

PROVINCE OF ZAMBOANGA DEL NORTE

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

LAND SUITABILITY MAP

ARABICA COFFEE

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF ZAMBOANGA DEL NORTE



MAP INDEX

LEGEN	D
Places	
€ ★ ●	Capital City City Capital Town Town
Adminis	strative Boundary
Map Ind	 Regional Provincial City Municipal Index grid aphic Relief
LOCAT	ION MAP



LAND SUITABILITY MAP FOR **ARABICA COFFEE**

EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY

						EX	PANSION	AREA (H	a)			CONFLIC	T RESOL	UTION AI	REA (Ha)		TOTAL
MUNICIPALITY	EXISTI	NG COFFE	EE (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrut unmar	oland, 1aged*		sland, naged*	Co	orn	Paddy non-ir		Other	crops	POTENTIAL EXPANSION
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
BACUNGAN	-	16	62	78	-	31	-	6	-	28	-	-	-	-	-	-	65
BALIGUIAN	-	5	38	43	-	167	-	4	-	468	-	-	-	-	-	-	640
DAPITAN CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DIPOLOG CITY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
GODOD	-	50	30	80	-	-	-	14	-	58	-	30	-	-	-	-	101
GUTALAC	-	31	35	66	-	201	-	57	-	81	-	-	-	-	-	-	340
JOSE DALMAN	-	2	6	8	-	-	-	-	-	-	-	-	-	-	-	-	_
KALAWIT	-	57	13	70	-	-	-	-	-	18	-	-	-	-	-	-	18
KATIPUNAN	-	-	22	22	-	-	-	-	-	-	-	-	-	-	-	-	-
LA LIBERTAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LABASON	-	4	2	6	-	1	-	-	-	45	-	-	-	-	-	-	46
LILOY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MANUKAN	-	3	31	34	-	-	-	-	-	-	-	-	-	-	-	-	-
MUTIA	-	1	1	2	-	334	-	209	-	748	-	12	-	-	-	-	1,302
PIÑAN	-	-	-	-	-	341	-	-	-	61	-	-	-	-	-	-	402
POLANCO	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
PRES. MANUEL A. ROXAS	-	-	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-
RIZAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SALUG	-	16	3	19	-	-	-	-	-	-	-	-	-	-	-	-	-
SERGIO OSMEÑA SR.	-	1	8	9	-	344	-	159	-	176	-	127	-	-	-	-	806
SIAYAN	-	20	85	105	-	-	-	7	-	49	-	-	-	-	-	-	56
SIBUCO	-	-	-	-	-	-	-	65	-	77	-	-	-	-	-	-	142
SIBUTAD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SINDANGAN	-	22	81	103	-	-	-	-	-	2	-	-	-	-	-	-	2
SIOCON	-	36	42	78	-	65	-	9	-	14	-	-	-	-	-	-	88
SIRAWAI	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-	-
TAMPILISAN	-	14	4	18	-	-	-	_	-	_	-	-	-	-	-	-	-
TOTAL	-	278	487	766	-	1,482	-	532	-	1,825	-	168	-	-	-	-	4,008

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

20 T2-El2-Sh2-Rc2

30 T2-El3-F3-D2

10 El3-Sh2-Rc2

LAND UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%) SOIL DEP (cm)	ГН	SOIL TEXTURE	SOIL DRAINA	GE	SOIL REACTION (pH)	INHE FERT	RENT	FLOODING CLASS		ROSION CLASS		ROCK TCROPS		VATION masl)	ANNUA RAINFA (mm)		CLIMATI TYPE
	S1	<8	>100		CL, SiCL, SCL, SC, SiC, C, HC	WD,MW	D	5.6 -7.2	hi	igh	none-slight	: no	one-slight	nc	one-few	100	00-2000	2001-45	500	I, III, IV
Coffee (Arabica)	S2	8 - 30	30 - 10)	FSL, L, SiL	SPD,PD)	5.1 - 5.5 7.3 - 7.8	mec	dium	moderate	n	noderate	C	ommon		0-1000 00-2500	1000-20	000	I, II
	S3	>30	<30		S, LS, CSL, SL	VPD,ED)	<5.0 - > 7.9	lo	w	severe		severe		many		<500 >2500	<1000 >4500		
SLOPE (%)			SOIL DR	AINA	GE		S	OIL REACTIO	DN (pH)			S	OIL TEXT	URE						
- 3 - lev	el to gently sloping	5	ED	- ex	cessively drained		<	4.5 - ex	tremely a	cid		C	oarse					Fine		
	ntly sloping to und		WD	- W	ell drained		4	.5 - 5.0 - ve	ery strong	ly acid		S		- sand				SC	- sano	ly clay
-	dulating to rolling	U	MWD	- m	oderately well draine	d			rongly aci	-		LS	5	- loamy s	and			SiC	- silty	
	ling to moderately	steep	SPD		mewhat poorly drain		5		edium acio			CS		-	sandy loam			С	- clay	-
30 - 50 - ste	ep	-	PD	- po	oorly drained		6	.1 - 6.5 - sl	ightly acid	l		SI	L	- sandy l	oam			HC	-	vy clay
- 50 - ver	ry steep		VPD	-	ery poorly drained		6		eutral			Μ	ledium	5						
							7	.3 - 7.8 - m	ildly alkali	ine		FS	SL	- fine sar	ıdy loam					
SOIL DEPTH (c	cm)		SURFAC	E IMF	PEDIMENT		7		oderately			L		- loam	5					
-	ry shallow		ROCK OL						rongly alk			Si		- silt loar	n					
	allow		< 10%		one - few		-	0.0 50	i oligiy ulit	anne		Cl		- clay loa						
	derately deep		10 - 30%		ommon									- silty cla						
	ep to very deep		> 30%		any							S		-	lay loam					
	MITATION	S DESC			O COMBINAT	TIONS														
LEVATION			SOIL D						SOIL DEP			(0.0	400)		LEROSION					
	00m or 2000 - 250	0m			what poorly drained						noderately de		100cm)	E2	- Modera					
l3 - < 500m	or > 2500m		D3 -	Very	poorly drained or exc	essively dra	ained	:	sh3 - Ve	ery shallov	v (< 30cm)			E3	- Severe e	erosio	n			
LOPE/TOPOG			SOIL TI						ROCK OU					FLO	ODING					
2 - Undulat	ing to moderately	steep	Tc -	Coars	e texture				Rc2 - Co					F2	- Modera					
3 - Steep to	very steep]	Rc3 - Ma	any				F3	- Severe s	season	al floodin	ıg		
CODE LIM	IITATION CO	DE L	MITATION	CODE		CODE	T IN	IITATION	CODE	LIMI	TATION	CODE	LIMI	TATION		CODE		LANDUSE		
$\frac{1}{1}$ El2		1 El3-T		21	T2-El2-Sh2-Rc3	31	T2-Sh2			T3-El3		51	T3-El2-E			4	Corn			
2 El2-E2-		2 T2-E		21	T2-El2-Sll2-RC5	31	T2-Sh2		41	T3-EI3-E3	2	52	T3-E12-E		·2	4 81	Coffee			
3 El2-E2-S			-Sh2-Rc2	22	T2-EI3-E2-Sh2-Rc2	33	T3-E3	-ncJ		T3-El3-E3		53	T3-E12-E	3-3113-K		82	Cacao			
4 El2-E2-3			-Sh2-Rc3	23	T2-EI3-E3	33		Sh3-Rc2	43		3-Sh2-Rc3	54	T3-E13 T3-E13-E	3		82 115	Mixed cr	ons		
5 El2-Sh2		5 T2-E		24	T2-El3-E3-Rc2	25		Sh3-Rc3			3-Sh3-Rc2	55	T3-E13-E			115	Coconut	opa		
6 El3		6 T2-E		25	T2-El3-E3-Rc3	36	T3-E12	JIIJ-INCJ			3-Sh3-Rc3	56	T3-E13-E				Grassland	d		
			2-E3-Rc3	27	T2-El3-E3-Sh2-Rc2		T3-E12	F3	47	T3-El3-E3			T3-E13-E			134		u Inmanaged		
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7 EI3-F2-I 8 EI3-F3-I 9 EI3-Sh2	D2	8 T2-E	2-E3-Sh2-Rc2 2-E3-Sh2-Rc3	28 29	T2-El3-E3-Sh2-Rc3 T2-El3-F2-D2		T3-El2-	E3-Sh2-Rc3 E3-Sh3-Rc2	48 49	T3-El3-F3 T3-E3-Sh	3-D2	58	T3-El3			137	Rubber			

40 T3-El2-E3-Sh3-Rc3 50 T3-El2

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS ZAMBOANGA DEL NORTE, REGION IX

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.

CLIMATE TYPE

- **TYPE I** : Two pronouced season, dry from November to April and **TYPE II** : No dry season with a very pronounced maximum rain wet during the rest of the year. Maximum rain period is from June to September
- **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.

Northeastern part of Zamboaga Del Norte is classified as climatic Type IV and Northwestern part is Type III.



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.

period from December to February. There is not a single dry month. Maximum monthly rainfall occurs during the period from March to May.

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



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NTIONAL SIGNS	BOUNDARY	HYDRO	DLOGY	
 Expressway Trunk line Primary Secondary Tertiary 	 Region Province District Municipal Barangay 		Sea / Shore Lakes / Rive S Capital City / Capital Town /	ers City
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NTIONAL SIGNS	
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Built-up	Mangrove
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-III 3618-II 3718-III 3617-IV 3617-I	
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SIGNS NGP Areas Cacao Land limitation Land use
BOUNDARY HYDROLOGY Expressway Region Trunk line Province Primary District Secondary Municipality Tertiary Searangay Built-up Fishpond
ING SHEETS INDEX MAP
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SIGNS NGP Areas Cacao
BOUNDARY HYDROLOGY Expressway Region
Expressway Inegron Trunk line Province Primary District PLACES Secondary Municipality * Capital City / City Tertiary Barangay • Capital Town / Town VSE Built-up Fishpond Mangrove
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