ROBUSTA, LIBERICA AND EXCELSA COFFEE

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

PROVINCE OF BASILAN



LAND SUITABILITY MAP

MAP INDEX LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **PROVINCE OF BASILAN** ZAMBOANGA 3314-IV Teinga 3414-I 3414-IV Island **Mercedes** Zamboanga City 3214-I Dassalan 0 Island ISABELA AKBAR HADJI LAMITAN MUHTAMAD HADJI MOHAMMAD 3414-II AJUL Mount LANTAWAN 3414-III Matanal 3314-II **3314-III** Lamitan Pangahasan Maluso TUBURAN MALUSO TIPO-TIPO AL BARKA SUMISII UNGKAYAPUKAN 3313-I Tipiantana 3413-IV Island Amoyloi Agricultural Research (BAR). Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com





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LAND SUITABILITY MAP FOR **ROBUSTA, LIBERICA AND EXCELSA COFFEE**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **PROVINCE OF BASILAN, ARMM**

EXTENT OF SUITABILITY FOR ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION BY MUNICIPALITY

						EXPANSION AREA (Ha)			CONFLICT RESOLUTION (Ha)					TOTAL			
MUNICIPALITY	EXISTIN	IG COFFEI	E (Ha)	TOTAL EXISTING AREA (Ha)	Сосс	onut	Shrub unman	-	Grassla unmana	-	Со	rn	Paddy non-irr		Other	crops	POTENTIAL EXPANSION
	S1	S2	S 3		S1	S2	S1	S 2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
AKBAR	-	-	-	-	1,083	1,272	-	-	9	10	-	-	-	-	-	-	2,374
AL-BARKA	-	-	-	-	582	2,733	-	-	5	-	-	-	-	-	-	-	3,320
CITY OF LAMITAN	-	-	-	-	9,290	6,902	21	52	82	-	-	-	-	-	-	-	16,348
HADJI MOHAMMAD AJUL	-	-	-	-	2,364	1,791	-	-	124	33	-	-	-	-	-	-	4,311
HADJI MUHTAMAD	-	-	-	-	-	13	-	-	-	409	-	-	-	-	-	-	422
LANTAWAN	-	-	-	-	8,572	1,900	6	-	32	-	-	-	-	-	-	-	10,511
MALUSO	-	-	-	-	4,669	597	5	-	67	-	-	-	-	-	-	-	5,337
SUMISIP	-	-	-	-	4,552	8,475	7	15	-	-	-	-	-	-	-	-	13,049
TABUAN-LASA	-	-	-	-	51	-	-	-	267	5	-	-	-	-	-	-	323
TIPO-TIPO	-	-	-	-	1,467	2,278	-	-	-	-	-	-	-	-	-	-	3,744
TUBURAN	-	-	-	-	1,921	1,151	-	-	-	-	-	-	-	-	-	-	3,073
UNGKAYA PUKAN	-	-	-	-	384	3,947	-	-	-	-	-	-	-	-	-	-	4,331
Total Area (Ha)	-	-	-	-	34,935	31,059	39	68	586	456	-	-	-	-	-	-	67,143

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

9 T2-E3-Sh2-Rc2 **10** T2-E3-Sh2-Rc3

AGRONOMIC REOLUREMENT OF ROBUSTA, LIBERICA AND EXCELSA COFFEE PRODUCTION

S1 S2 S3 to gently sloping y sloping to undu lating to rolling ng to moderately	<8 8 - 30 >30	>100 30 - 100 <30	CL, SiCL, SCL, SC, SiC, C, HC FSL, L, SiL S, LS, CSL, SL	WD,MWD SPD,PD	(pH) 5.6 -7.2 5.1 - 5.5	high					(mm)	1
S3 to gently sloping y sloping to undu lating to rolling	>30	<30		SPD,PD	51-55		none-slight	none-slight	none-few	<1000	2001-4500	I, III, IV
to gently sloping y sloping to undu lating to rolling			S, LS, CSL, SL		7.3 - 7.8	medium	moderate	moderate	common	1000-2000	1000-2000	I, II
y sloping to undu lating to rolling	5			VPD,ED	<5.0 -> 7.9	low	severe	severe	many	>2000	<1000 >4500	
y sloping to undu lating to rolling	5	SOIL DRAINA ED - e	AGE excessively drained		SOIL REACTIO < 4.5 - ext	N (pH) tremely acid		SOIL TEXTU Coarse	IRE		Fine	
steep) shallow ow erately deep to very deep	_	MWD - r SPD - s PD - p VPD - v SURFACE IM ROCK OUTCR < 10% - r 10 - 30% - c	OPS none - few common		5.1 - 5.5 - str 5.6 - 6.0 - max 6.1 - 6.5 - slip 6.6 - 7.2 - max 7.3 - 7.8 - max 7.9 - 8.4 - max	-		LS - CSL - SL - Medium - FSL - L - SiL - SiL - SiCL -	silt loam clay loam silty clay loam	1	SiC - sil C - cl	ndy clay lty clay ay eavy clay
ITATIONS	S DESCRII	SOIL DRAIN D2 - Some	I AGE ewhat poorly drained	to poorly draine	d S	h2 - Shallow to	• •	(30 - 100cm)	E2 - Modera	ate erosion		
APHY		SOIL TEXTU	JRE		F	ROCK OUTCROPS	;		FLOODING			
g to moderately s ery steep	steep	Tc - Coar	rse texture								•	
TATION 0 c2 0 c3 0	11 T2-F3-D 12 T3-E3 13 T3-E3-SI 14 T3-E3-SI 15 T3-F3-D 16 T3-E3	2 n3-Rc2 n3-Rc3 2	2 116 126 134	Paddy rice, nor Coconut Grassland Shrubs, unman	n-irrigated							
	hallow wrately deep to very deep TATION 000m PHY to moderately s ry steep	hallow wrately deep to very deep OOM PHY to moderately steep ry steep ry steep MATION CODE LIM 2 11 T2-F3-D 3 12 T3-E3 13 T3-E3-SI 13 T3-E3-SI 14 T3-E3-SI 15 T3-F3-D 16 T3-E3 18 T3-F3-D	hallowROCK OUTCRw $< 10\%$ - rrately deep $10 - 30\%$ - cto very deep $> 30\%$ - rTATIONS DESCRIPTION ANDSOIL DRAIN00mD2- SomD3- VeryPHYSOIL TEXTUto moderately steepTc- Coarry steepTc- Coar211T2-F3-D2312T3-E313T3-E3-Sh3-Rc214T3-E3-Sh3-Rc315T3-F3-D216T3-E317T3-E3-Sh3-Rc318T3-F3-D2	hallowROCK OUTCROPSw< 10%	hallow ROCK OUTCROPS w $< 10\%$ - none - few rately deep $10 - 30\%$ - common 	hallowROCK OUTCROPS> 8.5- strw< 10%	hallow ROCK OUTCROPS >8.5 - strongly alkaline w $< 10\%$ - none - few rately deep 10 - 30\% - common o very deep 30% - many TATIONS DESCRIPTION AND COMBINATIONS DIL DRAINAGE SOIL DEPTH 00m D2 - Somewhat poorly drained to poorly drained Sh2 - Shallow to D3 - Very poorly drained or excessively drained Sh3 - Very shall PHY SOIL TEXTURE ROCK OUTCROPS to moderately steep Tc - Coarse texture Rc2 - Common ry steep Tc - Coarse texture Rc3 - Many $\frac{rATION CODE ILIMITATION}{3 - 12 - T3 - F3 - D2}$ $\frac{10}{13} - T3 - F3 - Sh3 - Rc3 - 134 - 126 - 134 - 137 - 126 - 134 - 137 - 1$	hallow ROCK OUTCROPS >8.5 - strongly alkaline w < 10% - none - few rately deep 10 - 30% - common o very deep 30% - many TATIONS DESCRIPTION AND COMBINATIONS SOIL DEAINAGE SOIL DEPTH D2 - Somewhat poorly drained to poorly drained Sh_2 - Shallow to moderately deep D3 - Very poorly drained or excessively drained Sh_3 - Very shallow (< 30cm) PHY SOIL TEXTURE ROCK OUTCROPS to moderately steep Tc - Coarse texture Rc2 - Common ry steep Tc - Coarse texture Rc3 - Many 2 11 T2 - F3 - D2 - 116 Coconut 126 Coconut 126 Coconut 126 Coconut 126 Coconut 126 Coconut 126 Crassland 13 T3 - F3 - Sh3 - Rc2 - 116 Coconut 126 Crassland 13 Sh - Sh3 - Rc3 - Many	hallow ROCK OUTCROPS > 8.5 - strongly alkaline SIL - w < 10%	hallow ROCK OUTCROPS >8.5 - strongly alkaline SiL - silt loam w < 10%	hallow ROCK OUTCROPS > 8.5 - strongly alkaline SiL - slit loam w < 10%	hallow ROCK OUTCROPS > 6.5 - strongly alkaline SL - silt oam w < 10% - none - few 0 oldy loam SGL - salty day loam SGL - sandy day loam SGL - san

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.

The whole part of Basilan is classified as climate Type IV.



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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0.5 1 2 Kilometer 0.5 1 Miles Universal Transverse Mercator Zon DISCLAIMER : All political boundar	2 3 e 51 N. PRS 1992 Datum
D ILITY CLASSES Highly Suitable - Land having no s	ignificant limitations to sustained
 cantly reduce productivity or benefian acceptable level. Moderately Suitable - Land having moderately severe for sustained ap will reduce productivity or benefits extent that the overall advantage to attractive, will be appreciably inferi Marginally Suitable - Land having severe for sustained application of a tivity or benefits, or increase require only marginally justified. Not Suitable/ Not Relevant 	g limitations which in aggregate are plication of a given use; the limitations and increase required inputs to the o be gained from the use, although still or to that expected on class S1 land. limitations which in aggregate are a given use and will so reduce produc- ed inputs, that this expenditure will be
Cacao	mitation se
NTIONAL SIGNS BOUNDARY Expressway Trunk line Primary Secondary Tertiary Barangay USE	PLACES ality 😤 ★ Capital City / City
Built-up Fishpond	Mangrove INDEX MAP
3413-IV -1 3414-III 3414-II 3413-IV	
LANEOUS INFORMATION OF INFORMATION : Topographic informat 0 scale. Land resources information from the n Division (ALMED), Soils Survey Division (SS Rice areas obtained from the Land Use Syste on System (PRISM) (IRRI, 2015). Data analysis is Evaluation and Suitability Assessment of lities Project implemented by BSWM (2017) eader : BERNARDO B. PASCUA fartography : IRVIN K. SAMALCA Agency : Department of Agricultur ting Agencies : Philippine Council on Agri	e Agricultural Land Management and 5D) and Laboratory Services Division (LSD) em (FAO, 2015) and Philippine Rice s and compilation through the Land of Strategic Production Areas for Major b. e - Bureau of Agricultural Research (DA-BAR)
: Department of Agricultur Agriculture Regional Field	e and Fisheries - ARMM, Department of I Office of Region IX, X, XI, XII and XIII (Caraga) GU) of covered provinces and municipalities n Technology Division, Bureau of Soils and
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DEPARTMENT OF AC REAU OF SOILS AND WA SRDC Bldg., Elliptical Road Cor. Visayas Aven Tel/Fax No.: (+632) 332-9534 E-mail: bsi	SRICULTURE TER MANAGEMENT ue, Diliman, Quezon City 1101 wmclientcenter@yahoo.com
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