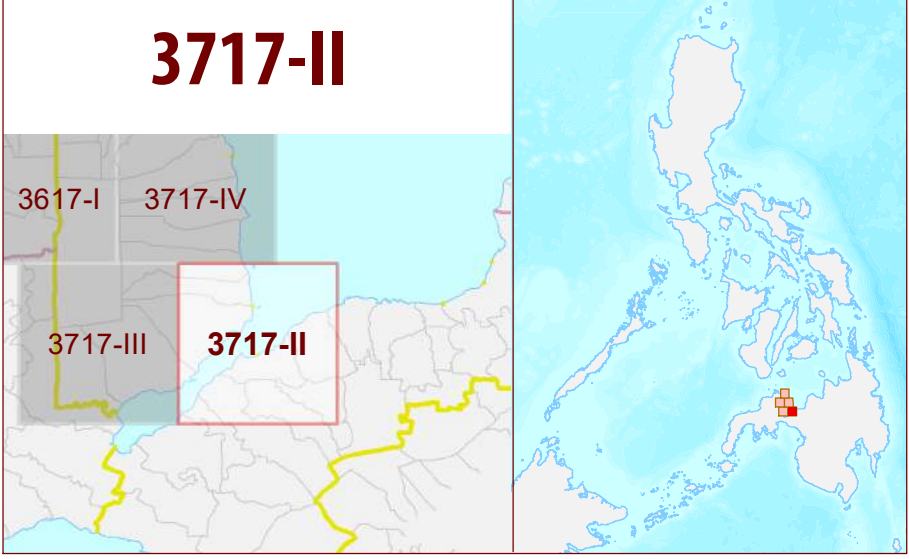
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