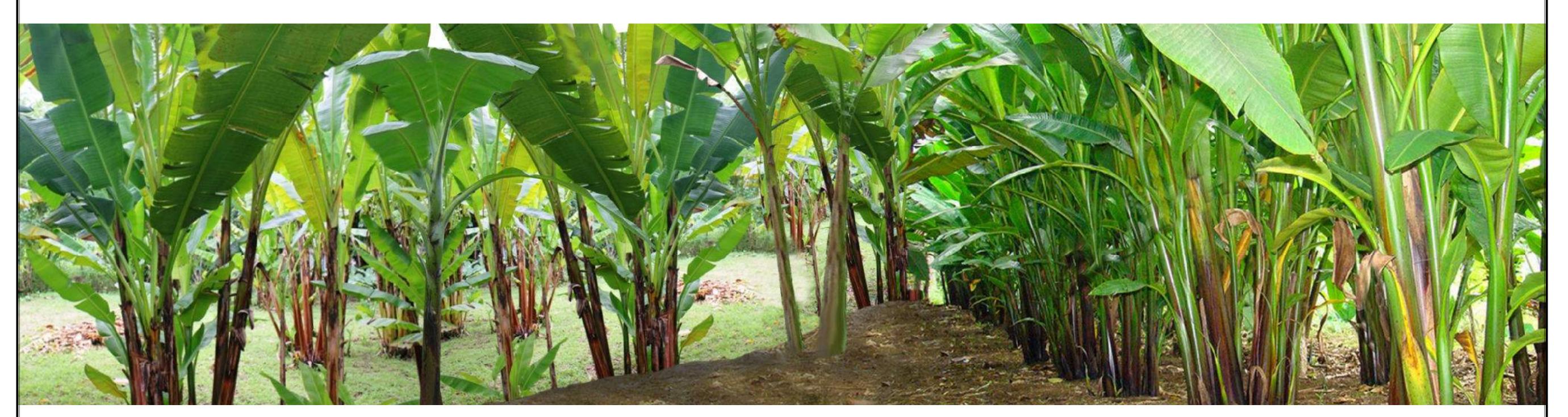
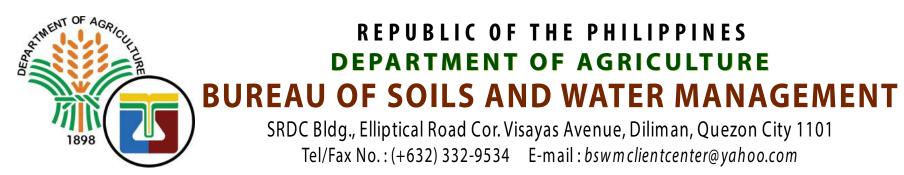
LAND SUITABILITY MAP

ABACA

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS

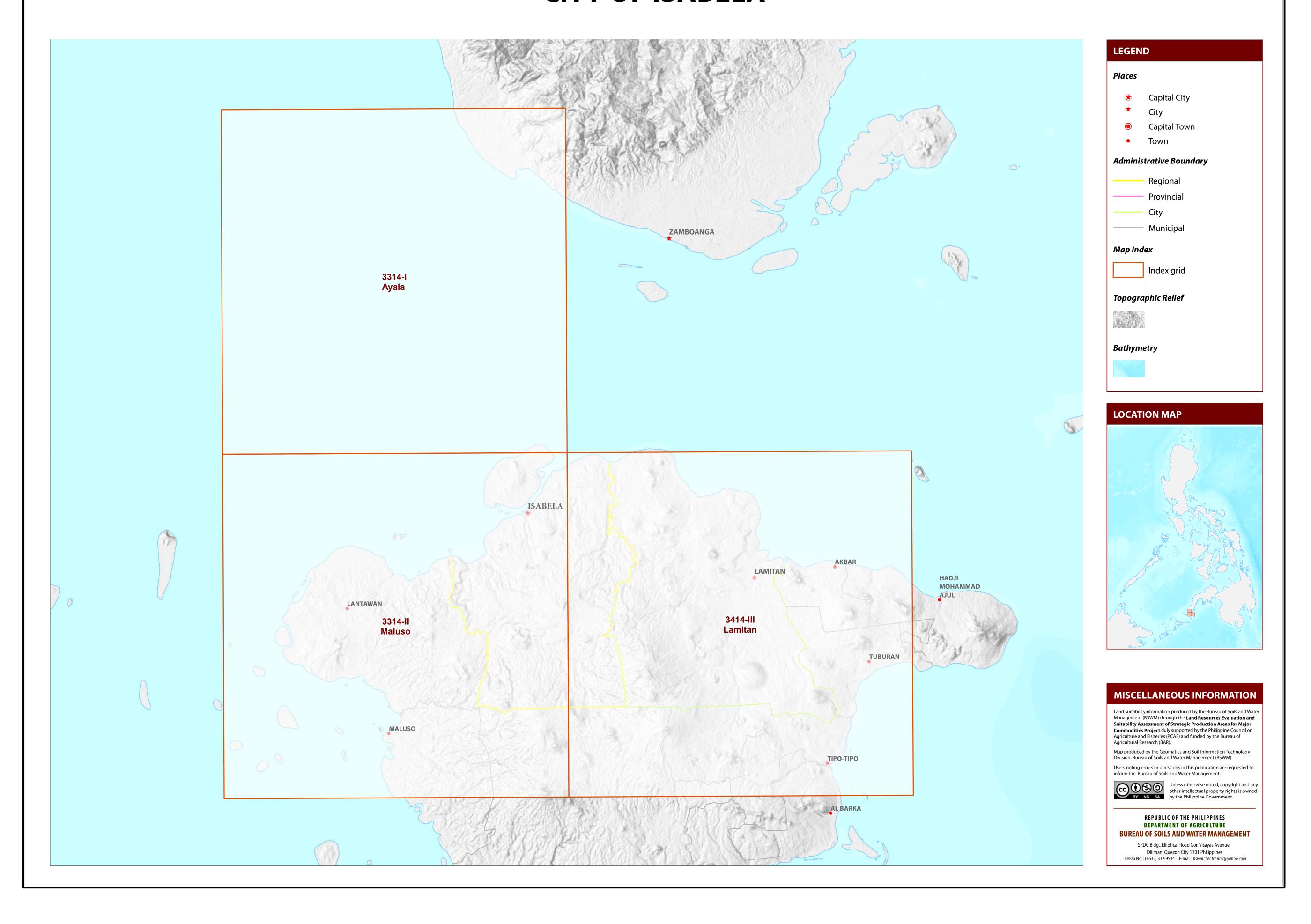
CITY OF ISABELA





MAP INDEX

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS CITY OF ISABELA



LAND SUITABILITY MAP FOR **ABACA**

LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS CITY OF ISABELA, REGION IX

EXTENT OF SUITABILITY FOR ABACA PRODUCTION BY MUNICIPALITY

	EXISTING ABACA (Ha)		TOTAL EXISTING AREA (Ha)	EXPANSION AREA (Ha)					CONFLICT RESOLUTION AREA (Ha)				TOTAL				
MUNICIPALITY				Coconut		Shrubland, unmanaged*		Grassland, unmanaged*		Corn		Paddy rice, non-irrigated		Other crops		POTENTIAL EXPANSION	
	S1	S2	S 3		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	AREA (Ha)
CITY OF ISABELA	-	_	_	-	2,885	9,501	1	218	-	-	-	-	_	-	-	-	12,604
TOTAL	-	_	-	-	2,885	9,501	1	218	-	-	-	-	_	-	_	-	12,604

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

*establishment of shade trees prior to planting of abaca.

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

	S3	>30	< 30	S, LS, CSL	ED	<5.0 - > 7.9	low	severe	severe	many	>1500	>450	
SLOPE (%	%)		SOIL DRAI	NAGE		SOIL REACT	TION (pH)		SOIL TEXT	ΓURE			
0 - 3	- level to gently slopin	ng	ED	- excessively drained		< 4.5	extremely acid		Coarse			Fine	
3 - 8	- gently sloping to und	dulating	WD	- well drained		4.5 - 5.0 - v	very strongly acid		S	- sand		SC	- sandy clay
8 - 18	- undulating to rolling	5	MWD	- moderately well drained		5.1 - 5.5 - 9	strongly acid		LS	- loamy sand		SiC	- silty clay
18 - 30	- rolling to moderately	y steep	SPD	- somewhat poorly drained		5.6 - 6.0 - 1	medium acid		CSL	- coarse sandy loam		С	- clay
30 - 50	- steep		PD	- poorly drained		6.1 - 6.5 - 9	slightly acid		SL	- sandy loam		HC	- heavy clay
> 50	- very steep		VPD	 very poorly drained 		6.6 - 7.2 - 1	neutral		Medium				
						7.3 - 7.8 - 1	mildly alkaline		FSL	- fine sandy loam			
SOIL DEF	TH (cm)		SURFACE I	MPEDIMENT		7.9 - 8.4 - 1	moderately alkaline		L	- loam			
0 - 30	- very shallow		ROCK OUT	CROPS		> 8.5 - 9	strongly alkaline		SiL	- silt loam			
30 - 50	- shallow		< 10%	- none - few					CL	- clay loam			
50 - 100	- moderately deep		10 - 30%	- common					SiCL	- silty clay loam			
> 100	- deep to very deep		> 30%	- many					SCL	- sandy clay loam			

LAND LIMITATIONS DESCRIPTION AND COMBINATIONS

ELEVATION	SOIL DRAINAGE	SOIL DEPTH	SOIL EROSION
El2 - 500 - 1000m or 2000 - 2500m	D2 - Somewhat poorly drained to poorly drained	Sh2 - Shallow to moderately deep (30 - 100cm)	E2 - Moderate erosion
El3 -< 500m or > 2500m	D3 - Very poorly drained or excessively drained	Sh3 - Very shallow (< 30cm)	E3 - Severe erosion
SLOPE/TOPOGRAPHY	SOIL TEXTURE	ROCK OUTCROPS	FLOODING
T2 - Undulating to moderately steep	Tc - Coarse texture	Rc2 - Common	F2 - Moderate seasonal flooding
T3 - Steep to very steep		Rc3 - Many	F3 - Severe seasonal flooding

CODE	LIMITATION	CODE	LIMITATION
1	F2-D2	11	T2-F3-D2
2	F2-Tc	12	T2-Sh2-Rc2
3	F3-D2	13	Т3-Е3
4	Sh2-Rc2	14	T3-E3-Sh3-Rc2
5	T2	15	T3-E3-Sh3-Rc3
6	T2-E2-Sh2-Rc2	16	T3-E3-Sh3-Rc3
7	T2-E3		
8	T2-E3-Sh2-Rc2		
9	T2-E3-Sh2-Rc3		
10	T2-F2-D2		

CODE	LANDUSE
85	Mango
116	Coconut
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.

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.

Marginally Suitable (S3)

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.

Land having limitations which in aggregate are

CLIMATE TYPE

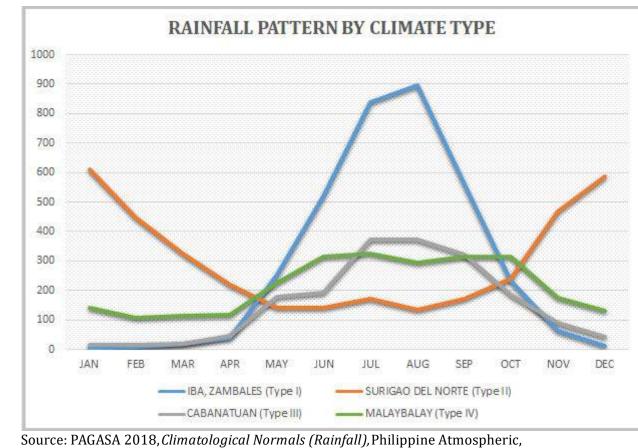
TYPE I: Two pronouced season, dry from November to April and **TYPE II**: No dry season with a very pronounced maximum rain wet during the rest of the year. Maximum rain period is from June to September

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

Whole part of City of Isabela is classified as climatic Type IV.



Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals.

