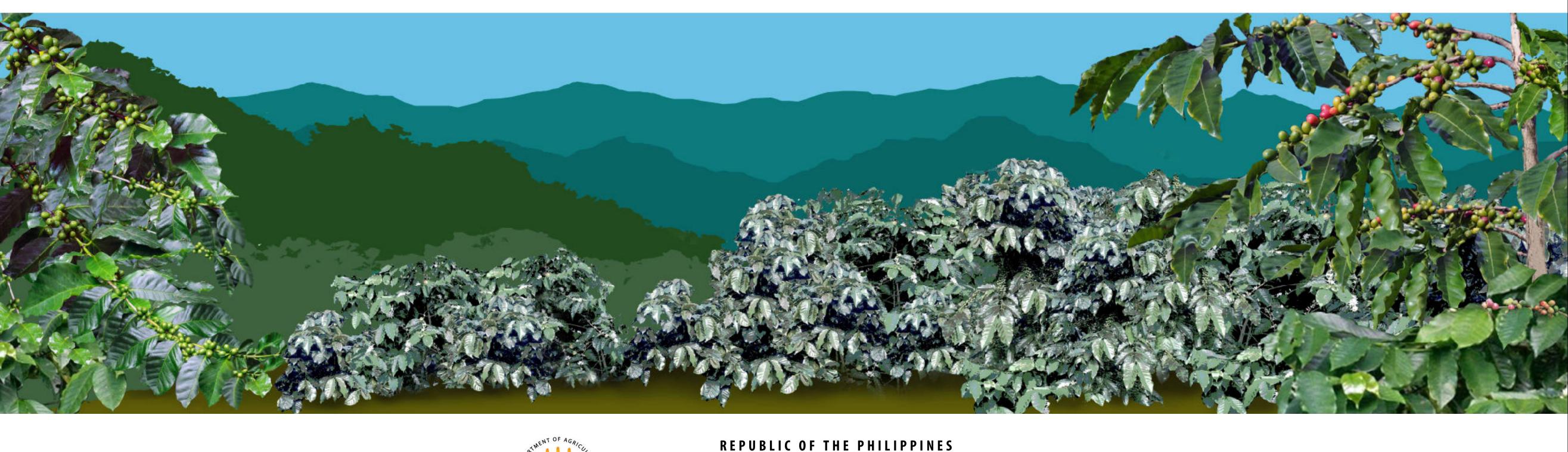


## LAND RESOURCES EVALUATION AND SUITABILITY **ASSESSMENT OF STRATEGIC PRODUCTION AREAS**





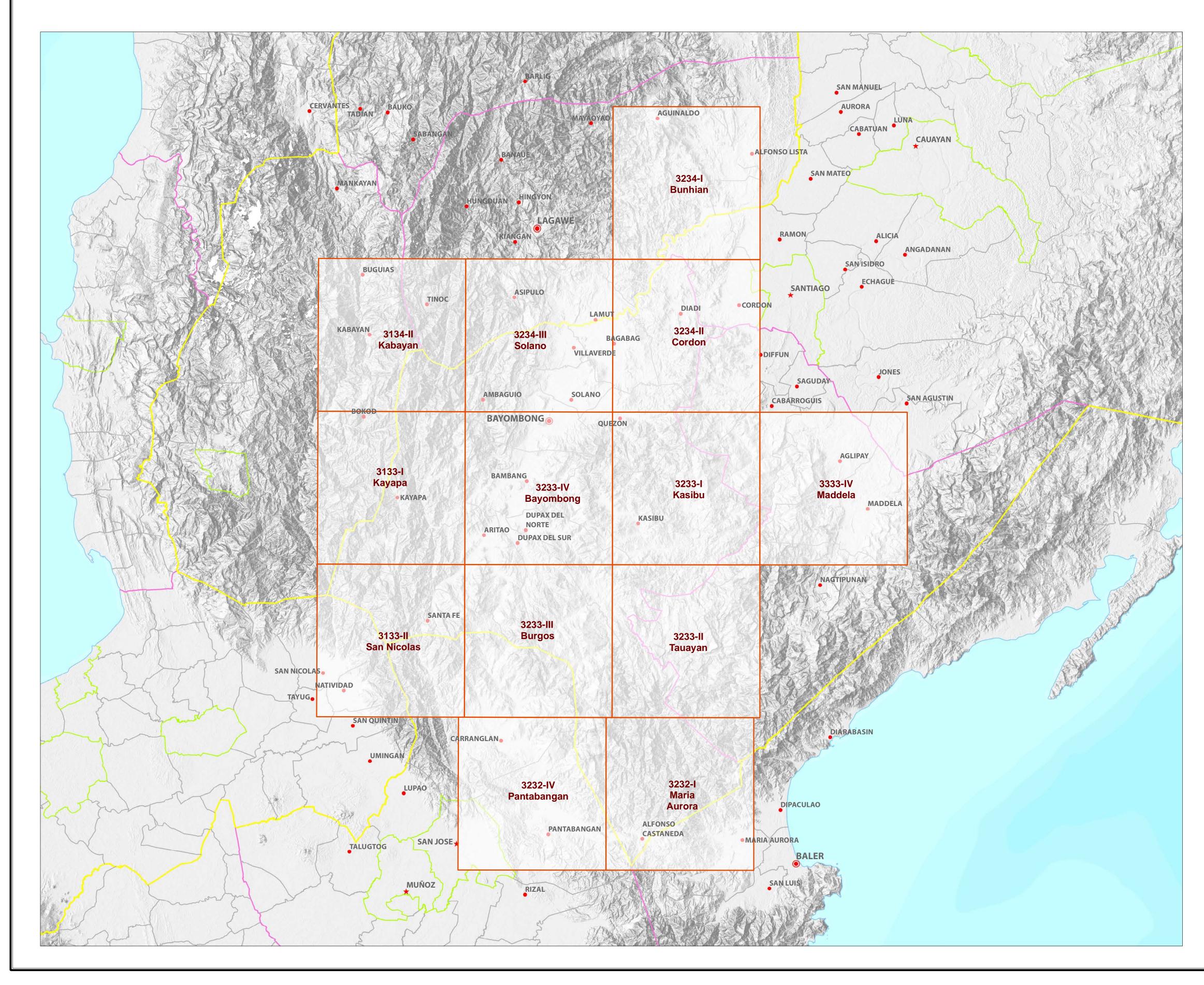
# LAND SUITABILITY MAP

# ARABICA COFFEE

# **PROVINCE OF NUEVA VIZCAYA**

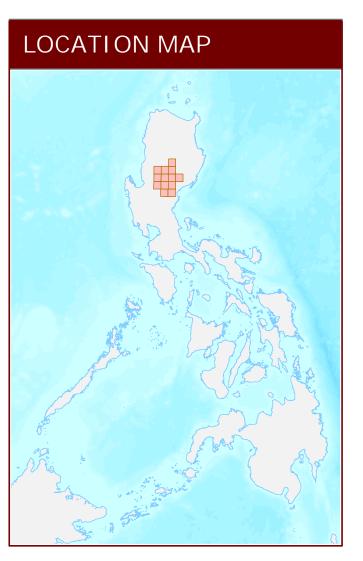
DEPARTMENT OF AGRICULTURE **BUREAU OF SOILS AND WATER MANAGEMENT** SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Quezon City 1101 Tel/Fax No.: (+632) 332-9534 E-mail: bswmclientcenter@yahoo.com

# LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS PROVINCE OF NUEVA VIZCAYA



## MAP INDEX

LEGE	ND
Place	S
۲	Capital City
*	City
۲	Capital Town
•	Town
Admi	nistrative Boundary
	Regional
	Provincial
	City
	Municipal
Map I	ndex
	Index grid
Τορο	graphic Relief
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## LAND SUITABILITY MAP FOR ARABICA COFFEE LAND RESOURCES EVALUATION AND SUITABILITY ASSESSMENT OF STRATEGIC PRODUCTION AREAS **NUEVA VIZCAYA, REGION II**

### **EXTENT OF SUITABILITY FOR ARABICA COFFEE PRODUCTION BY MUNICIPALITY**

						EX	PANSION	AREA (H	a)			CONF	LICT RES	OLUTION	l (Ha)		тота
MUNICIPALITY	EXISTI	NG COFFE	EE (Ha)	TOTAL EXISTING AREA (Ha)	Coco	onut	Shrub unmana	-	Grass unman		Со	rn		oaddy, rigated	Other	crops	TOTAL POTENTIAL EXPANSION
	<b>S1</b>	S2	<b>S</b> 3		<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S2</b>	<b>S1</b>	<b>S</b> 2	<b>S1</b>	<b>S2</b>	<b>S1</b>	S2	<b>S1</b>	<b>S2</b>	AREA (Ha)
ALFONSO CASTANEDA	-	4	284	288	-	-	-	-	-	22	-	-	-	-	-	-	22
AMBAGUIO	-	-		-	-	-	-	-	-	101	-	32	-	3	-	-	136
ARITAO	-	31	688	719	-	-	-	-	-	76	-	109	-	3	-	-	188
BAGABAG	-	-		-	-	-	-	-	-	16	-	-	-	-	-	-	16
BAMBANG	-	1	102	103	-	-	-	-	-	-	-	1	-	-	-	-	1
BAYOMBONG	-	-		-	-	-	-	-	-	83	-	11	-	-	-	-	94
DIADI	-	-	10	10	-	-	-	-	-	34	-	5	-	-	-	-	39
DUPAX DEL NORTE	-	18	93	111	-	-	-	-	-	2,461	-	975	-	-	-	-	3,436
DUPAX DEL SUR	-	12	361	373	-	-	-	-	-	1,787	-	1	-	-	-	-	1,788
KASIBU	-	-	425	425	-	194	-	198	-	1,279	-	3,811	-	-	-	-	5,481
КАҮАРА	-	-	34	34	-	12	-	-	-	171	10	262	-	2	-	-	457
QUEZON	-	-		-	-	-	-	-	-	27	-	-	-	-	-	-	27
SANTA FE	-	-	180	180	-	-	-	-	-	9	-	216	-	22	-	-	248
SOLANO	-	-		-	-	-	-	-	-	14	-	1	-	-	-	-	15
VILLAVERDE	-	-		-	-	-	-	-	-	5	-	-	-	-	-	-	5
TOTAL	-	66	2,177	2,243	-	206	-	198	-	6,087	10	5,424	-	30	-	-	11,954

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

### AGRONOMIC REQUIREMENT OF ARABICA COFFEE PRODUCTION

UTILIZATION TYPE	SUITABILITY RATING	SLOPE (%	5) SOIL DEPTH (cm)	I SOIL TEXTURE	SOIL DRAINAGE	SOIL REACTION (pH)	INHERENT FERTILITY	FLOODING CLASS	EROSION CLASS	ROCK OUTCROPS	ELEVATION (masl)	ANNUAL RAINFAL (mm)	
	S1	<8	>100	CL, SiCL, SCL, SC, SiC, C, HC	WD,MWD	5.6 -7.2	high	none-slight	none-slight	t none-few	1000-2000	2001-450	0 I, III, IV
Coffee ( Arabica )	S2	8 - 30	30 - 100	FSL, L, SiL	SPD,PD	5.1 - 5.5 7.3 - 7.8	medium	moderate	moderate	common	500-1000 2000-2500	1000-200	0 I, II
	S3	>30	<30	S, LS, CSL, SL	VPD,ED	<5.0 - > 7.9	low	severe	severe	many	<500 >2500	<1000 >4500	
SLOPE (%)			SOIL DRAI	NAGE		SOIL REACTION	l (pH)		SOIL TEXT	TURE			
	el to gently slopin	ıg	ED	- excessively drained			emely acid		Coarse			Fine	
	ntly sloping to und	-		- well drained			y strongly acid		S	- sand			- sandy clay
0	dulating to rolling	•		- moderately well drain	ed	5	ngly acid		LS	- loamy sand			- silty clay
	lling to moderately			- somewhat poorly drai			lium acid		CSL	- coarse sandy loam			- clay
30 - 50 - ste	ep			- poorly drained		6.1 - 6.5 - sligh	ntly acid		SL	- sandy loam			- heavy clay
	ry steep			- very poorly drained		6.6 - 7.2 - neut	-		Medium	5			5 5
	5 1			51 5			lly alkaline		FSL	- fine sandy loam			
SOIL DEPTH (	cm)		SURFACE I	MPEDIMENT			lerately alkaline		L	- loam			
-	ry shallow		ROCK OUT(				ngly alkaline		SiL	- silt loam			
	allow			- none - few		- 0.0 500	ingry unturne		CL	- clay loam			
	oderately deep			- common					SiCL	- silty clay loam			
	ep to very deep			- many					SCL	- sandy clay loam			
ELEVATION El2 - 500 - 10 El3 - < 500m SLOPE/TOPO0	000m or 2000 - 25 1 or > 2500m	00m	<b>SOIL DRA</b> D2 - So D3 - Ve <b>SOIL TEX</b>	mewhat poorly drained ery poorly drained or ex	l to poorly draine	d Sh Sh R(		o moderately deep ow (< 30cm) <b>S</b>	(30 - 100cm)	E3 - Severe FLOODING	ate erosion	ling	
ELEVATION El2 - 500 - 10 El3 - < 500m SLOPE/TOPO( F2 - Undula	000m or 2000 - 25 1 or > 2500m GRAPHY	00m	<b>SOIL DRA</b> D2 - So D3 - Ve <b>SOIL TEX</b>	INAGE mewhat poorly drained ry poorly drained or ex TURE	l to poorly draine	d Sh Sh R( Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS	ow (< 30cm)	(30 - 100cm)	E2 - Modera E3 - Severe <b>FLOODING</b> F2 - Modera	ate erosion erosion	•	
<b>ELEVATION</b> 212       - 500 - 10         213       - < 500m	000m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep	00m 7 steep	<b>SOIL DRA</b> D2 - So D3 - Ve <b>SOIL TEX</b>	INAGE mewhat poorly drained ry poorly drained or ex TURE	l to poorly drained	d Sh Sh R( Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 3 - Many	ow (< 30cm)	(30 - 100cm) DDE	E2 - Modera E3 - Severe <b>FLOODING</b> F2 - Modera	ate erosion erosion ate seasonal flood	•	
ELEVATION         El2       - 500 - 10         El3       - < 500m	000m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep	00m 7 steep	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION	INAGE mewhat poorly drained ry poorly drained or ex TURE parse texture	l to poorly drained	d Sh Sh R( Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm)	DDE	E2 - Modera E3 - Severe <b>FLOODING</b> F2 - Modera F3 - Severe	ate erosion erosion ate seasonal flood	•	
ELEVATION         El2       - 500 - 10         El3       - < 500m	000m or 2000 - 25 or > 2500m GRAPHY ting to moderately o very steep LIMITATION	00m 7 steep CODE LAN	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION	INAGE mewhat poorly drained ry poorly drained or ex FURE arse texture CODE LAND LIMIT	to poorly drained cessively drained	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE	ate erosion erosion ate seasonal flood	•	
ELEVATION         E12       - 500 - 10         E13       - < 500m	000m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep LIMITATION n2-Rc3 n2-Rc3	00m v steep 11 T2 12 T2- 13 T2-	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION -E3 -E3-Rc3	INAGE mewhat poorly drained ry poorly drained or ex TURE arse texture CODE LAND LIMIT 21 T3 22 T3-E3 23 T3-E3-Sh3-F	to poorly drained cessively drained <b>CATION</b> CODE 31 Rc2	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE 2 Rice pao 4 Corn 47 Vegetab	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE ddy, non-irrigated	ate erosion erosion ate seasonal flood	•	
ELEVATION         E12       - 500 - 10         E13       - < 500m	200m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep LIMITATION n2-Rc3 n2-Rc3 22-Sh2-Rc2	00m         v steep         11         12         12         13         14	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION -E3 -E3-Rc3 -E3-Sh2-Rc2	INAGE mewhat poorly drained ry poorly drained or ex FURE barse texture CODE LAND LIMIT 21 T3 22 T3-E3 23 T3-E3-Sh3-F 24 T3-E3-Sh3-F	to poorly drained cessively drained <b>CATION</b> CODE 31 Rc2	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE2Rice pad4Corn47Vegetab81Coffee	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE ddy, non-irrigated	ate erosion erosion ate seasonal flood	•	
ELEVATION         E12       - 500 - 10         E13       - < 500m	200m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep DLIMITATION 12-Rc3 12-Rc3 12-Rc3 22-Sh2-Rc2 22-Sh2-Rc3	00m         v steep         CODE       LAN         11       T2         12       T2-         13       T2-         14       T2-         15       T2-	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION -E3 -E3-Rc3 -E3-Sh2-Rc2 -E3-Sh2-Rc3	INAGE mewhat poorly drained ery poorly drained or ex FURE arse texture CODE LAND LIMIT 21 T3 22 T3-E3 23 T3-E3-Sh3-F 24 T3-E3-Sh3-F 25 T3-E12	to poorly drained cessively drained <b>CATION</b> CODE 31 Rc2	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE2Rice pade4Corm47Vegetable81Coffee82Cacao	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE Idy, non-irrigated	ate erosion erosion ate seasonal flood	•	
ELEVATION         E12       - 500 - 10         E13       - < 500m	200m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep LIMITATION n2-Rc3 n2-Rc3 22-Sh2-Rc2	00m         v steep         11         12         12         13         14	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION -E3 -E3-Rc3 -E3-Sh2-Rc2 -E3-Sh2-Rc3	INAGE mewhat poorly drained ry poorly drained or ex FURE barse texture CODE LAND LIMIT 21 T3 22 T3-E3 23 T3-E3-Sh3-F 24 T3-E3-Sh3-F	to poorly drained cessively drained <b>CATION</b> CODE 31 Rc2	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE2Rice pad4Corn47Vegetab81Coffee	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE Idy, non-irrigated	ate erosion erosion ate seasonal flood	•	
ELEVATION         12       - 500 - 10         13       - < 500m	200m or 2000 - 25 or > 2500m GRAPHY ting to moderately overy steep DLIMITATION 12-Rc3 12-Rc3 12-Rc3 22-Sh2-Rc2 22-Sh2-Rc3	00m         v steep         CODE       LAN         11       T2         12       T2-         13       T2-         14       T2-         15       T2-         16       T2-         17       T2-	SOIL DRA D2 - So D3 - Ve SOIL TEX Tc - Co ND LIMITATION -E3 -E3-Rc3 -E3-Sh2-Rc2 -E3-Sh2-Rc3	INAGE mewhat poorly drained ery poorly drained or ex FURE arse texture CODE LAND LIMIT 21 T3 22 T3-E3 23 T3-E3-Sh3-F 24 T3-E3-Sh3-F 25 T3-E12	to poorly drained cessively drained AC2 AC2 AC3	d Sh Sh R( Rc Rc Rc	2 - Shallow to 3 - Very shall OCK OUTCROPS 2 - Common 23 - Many	ow (< 30cm) S	DDE2Rice part4Corn47Vegetab81Coffee82Cacao116Coconu126Grasslan	E2 - Modera E3 - Severe FLOODING F2 - Modera F3 - Severe LAND USE ddy, non-irrigated	ate erosion erosion ate seasonal flood	•	

CODE	LAND LIMITATION	CODE	LAND LIMITATION	CODE	LAND LIMITATION	CODE	LAND LIMITATION
1	E2-Sh2-Rc3	11	T2	21	Т3	31	T3-El2-E3-Sh3-Rc3
2	E3-Sh2-Rc3	12	T2-E3	22	T3-E3		
3	El2	13	T2-E3-Rc3	23	T3-E3-Sh3-Rc2		
4	El2-E2-Sh2-Rc2	14	T2-E3-Sh2-Rc2	24	T3-E3-Sh3-Rc3		
5	El2-E2-Sh2-Rc3	15	T2-E3-Sh2-Rc3	25	T3-El2		
6	El2-E3-Rc3	16	T2-El2	26	T3-El2-E3		
7	El2-E3-Sh2-Rc3	17	T2-El2-E3	27	T3-El2-E3-Rc2		
8	El2-Sh2-Rc2	18	T2-El2-E3-Rc2	28	T3-El2-E3-Rc3		
9	El2-Sh2-Rc3	19	T2-El2-E3-Sh2-Rc2	29	T3-El2-E3-Sh2-Rc3		
10	Sh2-Rc2	20	T2-El2-E3-Sh2-Rc3	30	T3-El2-E3-Sh3-Rc2		

### **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)**

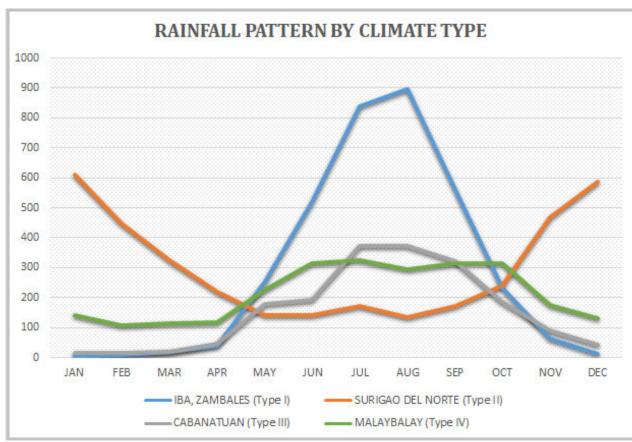
Land having limitation which in aggregate are moderately severe for sustained application of a given use; the limitation will reduce productivity or benefits and increase required inputs to the extent that the overall advantage to be gained from the use, although still attractive, will be appreciably inferior to that expected on class S1 land.

# 134 Shrubland, unmanaged

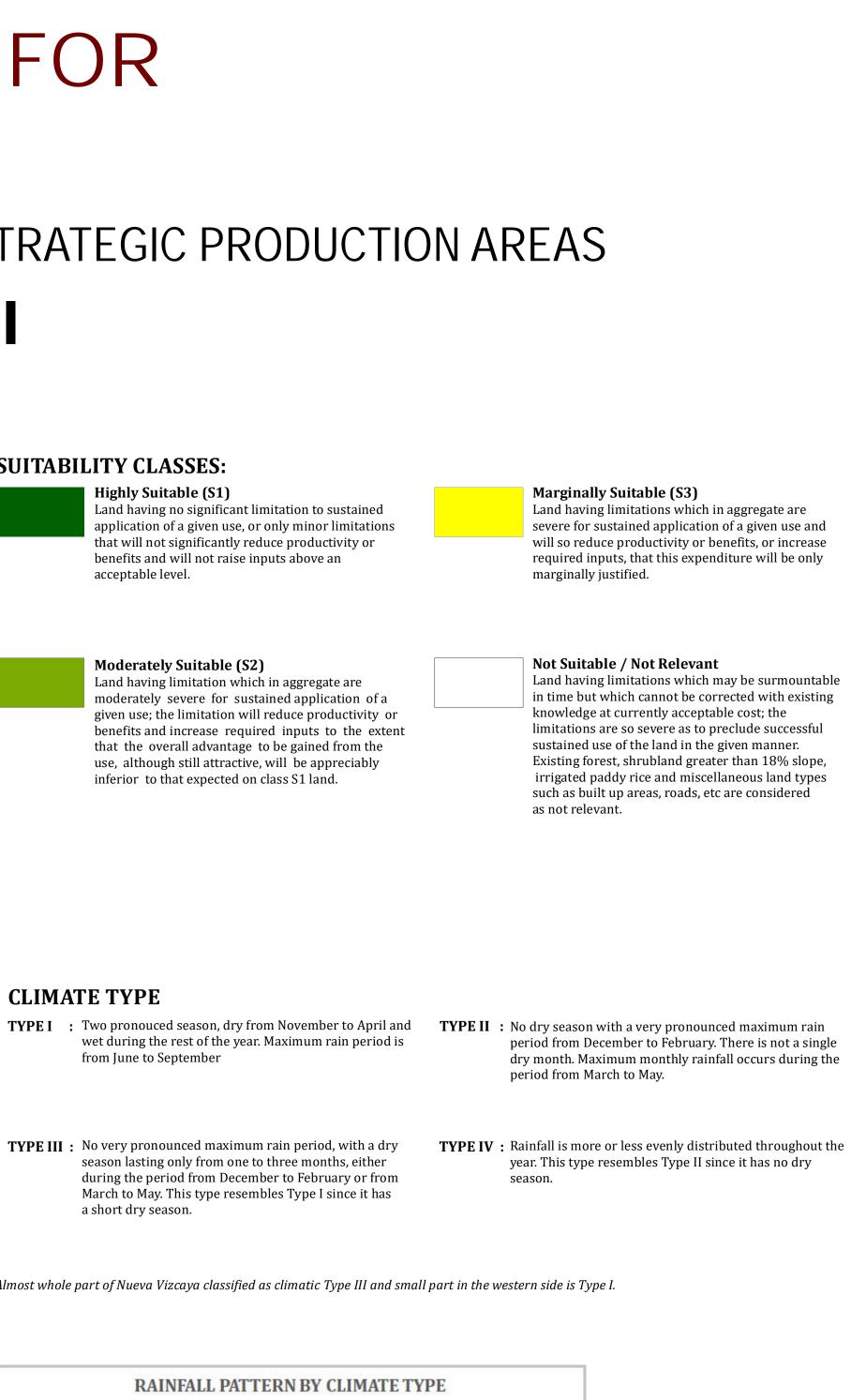
### **CLIMATE TYPE**

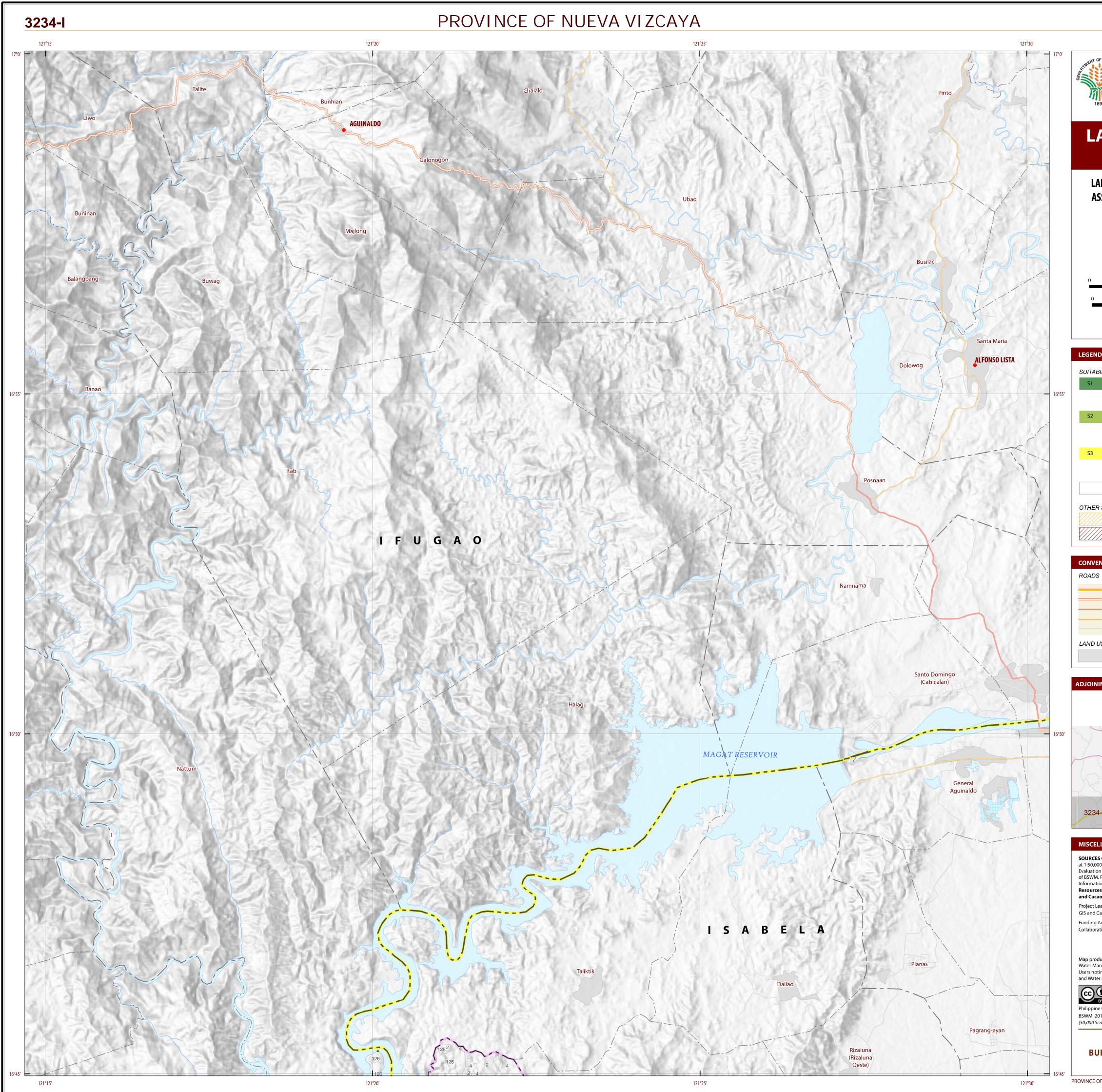
- wet during the rest of the year. Maximum rain period is from June to September
- **TYPE III** : No very pronounced maximum rain period, with a dry season lasting only from one to three months, either during the period from December to February or from March to May. This type resembles Type I since it has a short dry season.

Almost whole part of Nueva Vizcaya classified as climatic Type III and small part in the western side is Type I.

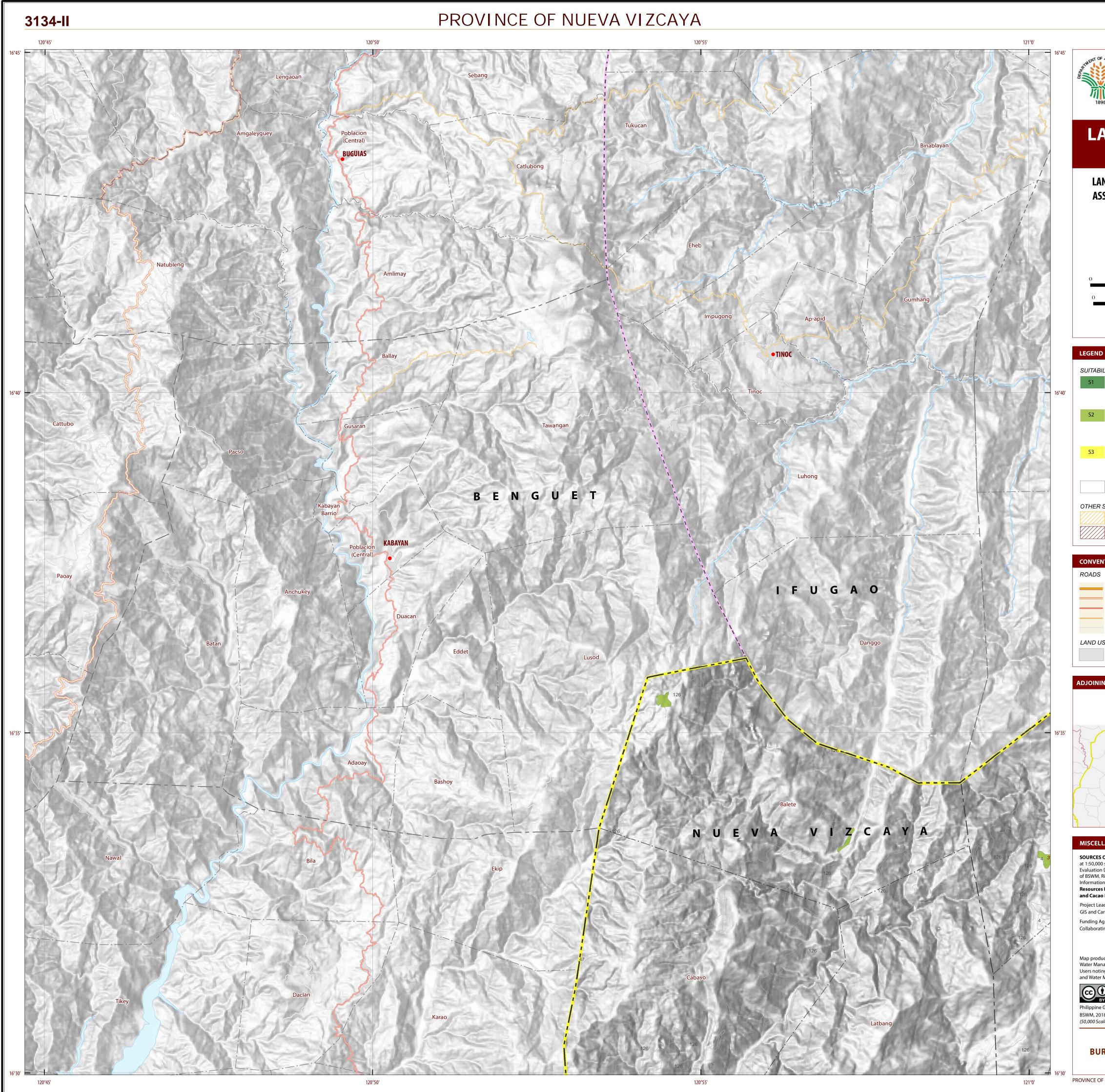


Source: PAGASA 2018, *Climatological Normals (Rainfall)*, Philippine Atmospheric, Geophysical and Astronomical Services Administration (PAGASA), accessed 27 July 2018, <a href="https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals">https://www1.pagasa.dost.gov.ph/index.php/climate/climatological-normals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

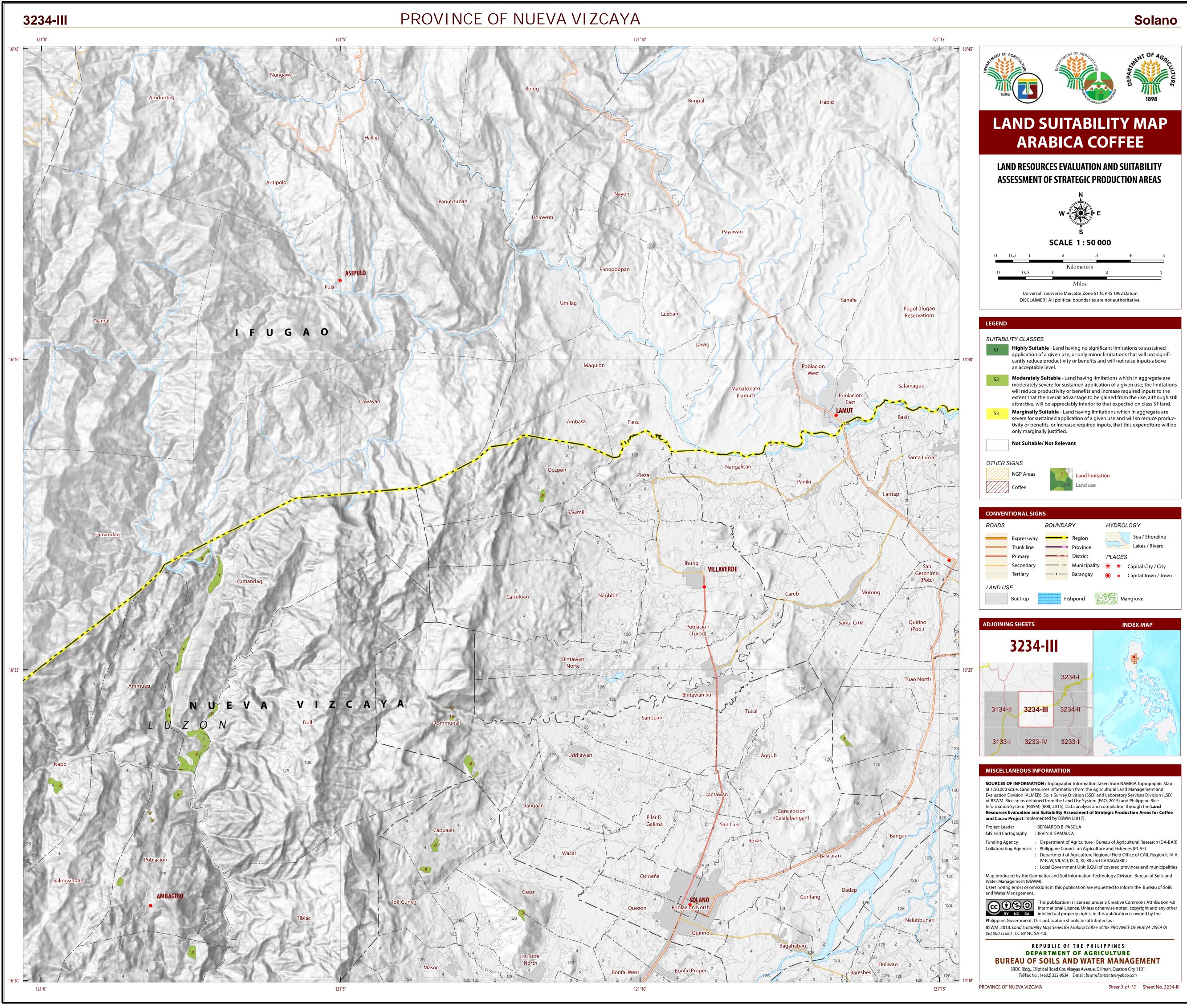


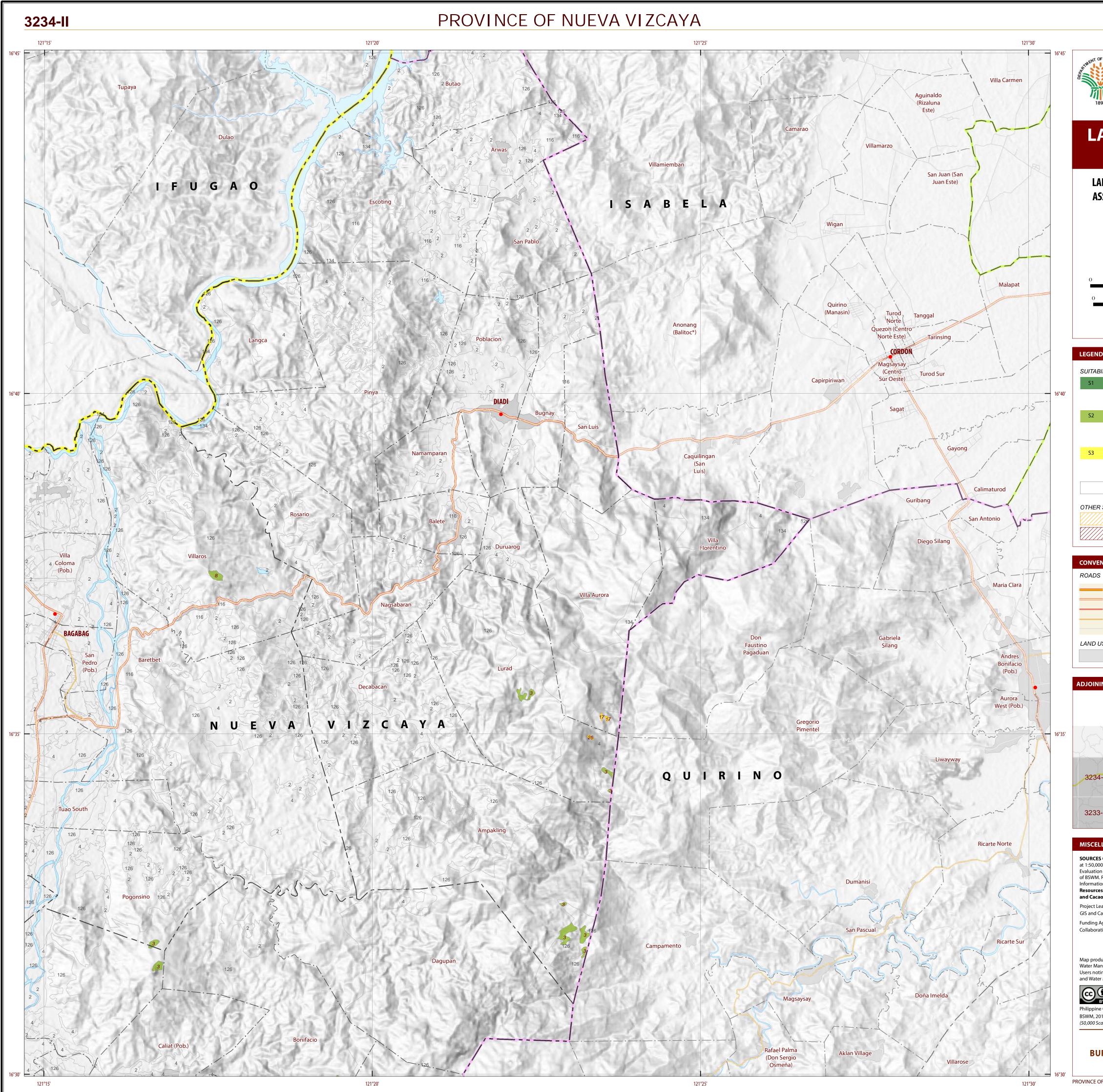


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<ul> <li>BILITY CLASSES</li> <li>Highly Suitable - Land having no signi application of a given use, or only mino cantly reduce productivity or benefits a an acceptable level.</li> <li>Moderately Suitable - Land having lim moderately severe for sustained application of a given use, or only mino cantly reduce productivity or benefits and extent that the overall advantage to be attractive, will be appreciably inferior to Marginally Suitable - Land having limi severe for sustained application of a given tivity or benefits, or increase required in only marginally justified.</li> <li>Not Suitable/ Not Relevant</li> </ul>	r limitations that will not signifi- nd will not raise inputs above hitations which in aggregate are ation of a given use; the limitations increase required inputs to the gained from the use, although still that expected on class S1 land. tations which in aggregate are yen use and will so reduce produc-
R SIGNS NGP Areas Coffee	ition
NTIONAL SIGNS BOUNDARY	HYDROLOGY
Expressway Trunk line Primary Secondary Tertiary JSE	Sea / Shoreline Lakes / Rivers PLACES * Capital City / City • Capital Town / Town
Built-up Fishpond	Mangrove
ING SHEETS 3234-I 3234-I 4-III 3234-I	INDEX MAP
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	uested to inform the Bureau of Soils er a Creative Commons Attribution 4.0 herwise noted, copyright and any other his publication is owned by the ted as :
REPUBLIC OF THE PHIL DEPARTMENT OF AGRI IREAU OF SOILS AND WATE SRDC Bldg., Elliptical Road Cor. Visayas Avenue, D Tel/Fax No.: (+632) 332-9534 E-mail: bswmcli	CULTURE R MANAGEMENT iliman, Quezon City 1101
DF NUEVA VIZCAYA	Sheet 1 of 13 Sheet No. 3234-I

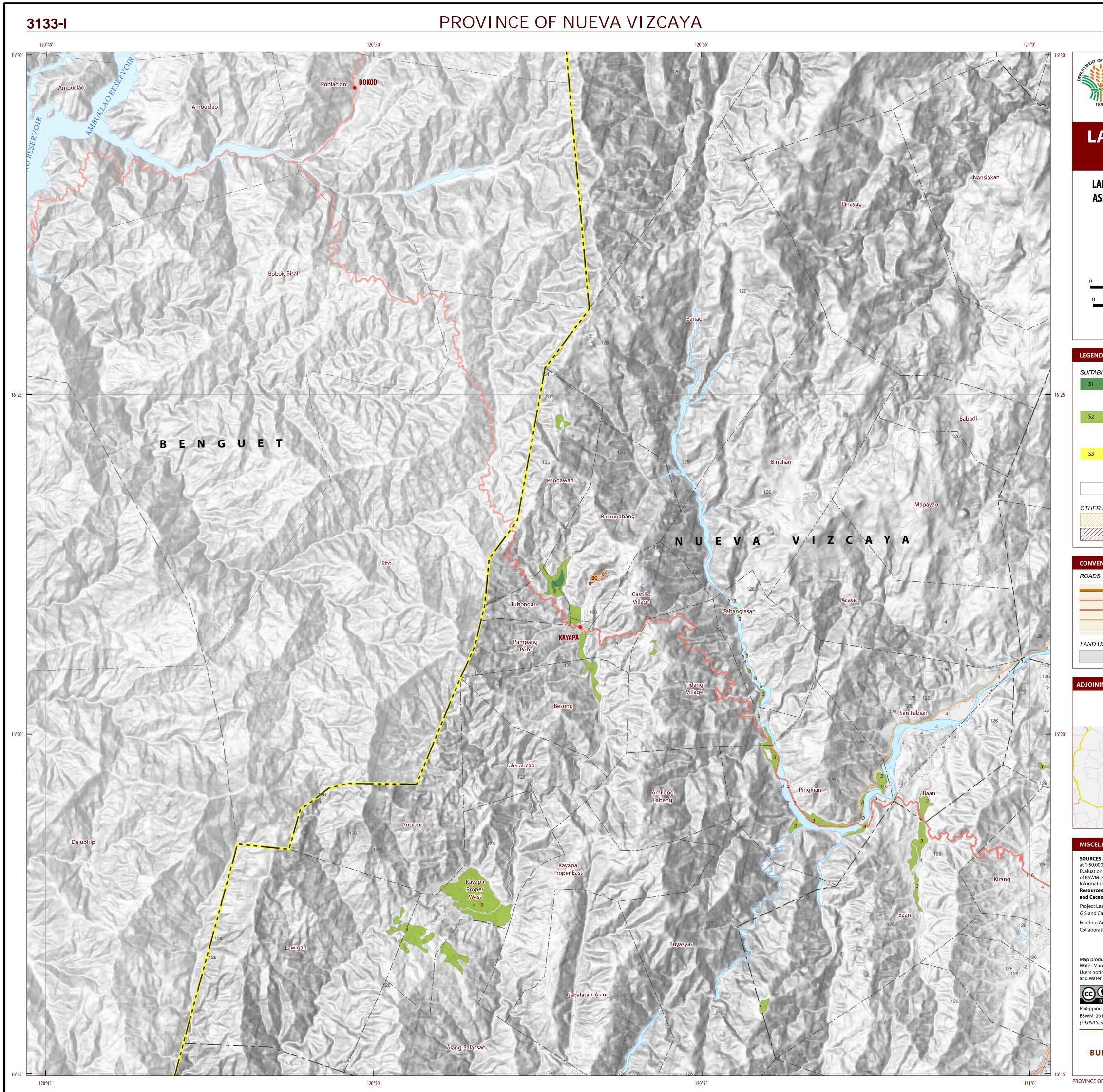


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<ul> <li>BILITY CLASSES</li> <li>Highly Suitable - Land having no significant lime application of a given use, or only minor limitatic cantly reduce productivity or benefits and will n an acceptable level.</li> <li>Moderately Suitable - Land having limitations or moderately severe for sustained application of a will reduce productivity or benefits and increase extent that the overall advantage to be gained f attractive, will be appreciably inferior to that exp Marginally Suitable - Land having limitations or severe for sustained application of a given use a tivity or benefits, or increase required inputs, that only marginally justified.</li> <li>Not Suitable/ Not Relevant</li> </ul>	ons that will not signifi- ot raise inputs above which in aggregate are given use; the limitations required inputs to the rom the use, although still pected on class S1 land. which in aggregate are nd will so reduce produc-
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ING SHEETS	INDEX MAP
S134-II	
<b>5 OF INFORMATION :</b> Topographic information taken from 10 scale. Land resources information from the Agricultural L n Division (ALMED), Soils Survey Division (SSD) and Labora Rice areas obtained from the Land Use System (FAO, 2015) on System (PRISM) (IRRI, 2015). Data analysis and compilati es <b>Evaluation and Suitability Assessment of Strategic Pr</b> <b>to Project</b> implemented by BSWM (2017). eader : BERNARDO B. PASCUA Cartography : IRVIN K. SAMALCA	and Management and tory Services Division (LSD) and Philippine Rice on through the <b>Land</b>
Agency       : Department of Agriculture - Bureau of A         iting Agencies       : Philippine Council on Agriculture and Fis         : Department of Agriculture Regional Field         IV-B, VI, VII, VIII, IX, X, XI, XII and CARAGA(         : Local Government Unit (LGU) of covered         luced by the Geomatics and Soil Information Technology D         nagement (BSWM).         ing errors or omissions in this publication are requested to         r Management.	heries (PCAF) d Office of CAR, Region II, IV-A, XIII) I provinces and municipalities Division, Bureau of Soils and
This publication is licensed under a Creati International License. Unless otherwise no intellectual property rights, in this publication e Government. This publication should be attributed as : 018. Land Suitability Map Series for Arabica Coffee of the PRO cale). CC BY NC SA 4.0.	oted, copyright and any other ation is owned by the
REPUBLIC OF THE PHILIPPIN DEPARTMENT OF AGRICULTU REAU OF SOILS AND WATER MA SRDC Bldg., Elliptical Road Cor. Visayas Avenue, Diliman, Que Tel/Fax No. : (+632) 332-9534 E-mail : bswmclientcenter@y	JRE NAGEMENT ezon City 1101
DF NUEVA VIZCAYA Sheet	2 of 13 Sheet No. 3134-II

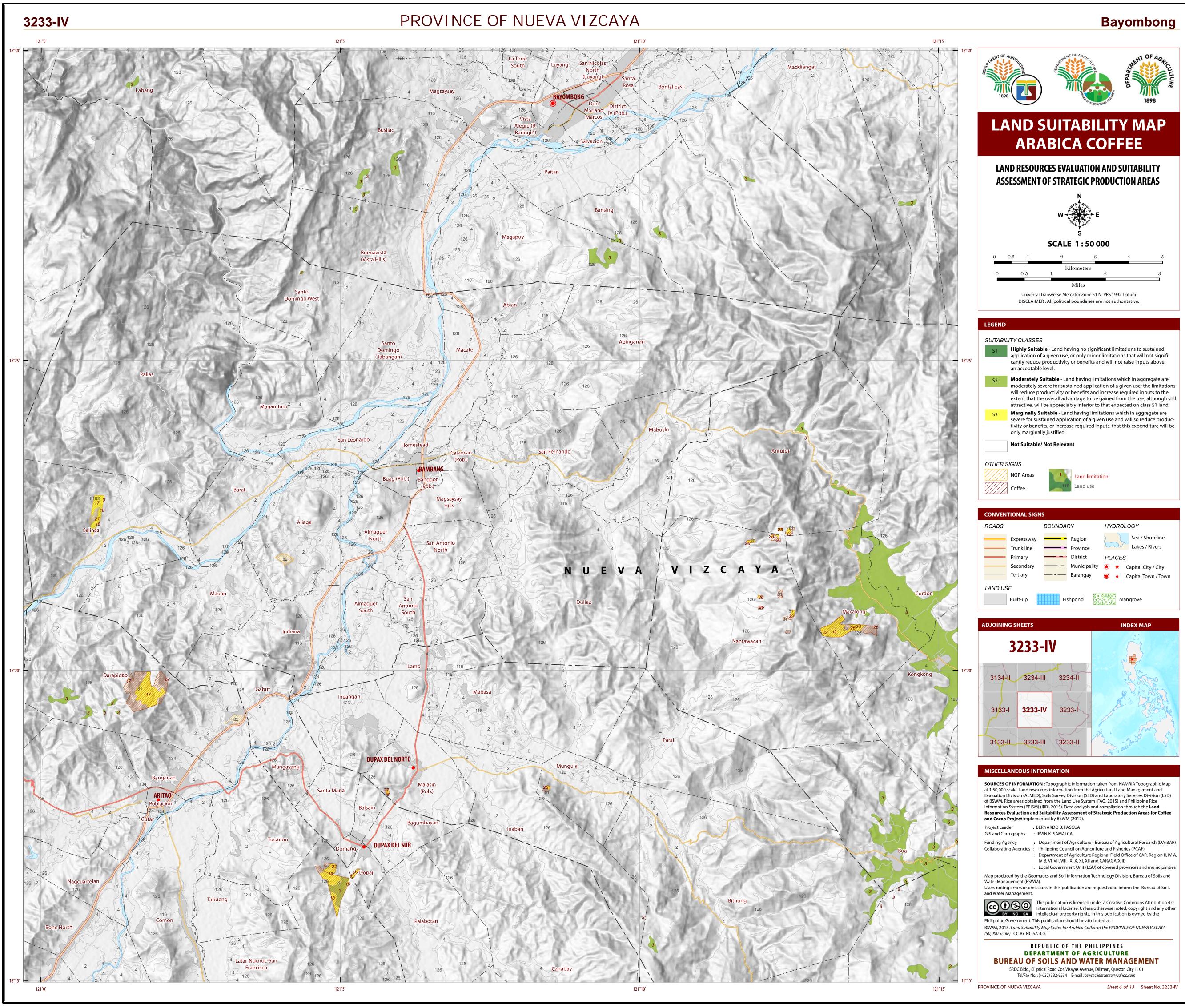


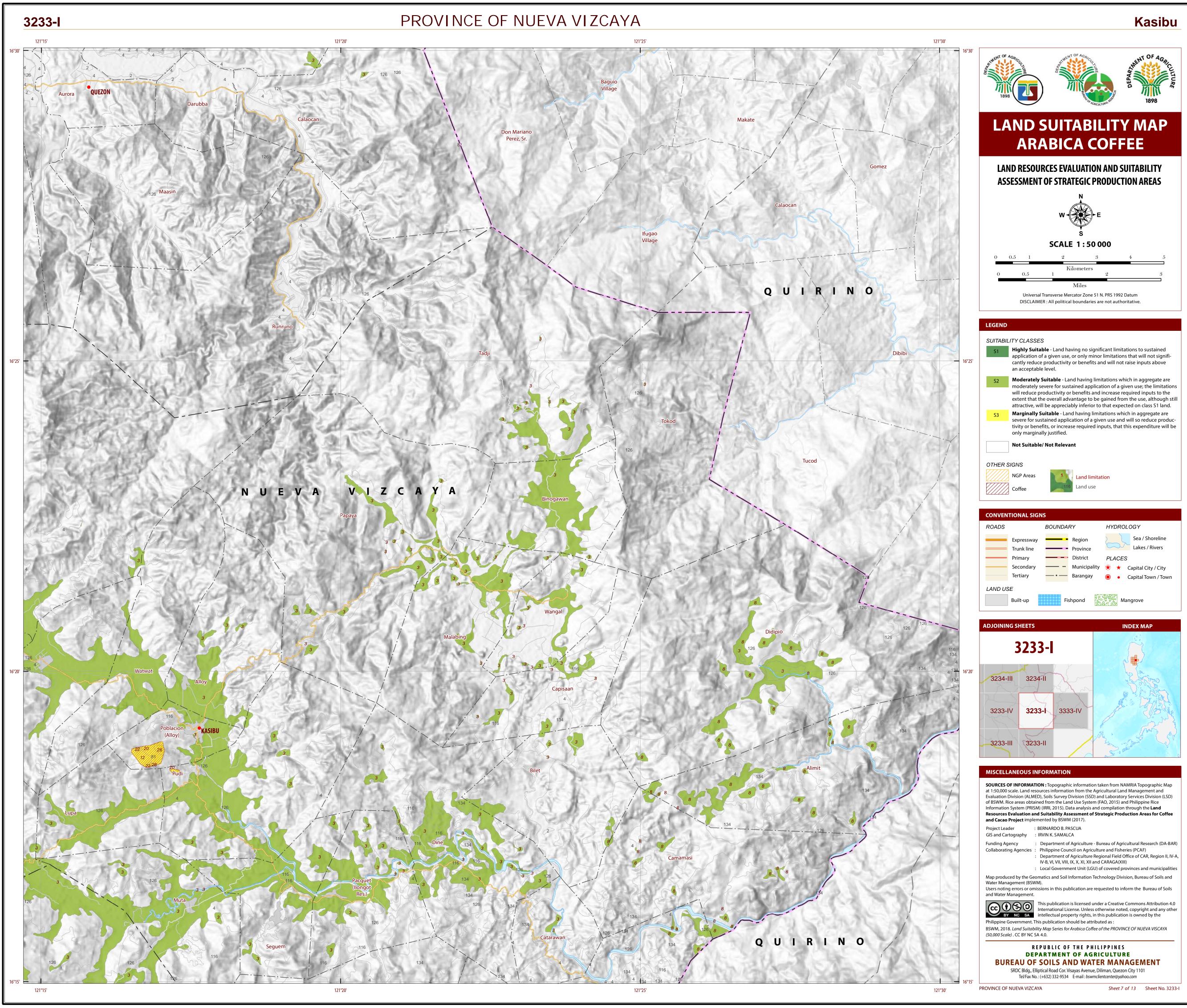


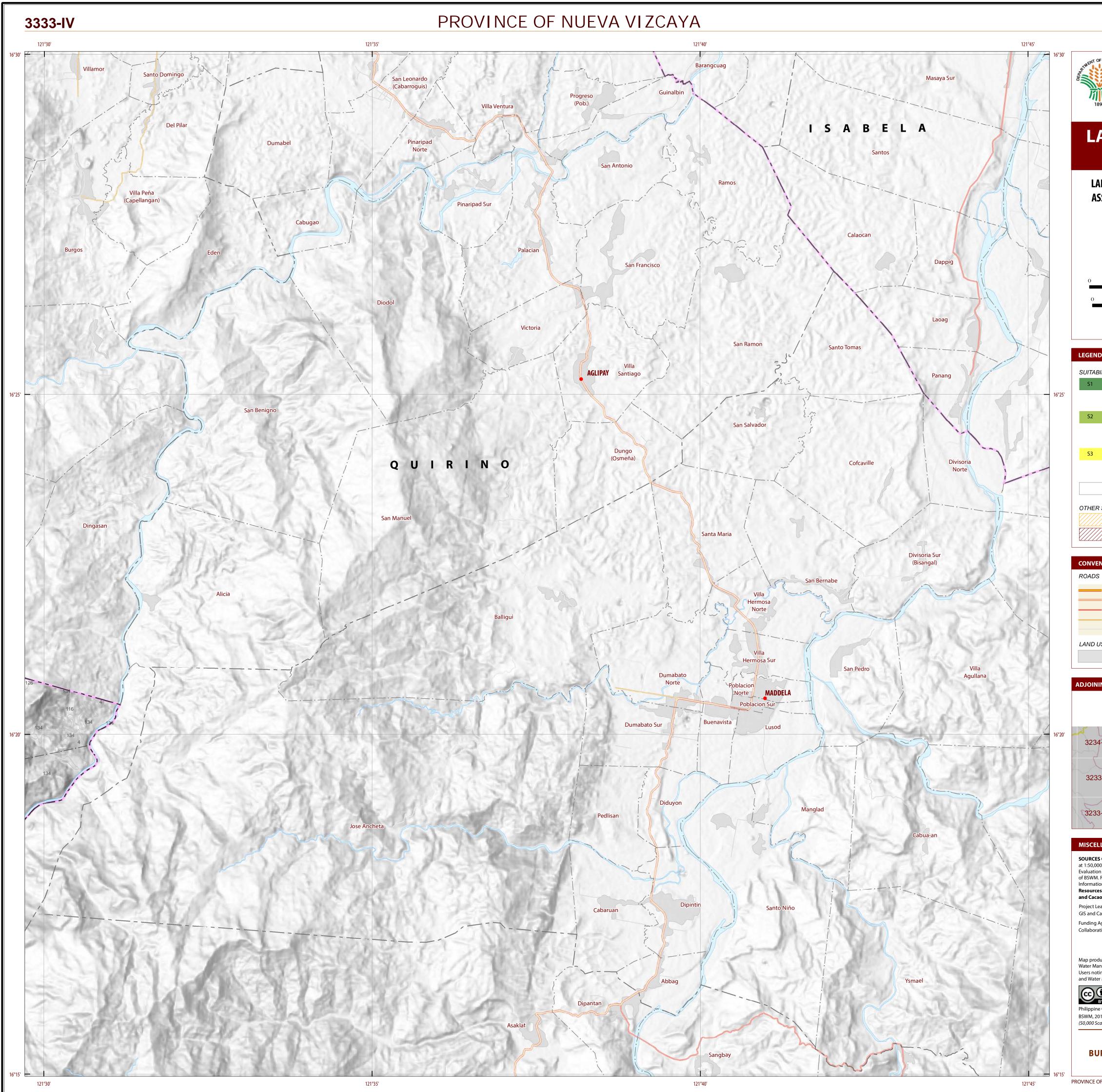
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NTIONAL SIGNS			
Expressway Trunk line Primary Secondary Tertiary JSE Built-up	OUNDARY Region Province District Municipality Barangay	) • (	DG Y Sea / Shoreline Lakes / Rivers Gapital City / City Gapital Town / Town
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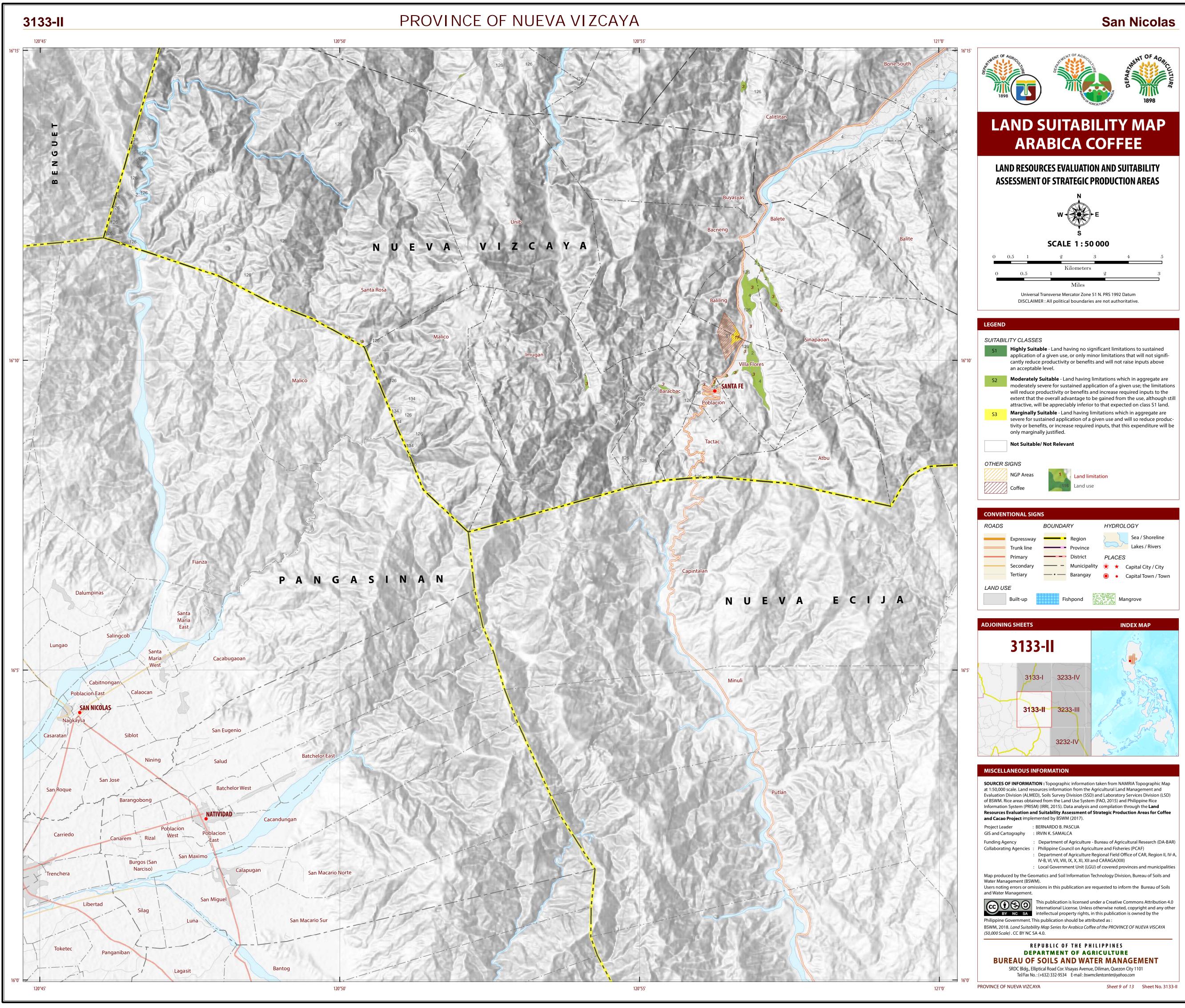
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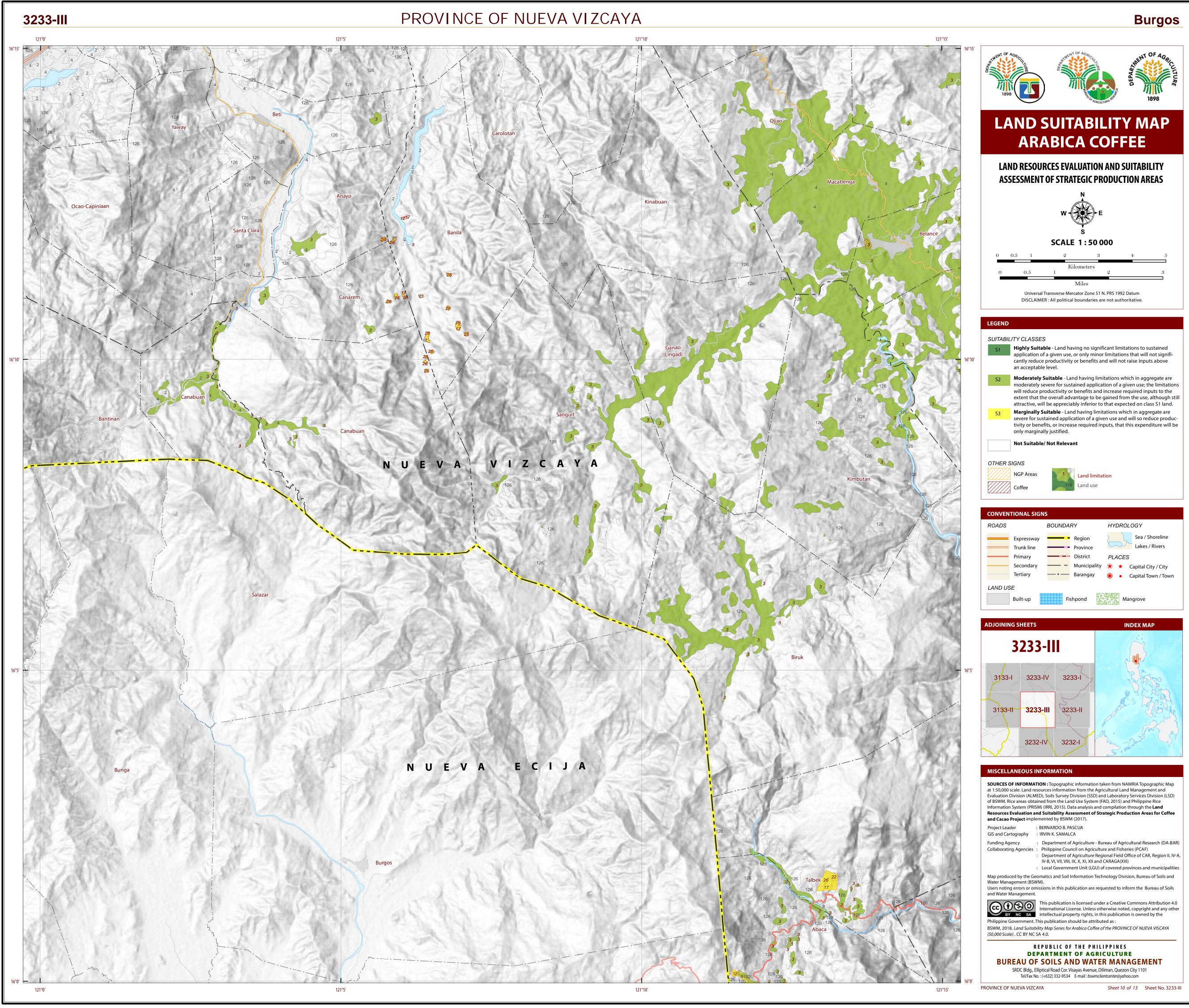


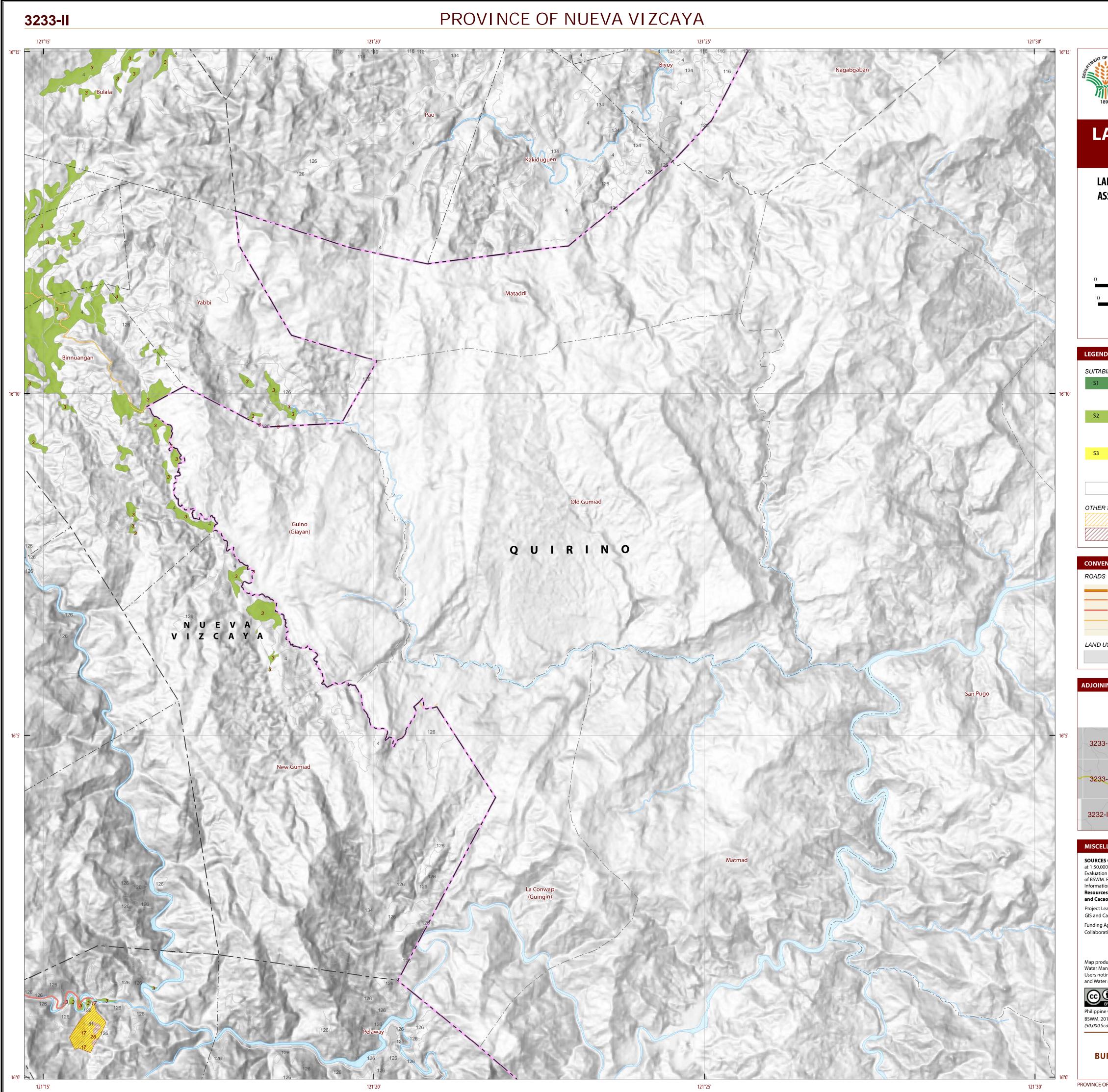




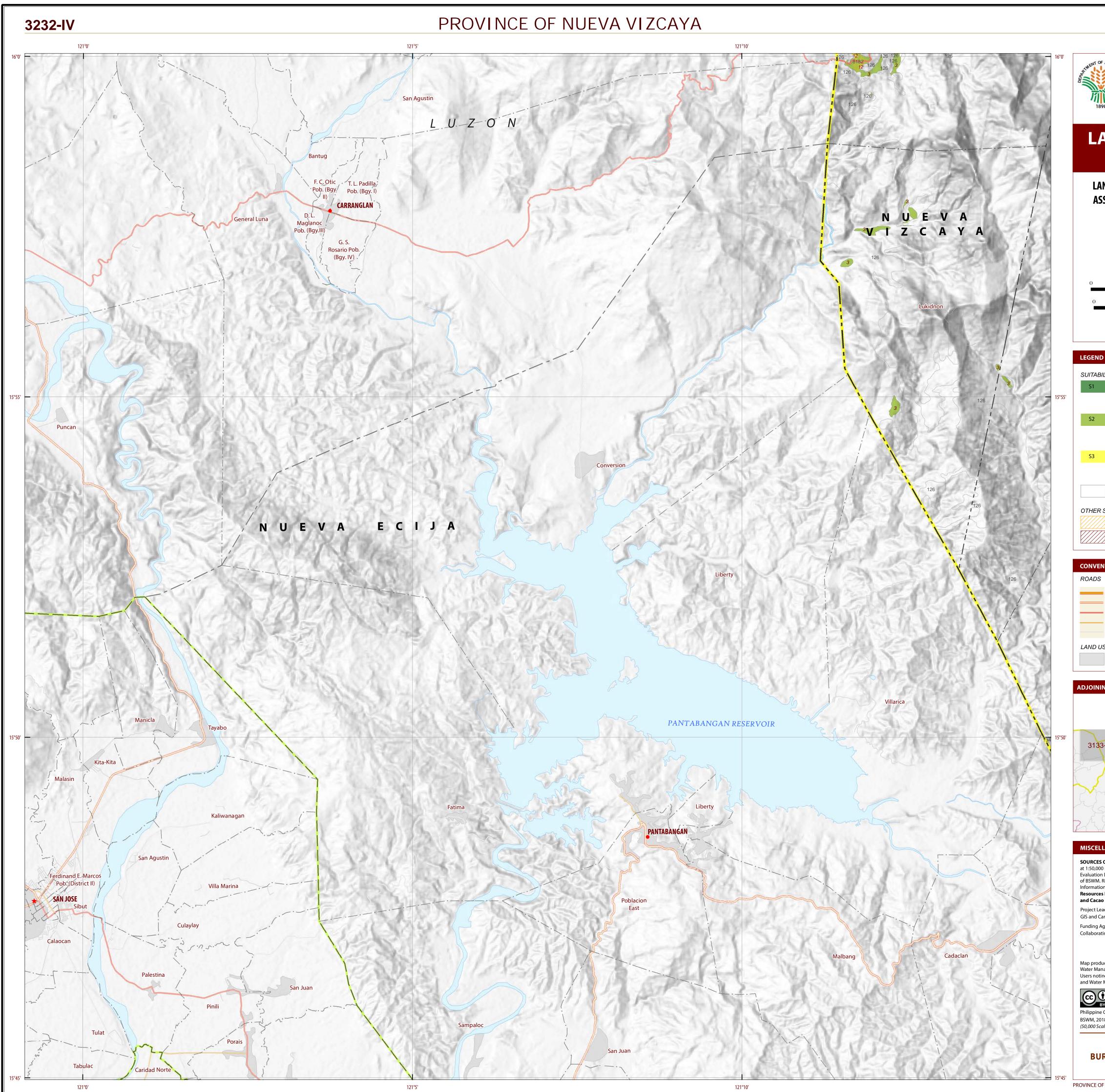
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