LAND SUITABILITY MAP

CASSAVA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

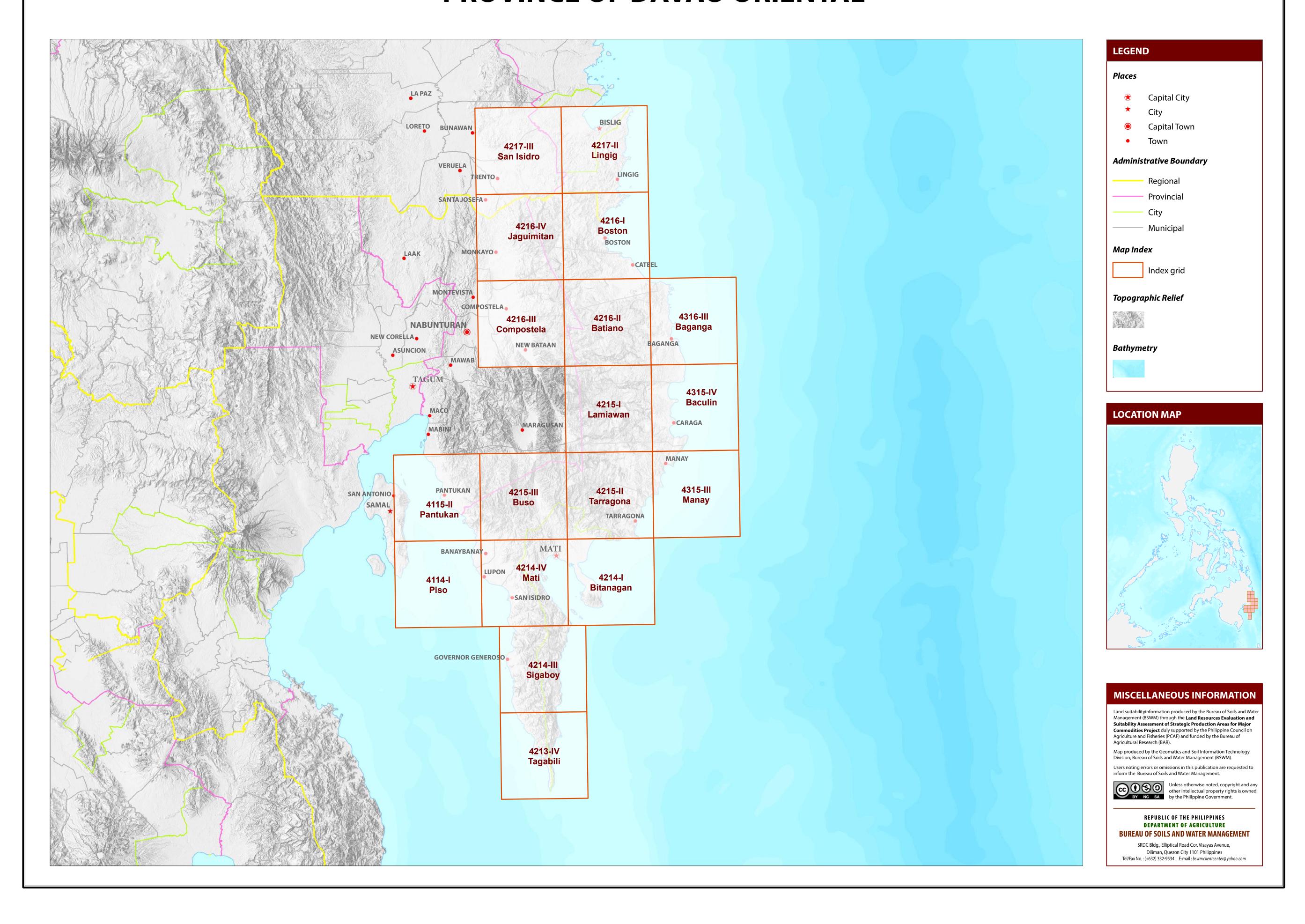
PROVINCE OF DAVAO ORIENTAL





MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF DAVAO ORIENTAL



LAND SUITABILITY MAP FOR **CASSAVA**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS DAVAO ORIENTAL, REGION XI

EXTENT OF SUITABILITY FOR CASSAVA PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (H	a)				CONFLICT	RESOLU	JTION AF	REA (Ha)		TOTAL	
MUNICIPALITY	EXISTING CASSAVA (Ha)			TOTAL EXISTING AREA (Ha)	Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Banana		Corn		Mango		Other crops		POTENTIAL EXPANSION
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
BAGANGA	-	_	-	-	617	702	2,693	8,195	8	43	1,298	3,564	59	21	-	-	4	2	17,208
BANAYBANAY	-	_	-	1	1,701	582	67	150	440	537	63	7	20	-	3	-	1	-	3,572
BOSTON	-	_	-	1	334	788	233	1,838	58	187	-	-	34	38	-	-	-	-	3,512
CARAGA	-	_	-	1	929	1,706	4	352	25	651	-	-	-	-	-	-	-	-	3,668
CATEEL	_	_	-	-	1,602	419	1,010	7,387	97	544	575	779	276	100	-	-	-	-	12,790
CITY OF MATI	_	_	-	-	6,616	5,741	182	361	262	285	171	225	143	374	347	439	1,356	1,512	18,014
GOVERNOR GENEROSO	-	_	-	-	2,335	1,174	250	422	462	268	318	231	11	9	1	-	-	-	5,481
LUPON	_	_	-	-	3,129	1,086	198	1,152	6	206	3,366	1,214	176	8	-	9	-	13	10,564
MANAY	_	_	-	-	957	5,780	4	48	700	2,988	-	-	-	-	-	-	-	-	10,477
SAN ISIDRO					2,433	1,399	-	_	94	368	257	83	82	13	234	39	_	4	5,009
TARRAGONA	2	4	4	9	66	239	-	11	4	702	14	48	14	167	2	15	_	1	1,282
TOTAL	2	4	. 4	9	20.720	19.619	4.642	19.917	2.156	6.781	6.063	6.151	816	730	587	503	1.361	1.533	91.576

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

*establishment of shade trees prior to planting of cassava.

- deep to very deep

AGRONOMIC REQUIREMENT OF CASSAVA PRODUCTION

<500 1000-200	0 I,II, III, IV
500-1500 2001-450	0 II
>1500	
Fine	
SC	- sandy clay
SiC	- silty clay
oam C	- clay
НС	- heavy clay
m	
ı	
r	>1500

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

> 30% - many

ELEVATION El2 - 500 - 1000m or 2000 - 2500m El3 - < 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 EROSIONE2 - Moderate erosionE3 - 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	CODE	LIMITATION	CODE	LIMITATION
1	El2	11	T2-E2	21	T2-El3-Sh2-Rc3	31	T3-E3-Sh3-Rc2	41	T3-El3-E3-Rc3	51	T3-E3-Sh3-Rc3
2	El2-E2-Rc3	12	T2-E2-Sh2-Rc2	22	T2-F2-D2	32	T3-E3-Sh3-Rc3	42	T3-El3-E3-Sh2-Rc2	<i>52</i>	T3-E12
3	El2-E2-Sh2-Rc3	13	T2-El2	23	T2-F3-D2	33	T3-E12	43	T3-El3-E3-Sh2-Rc3	53	T3-E12-E3
4	El2-Sh2-Rc2	14	T2-El2-E3-Rc3	24	T2-Rc2	34	T3-E12-E3	44	T3-El3-E3-Sh3-Rc2	54	T3-E12-E3-Rc3
5	F2-D2	15	T2-El2-E3-Sh2-Rc3	<i>25</i>	T3	35	T3-E12-E3-Rc2	45	T3-El3-E3-Sh3-Rc3	55	T3-E12-E3-Sh3-Rc3
6	F3-D2	16	T2-El2-Rc2	26	T3-E3	36	T3-El2-E3-Rc3	46	T3-F2-D2	56	T3-El3-E3-Sh3-Rc3
7	Rc2	17	T2-El2-Sh2-Rc2	27	T3-E3-Rc2	37	T3-El2-E3-Sh2-Rc2	47	T3-F3-D2	<i>57</i>	T3-F2-D2
8	Sh2	18	T2-El2-Sh2-Rc3	28	T3-E3-Rc3	38	T3-El2-E3-Sh2-Rc3	48	Т3	58	T3-F3-D2
9	Sh2-Rc2	19	T2-El3-E3-Sh2-Rc3	29	T3-E3-Sh2-Rc2	39	T3-El2-E3-Sh3-Rc2	49	T3-E3	59	T3-El4
10	T2	20	T2-El3-Sh2-Rc2	30	T3-E3-Sh2-Rc3	40	T3-El2-E3-Sh3-Rc3	<i>50</i>	T3-E3-Rc3	60	Tc

CODE	LANDUSE	CODE	LANDUSE
4	Corn	107	Abaca
47	Vegetable	116	Coconut
50	Rootcrops	126	Grassland
51	Cassava	134	Shrubs, unmanaged
81	Coffee	137	Rubber
82	Cacao		
85	Mango		
90	Pomelo		
91	Banana		
105	Fruit trees, mixed		

- sandy clay loam

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.

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.

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

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

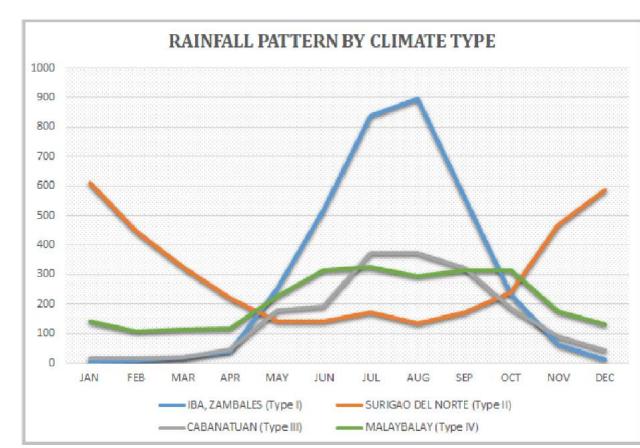
wet during the rest of the year. Maximum rain period is from June to September

TYPE I: Two pronouced season, dry from November to April and **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.

Davao Oriental is classified as climatic 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>.

