



VOLUME III

Annexes



BOHOL CY 2006-2026 AGRICULTURE MASTER PLAN



Orient Integrated Development
Consultants, Inc. (OIDCI)

ANNEXES

Volume 3

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List of Abbreviations

I List of Acronyms

AFMA	Agriculture and Fisheries Modernization Act
AI	Artificial Insemination
ANR	Agriculture and Natural Resources
APEC	Asia Pacific Economic Cooperation
ARBA	Agrarian Reform Beneficiaries Association
ARC	Agrarian Reform Community
ATC	Agricultural Technology and Cooperation
ATI	Agricultural Training Institute
AxR	Activator by Restorer
BABALA	Bohol Association of Barangay Livestock Aides
BAFC	Barangay Agriculture and Fisheries Council
BALA	Barangay Livestock Aides
BAMDECOR	Bohol Aqua Marine Development Corporation
BAMP	Bohol Agriculture Master Plan
BANGON	Bohol Alliance of Non-Government Organization
BAPC	Bohol Agricultural Promotion Center
BAS	Bureau of Agricultural Statistics
BATI	Bohol Association in Texas, Inc.
BC	Barangay Council
BCRA	Bohol Cattle Raisers Association
BCRIP	Bohol Circumferential Road Improvement Project
BCRMTF	Bohol Coastal Resource Management Task Force
BDC	Barangay Development Council
BDP	Barangay Development Plan
BEMO	Bohol Environment Management Office
BES	Bohol Experiment Station
BFAR	Bureau of Fisheries and Aquatic Resources
BHIP	Bohol Irrigation Project
BIARSP	Belgian Integrated Agrarian Reform Project
BIG	Bio-Intensive Gardening
BIP	Bohol Irrigation Project
BMGA	Bohol Mango Growers Association
BOD	Board of Directors
BPRMO	Bohol Poverty Reduction Management Office
BSWM	Bureau of Soils and Water Management
BSWM-LREP	Bureau of Soils and Water Management-Land Resources
CADC	Certificate of Ancestral Domain Claim
CARP	Comprehensive Agrarian Reform Program
CBFM	Community-based Forest Management
CBR	Crude Birth Rate
CBRM	Community-Based Resource Management
CD	Community Development
CDA	Cooperative Development Authority
CDD	Concrete Diversion Dam
CDR	Crude Death Rate

I List of Acronyms

CIA	Congressional Initiative Allocation
CIS	Communal Irrigation System
CLET	Coastal Law Enforcement Team
CLUP	Comprehensive Land Use Plan
CO	Community Organizing
CONBUSAC	Confederation of Boholanos in USA and Canada
CRM	Coastal Resource Management
CRMO	Coastal Resource Management Office
CRMP	Coastal Resource Management Project
CRMP-GIS	Coastal Resource Management Project-Geographic Information System
CRNI	Crude Rate of Natural Increase
CSC	Certificate of Stewardship Contract
CV	Central Visayas
CVSCAFT	Central Visayas State College of Agriculture, Forestry and Technology
DA	Department of Agriculture
DAO	Department Administrative Order
DA-RFU	Department of Agriculture-Regional Field Unit
DENR	Department of Environment and Natural Resources
DepEd	Department of Education
DLR	Department of Land Reform
DOLE	Department of Labor and Employment
DSWD	Department of Social Welfare and Development
DTI	Department of Trade and Industry
ECD	Early Childhood Development
EO	Executive Order
FARMC	Fisheries and Agriculture Resources Management Council
FCS	Food Consumption Survey
FIES	Family Income and Expenditure Survey
FMD	Foot and Mouth Disease
FNRI	Food and Nutrition Research Institute
FRDM	Fishery Resources Development and Management
FSP	Forestry Sector Project
GMA	Ginintuang Masaganang Ani
GMO	Genetically Modified Organism
GTC	General Training Course
HDI	Human Development Index
HPI	Heifer Project International
HVC	High Value Crop
IA	Irrigators Association
ICE	Information, Communication and Education
IFMA	Industrial Forest Management Agreement
IPM	Integrated Pest Management
IR	Invisible Ranches
IRR	Implementing Rules and Regulations
ISF	Integrated Social Forestry

I List of Acronyms

ITCZ	Inter-Tropical Convergence Zone
JBIC	Japan Bank for International Cooperation
KALAHI-CIDSS	Kapit Bisig Laban sa Kahirapan - Comprehensive Integrated Delivery of Social Services
LBP	Land Bank of the Philippines
LCT	Lighterage Cargo Transport
LETS HELP Bohol	Livelihood Enhancement Towards Sustainable Human and Environmental Paradigm for Bohol
LGU	Local Government Unit
LIFE	Livestock Integration for Food and Enterprise
LiMAS	Livestock Mortuary Assistance System
LIU	Land Implementing Unit
LOM	Livestock "Oksyon" Market
LPRAP	Local Poverty Reduction Action Program
LRI	Local Resource Institutions
LWUA	Local Water Utilities Administration
MAGTUBO	Magbalantay sa Tubig Bol-anon
MAO	Municipal Agriculture Officer
MAPA	Manila Action Plan for APEC
MFN	Most Favored Nation
MGB	Mines and Geo-sciences Bureau
Micro-LiFEE	Micro-Credit for Livestock Facilities, Equipment and Enterprise
MOA	Memorandum of Agreement
MPA	Marine Protected Area
MPDP	Multi-Purpose Drying Pavement
MPRAP	Municipal Poverty Reduction Action Program
MRA	Mutual Recognition Agreement
MTDP	Medium Term Development Plan
NAMRIA	National Mapping Resource Information Authority
NDA	National Dairy Authority
NFA	National Food Authority
NGA	National Government Agency
NGO	Non-government Organization
NIA-BPO	National Irrigation Authority-Bohol Provincial Office
NIPAS	National Integrated Protected Area System
NIS	National Irrigation System
NMIC	National Meat Inspection Commission
NMIS	National Meat Inspection Services
NPAAD	Network of Protected Areas for Agriculture Development
NRDM	Natural Resources Development and Management
NSCB	National Statistics Coordinating Board
NSO	National Statistics Office
OIE	Office of the International Epizootic
OPT	Operation Timbang
OPV	Office of the Provincial Veterinarian
OPV	Open and Pollinated Variety

I List of Acronyms

PACAP	Philippine Australia Community Assistance Program
PALM, Inc	Philippine Agriculture Land Development and Mill, Incorporated
PAMB	Protected Area Management Board
PAO	Provincial Agriculture Office
PCA	Philippine Coconut Authority
PCC	Philippine Carabao Center
PDC	Provincial Development Council
PENRO	Provincial Environment and Natural Resource Office
PHO	Provincial Health Office
PIP	Project Implementation Plan
PMO	Project Management Office
PO	People's Organization
PPA	Philippine Ports Authority
PPT	Provincial Program Planning Team
PRRA	Participatory Rural Resource Appraisal
PSB	Philippine Seed Board
PVQO	Provincial Veterinary Quarantine Office
R & D	Research and Development
RA	Republic Act
RC	Rice Cultivar
RFI	Rural Financing Institution
ROI	Return on Investment
ROW	Right of Way
RSPL	Rajah Sikatuna Protected Landscape
SAFDZ	Strategic Agricultural and Fisheries Development Zone
SALT	Sloping Agricultural Land Technology
SCFO	Small Coconut Farmers Organization
SFR	Small Farm Reservoir
SIAP	Sustainable Integrated Agribusiness Program
STC	Specialized Training Course
STW	Shallow Tubewells
SWC	Soil and Water Conservation
SWECO	Swedish Consultant
SWIMP	Small Water Impounding Project
TAG	Technical Advisory Group
TER	Tagbilaran East Road
TESDA	Technical Educational Skills Development Authority
TFR	Total Fertility Rate
TIP for LIFE	Techno-Internship Program for Livestock Farmers and Entrepreneurs
TNR	Tagbilaran North Road
TWG	Technical Working Group
TWG-MPRAP	Technical Working Group for the Municipal Poverty Reduction Action Program
UNAIP	Unified Artificial Insemination Program
USF	Ubay Stock Farm
VILFC	Visayas Integrated Livestock Facility Complex
WTD	World Trade Organization

II List of Units

%	percent
°C	degree centigrade
cm	centimeter
CPUE	catch per unit effort
gms	grams
GT	gross ton
ha	hectare
km	kilometer
manday	man-animal day
masl	meters above sea level
mm	millimeter
NPK/ha	nitrogen phosphorous potassium per hectare
pc	piece
sq. km	square kilometer

ANNEXES

BOHOL AGRICULTURE MASTER PLAN: CY 2006-2026



BOHOL PROVINCIAL GOVERNMENT

PART I – ANNEXES

Table I-A.1. Detailed Physiographic Description by Land System and by City/Municipality, Province of Bohol

City/Municipality	LAND SYSTEM		PHYSIOGRAPHIC DESCRIPTION
	NO.	NAME	
1. Alburquerque	1	Inabanga	Active tidal flat with mangrove/fishpond
	5	Dao	Karst plain
	7	Corella	Minor karst with infilled valleys
2. Alicia	3	Loboc	River terraces and floodplains
	10	Loon	High denudational limestone hills
	14	Ubay	Low rolling basic volcano hills w/alluvial valleys
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
	16	Sagungan	Rolling to very steep limestone mountain
	17	Babag	Moderately to highly dissected and sharp ridge low shale/sandstone hills
	13	Buenavista	Undulating terrain on shale/sandstone
	19	Duay	Moderately to highly dissected ultrabasic hills
3. Anda	1	Inabanga	Active tidal flat with mangrove/fishpond
	5	Dao	Karst plain
	9	Owak	Major karst
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
4. Antequera	3	Loboc	River terraces and floodplains
	5	Dao	Karst plain
	7	Corella	Minor karst with infilled valleys
	8	Cabangdan	Minor karst
	9	Owak	Major karst
5. Baclayon	5	Dao	Karst plain
	6	Tiwi	Karst plain with predominant sinkhole
	7	Corella	Minor karst with infilled valleys
	8	Cabangdan	Minor karst
6. Balilihan	4	Batuan	Karst plateau with isolated limestone hills
	7	Corella	Minor karst with infilled valleys
	8	Cabangdan	Minor karst
	9	Owak	Major karst
	20	Haguilanan	Corrugated karst plain
7. Batuan	4	Batuan	Karst plateau with isolated limestone hills
	7	Corella	Minor karst with infilled valleys
	9	Owak	Major karst
8. Bien Unido	1	Inabanga	Active tidal flat with mangrove/fishpond
	5	Dao	Karst plain
	13	Buenavista	Undulating terrain on shale/sandstone
	14	Ubay	Low rolling basic volcanic hills w/alluvial valleys
9. Bilar	4	Batuan	Karst plateau with isolated limestone hills
	7	Corella	Minor karst with infilled valleys
	9	Owak	Major karst
	11	Caboy	Undulating terrain on limy-shale
10. Buenavista	1	Inabanga	Active tidal flat with mangrove/fishpond
	8	Cabangdan	Minor karst
	11	Caboy	Undulating terrain on limy-shale
	12	Tanauan	Highly rolling and sharp peak/ridge limy-

City/Municipality	LAND SYSTEM		PHYSIOGRAPHIC DESCRIPTION
	NO.	NAME	
	15	Malbalibod	shale hills with alluvial valleys Moderately dissected and rolling high basic volcanic hills
11. Calape	1 2 5 7 12	Inabanga Tubigon Dao Corella Tanauan	Active tidal flat with mangrove/fishpond Coastal alluvial plain Karst plain Minor karst with infilled valleys High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
12. Candijay	1 2 5 9 10 17	Inabanga Tubigon Dao Owak Loon Babag	Active tidal flat with mangrove/fishpond Coastal alluvial plain Karst plain Major karst High denudational limestone hills Moderately to highly dissected and sharp ridge lowshale/sandstone hills
13. Carmen	4 13 15 17	Batuan Buenavista Malibalibod Babag	Karst plateau with isolated limestone hills Undulating terrain on shale/sandstone Moderately to high dissected and rolling high basic volcanic hills Moderately to highly dissected and sharp ridge lowshale/sandstone hills
14. Catigbian	4 7 8 9 11 13 20	Batuan Corella Cabangdan Owak Caboy Buenavista Haguilanan	Karst plateau with isolated limestone hills Minor karst with infilled valleys Minor karst Major karst Undulating terrain on limy-shale Undulating terrain on shale/sandstone Corrugated karst plain
15. Clarin	1 3 4 11 12 13 15	Inabanga Loboc Batuán Caboy Tanauan Buenavista Malbalibod	Active tidal flat with mangrove/fishpond River terraces and floodplains Karst plateau with isolated limestone hills Undulating terrain on limy-shale High rolling and sharp peak/ridge limy-shale hills with alluvial valleys Undulating terrain on shale/sandstone Moderately to high dissected and rolling high basic volcanic hills
16. Corella	6 7 9	Tiwi Corella Owak	Karst plain with predominant sinkholes Minor karst with infilled valleys Major karst
17. Cortes	1 3 5 6 7	Inabanga Loboc Dao Tiwi Corella	Active tidal flat with mangrove/fishpond River terraces and floodplains Karst plain Karst plain with predominant sinkholes Minor karst with infilled valleys
18. Dagohoy	13 15	Buenavista Malbalibod	Undulating terrain on shale/sandstone Moderately to high dissected and rolling high basic volcanic hills
19. Danao	4 5 13 15	Batuan Dao Buenavista Malbalibod	Karst plateau with isolated limestone hills Karst plain Undulating terrain on shale/sandstone Moderately to high dissected and rolling high basic volcanic hills
20. Dausi	5 10	Dao Loon	Karst plain High denudational limestone hills
21. Dimiao	3 5 9	Loboc Dao Owak	River terrace with floodplains Karst Plain Major karst

City/Municipality	LAND SYSTEM		PHYSIOGRAPHIC DESCRIPTION
	NO.	NAME	
	16	Sagungan	Rolling to very steep limestone mountain
22. Duero	3	Loboc	River terrace with floodplains
	16	Sagungan	Rolling to very steep limestone mountain
	19	Duay	Moderately to high dissected ultrabasic hills
23. Garcia-Hernandez	3	Loboc	River terrace with floodplains
	5	Dao	Karst Plain
	16	Sagungan	Rolling to very steep limestone mountain
24. Getafe	1	Inabanga	Active tidal flat with mangrove/fishpond
	2	Tubigon	Coastal alluvial plain
	3	Loboc	River terrace with floodplains
	5	Dao	Karst Plain
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valley
	14	Ubay	Low rolling basic volcano hills with alluvial valleys
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
25. Guindulman	1	Inabanga	Active tidal flat with mangrove/fishpond
	2	Tubigon	Coastal alluvial plain
	5	Dao	Karst Plain
	9	owak	Major karst
	16	Sagungan	Rolling to very steep limestone mountain
	19	Duay	Moderately to highly dissected ultrabasic hills
26. Inabanga	1	Inabanga	Active tidal flat with mangrove/fishpond
	2	Tubigon	Coastal alluvial plain
	3	Loboc	River terrace with floodplains
	4	Batuan	Karst plain with isolated limestone hills
	11	Caboy	Undulating terrain on limy-shale
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
27. Jagna	3	Loboc	River terrace with floodplains
	5	Dao	Karst Plain
	16	Sagungan	Rolling to very steep limestone mountain
	19	Duay	Moderately to highly dissected ultrabasic hills
28. Lila	5	Dao	Karst Plain
	9	Owak	Major karst
	16	Sagungan	Rolling to very steep limestone mountain
29. Loay	1	Inabanga	Active tidal flat with mangrove/fishpond
	3	Loboc	River terrace with floodplains
	5	Dao	Karst Plain
	7	Corella	Minor karst with infilled valleys
	16	Duay	Moderately to highly dissected ultrabasic hills
30. Loboc	1	Inabanga	Active tidal flat with mangrove/fishpond
	3	Loboc	River terrace with floodplains
	9	Owak	Major karst
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
	16	Sagungan	Rolling to very steep limestone mountain
31. Loon	1	Inabanga	Active tidal flat with mangrove/fishpond
	5	Dao	Karst Plain
	7	Corella	Minor karst with infilled valleys
	8	Cabangdan	Minor karst
	9	Owak	Major karst
	10	Loon	High denudational limestone hills

City/Municipality	LAND SYSTEM		PHYSIOGRAPHIC DESCRIPTION
	NO.	NAME	
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
32. Mabini	1	Inabanga	Active tidal flat with mangrove/fishpond
	3	Loboc	River terrace with floodplains
	10	Loon	High denudational limestone hills
	13	Buenavista	Undulating terrain on shale/sandstone
	14	Ubay	Low rolling basic volcanic hills with alluvial valleys
	15	Malibalod	Moderately dissected and rolling high basic volcanic hills
33. Maribojoc	1	Inabanga	Active tidal flat with mangrove/fishpond
	3	Loboc	River terrace with floodplains
	5	Dao	Karst Plain
	9	Owak	Major karst
	10	Loon	High denudational limestone hills
34. Panglao	5	Dao	Karst Plain
	10	Loon	High denudational limestone hills
35. Pilar	13	Buenavista	Undulating terrain on shale/sandstone
	16	Sagungan	Rolling to very steep limestone mountain
36. Pres. Garcia	1	Inabanga	Active tidal flat with mangrove/fishpond
	14	Ubay	Low rolling basic volcanic hills with alluvial valleys
37. Sagbayan	4	Batuan	Karst plain with isolated limestone hills
	9	Owak	Major karst
	11	Caboy	Undulating terrain on limy-shale
	13	Buenavista	Undulating terrain on shale/sandstone
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
38. San Isidro	7	Corella	Minor karst with infilled valleys
	8	Cabangdan	Minor karst
	9	Owak	Major karst
	13	Buenavista	Undulating terrain on shale/sandstone
	20	Haguilanan	Corrugated karst plain
39. San Miguel	13	Buenavista	Undulating terrain on shale/sandstone
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
	17	Babag	Moderately to high dissected and sharp ridge low shale/sandstone hills
40. Sevilla	7	Corella	Minor karst with infilled valleys
	9	Owak	Major karst
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
41. Sierra Bullones	13	Buenavista	Undulating terrain on shale/sandstone
	16	Sagungan	Rolling to very steep limestone mountain
42. Sikatuna	4	Batuan	Karst with isolated limestone hills
	7	Corella	Minor karst with infilled valleys
	9	Owak	Minor karst
43. Tagbilaran City	5	Dao	Karst plain
	6	Tiwi	Karst plain with predominant sinkholes
44. Talibon	1	Inabanga	Active tidal flat with mangrove/fishpond
	2	Tubigon	Coastal alluvial plain
	5	Dao	Karst plain
	13	Buenavista	Undulating terrain on shale/sandstone
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
	18	Tanghaligue	Low undulating to rolling diorite hills with alluvial valleys
45. Trinidad	1	Inabanga	Active tidal flat with mangrove/fishpond
	13	Buenavista	Undulating terrain on shale/sandstone

City/Municipality	LAND SYSTEM		PHYSIOGRAPHIC DESCRIPTION
	NO.	NAME	
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
46. Tubigon	1	Inabanga	Active tidal flat with mangrove/fishpond
	2	Tubigon	Coastal alluvial plain
	3	Loboc	River terrace and floodplains
	5	Dao	Karst plain
	7	Corella	Minor karst with infilled valleys
	12	Tanauan	High rolling and sharp peak/ridge limy-shale hills with alluvial valleys
	13	Buenavista	Undulating terrain on shale/sandstone
47. Ubay	1	Inabanga	Active tidal flat with mangrove/fishpond
	3	Loboc	River terrace and floodplains
	13	Buenavista	Undulating terrain on shale/sandstone
	14	Ubay	Low rolling basic volcanic hills with alluvial valleys
	15	Malibalibod	Moderately dissected and rolling high basic volcanic hills
	17	Babag	Moderately to high dissected and sharp ridge low shale/sandstone hills
	19	Duay	Moderately to high dissected ultrabasic hills
48. Valencia	3	Loboc	River terrace and floodplains
	4	Batuan	Karst plain with isolated limestone hills
	5	Dao	Karst plain
	9	Owak	Major karst
	16	Sagungan	Rolling to very steep limestone mountain

Note: The land system boundaries are partly based on topographic data and interpretation of aerial photographs. Actual field survey took place from October 1978 to March 1979 by the Soil Survey Division of the Bureau of Soils, Dept. of Agriculture.

**Table I-A.2 Soil Type Distribution by Land Topography/Relief per City/
Municipality, Province of Bohol**

MUNICIPALITY	SOIL TYPES	RELIEF/TOPOGRAPHY
1 Alburquerque	Bolinao Clay	Mildly rolling to rolling and hilly
2 Alicia	Faraon Clay Batuan Clay	Rolling and hilly Level to rolling
3 Anda	Bolinao Clay	Mildly rolling to rolling and hilly, mountainous with some level areas
4 Antequera	Batuan Clay Loam Batuan – Faraon Complex	Undulating Rolling to hilly
5 Baclayon	Faraon Clay	Rolling and hilly
6 Balilihan	Batuan Clay Loam Bolinao Clay Sevilla Clay Batuan – Faraon Complex	Undulating Mildly rolling to rolling and hilly, mountainous with some level area Rolling to hilly Rolling to hilly
7 Batuan	Batuan Clay Batuan – Faraon	Level to rolling Level to rolling
8 Bilar	Batuan Clay Batuan – Faraon Complex	Level to rolling Rolling to hilly
9 Buenavista	Annam Clay Baluarte Clay Ubay Clay	Rolling to roughly rolling and hilly Heavy flat to undulating Undulating to rolling and hilly
10 Calape	Bolinao Clay Calape Clay Loam Batuan – Faraon Complex	Mildly rolling to rolling and hilly, mountainous with some level area Level to undulating Rolling to hilly
11 Candijay	Candijay Clay	Undulating
12 Carmen	Batuan – Faraon Clay Ubay Clay Ubay Clay Loam	Rolling to hilly Undulating to rolling and hilly Undulating to rolling and hilly
13 Catigbian	Batuan Clay Batuan – Faraon	Level to rolling Rolling to hilly
14 Clarin	Clay Bolinao Clay Annam Clay Bantog Clay Inabanga Clay Batuan – Faraon Complex	Mildly rolling to rolling and hilly, mountainous with some level area Rolling to roughly rolling and hilly Level and rolling Rolling to hilly Rolling to hilly
15 Corella	Bolinao Clay Lugo Clay	Mildly rolling to rolling and hilly, mountainous with some level area Rolling to hilly
16 Cortes	Bolinao Clay Calape Clay Loam	Mildly rolling to rolling and hilly, mountainous with some level area Level to undulating
17 Dagohoy	Ubay Clay Ubay Clay Loam	Undulating to rolling and hilly Undulating to rolling and hilly
18 Danao	Ubay Clay Ubay Clay Loam Batuan – Faraon Complex	Undulating to rolling and hilly Undulating to rolling and hilly Rolling to hilly

MUNICIPALITY	SOIL TYPES	RELIEF/TOPOGRAPHY
	Annam Clay	Rolling to roughly rolling and hilly
19 Davis	Faraon Clay	Rolling to hilly
20 Dimiao	Faraon Clay Calape Clay Loam	Rolling to hilly Level to undulating
21 Duero	Faraon Clay Mandaue Clay Loam	Rolling to hilly Level
22. Garcia Hernandez	Faraon Clay Calape Clay Loam Annam Clay	Rolling to hilly Level to undulating Rolling to roughly rolling and hilly
24 Guindulman	Bolinao Clay	Mildly rolling to rolling and hilly, mountainous with some level area
25 Inabanga	Ubay Clay Bantog Clay Bolinao Clay Ubay Clay Loam Annam Clay Calape Clay Loam Batuan – Faraon Complex	Undulating to rolling and hilly Level to rolling Mildly rolling to rolling and hilly, mountainous with some level area Undulating to rolling and hilly Rolling to roughly rolling and hilly Level to undulating Rolling to hilly
26 Jagna	Calape Clay Loam Annam Clay	Level to undulating Rolling to roughly rolling and hilly
27 Lila	Faraon Clay	Rolling to hilly
28 Loay	Sevilla Clay	Rolling and hilly
29 Loboc	Sevilla Clay Calape Clay Loam	Rolling and hilly Level to undulating
30 Loon	Faraon Clay Bolinao Clay	Rolling and hilly Mildly rolling to rolling and hilly, mountainous with some level area
31 Mabini	Ubay Sandy Loam	Undulating to rolling to hilly
32 Maribojoc	Faraon Clay Bolinao Clay	Rolling to hilly Mildly rolling to rolling and hilly, mountainous with some level area
33 Panglao	Bolinao Clay	Mildly rolling to rolling and hilly, mountainous with some level area
34 Pilar	Ubay Clay Ubay Clay Loam	Undulating to rolling and hilly Undulating to rolling and hilly
35 Pre. Garcia	Ubay Clay Ubay Clay Loam	Undulating to rolling and hilly Undulating to rolling and hilly
36 San Isidro	Annam Clay Batuan Clay Loam Batuan – Faraon Complex	Rolling to roughly rolling and hilly Undulating Rolling to hilly
37 San Miguel	Ubay Clay	Undulating to rolling and hilly
38 Sagbayan	Batuan – Faraon Complex Sevilla Clay Inabanga Clay	Rolling to hilly Rolling to hilly Rolling to hilly
39 Sevilla	Sevilla Clay	Rolling to hilly
40 Sierra Bullones	Ubay Clay Ubay Clay Loam	Undulating to rolling and hilly Undulating to rolling and hilly
41 Sikatuna	Bolinao Clay Lugo	Mildly rolling to rolling and hilly, mountainous with some level area Roughly rolling to almost hilly
42 Talibon	Ubay Sandy Loam	Undulating to rolling and hilly
43 Trinidad	Ubay Clay	Undulating to rolling and hilly

MUNICIPALITY	SOIL TYPES	RELIEF/TOPOGRAPHY
	Ubay Clay Loam	Undulating to rolling and hilly
44 Tubigon	Bolinao Clay Batuan – Faraon Complex Annam Clay Calape Clay Loam Bantog Clay	Mildly rolling to rolling and hilly, mountainous with some level area Rolling to hilly Rolling to roughly rolling and hilly Level to undulating Level to rolling
45 Ubay	Ubay Sandy Loam Ubay Clay	Undulating to rolling and hilly Undulating to rolling and hilly
46 Valencia	Calape Clay Loam Faraon Clay	Level to undulating Rolling and hilly
47 Tagbilaran City	Faraon Clay	Rolling and hilly

Source: Department of Agriculture – Bureau of Soils and Water Management.

Table 1-A.3 Soils Attributes: Soil Depth and Description, Soil Texture and Reaction, and Soil Fertility Status by City & Municipality, Province of Bohol

City / Municipality	Soil Depth / Description		Soil Texture & Reaction		Soil Fertility Status		
	Depth (cm)	Class/Description	Texture	Reaction	Nitrogen	Phosphorus	Potassium
1. Alburquerque	24	Very shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
2. Alicia	30	Shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
3. Anda	24	Very shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
4. Antequera	21	Very shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Possibly deficient
5. Baclayon	28	Shallow	Clay	Almost neutral	Adequate	Adequate	Adequate
6. Balilihan	21	Very shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
7. Batuan	21	Very shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
8. Bien Unido	25	Shallow	Sandy loam	Moderately acidic			
9. Bilar	24	Very shallow	Clay	Neutral	Medium	Adequate	Adequate
10. Buenavista	25	Shallow	Clay	Neutral	Low	Adequate	Adequate
11. Calape	24	Very shallow	Clay				
12. Candijay	24-25	Moderately deep	Clay	Slightly acidic	Medium	Adequate	Adequate
13. Carmen	25	Shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
14. Catigbian	14	Very shallow	Clay	Slightly alkaline	Medium	Possibly deficient	Adequate
15. Clarin	24	Very shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
16. Corella	24-36	Shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
17. Cortes	24-36	Shallow	Clay to clay loam	Slightly alkaline	Adequate	Adequate	Adequate
18. Dagohoy	30	Shallow	Clay to clay loam	Moderately acidic	Low	Possibly deficient	Adequate
19. Danao	24	Very shallow	Clay to clay loam	Slightly acidic	Medium	Possibly deficient	Adequate
20. Daus	24	Very shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
21. Dimiao	28	Shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
22. Duero	28	Shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
23. Garcia-Hernandez	28-60	Moderately deep	Clay	Almost neutral	Medium	Adequate	Adequate
24. Guindulman	24	Very shallow	Clay	Slightly acidic	Medium	Adequate	Adequate
25. Inabanga	24	Very shallow	Clay to clay loam	Slightly acidic	Medium	Adequate	Adequate
26. Jagna	24	Very shallow	Clay	Almost neutral	Medium	Adequate	Adequate
27. Jetafe	25	Shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Adequate
28. Lila	28	Shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
29. Loay	24-36	Shallow	Clay	Slightly alkaline	Medium	Adequate	Possibly deficient
30. Loboc	30	Shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Adequate
31. Loon	28	Shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
32. Mabini	28	Shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Adequate
33. Maribojoc	24	Very shallow	Clay	Almost neutral	Medium	Adequate	Adequate
34. Panglao	24	Very shallow	Beach sand to clay	Slightly acidic	Medium	Adequate	Adequate
35. Pilar	25	Shallow	Clay to clay loam	Slightly acidic	Low	Adequate	Adequate
36. Pres. C.P. Garcia	30	Shallow	Clay to clay loam	Slightly acidic	Low	Adequate	Adequate
37. Sagbayan	24-30	Shallow	Clay to clay loam	Slightly acidic	Medium	Possibly deficient	Adequate
38. San Isidro	24	Very shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Adequate
39. San Miguel	25	Shallow	Clay	Moderately acidic	Low	Possibly deficient	Adequate
40. Sevilla	30	Shallow	Clay	Slightly alkaline	Low	Adequate	Adequate

City / Municipality	Soil Depth / Description		Soil Texture & Reaction		Soil Fertility Status		
	Depth (cm)	Class/Description	Texture	Reaction	Nitrogen	Phosphorus	Potassium
41. Sierra-Bullones	30	Shallow	Clay to clay loam	Slightly acidic	Medium	Adequate	Adequate
42. Sikatuna	36	Shallow	Clay	Slightly alkaline	Medium	Adequate	Adequate
43. Talibon	36	Shallow	Clay to sandy loam	Moderately acidic	Low	Adequate	Adequate
44. Trinidad	24	Very shallow	Clay to sandy loam	Moderately acidic	Low	Possibly deficient	Adequate
45. Tubigon	60	Moderately deep	Clay to clay loam	Slightly acidic	Low	Adequate	Adequate
46. Ubay	25	Shallow	Clay to sandy loam	Moderately acidic	Medium	Adequate	Adequate
47. Valencia	28	Shallow	Clay to clay loam	Slightly alkaline	Medium	Adequate	Adequate
48. Tagbilaran City	28	Shallow	Clay	Slightly acidic	Medium	Adequate	Adequate

Source: Bureau of Soils & Water Management - Dept. of Agriculture (BSWM-DA).

Legend:

Soil Depth (cm)	Class	For Upland crops in general	For lowland or irrigated rice more than 3% c.m. is generally	Availability index of K (ppm)
100 50-99	deep moderately deep	Low - 2.0 Medium - 2.1 to 3.4	Availability index of P Very deficient - 3.0	Very deficient - 16
15-49 25	shallow very shallow	Adequate - 3.5	Deficient - 3.1 to 6 Possibly deficient - 6.1 to 9 Adequate - 10	Deficient 15 to 30 Possibly deficient - 31 to 49 Adequate 50

By Feel Method	By Electrode or Triple Indicator Method
Light Soil - from sand to loamy sand Medium Soil - from sandy loam to salty loam Heavy Soil - from silty clay loam to clay	PH 4.0 - Intensely acidic PH 5.0 - Moderately acidic PH 6.0 - Slightly acidic PH 7.0 - Neutral PH 8.0 - Slightly alkaline

**Table I-A.4 Detailed Inventory of the NIPAS Areas in the Province of Bohol
(As of May 2005)**

Name of Protected Areas	Legal Status/Date of Proclamation	Location	Area (ha.)
Wahig Inabanga River Watershed Forest Reserve	PP 223	Municipalities of Pilar, S-Bullones, Carmen, Jagna, Duero, Sagabayan, Dagohoy, Danao, Buenavista, Inabanga, Getafe, Talibon, Trinidad and San Miguel	14,000 Subject to actual verification
Talibon Group of Islands Protected Seascope	PP 2151 (Mangrove Wilderness Area) June 1999	Islands of Sag., Banbanon, Bansaon and Tambo all of municipality Talibon	6,455
Candijay Group of Islands Strict Nature Preserve	PP 2152 (Mangrove Wilderness Area)	Islets of Calanggaman, Catil, Tabangdio and Lumis Islet of Candijay and Mabini	For verification
Candijay Protected Seascope/Landscape	PP 2152 (Mangrove Swamp Area Reserve)	Cogtong, Panas, Candijay and Badiang, Anda	For verification
CPG Protected Seascope/Landscape	PP 2151 & 2152 (Wilderness Area & Swamp Forest Reserve) Dec. 29, 1981	Aguining, Baud, Basiao, Canmangao, Lapinig Island, Villa Milagrosa	446.04
Inabanga Group of Island Strict Nature Reserve	PP 2151 (Wilderness Area)	Islets of Pangahoykahoyan and Bugatusan of Inabanga	534
Inabanga Protected Seascope/Landscape	PP 2152 (Mangrove Swamp Forest Reserve)	Hambungan, Fatima, Lawis, Sto. Nino and Bugang all of Inabanga	2,045
Ubay Protected Seascope and Landscape	PP 2152 (Mangrove Swamp Forest Reserve)	Biabas, Cagting, Cuya, Fatima, Juagdan, Pangpang and Tintinan Island of Ubay	1,564
Getafe Group of Islands Protected Seascope/Landscape	PP 2151 & 2152 (Wilderness Area and Mangrove Swamp Reserve)	Jandayan Norte and Sur, Handumon, Tuy-oran, Alumar, Banacon Is, Jagoliao Is. Nasingin Is. Mahanay Is., of Getafe	4,785
Chocolate Hills Natural Monument	PP 1031 Feb. 26, 2003	Municipalities of Batuan, Carmen, Sagbayan, SBullones, Valencia and Bilar	19,410
Loboc Watershed Forest Reserve	PP 450	Municipalities of Bilar, Batuan, Carmen, Balilihan, SBullones, Lila, Loboc and Sevilla	10,387
Alejawan-Cansuhay Anibongan River Watershed Forest Reserve	PP 881	Boctol, Lonoy, Mayana, Odiong, Jagna, Bohol and Angilan, Anibongan, Bangwalog, Cansuhay, Taytay, Payao, San Antonio, San Pedro Duero	3,620
Albu-Loay-Loboc Protected Seascope/Landscape	PP 293 April 23, 2000	Bahi, San Agustin, Western Poblacion, Eastern Pob. Sta. Fe and Tagbuane, Albur Elegria Sur, Sagnap, Palo, Villalimpia. Loay Agape, Ugpong, Canlasis Poblacion (western part) Loboc	For verification
Sandingan-Cabilao Mangrove Swamp Forest Reserve	PP 2152	Basdio, Calayugan Sur, Calayugan Norte, Canigaan, Sondol, Ubujan, Mocpoc Sur, Sandingan, Loon, then Talisay,	1,335

Name of Protected Areas	Legal Status/Date of Proclamation	Location	Area (ha.)
		Cabacungan, Cambaguing, Pantudland, Looc, Cabilao, Loon	
Tubigon Group of Islands Wilderness Area	PP 2151	Inanuran Island, Budlaan island, Hayaan Island, batasan Island,	40
Rajah Sikatuna Protected Landscape	PP 127	Municipalities of Bilar, Carmen, SBulloes, Garcia Hernandez, Valencia, batruan and Dimiao	10,450
Calape Group of Island Nature Reserve	PP 2151	Banihan, Poom Calape	153
Pangagangan Island Mangrove Swamp Forest Reserve	PP 2152	Lawis, Talisay, Kinabag-an, Looc, Magtongtong, Madangog, Lomboy, Kahayag all of Panggangan Island, Calape	156.3
Panglao Island Protected Seascape	PP 426 July 22, 2003	Poblacion, Songculan, Totolan, Davis and Poblacion, Doljo, Panglao	385.66
Clarín Group of Island Protected Landscape and Seascape	PP 2151	Cabgan, Cancostino, Maagpit, Taboan, Silo-siloan, Clarín	For verification
TOTAL			75,766

Source: PENRO-DENR, Province of Bohol.

Table I-A.5 Bat Species in the Province of Bohol (As of May 2005)

Family	Scientific Name	Common Name	Distribution (Heaney et al)	Status
Pteropodidae	<i>Acerodon jubatus</i> *	Golden-crowned Flying	Endemic	Endangered
	<i>Cynopterus brachyotis</i>	Common Short-nosed Fruit Bat	Widespread	Stable
**	<i>Eonycteris robusta</i>	Philippine Nectar Bat	Philippines Endemic	Quite rare
	<i>Eonycteris spelaea</i>	Common Nectar Bat	Widespread	Stable
	<i>Haplonycteris fischeri</i>	Phil. Pygmy Fruit Bat	Philippine Endemic	Stable
	<i>Macroglossus minimus</i>	Dagger-toothed Flower	Widespread	Stable
	<i>Ptenochirus jagori</i>	Musky Fruit Bat	Philippine Endemic	Stable
**	<i>Ptenochirus minor</i>	Lesser Musky Fruit Bat	Mindanao Endemic	Stable
	<i>Pteropus vampyrus</i> *	Large Flying Fox	Widespread	Stable
	<i>Rousettus amplexicaudatus</i>	Common Rousette	Widespread	Stable
Emballonuridae	<i>Emballonura</i>	Phil. Sheath-tailed Bat	Widespread	Apparently rare
Megadermatidae	<i>Megaderma spasma</i>	Common Asian Ghost Bat	Widespread	Common
Rhinolophidae	<i>Hipposideros cervinus</i>	Fawn-colored Roundleaf Bat	Widespread	Unknown
	<i>Hipposideros diadema</i>	Diadem Roundleaf Bat	Widespread	Common
	<i>Hipposideros obscurus</i>	Philippine Forest	Philippine Endemic	Stable
**	<i>Hipposideros pygmaeus</i>	Roundleaf Bat Philippine	Philippine Endemic	Seemingly rare
**	<i>Rhinolophus arcuatus</i>	Arcuate Horseshoe Bat	Widespread	Common
	<i>Rhinolophus rufus</i>	Large Rufous Horseshoe Bat	Philippine Endemic	Uncertain/ Uncommon
**	<i>Rhinolophus subrufus</i>	Small Rufous Horseshoe Bat	Philippine Endemic	Unknown and Vulnerable
**	<i>Rhinolophus virgo</i>	Yellow-faced Horseshoe Bat	Philippine Endemic	Moderately Common
Vespertilionidae	<i>Miniopterus australis</i>	Little Bent-winged Bat	Widespread	Common
	<i>Miniopterus schreibersi</i>	Common Bent-winged Bat	Widespread	Common
	<i>Miniopterus tristis</i>	Greater Bent-winged Bat	Widespread	Common
	<i>Scotophilus kuhlii</i>	Lesser Asian House Bat	Widespread	Stable
Molossidae **	<i>Chaerephon plicata</i>	Wrinkle-lipped Bat	Widespread	Probably vulnerable &

Source : Soil and Water Conservation Foundation

Note : * Not captured, identified by sight only

** Newly identified species in Bohol

Table I-A.6 List of Wildlife Species per Municipality/City, Province of Bohol Management Office

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
Alburquerque	2004	Unggoy	Macaque	Long-tailed macaque	Macaca fascicularis		
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis		
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta		
	2004	Snake (baksan, banakon, lukay-lukay, tangkig)					
Alicia	2004	Pato				common	anywhere
	2004	Pabo				rare	Rice fields
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet (tangkalung)	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Hawo (halo)	Monitor Lizard	Salamander		rare	Forest
	2004	Ibid				rare	Forest
Anda	2004	Kabog				common	Caves
Antequera	2004	Udto				rare	Forest
	2004	Banakon	Philippine Cobra			rare	Forest
	2004	Baksan	Reticulated Python			common	anywhere
	2004	Sajaw				rare	Caves
	2004	Kabjawan				rare	Caves
	2004	Hawo (halo)	Monitor Lizard			rare	Riverside/ Valleys
	2004	Ibid	Salamander			rare	Rivers
	2004	Don				Extinct	anywhere
	2004	Balidok				Extinct	Forest
	2004	Mamag				rare	Forest
	2004	Hambobokad	Flying Lizard			rare	Lowlands
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	Extinct	Forest, Cave s
	2004	Miklaw				Extinct	Forest, Caves
	2004	Madan				Extinct	Forest, Caves
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest, Caves
Baclayon	2004	Tabili	Tree skink			rare	
	2004	Bitin (halas, aras)	Snake			common	anywhere
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Farmlands
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Farmlands
	2004	Ibid	Salamander			rare	Caves
	2004	Hawo (halo)	Monitor Lizard			rare	Caves
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Caves
Balilihan	2004	Kabog	Big bat			common	Forest/Hills
	2004	Bitin (halas, aras)	Snake			common	Caves, Hills, Grasslands
	2004	Hawo (halo)	Monitor Lizard			not common	Hills/Caves

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	Hills
	2004	Tingawong (finsawong)	Malay civet	Malay civet (tangelung)	Viverra zangalunga	not common	Hills
Batuan	2004	Kasili				not common	rivers
	2004	Awang				common	Forest
	2004	Carpa				rare	rivers
	2004	Hal-wan				rare	rivers
	2004	Pantat				rare	rivers
	2004	Hambobokad	Flying Lizard			rare	places with trees
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	not common	Forest
	2004	Tabili	Tree skink			common	Forest, places with trees
	2004	Tambusan-on				common	Ricefields, Farmlands, uplands
	2004	Bitin (halas, aras)	Snake			common	Forest, Farmlands
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	not common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Tingawong (finsawong)	Malay civet	Malay civet (tangelung)	Viverra zangalunga	rare	Forest
	2004	Ibid	Salamander			not common	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest / places with trees
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	not common	Forest
	2004	Kabog / kwaknit				common	Caves
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	
Bien Unido	2004	Sigwawo				rare	Sea
	2004	Tingawong (finsawong)	Malay civet	Malay civet (tangelung)	Viverra zangalunga	rare	Forest
	2004	Halas/Bitin (aras)	Snake			rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Pawikan				rare	Shore / sea
	2004	Tabili	Tree skink			rare	Coconut trees
	2004	Hawo (halo)	Monitor Lizard			rare	Forest
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			rare	Rice fields
Bilar	2004	Agwason	Spider			rare	Forest/Rice fields
	2004	Tanga	Scorpion			common	Forest/Rice fields
	2004	Uhipan	Centipede			common	Forest/Rice fields
	2004	Hambobokad	Flying Lizard			rare	Forest/Rice fields
	2004	Tiki	Gecko			common	Forest/Rice fields

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Labod	Millipede			common	Forest/Rice fields
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Ba'o (iyon, iwon)	Turtle, tortoise, terapin			rare	Rice Fields
	2004	Ibid	Salamander			not common	Forest/Rice Fields
	2004	Squirrel				rare	Forest/Private land
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	Forest/Private land
	2004	Tinggawong (finsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	not common	Forest/Private land
	2004	Baksan/Sawa	Reticulated Python			common	Forest/Private land
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest/Private land
	2004	Baboy Ramo / Baboy ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	not common	Forest
Buenavista	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	Extinct	Forest
	2004	Hawo (halo)	Monitor Lizard			rare	rivers
	2004	Ibid	Salamander			rare	rivers
	2004	Tabili	Tree skink			rare	places with coconut trees
	2004	Hambobokad	Flying Lizard			rare	places with coconut trees
	2004	Kabog				rare	
	2004	Tinggawong (finsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest
Calape	2004	Kwaknit				common	anywhere
	2004	Tambasan-on				common	anywhere
	2004	Tuko				common	anywhere
	2004	Hambobokad	Flying Lizard			common	anywhere
	2004	Iyon (iwon, ba'o)	Turtle, tortoise, terapin			not common	places with trees
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	not common	places with trees
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	not common	places with trees
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	not common	places with trees
Calape	2004	Kabog				common	anywhere
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	places with trees, Mangrove area
	2004	Ibid	Salamander			not common	places with trees, rivers
	2004	Tingalong				not common	places with trees, Mangrove areas
	2004	Halo (hawo)	Monitor Lizard			not common	places with trees, Mangrove areas

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Baksan	Reticulated Python			not common	anywhere
Carmen	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
Catigbian	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	Extinct	Forest
Clarín	2004	Kabog				common	Forest
	2004	Ibid	Salamander			rare	Forest
	2004	Bitin (halas, aras)	Snake			rare	Forest / Caves
	2004	Hawo (halo)	Monitor Lizard			rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Maral				rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest
Corella	2004	Kwaknit				common	Caves
	2004	Kabog				common	anywhere
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	not common	Forest
	2004	Ibid	Salamander			common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	common	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest
Cortes	2004	Iwon (iyon, ba'o)	Turtle, tortoise, terapin			not common	Caves
	2004	Ibid	Salamander			common	Caves
	2004	Halas (Bitin, aras)	Snake			common	Caves
	2004	Tako				common	Coconut trees
	2004	Hambobokad	Flying Lizard			not common	anywhere
	2004	Hawo (halo)	Monitor Lizard			common	Caves / Rice fields
	2004	Baksan	Reticulated Python			common	Caves
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	not common	Forest
	2004	Mag-o (maomag)	Tarsier	Philippine tarsier	Tarsius syrichta	not common	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	not common	Forest
Dagohoy	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	extinct	Forest
	2004	Aras (bitin, halas)	Snake			common	anywhere
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Iwon (iyon, ba'o)	Turtle, tortoise, terapin			rare	Rivers
Danao	2004	Ibid	Salamander				
	2004	Hambobokad	Flying Lizard			common	forest, river, creek
	2004	Halo (hawo)	Monitor Lizard			common	river, creek, forest
	2004	Bungaran	Big bat	Golden-crowned flying fox	Acerodon jubatus	common	forest, coconut plantation
	2004	Boot	Squirrel	Philippine pygmy squirrel	Exilisciurus concinnus	extinct	
	2004	Binaw (usa)	Deer			extinct	
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			common	river, creek, wallows
	2004	Banakon	Philippine Cobra			common	forest, riversides, creeks
	2004	Baksan	Reticulated Python			common	forest, riversides, creeks
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	extinct	
	2004	Aras (bitin, halas)	Snake			common	rivers, creeks, meadows, forest
	2004	Agwason	Spider			common	meadows, corn field, coconut plantations
Davis	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	
Duero	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Kasile	Freshwater eel			rare	River, Creek
	2004	Baksan	Reticulated Python			rare	Forest
	2004	Halo (hawo)	Monitor Lizard			rare	Forest
	2004	Ibid	Salamander			rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Tingawong (finsawong)	Malay civet	Malay civet (tangkalung)	Viverra zangalla	rare	Forest
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
Garcia - Hernandez	2004	Halas	Snake			not common	Forest
	2004	Baksan	Reticulated Python			not common	Forest
	2004	Ibid	Salamander			not common	Forest
	2004	Manok ihas				not common	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	not common	Forest
	2004	Tingawong (finsawong)	Malay civet	Malay civet (tangkalung)	Viverra zangalla	not common	Forest
	2004	Hawo (halo)	Monitor Lizard			not common	Forest

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	not common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	Forest
	2004	Kabog				rare	Forest, places with trees
Getafe							
	2004	Hambobokad	Flying Lizard			rare	Farmlands
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	extinct	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Halo (hawo)	Monitor Lizard			rare	Forest
	2004	Tingawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	rare	Forest, Farmlands
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Baksan	Reticulated Python			common	Farmlands
Guindulman	2004	Kwaknit				common	Caves
	2004	Kabog				common	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest / Caves
	2004	Usa (binaw)	Deer			extinct	Forest / Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
	2004	Hambobokad	Flying Lizard			rare	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest / Rivers / Valleys
	2004	Ibid	Salamander			common	Forest / Rivers
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Tingawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	rare	Rivers / Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Rivers / Forest
Inabanga	2004	Hantik				common	Places with trees
	2004	Tingawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Ibid	Salamander			rare	Forest
	2004	Hawo (halo)	Monitor Lizard			rare	Forest
	2004	Tiki	Gecko			common	Houses
	2004	Tagnok				not common	anywhere
	2004	Limatok				common	
	2004	Su-ong				not common	Ricefields
	2004	Wati				common	Farmlands
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			not common	
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	not common	Forest

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Baki				common	Rivers / Farmlands
	2004	Taglangit				common	anywhere
	2004	Hanolokay				not common	Forest / Farmlands
	2004	Odto-odto				not common	Forest
	2004	Ogahipon				not common	Forest / Farmlands
	2004	Baksan	Reticulated Python			not common	Forest / Farmlands
Jagna	2004	Balitok				rare	Forest / anywhere
	2004	Baksan	Reticulated Python			common	anywhere
	2004	Udto Has				common	anywhere
	2004	Binukot				common	anywhere
	2004	Iliw				rare	Forest
	2004	Dahon-dahon				common	Farmlands / anywhere
	2004	Hanlulukay				not common	Forest / anywhere
	2004	Tiki	Gecko			common	anywhere
	2004	Hambobokad	Flying Lizard			common	Forest / anywhere
	2004	Alimatok				common	Farmlands
	2004	Gangis				common	Farmlands / anywhere
	2004	Ibid	Salamander			common	Forest / anywhere
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	common	Forest / anywhere
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	Farmlands, Caves / anywhere
	2004	Manhak				rare	anywhere
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Hawo (halo)	Monitor Lizard			common	anywhere
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	common	Forest / anywhere
	2004	Ugahipon				common	Forest / anywhere
	2004	Banakon	Philippine Cobra			not common	Forest / anywhere
Lila	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Kwaknit / Kabog				rare	
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	rare	places with bamboos
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
Loay	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	anywhere
	2004	Hawo (halo)	Monitor Lizard			common	anywhere

Municipality	Date	Local Name	Common Name	English Name	Scientific Name	Current Status	Location
	2004	Aras (bitin, halas)	Snake			common	anywhere
Loboc	2004	Lizard					
	2004	Snake					
	2004	Frog					
	2004	Bats					
	2004	Phil. Monkey					
	2004	Grey Squirrel					
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis		
	2004	Civet Cat					
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans		
Loon	2004	Mag-o (maomag)	Tarsier	Philippine tarsier	Tarsius syrichta		
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	not common	Forest
	2004	Tinggalong				rare	Caves
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Ibid	Salamander			not common	Forest
	2004	Hawo (halo)	Monitor Lizard			not common	Forest
	2004	Mag-o (maomag)	Tarsier	Philippine tarsier	Tarsius syrichta		
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Caves
Mabini	2004	Halas	Snake			not common	Forest
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest, places with bamboos
	2004	Hambobokad	Flying Lizard			not common	places with coconut trees
	2004	Mag-o (maomag)	Tarsier	Philippine tarsier	Tarsius syrichta	not common	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	Extinct	
	2004	Ibid	Salamander			common	Mangrove area, Forest
	2004	Hawo (halo)	Monitor Lizard			common	Mangrove area, Forest
	2004	Baksan	Reticulated Python			common	anywhere
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	Forest
	2004	Tingawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zibetha	common	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest
	2004	Kabog					Mangrove area, Caves
	2004	Kwaknit					Caves
Maribojoc	2004	Baksan	Reticulated Python			common	anywhere
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	extinct	
	2004	Toko				common	anywhere
	2004	Ibid	Salamander			common	riverside
	2004	Madan				common	valleys
	2004	Tingawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zibetha	common	anywhere
	2004	Hawo (halo)	Monitor Lizard			rare	Caves, anywhere

Municipality	Date	Local name	Common name	English name	Scientific name	Current status	Location
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
Panglao	2004	Yellow snake				not common	Caves
	2004	Kabog				common	anywhere
Pilar	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	common	Forest
	2004	Hawo (halo)	Monitor Lizard			rare	anywhere
	2004	Baksan	Reticulated Python			not common	Caves
Sagbayan	2004	Hambobokad	Flying Lizard			extinct	Forest
	2004	Udto-udto				common	anywhere
	2004	Agohipon				common	anywhere
	2004	Maral				rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	rare	Forest
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	extinct	Forest
	2004	Baksan	Reticulated Python			common	Caves
	2004	Kwaknit				common	Forest
	2004	Kabog				common	Farmlands
	2004	Ibid	Salamander			rare	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	extinct	Forest
San Isidro	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest
	2004	Ibid	Salamander			common	Forest
	2004	Hawo (halo)	Monitor Lizard			common	Forest
	2004	Miklaw				common	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tantalung)	Viverra zangalunga	common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	Forest
	2004	Mamag				not common	Forest
	2004	Aras (bitin, halas)	Snake			common	anywhere
San Miguel	2004	Halo-an				not common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	not common	Forest
	2004	Aras (bitin, halas)	Snake			not common	Forest

Municipality	Date	Local name	Common name	English name	Scientific name	Current status	Location
Sevilla	2004	Tiki	Gecko			common	anywhere
	2004	Hambobokag				common	Forest
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest
	2004	Baksan	Reticulated Python			common	Forest
	2004	Tabili	Tree skink			common	anywhere
	2004	Ibid	Salamander			common	anywhere
	2004	Hawo (halo)	Monitor Lizard			common	anywhere
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	common	anywhere
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	anywhere
Sierra Bullones	2004	Kabog				common	anywhere
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	common	anywhere
	2004	Baboy-ihalas	Wild pig, wild hog	Philippine warty pig	Sus philippensis	rare	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Banakon	Philippine Cobra			not common	Caves
	2004	Odto-odto				common	anywhere
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Tabili	Tree skink			common	anywhere
	2004	Hambobokag				not common	Forest
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			not common	anywhere
	2004	Baksan	Reticulated Python			not common	anywhere
	2004	Ibid	Salamander			common	Forest
	2004	Halo (hawo)	Monitor Lizard			common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	common	anywhere
Sikatuna	2004	Agwason	Spider			not common	Forest, Farmlands
	2004	Ligwan				rare	Forest, Farmlands
	2004	Pikot				rare	anywhere
	2004	Tanga	Scorpion			not common	anywhere
	2004	Uhipon	Centipede			not common	anywhere
	2004	Aras (bitin, halas)	Snake			common	anywhere
	2004	Unggoy (onggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Tambusan-on				common	Forest, Farmlands
	2004	Ibid	Salamander			rare	Forest, Farmlands
	2004	Halo (hawo)	Monitor Lizard			rare	Forest, Farmlands
Talibon	2004	Alimatok				extinct	Farmlands

Municipality	Date	Local name	Common name	English name	Scientific name	Current status	Location
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Buaya				extinct	Mangrove area
	2004	Hawo (halo)	Monitor Lizard			rare	anywhere
	2004	Ibid	Salamander			extinct	Farmlands
Trinidad	2004	Kwaknit				common	Caves
	2004	Tabili	Tree skink			common	anywhere
	2004	Aras (bitin, halas)	Snake			common	anywhere
	2004	Baksan	Reticulated Python			common	anywhere, caves
	2004	Hawo (halo)	Monitor Lizard			common	open space
Tubigon	2004	Hambobokad	Flying Lizard			rare	places with trees
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			rare	Lakes
	2004	Baksan	Reticulated Python			rare	places with trees, Forest
	2004	Hawo (halo)	Monitor Lizard			common	places with trees, Forest
	2004	Ibid	Salamander			not common	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
Ubay	2004	Iwon (iyon, ba'o)	Turtle, tortoise, terapin			rare	Rivers
	2004	Udtohan				common	anywhere
	2004	Ugahipon				common	anywhere
	2004	Banakon	Philippine Cobra			not common	Forest
	2004	Ibid	Salamander			not common	Forest
	2004	Tabili	Tree skink			common	Mangrove area, Forest
	2004	Hawo (halo)	Monitor Lizard			rare	Forest
	2004	Baksan	Reticulated Python			not common	Forest
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	rare	Forest
	2004	Tinggawong (tinsawong)	Malay civet	Malay civet (tangkalung)	Viverra tangalunga	not common	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
Ubay	2004	Kabog				not common	Caves
Valencia	2004	Tabili	Tree skink			common	Forest, Farmlands
	2004	Kwaknit				common	Caves, Church
	2004	Kabog				common	Forest, Farmlands, Caves

Municipality	Date	Local name	Common name	English name	Scientific name	Current status	Location
	2004	Onggoy (unggoy)	Macaque	Long-tailed macaque	Macaca fascicularis	common	Forest, Farmlands
	2004	Maomag (mag-o)	Tarsier	Philippine tarsier	Tarsius syrichta	rare	Forest
	2004	Milo	Palm Civet	Common palm civet	Paradoxurus hermaphroditus	rare	Forest
	2004	Kagwang	Flying Lemur	Philippine flying lemur	Cynocephalus volans	rare	Forest
	2004	Halo (hawo)	Monitor Lizard			rare	Forest, Caves
	2004	Ibid	Salamander			rare	Forest, Caves
	2004	Kasili				rare	Rivers
	2004	Bitin (halas, aras)	Snake			rare	Forest, Caves
	2004	Ba'o (iwon, iyon)	Turtle, tortoise, terapin			rare	Caves, Rivers

Table I-A.7 Major Mineral, Metallic and Non Metallic Deposit of Bohol, May 2005

Municipality	Type of Mineral/Metal/ Non-metal
1. Anda 2. Baclayon 3. Balilihan 4. Batuan 5. Bilar 6. Buenavista 7. Candijay 8. Carmen 9. Catigbian 10. Corella 11. Dagohoy 12. Danao 13. Dimiao 14. Duero 15. Garcia-Hernandez 16. Guidulman 17. Jagna 18. Jetafe 19. Lila 20. Loay 21. Loboc 22. Loon 23. Mabini 24. Maribojoc 25. Pilar 26. San Isidro 27. San Miguel 28. Sevilla 29. Sikatuna 30. Talibon 31. Trinidad 32. Valencia	Manganese, limestone Guano, Limestone Guano, Limestone Guano Guano Gold, silver Manganese, Limestone, Guano Limestone, Manganese Limestone, Guano Guano Manganese, copper, guano Copper Silica, Limestone Chromite Limestone Manganese Limestone, chromite Silica, gold, silver Limestone Limestone Limestone, guano Limestone, silica Guano, diorite Limestone Guano Phosphate Copper Guano Guano Copper, silica Copper Silica

Source: Bureau of Mines and Geo-Sciences, Cebu City

Table I-A.8a Non-Metallic Mineral Deposits of Bohol, May 2005

Non-Metallic Minerals	Unit	Quantity
Sand, gravel and earth	cu. m	100,745
Stones, cobbles, Boulders	cu. m	10,900
Coral Rocks	cu. m	5,500
Clay for Ceramics	pcs	52,390
Clay for Pottery	pcs	20,805
Guano	m.t.	1,512
Agricultural Limestone	m.t.	300
Lime from seashells	m.t.	175
Marble	m.t.	1,176
Phosphate Rock	m.t.	690

Source: Bureau of Mines and Geo-Sciences, Cebu City

Table I-A.8b Ore Reserves in the Province of Bohol, May 2005

Ore	Site	Reserve
Manganese Siliceous Clay	Guidulman and Anda Catigbian, Buenavista	120,000 MT (Mn-20%) 36.47 million MT (SiO ₂ -73.55%) (Al ₂ O ₃ -16.46%) (Al ₂ O ₃ -2.40%) (Fe ₂ O ₃ -2.40%)
Red Burning Clay	Jagna, Valencia, Albuquerque, Calape, Tubigon & Talibon	20,875 MT
Limestone for Industrial Use	Garcia Hernandez (Phil. Sinter Corp)	18,400,000 MT
Silica Sand	Ubay, Talibon, Bien Unido, Jetafe & Buenavista	6,912,750 MT
Aggregates	Tubigon River, Ubuja, Tubigon	150 cu m
Cement Raw Materials	Tubod Monte, Jagna	108,000,000,000MT Limestone 14,000,000 (shale and sandstone)

Source: Bureau of Mines and Geo-Sciences, Cebu City

Table I-A.9 Landslides/Subsidence/Slope Failure Incidences in Bohol (As of May 2005)

Location	Date Occurred/Area Affected	Local Geology/Remarks
DWRP – Duero Angilan River	July 1997 (50 has.) Started in the 70's-reinvestigated in July 1997	Landslide, rockfall, wedge failure Southeast Bohol Ophiolite Complex (SEBOC): Massive and layered gabbro/microgabbro, sheeted diabase dike/sill complex and pillow lavas, overlain by sediments. Serpentine breccia (mélange) exhibits coarse and loose matrix supporting pebble – to boulder-sized angular to sub-angular clasts of serpentinized peridotite.
Panglao Island	Geohazard assessment is part of the KRA/targets of MGB-7	Collapsed cavern/ground collapse of subsidence Maribojoc limestone: poorly bedded, cream to buff to brownish- yellow in color, marly, rubbly and highly coralline. Caverns were found in Bgrys. Tinago, Dao, Canlongon, Biking, Cataman, Mayacabac, Totolan and Bingag. A depression (collapsed cave roof) approximately 2,000 sq.m. wide was noted in Bgy Bingag.
Tagbilaran- Guidulaman Road	November 22, 1998 (20 has)	Debris/rock fall Boctol Serpentine: highly fractured and brecciated, overlain by Carmen Formation: shale, sandstone, slabby to clastic limestone beds, conglomerate, siltstone, mudstone, marl and tuffaceous shale interbeds. Unconformably overlying these formations is the Sierra Bullones Limestone: fossiliferous, massive to marly with abundant solutional cavities. 30 families were evacuated.
Candabong , Anda		Collapse of the sinkhole Sierra Bullones Limestone: fossiliferous, massive to marly with abundant solutional cavities. Earthquake-related.
Candasag, Loboc	November 2001	Landslide; rotational slip, area underlain by beds of mudstone, siltstone, sandstone and shale
Calabacita, Canjulao, Malbog all in Jagna		Landslide

Source: Mines and Geosciences Bureau – DENR Region 7, Cebu City; May 2005.

Table I-A.10 Flood Prone Areas in Bohol (As of May 2005)

Municipality	Affected Barangays	River System
1. Loboc	Vallaloid, Canlasid, Villaflor, Jimilian, Pobalacion, Sawang, Agape, Gotozon, Ugpong, Camaya-an, Undal, Alegria	Loboc River
2. Guindulman	Tabajan, Trinidad, Poblacion, Cambarong/ Cahaway, Casbo	Tabajan River Cambarong River
3. Candijay	Tugas	Sapang River
4. Jagna	Alejawan, Cambagason, Cabungahan, Naatang, Poblacion, Pagina	Pagina I & II Rivers
5. Valencia	Poblacion and NW lying area	Panangatan River
6. Loboc –Loay	Villampia	Loboc River
7. Inabanga	Undol	Inabanga River
8. Dagohoy		
9. Trinidad		
10. Maribojoc		
11. Garcia-Hernandez	Poblacion	Ipil River
12. Ubay	Poblacion	Coastal area /beside mouth

Source: Mines and Geosciences Bureau – DENR Region 7, Cebu City; May 2005

Table I-A.11 Total Population and Growth Rate, Number of Households and Average HH Size and Population Density, Prov. of Bohol; May 2000 Census

City/Municipality	Total Population	Annual Growth Rate (%)	Sex Ratio	Household Population	Number of Households	Average Household Size	Land Area (in sq.kms)	Pop. Density (per sq.km)
Philippines	76,498,735	2.36%		76,281,779	15,271,290	5	300,000	255
Central Visayas(Reg. 7)	5,701,064	2.79%		5,680,948	1,129,062	5	14,951	381
Bohol	1,137,268	2.92**	101.74	1,134,733	209,590	5	4,117.26	276
1 Alburquerque	8,715	2.43	99.49	8,710	1,670	5	28.65	304
2 Alicia	21,605	2.15	102.44	21,579	4,065	5	114.50	189
3 Anda	17,863	1.44	98.36	17,859	3,072	6	61.10	292
4 Antequera	13,758	2.65	101.08	13,709	2,801	5	82.05	168
5 Baclayon	14,996	3.21	99.79	14,996	2,978	5	34.02	441
6 Balilihan	16,837	1.48	101.96	16,829	3,101	5	150.22	112
7 Batuan	11,835	0.15	103.24	11,828	2,287	5	78.15	151
8 Bien Unido	22,176	1.61	101.58	22,176	3,984	6	44.82	495
9 Bilar	16,628	0.71	103.87	16,609	2,967	6	133.15	125
10 Buenavista	25,960	1.40	103.78	25,954	4,550	6	87.30	297
11 Calape	27,921	1.39	100.44	27,906	5,588	5	76.15	367
12 Candijay	30,389	1.73	95.10	30,096	5,420	6	86.87	350
13 Carmen	40,713	2.03	105.04	40,601	7,379	6	248.04	164
14 Catigbian	21,461	1.47	102.59	21,445	4,094	5	78.48	273
15 Clarin	18,040	2.39	103.12	18,030	3,575	5	62.79	287
16 Corella	6,048	1.71	101.43	6,048	1,263	5	30.33	199
17 Cortes	12,702	2.71	97.49	12,699	2,547	5	43.77	290
18 Dagohoy	16,845	3.68	104.40	16,845	3,095	5	91.01	185
19 Danao	17,265	2.90	102.16	17,264	2,958	6	97.86	176
20 Dauis	26,415	1.90	100.53	26,415	2,669	10	42.88	616
21 Dimiao	14,151	2.68	102.34	14,129	2,708	5	77.13	183
22 Duero	16,485	2.89	102.95	16,484	3,245	5	88.90	185
23 Garcia-Hernandez	21,428	0.07	101.75	21,392	3,989	5	116.84	183
24 Guindulman	29,166	1.58	102.03	29,124	5,573	5	117.70	248
25 Inabanga	40,714	0.33	100.32	40,681	7,867	5	131.66	309
26 Jagna	30,643	0.84	102.12	30,619	5,957	5	120.63	254

City/Municipality	Total Population	Annual Growth Rate (%)	Sex Ratio	Household Population	Number of Households	Average Household Size	Land Area (in sq.kms)	Pop. Density (per sq.km)
27 Jetafe	26,826	2.21	103.98	26,756	4,694	6	99.80	269
28 Lila	10,322	2.74	99.72	10,315	1,723	6	36.40	284
29 Loay	14,433	1.58	99.12	14,430	2,615	6	34.79	415
30 Loboc	15,734	1.61	101.05	15,622	2,738	6	85.41	184
31 Loon	45,215	3.30	98.91	45,171	7,915	6	119.75	378
32 Mabini	27,250	3.10	105.61	26,642	5,047	5	64.55	422
33 Maribojoc	16,786	1.49	97.00	16,786	2,630	6	51.92	323
34 Panglao	21,337	3.32	100.32	21,299	3,890	5	55.37	385
35 Pilar	25,095	3.14	101.53	25,087	4,489	6	62.48	402
36 Pres. Carlos Garcia	20,744	1.63	105.04	20,742	4,062	5	65.28	318
37 Sagbayan	18,346	2.16	102.67	18,309	3,688	5	96.75	190
38 San Isidro	9,106	1.78	99.80	9,094	1,848	5	41.04	222
39 San Miguel	20,828	2.97	103.45	20,816	3,738	6	91.56	227
40 Sevilla	10,281	2.81	108.43	10,272	1,840	6	64.86	159
41 Sierra Bullones	25,499	2.15	104.38	25,488	4,473	6	109.75	232
42 Sikatuna	6,602	1.83	106.20	6,602	1,177	6	26.75	247
43 Tagbilaran City	77,700	3.22	93.17	77,181	15,585	5	30.61	2,538
44 Talibon	54,147	2.81	101.64	53,992	9,712	6	177.04	306
45 Trinidad	25,683	1.97	101.79	25,679	4,707	5	94.27	272
46 Tubigon	40,385	1.69	99.73	40,352	7,714	5	75.56	534
47 Ubay	59,827	1.89	103.23	59,751	11,511	5	207.55	288
48 Valencia	24,363	1.62	104.44	24,320	4,392	6	100.77	242

* Total population includes institutional population

** Actual 1995-2000 Growth Rate; the Population Growth Rate is 1.83% for Bohol Province

1 Based on Preliminary Results (Quick Count) of Census 2000 conducted by NSO

2 Renamed barangay to Conception from Banlas under Sangguniang Panlalawigan Resolution No. 79; ratified 22 March/91

SOURCE : Census of Population & Housing, National Statistics Office (NSO), 01 May 2000

Table I-A.12 Projected Population by Age Group, Bohol Province, CY 2000 – 2020

Age Group	Census 2000 Pop. (Actual)	2005	2010	2015	2020
Bohol	1,137,268	1,262,339	1,403,638	1,563,472	1,744,490
0-4	133,085	147,721	164,256	182,960	204,143
5-9	138,319	153,530	170,715	190,155	212,171
10-14	135,507	150,409	167,246	186,290	207,859
15-19	118,559	131,597	146,328	162,990	181,861
20-24	100,342	111,377	123,844	137,946	153,917
25-29	84,659	93,970	104,488	116,386	129,862
30-34	74,806	83,032	92,326	102,840	114,747
35-39	66,334	73,629	81,871	91,194	101,752
40-44	57,382	63,693	70,822	78,887	88,020
45-49	46,559	51,679	57,464	64,007	71,418
50-54	40,827	45,317	50,390	56,128	62,626
55-59	37,505	41,629	46,289	51,560	57,529
60-64	32,298	35,850	39,863	44,402	49,543
65-69	25,005	27,755	30,862	34,376	38,356
70-74	19,293	21,415	23,812	26,524	29,595
75-79	13,583	15,077	16,764	18,673	20,835
80 +	13,205	14,658	16,298	18,154	20,256

Source : National Statistics Office (NSO)

Table I-A.13 Ten (10) Leading Causes of Morbidity, Number and Rate Per 100,000 Population in 2004 Compared to the Past 5-Years Average (1999 – 2003), Province of Bohol

Causes	2004		5 year Average (1999 - 2003)	
	Number	Rate	Number	Rate
1. Diarrhea / AGE	25,310	2,066.63	25,360	2,348.24
2. ARI / No Pneumonia	19,582	1,598.92	20,843	1,929.98
3. Influenza	15,402	1,257.61	11,610	1,075.04
4. Bronchitis	14,028	1,145.42	14,746	1,365.42
5. Pneumonia	13,257	1,082.47	11,262	1,042.82
6. Hypertension	7,540	615.66	6,673	617.89
7. Skin Diseases	3,133	255.82	2,718	251.68
8. Fibrile Fever	2,949	240.79	39	3.61
9. TB Pulmonary/Resp.	981	80.10	900	83.34
10. Systemic Viral Infection	893	72.92	934	86.48

Source: Provincial Health Office (PHO)

Table I-A.14 Financial Cost & Return Analysis Per Hectare for Irrigated and Rainfed Rice Production (May-September 2004), Province of Bohol

Item	Unit of Measure	Unit Cost (P)	Irrigated		Rainfed	
			No./Qty	Value (P)	No./Qty	Value (P)
I. Production Cost						
A. Labor						
1. Land preparation						
- Plowing	mad	250	4	1,000	4	1,000
-1st Harrowing	mad	250	3	75	3	750
-2 nd Harrowing	mad	250	2	500	2	500
-3 rd Harrowing/ leveling	mad	250	2	500	2	500
2. Seedbed Preparation						
3. Transplanting/replanting	md	120	20	2,400	20	2,400
4. Crop Maintenance						
- Spraying	md	120	3	360	3	360
-Fertilizer Application	md	120	2	240	2	240
- Weeding	md	120	10	1,200	12	1,440
B. Materials/Inputs						
1. Seeds	kg	13	50	650	50	650
2. Fertilizer						
- Urea (45-0-0)	bag	600	2	1,200	2	1,200
- Complete (14-14-14)	bag	700	6	4,200	4	2,800
3. Chemicals						
- Herbicide	qtz	850	1	850	1	850
- Insecticide	qtz	650	2	1,300	2	1,300
- Molluscide	qtz	1,200	1	1,200		
4. Container/Sack	piece	5	100	500	85	425
C. Harvesting/Post						
Harvest Operation						
1. Harvesting & Threshing	cav.	10	10	1,000	85	850
2. Bagging, Hauling & Loading	cav.	10	100	1,000	85	850
Total Production Cost				18,970		16,235
Sales	kg	10	3,180	31,800	1,810	18,100
Net Return				12,830		1,865

Table I-A.15 Financial Cost and Return Analysis Per Hectare for Hybrid Yellow Corn and OPV-White (April-September 2004 Cropping); Province of Bohol

Item	Unit of Measure	Unit Cost (Php)	Hybrid Corn		OPV-White	
			No/Qty	Value (Php)	No/Qty	Value (Php)
I. Production Cost						
A. Labor						
1. Land Preparation						
- Brushing /Clearing	mad	150.00	6	900	6	900
- Plowing	md	1,500.00	1	1,500	1	1,500
- 1st and 2 nd harrowing	md	1,500.00	2	3,000	2	3,000
- Furrowing	mad	150.00	2	300	2	300
- Planting	mad	100.00	12	1,200	12	1,200
2. Crop Maintenance						
- 1st Fertilizer Application	md	100.00	2	200	2	200
- 1st Weeding (line weeding)	md	100.00	5	500	5	500
- Offbaring	md	150.00	2	300	2	300
- 2 nd Fertilizer Application(sidedress)	md	150.00	2	300	2	300
- Hilling up	md	150.00	2	300	2	300
- Pesticide Application	md	100.00	4	400	4	400
- 2 nd Weeding	md	100.00	10	1,000	10	1,000
B. Materials/Inputs						
1. Seeds	bag	2,500.00	1	2,500	1@ 520	520
2. Fertilizers						
- 18-46-0	bag	900.00	3	2,700	3	2,700
- 46-0-0	bag	678.00	3	2,034	3	2,034
- 0-0-60	bag	680.00	2	1,360	2	1,360
3. Insecticide (Furadan)	qtz	558.00	2	1,116	2	1,116
4. Container/Sack	piece	5.00	50	250	50	250
C. Harvesting/Post Harvest Operation						
1. Harvesting, Husking & Hauling	md	100.00	15	1,500	15	1,500
2. Shelling	kl	0.40	5,000	2,000	3,000	1,200
3. Drying/Cleaning/Packing	bag	10.00	100	1,000	60	600
D. Miscellaneous (10% of A+B+C)				2,436		1,983
Sub Total				26,796		21,813
Return/Sales	kg	9.00	5,000	45,000	3,000 x 10	30,000
Net Return				18,204		8,187

Table I-A.16 Financial Cost and Return Analysis Per Hectare for Eggplant Production, CY 2004 (Based from the PRRA Survey, Calape, Bohol)

A. Material Inputs					
Particulars	Quantity	Unit		Cost/Unit	Total Cost
				(P)	(P)
1. Seeds	0.3	kg.		1,000	300
2. Fertilizers					0
18-46-0	4	bags		800	3,200
0-0-60	2	bags		800	1,600
					0
3. Chemicals					0
Hercules	3	liters		650	1,950
Benlate	4	packs		120	480
Sub-total					7,530
B. Labor Inputs					
Activity	Family Labor	Hired	Total	Unit Cost	Total Cost
	(mad/md)	(mad/md)	(mad/md)	(P)	(P)
1. Seedbed prep., sowing, maintenance	6		6	120	720
2. Land preparation					0
Plowing 1	3	2	5	250	1,250
Plowing 2	2	2	4	250	1,000
Furrowing	2		2	120	240
3. Transplanting/Basal fert.	10		10	120	1,200
4. Fertilization	4		4	120	480
5. Irrigation	4		4	120	480
6. Cultivation/Weeding	8	8	16	120	1,920
7. Pest & Disease Cont	6		6	120	720
8. Harvesting/Hauling	8	6	14	120	1,680
Sub-total					9,690
Total Cost of Production					17,220
D. Income					
	Quantity		Unit Price		Total Value
					(P)
Gross Income	1,500	Kilograms	15.00		22,500
Net Income					5,280

Table I-A.17 Financial Cost and Return Analysis Per Hectare of Cabbage Production, CY 2004 (Based from PRRA Survey, Duero, Bohol)

A. Material Inputs					
Items	Quantity	Unit	Cost/Unit	Total Cost	
1. Seeds	500	grams		500.00	
2. Fertilizer (14-14-14)	4	bag	750	3,000.00	
45-0-0	2	bag	750	1,500.00	
3. Insecticide					
Sub-total				5,000.00	
B. Labor Inputs					
Activity	Family Labor	Hired Labor	Total	Unit Cost	Total Cost
	(mad/md)	(mad/md)	(mad/md)	(P)	(P)
1. Seedbed prep., sowing & maintenance	5		5	120	600
2. Land preparation					
Clearing/Cultivation	10		10	120	1,200
3. Transplanting	10	5	15	120	1,800
4. Fertilization	8		8	120	960
5. Irrigation	8		8	120	960
6. Cultivation/Weeding	10	10	20	120	2,400
7. Pest Control (mechanical)	5		5	120	600
8. Hilling-up	5		5	120	600
9. Harvesting/Hauling/ Sacking/Marketing	10		10	120	1,200
Sub-Total					10,320.00
Total Cost of Production					15,320.00
Income					
	Quantity	Unit	Unit Cost (P)		Total Cost (P)
Sales	1,500	kgs.	15.00		22,500.00
Net Income					7,180.00

Table I-A.18 Financial Cost and Return Analysis Per Hectare for Full-Bearing Coconut Plantation (130 Palms), Bohol Province; CY 2004

Particular	Unit of Measure	Unit Cost	No./Qty	Value
Copra Sales	Kilogram	P16.80/kilo	35 nuts/tree/year	18,200.00
Sales of Charcoal	Kilogram	P4.00/kilo	10 nuts	1,820.00
Total Sales				20,020.00
Less: Harvesting	Per tree	P5.00/tree	130 trees	2,600.00
Gathering/Hauling	Man Days	P150/md	12 md	1,200.00
Dehusking	Per nut	P0.20/nut	4550 nuts	910.00
Spitting, Drying, Scooping	Man Days	P150/md	12 md	1,800.00
Bagging and Freight				500.00
Total Expense				7,010.00
Net Profit				13,010.00

Source : Philippine Coconut Authority (PCA)

Table I-A.19 Fruit Crops Production Trends: Area Planted, Total Production and Average Yield, Bohol Province; Years 1990-2004

Fruit Crop	Crop Years					Change (%)
	1990	1995	2000	2002	2004	
1. Mango						
Area harvested (ha)	800.00	1,300.00	2,220.00	2,220.00	2,735.00	241.88
Average yield (mt/ha)	5.78	5.16	3.83	6.22	6.00	3.81
Production (mt)	4,619.00	6,714.00	8,500.00	13,819.00	16,405.00	255.16
2. Banana						
Area Harvested (ha)	2,913.00	2,773.00	2,680.00	2,674.00	2,719.00	-6.66
Average yield (mt/ha)	9.92	10.70	10.79	10.79	11.70	17.94
Production (mt.)	28,903.00	29,661.00	35,173.00	28,027.00	31,814.00	10.07
3. Calamansi						
Area harvested	20.00	15.00	13.00	20.00	23.00	15.00
Ave. yield (mt/ha.)	4.88	4.61	6.99	4.98	5.96	22.13
Production (mt)	98.00	669.00	98.00	100.00	37.00	-62.24
4. Papaya						
Area harvested	140.00	140.00	135.00	121.00	120.00	-14.29
Ave. yield (mt/ha.)	5.62	11.39	8.48	8.30	8.15	45.02
Production (mt)	787.00	1,595.00	1,145.00	1,004.00	978.00	24.27
5. Pineapple						
Area harvested	9.00	9.00	25.00	10.00	32.00	255.56
Ave. yield (mt/ha.)	6.67	12.89	11.18	16.53	17.34	159.97
Production (mt)	60.00	116.00	279.00	463.00	555.00	825.00
6. Watermelon						
Area harvested	7.00	6.00	5.00	10.00	14.00	100.00
Ave. yield (mt/ha.)	13.29	15.50	14.12	19.25	21.38	60.87
Production (mt)	93.00	93.00	71.00	193.00	299.00	221.51
7. Lanzones						
Area harvested	3.00	3.00	3.00			-100.00
Ave. yield (mt/ha.)	2.00	1.14				-100.00
Production (mt)	3.00	3.00	3.00			-100.00

Source: Bureau of Agricultural Statistics.

Table I-A.20 Financial Cost and Return Analysis Per Hectare for Full-Bearing “Carabao” Mango Plantation (12-year old), Bohol Province; CY 2004

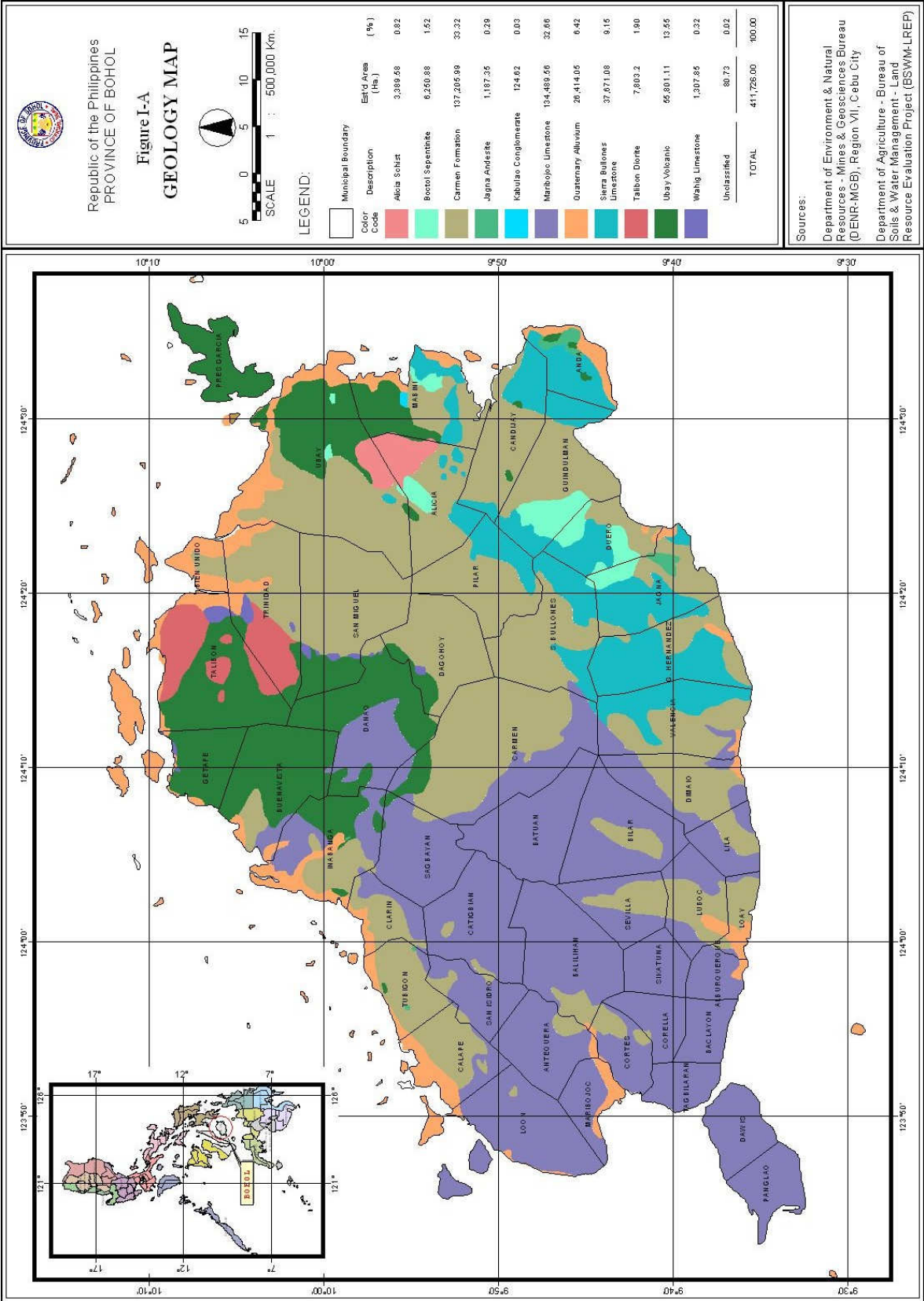
	Number	Unit	Unit Cost (₱)	Total Cost (₱)
Material Costs				
Complete Fertilizer				
14-14-14	6	bags	800	4800
Manure	20	bags	20	400
Insecticide	1	liter	2800	2,800
Fungicide	1	liter	5000	5,000
Flower inducer	100	kg.	150	15,000
Bagging Materials	1000	bag	0	150
Kaing	10	kaings	50	500
Labor Costs				
Pruning	100	trees	150	15,000
Harvesting	100	trees	150	15,000
Hauling/Packaging	4	md	150	600
Transporting	4	md	150	600
Contingency Cost	5	md	150	750
Total Cost of Production				60,600.00
Returns/Yields				
Good Mangoes	4800		18	86,400
Saleable Rejects	2400		6	14,400
Gross Return				100,800
Net Return				40,200.00

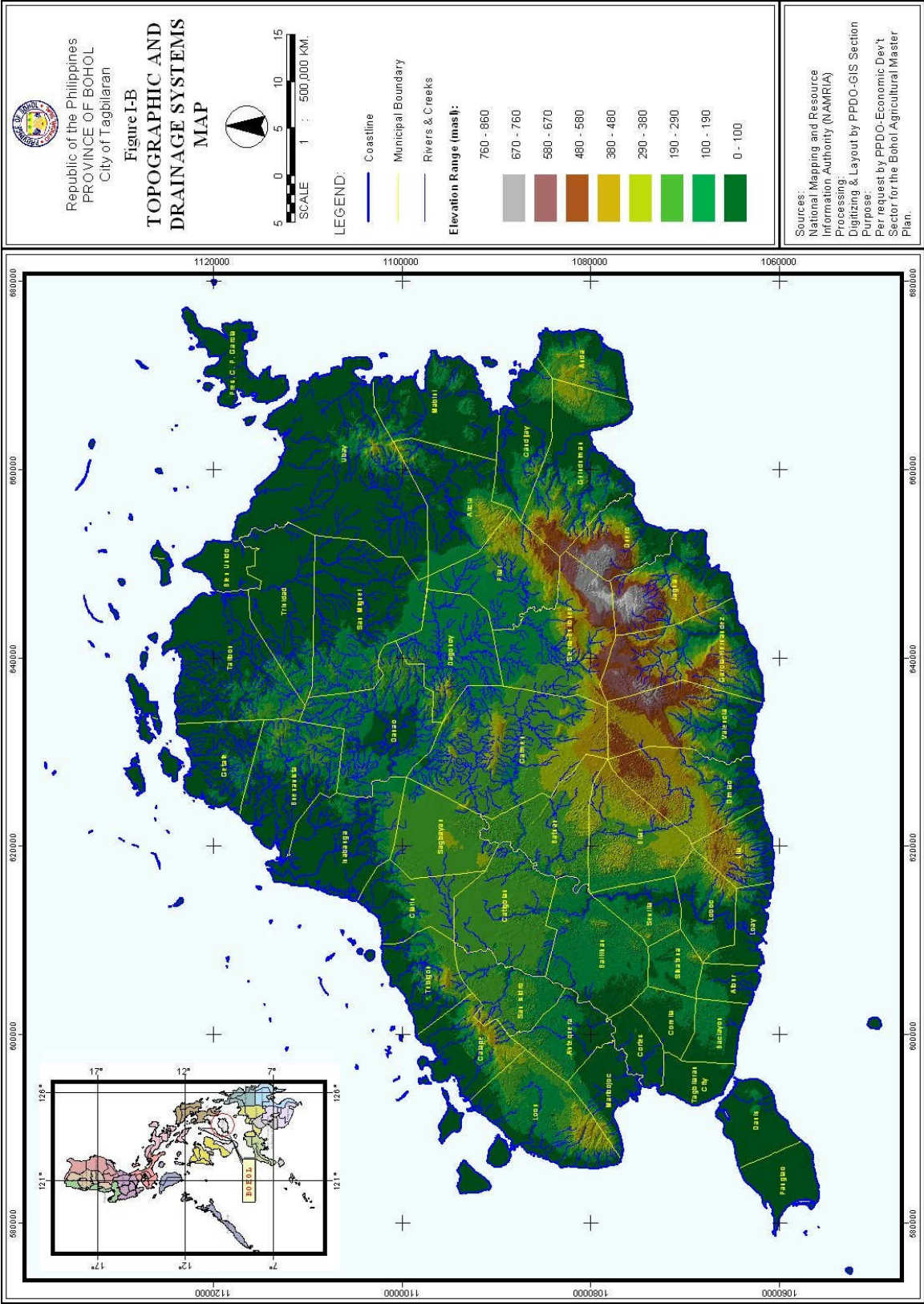
Source: Interview with a farmer during the PRA (April 2005)

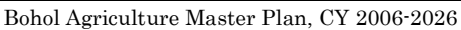
Table I-A.21 Registered Lumber and Other Forest Products Dealer (As of May 2005), Prov. of Bohol

Name of Business Establishment	Owner	Business Address
First District		
1. RVF Lumber & Construction Supply	Roy V. Fuentes	Cahayag, Tubigon
2. Tagbilaran Lumber Supply	Nemesia U	13 Ma. Clara St., Tagb. City
3. RM Hardware & Const. Supply	Raul De Vera	Poblacion, Tubigon
4. Sumampong Coco Lumber and Native Supply	Cirilo Sumampong	J.A Clarin St. Dampas, Tagb. City
5. Cogon Marketing	Catalina Adano	Pamaong St. Tagbilaran City
6. Alot's Lumber	Alberto Baguio	Ubujan Dist. Tagbilaran Cit
7. Castrodes General Merchandize	Albert M. Uy	M. Parras St. Tagb City
8. YY Builders Depot	Reginald Ong	Vissara St. Tagbilaran City
9. BNYU Enterprises and Construction	Patrick Sergio Redulla	San Roque, Baclayon
10. P. Redulla Lumber Supply	Anecito Migrño	Ubujan Dist, Tagb. City
11. ARM Lumber	Dione Hsu	M. Torralba St. Tagb. City
12. Develop Timber Structure	Restituto Tan	43 C Gallares St. Tagb City
13. Tantrade Corporation	Joseph Felisilda	Little Baguio Taloto, tagb. City
14. Joseph Felisilda Gmelina Lumber & Stick Dealer		Pob. East, Catigbian
15. Raflesha Trading and Lumber	Phileous Blanco	
Second District		
1. Carolyn Lumber Dealer	Oscar Pangalay	Fatima Ubay
2. E & T Supply	Teodorico Valleser	Cal. Garces St. Ubay
3. LK Abad Enterprises and Housing Supply	Allan Abad	Pob., Ubay
4. Pengavitor Enterprises	Vicenta Garcia	Poblacion, Trinidad
5. LAVA Marketing & Const. Supply	Choi Lai Chu vda. De Teloren	Poblacion Ubay
6. Bophil Enterprises	Florentino Flores	Poblacion Ubay
7. VC Lao Const. Supply	Vivian C. Lao	Poblacion Ubay
8. Balahay Lumber Supply	Felix Boquin	Poblacion Ubay
9. J Marie Gen Merchandise	Ma Eleanette Jumao-as	Ilau, Inabanga
10. CM Borja Enterprises	Oscar M. Borja	Poblacion, Sagbayan
Third District		
1. CBB Marketing	Jeen M Budiongan	Pob. Norte, Carmen
2. Castrodes General Merchandize	Melinda C. Licong	Tabajan Guidulman
3. Tubasis Lumber Supply	Pantoleana Tubasis	Alegria Sur, Loay
4. Sentinel Enterprises	Juanito Balanzar	Agape Loboc
5. Arcotech Gen Merchandize	Argeo Galido	Manaba Garcia Hernandez
6. Ibarra Lumber and Const.	Fe Anabelle D. Ibarra	Riverside, Bilar

Source: PENRO-DENR, Province of Bohol







PART II – ANNEXES

Table II-A.1. Cost and Return Analysis for Backyard Livestock Breeding Schemes, Province of Bohol, Year 2004

Particular	Unit of Measure	Unit Cost (₱)	Cattle		Carabao		Goat	
			Qty	Value (P)	Qty	Value (₱)	Qty	Value (₱)
I. PRODUCTION								
1 Labor	manday	150	16	2400.00	20	3,600.00	4	600.00
2 Inputs	Head		1	9,000.00	1	12,000.00	1	800.00
- stocks				260.00		300.00		100.00
- Medicines & Biologics								
- rope				300.00		400.00		60.00
- salt				250.00		150.00		0
3 Breeding/ Mating Fee	Servicing			100.00		100.00		0
- AI								
- natural								
4 Middlemen Fee/Commission				200.00		200.00		35.00
5. Miscellaneous Cost	Reg.			50.00		50.00		50.00
Total Production Cost								
II. SALES/INCOME								
- Calf/weanling				3,500.00		5,000.00		2,000.00
- cost of orig. stock+ labor				12,000.00		5,000.00		2,000.00
NET PROFIT				15,500.00		21,000.00		2,800.00

Table II-A.2. Cost and Return Analysis for a 2-Heads Hog Fattening Scheme, Bohol Condition, Years 2004-2005 (Based on PRRA Survey, April 2005).

Particular	Unit of Measure	Unit Cost (P)	Swine	
			Qty.	Value (P)
<u>I. PRODUCTION</u>				
1.1 Inputs	heads	1,000	2	
- Stocks				2,000
- Housing				500
- feeds				3,480
- drugs & biologics				100
- rope	Mandays	80	30	30
1.2 Labor				2,400
1.3 Middle men fee				100
<u>Sub-total</u>				8,610
<u>II. SALES/INCOME</u>				
- fattener	heads	4,000	2	8,000
<u>NET PROFIT</u>				-610

PART III – ANNEXES

Table III –A.1 Facilities to be Provided for the Sustainable Integrated Agribusiness Project, Bohol AMP

Item/Particular	Unit of Measure	Unit Cost (P)	Total Cost (P)						
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 1-5	Year 6-10
I. CIVIL WORKS									
A. Irrigation & Drainage Systems (refer NIA Projects)	-								
B. Small Water Impounding Project/ Concrete Diversion Dam SWIP/CDD)	Unit	3,000,000		3,000,000				3,000,000	6,000,000
C. Small Farm Reservoir (SFR)	Unit	25,000		100,000	75,000	75,000		250,000	500,000
D. Access Road/Trails									
1. Farm-to-Market Roads (refer PEO & DPWH Projects)	-								
2. Graded Farm Access Trails	Km	25,000		75,000	50,000			125,000	250,000
E. Prov'l. Nursery & Seedfarm									
1. Potting shed cum storehouse	m2	4,000		100,000	100,000			200,000	-
2. Seed storage facility (controlled envt.)	m2	6,000		150,000	150,000			300,000	300,000
3. Nursery screenhouse & germination chamber	m2	3,000		75,000	75,000			150,000	-
4. Nursery water system	LS	-		30,000	30,000			60,000	-
F. Tissue Laboratory Improvements	LS	-		-	-	-	-	-	300,000
G. Plant Genetic Resource Facility (CVSCAFT)									
1. PGR building & facilities	m2	6,000						-	600,000
2. Water supply system	LS							-	60,000
H. Sheltered HVCs Production Module									
1. Highland HVCs tunnel screenhouse and water facility	m2	5,000		1,000,000				1,000,000	-
2. Lowland HVCs screenhouse & water supply facility	m2	5,000							1,000,000
I. Post-Production Facilities									
1. Bagsakan Center & facilities	LS					300,000		300,000	300,000
2. Pilot Prod Processing Center & facilities	LS								250,000
Sub Total I			0	4,530,000	480,000	375,000	0	5,385,000	9,560,000

Item/Particular	Unit of Measure	Unit Cost (P)						Total Cost (P)	
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 1-5	Year 6-10
II. TRANSPORT AND EQUIPMENT COMMODITIES									
A. PAO- Productivity Div. cum SIAP unit									
1. Transport Equipment									
a. AUV, Pick-up type, 4WD	Unit	800,000		800,000				800,000	
b. Motorcycle, Trail type	Unit	90,000	90,000			90,000		180,000	90,000
2. Project Unit/Office Equipment									
a. Computer & accessories	Set	60,000	60,000		60,000			120,000	300,000
b. Fax machine	Unit	12,000		12,000				12,000	-
c. LCD set	Set	90,000		90,000				90,000	-
d. Duplicating/Photocopying machine	Unit	40,000							40,000
e. Camera & accessories	Set	15,000	15,000					15,000	15,000
f. AC/DC Generator, portable	Unit	30,000		30,000				30,000	-
g. File cabinet, steel/wood	Unit	4,000	4,000	4,000				8,000	8,000
h. Drafting/Illustration instruments	Set	2,000	2,000					2,000	
i. Furniture & fixtures	LS	30,000	30,000					30,000	-
j. Miscellaneous office equipment	LS	10,000	10,000					10,000	20,000
3. Applied Research/Demo Farms Eqpt.									
a. Agro-climatological station & instruments	station	150,000		150,000				150,000	-
b. Rainfall sub-stations & instruments	sub-station	50,000			50,000			50,000	100,000
c. Soils Testing kit, portable	set	5,000	5,000	5,000				10,000	20,000
d. Demo Farms/Field trials , tools	set	5,000	20,000	15,000	15,000			50,000	50,000
e. Miscellaneous field tools	LS	5,000	10,000	10,000				20,000	20,000
B. Prov'l. Nursery & Seedfarm Equipment									
1. Transport									
a. AUV, mini stake truck	Unit	600,000			600,000			600,000	600,000
b. AUV, Pick-up type, 4WD	Unit	800,000							800,000
c. Motorcycle, Prov'l. type	Unit	90,000		90,000				90,000	90,000
2. Nursery & Seedfarm Equipment									
a. Brusher, rotary type	Unit	12,000		12,000				12,000	12,000
b. Power sprayer, portable	Unit	30,000		30,000				30,000	-
c. Grains Mechanical Drier, portable	Unit	60,000			60,000			60,000	60,000
d. Refrigerator, 20 cu.ft	Unit	18,000		18,000				18,000	-

Item/Particular	Unit of Measure	Unit Cost (P)							
			Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (P)	
e. Soil Testing Kit, portable	Set	5,000	5,000					5,000	10,000
f. Standard Nursery Tools	Set	7,000	7,000					7,000	7,000
g. Misc. Field Tools & Implements	LS	5,000	5,000					5,000	5,000
3. Office/Unit Equipment									
a. Computer & accessories	Set	60,000		60,000				60,000	60,000
b. Typewriter, manual	Unit	10,000		10,000				10,000	-
c. File cabinet, steel/wood	Unit	4,000	4,000					4,000	4,000
d. Calculator, programmable	Unit	3,000	3,000					3,000	6,000
e. Karaoke, AC/DC	set	6,000	6,000					6,000	-
4. Workshop & Storehouse Equipment (Set of equipment/tools & spares)	LS	60,000		60,000				60,000	60,000
5. Generator, AC/DC, portable	Unit	30,000				30,000		30,000	-
6. Misc. Seedfarm Tools	LS	10,000	10,000					10,000	20,000
Sub Total II			75,000	460,000	725,000	30,000	0	2,587,000	2,397,000
III. ADAPTIVE RESEARCH, DEMO (MODEL FARMS & COMPONENT PROJECTS DEVT)									
A. Applied Research/Field Pilot Projects									
1. Farm Records Keeping (Farmer cooperators & project pax of technical packages)	LS		50,000	50,000	50,000	50,000	50,000	250,000	350,000
2. Pilot Projects/Enterprises Devt.									
a. Fiber Crops Prod'n. Systems - Salago, Maguey, Spanish Red pineapple etc.	LS			30,000	30,000			60,000	120,000
b. Mulberry for Silk Worm Culture	LS								50,000
c. Indigenous Rootcrops	LS			50,000				50,000	100,000
d. Other pilot projects	LS								100,000
3. Field-based & farmer-managed on-farm trials including lab analyses	LS				250,000			250,000	150,000
4. Subsidy for Applied Research for Participating LRIs & Academic Institutions (CVSCAF, APC, DA-BES etc.)	LS		30,000	30,000	30,000	30,000	30,000	150,000	300,000

Item/Particular	Unit of Measure	Unit Cost (P)						Total Cost (P)	
			Year 1	Year 2	Year 3	Year 4	Year 5	Year 1-5	Year 6-10
B. Support for Establishment & Maintenance of Demo/Model Farms and Agri-Enterprises									
1. Semi-organic Hybrid Palay Demo	Site	10,000		10,000	20,000	20,000	10,000	60,000	30,000
2. Semi-organic Rainfed Palay-Vegetable types/watermelon FS	Site	15,000	15,000	15,000	15,000	15,000		60,000	15,000
3. Corn-Vegetable types/legumes/ Rootcrops FS	Site	15,000		15,000	15,000	15,000	15,000	60,000	15,000
4. Coconut-based multistorey/Diversification FS	Site	15,000		30,000	30,000	30,000	30,000	120,000	60,000
5. Mango-based FS	Site	15,000		15,000	15,000	15,000	15,000	60,000	15,000
6. Highland HVCs FS (Open Field & Sheltered Organic Farming)	Site	10,000	10,000	10,000	10,000	10,000	10,000	50,000	50,000
7. Demo/Model of other Technology Advances	LS								50,000
C. Support for Prov'l. Nursery & Seedfarm									
1. Cost of periodic sourcing of seeds/ budwood/mother plants	LS			100,000				100,000	200,000
2. Recvurring operating & Maint. Costs	LS			50,000	100,000	100,000	50,000	300,000	300,000
D. Support for Lab Operations									
1. Tissue lab recurring costs for reagents/ glasswares/other materials	LS		30,000	30,000	30,000	30,000	30,000	150,000	300,000
2. Soils lab glasswares, reagents and other supplies	LS		30,000	30,000	30,000	30,000	30,000	150,000	150,000
E. Support for Operation & Maint. Of Agro-climatological station/sub-stations	LS			15,000	15,000	15,000	30,000	75,000	75,000
Sub Total III			165,000	480,000	640,000	360,000	300,000	1,945,000	2,330,000
IV.PROJECT PROMOTIONS									
A. Cluster Prod'n Zones Field Days (at demo/model farms & on-site research; once/year)	Field days	30,000		30,000	30,000	30,000	30,000	120,000	150,000

Item/Particular	Unit of Measure	Unit Cost (P)							
			Year 1	Year 2	Year 3	Year 4	Year 5	Total Cost (P)	
B. Support for Bohol Agric'l. & Rural Ent. Fairs (once/year starting year 2)	Fairs	50,000		50,000	50,000	50,000	50,000	200,000	250,000
C. Support for Bohol Organic Farming Advocates Techno-Sharing (once every two years)	Session	50,000			50,000		50,000	100,000	150,000
D. Bohol Farmers/POs Agribusiness Congress (Dialogue of farmers, POs, NGOs, Business/Banks, LGUs; once every two years)	Session	100,000		100,000		100,000		200,000	300,000
Sub Total IV			0	180,000	130,000	180,000	130,000	620,000	850,000
V. TRAINING AND ICE									
A. Trainings									
1. General & Specialized Trng. Courses/ Modules (Ave. 1,500 trng-days/year)	Trng-day	200	180,000	180,000	180,000	180,000	180,000	900,000	1,500,000
2. Technology Exposure Trips/Cross-Visits (Ave. 120 trip-days/year)	Trip-day	4,000		480,000	480,000	480,000	480,000	1,920,000	
B. ICE: Design & Prod'n of Farming Systems Technology Packages	LS		60,000	60,000	60,000	60,000	60,000	300,000	500,000
Sub Total V			240,000	720,000	720,000	720,000	720,000	3,120,000	2,000,000
GRAND TOTAL			480,000	6,370,000	2,695,000	1,665,000	1,150,000	13,657,000	17,137,000

Table III-A.2 Matrix of the Livestock Integration for Food and Enterprise (LIFE) Program

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
I. Ruminant Development						
a. Livestock Loan						
Carabao	Alicia, Bilar, Carmen, Pilar, Mabini, Anda, Clarin, Calape, Loon, Tubigon, Sagbayan, Dimiao, Candijay, Duero, Valencia	150 POs	Farming areas			Carabao loan will continue using repayments from loaned animals in the 1-5 years of project implementation
Cattle				Pilar, Carmen, Clarin, Calape, Loon, Tubigon, Sagbayan, Dimiao, Duero, Candijay, Valencia	150 POs	
Goat	Bien Unido, Danao, Dagohoy, CPGarcia, Buenavista, Getafe, Inabanga, Talibon, Trinidad, Ubay, Alicia, Anda, Bilar, Calape, Carmen, Loon, Clarin, Pilar, Mabini, San Miguel	100 POs				Goat loan will continue using repayments from loaned animals in the 1-5 years of project implementation
b. "Save the Herd"	Antequera, Calape, Balilihan, Catigbian, Loon, Maribojoc, Clarin, Inabanga, Ubay, Sagbayan, Alicia, Talibon, Trinidad, Batuan, Carmen, Candijay, Duero, Dimiao, Jagna, Guindulman, Loboc, Mabini, Sierra Bullones, Valencia	26 LGUs	With operational Slaughter houses	Antequera, Balilihan, Loon, Calape, Catigbian, Maribojoc, Tagbilaran, Tubigon, Bien Unido, Clarin, Inabanga, Sagbayan, San Isidro, Talibon, Trinidad, Ubay, Alicia, Batuan, Candijay, Duero, Carmen, Dimiao, G Hernandez, Guindulman, Jagna, Loay, Loboc, Mabini, Sierra Bullones, Valencia	30 mun.	With operational slaughterhouses

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
c. PO-based Livestock Mortuary Assistance System (LiMAS)	Antequera, Balilihan, Catigbian, Sikatuna, Bien Unido, CP Garcia, Buenavista, Dagohoy, Danao, Getafe, Inabanga, San Isidro, Ubay, San Miguel, Talibon, Trinidad, Batuan, Sevilla, Sierra Bullones	190 POs	Areas under LHBP where livestock mortuary is presently operational	Antequera, Balilihan, Catigbian, Sikatuna, Bien Unido, CP Garcia, Danao, Buenavista, Dagohoy, Getafe, Inabanga, San Isidro, San Miguel, Talibon, Trinidad, Ubay, Batuan, Sevilla, Sierra Bullones	190 POs	Areas under LHBP where livestock mortuary is presently operational
	Alicia, Bilar, Carmen, Pilar, Mabini, Anda, Calape, Clarin, Loon, Tubigon, Sagbayan, Dimiao, Duero, Candijay, Valencia	150 POs	Project cooperators of carabao loan	Alicia, Bilar, Carmen, Pilar, Mabini, Anda, Calape, Clarin, Loon, Tubigon, Sagbayan, Dimiao, Duero, Candijay, Valencia	300 POs	Project cooperators of cattle & carabao loan
d. Strengthening the Livestock Breeding Services - AI Centers (large animals)	Antequera, Loon, Tubigon, Danao, San Isidro, Dimiao, Loboc, Bilar	8 mun.	With good number of potential breeder base	Albur, Bacayon, Cortes, Calape, Loay, Lila, Anda	7 mun.	
- Breeder Males (Bull, carabull, buck)	Provincewide	30 POs or commodity raisers asso		Provincewide	30 POs or commodity raisers asso	
e. Dairy Development Cattle, Carabaos, Goat	Alicia, Bien Unido, Mabini, San Miguel, Trinidad, Ubay	12 POs	Proximity to dairy facilities and collection center	Carmen, Bilar, Sagbayan, Batuan, Dagohoy, Sierra Bullones	12 POs	
f. Livestock Fattening	Bien Unido, Buenavista, CP Garcia, Danao, Getafe, Ubay, Inabanga, Pilar Talibon, Trinidad,	6 POS 4 farmers	3 POS- carabao 3 POS-cattle 2 for carabaos 2 for cattle	Provincewide	entrepreneurs	Project will Continue in all Other areas

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
II. POULTRY DEVELOPMENT						
a. Strengthening the Improvement of Native Chicken	Albur, Antequera, Baclayon, Cortes Corella, Davis, Maribojoc, Panglao, Sikatuna, Tagbilaran City, San Isidro, Loay, G-Hernandez, Lila, Loboc, Guindulman, Jagna Sevilla	180 POs	Proximity to market centers	Provincewide		All other municipalities will be covered using repayment chickens from projects implemented in the first 5 years
b. Village Level Native Chicken Enterprise	Balilihan, Bilar, Sikatuna, Corella, Catigbian,	25 POs	Proximity to Market outlets			
c. Duck Production Cum Demonstration	Alicia, Carmen, Dagohoy, Pilar, San Miguel, Ubay, Maribojoc, Bilar, Batuan, Sierra Bullones, Valencia Antequera	60 POs	Sufficient source of potential duck food & presence of irrigated ricelands			
III. SWINE DEVELOPMENT						
a. Rehabilitation of Swine Breeding Centers	Calape, Antequera, Ubay, Carmen, Pilar, Jagna, Maribojoc, Duero, San Miguel, Batuan	10 ABC in 10 municipalities		Getafe, Talibon, Trinidad, Mabini Candijay, G Hernandez, Tagbilaran	7 ABCs in 7 municipalities	
b. Establishment of new Swine Breeding Centers				Tubigon, Alicia Sagbayan, San Isidro, Bien Unido, Dimiao, Loboc, Loon, Inabanga, Bilar	10 ABC in 10 municipalities	
c. Access to Post-Harvest Facilities	Tagbilaran City (ViLFC)	POs, livestock raisers, entrepreneurs		Tagbilaran City (ViLFC)	POs, Livestock raisers & entrepreneurs	

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
d. Swine Breeder Loan	Antequera, Albur, Calape, Maribojoc, Bien Unido, Getafe, Inabanga, Talibon, Trinidad, San Miguel, Ubay, Batuan, Carmen, Candijay, Duero, Dimiao, G-Hernandez, Jagna, Loon, Pilar	20 Boar for hire operators		Provincewide	Boar for hire operators	
d. Meat Processing at the backyard level	Provincewide	POs and entrepreneurs		Provincewide	POs and entrepreneurs	
IV. Exotic Farming						
a. Bee Farming	Candijay, Lila Loboc, Sevilla Maribojoc, Talibon, Bilar Inabanga	16 pilot POs	Potential apiary sites	Provincewide	POs and entrepreneurs	
b. Butterfly Ranching	Antequera, Sagbayan, Bilar, Panglao, Albur, Tagbilaran	30 POs	Agri-tourism sites	Provincewide	POs and entrepreneurs	
c. Crocodile Farming					Investors + LGU	
d. Ostrich Farming					Investors + LGU	
e. Quail Farming	Bilar, Corella	1 pilot LGU - Provl Farm 1 pilot farmer				
f. Rabbit Farming	Bilar, Tagbilaran	1 pilot Provl Farm 1 pilot farmer				
V. SUPPORT SERVICES						
I. Institutional Development						
a. Institutional Building	Provincewide	50 POs , BALAs, Commodity Raisers Asso.		Provincewide	50 POs	
b. Capability Building	Provincewide	100 Government implementers, Non-govt. sector, 47 chapters of BALA		Provincewide	100 Government implementers Non-govt. sector, 47 chapters of BALA	
c. Techno-Internship for Livestock Farmers and Entrepreneurs	Provincewide	Farmers, students, entrepreneurs		Provincewide	Farmers, students, entrepreneurs	
d. Livestock Partner's School On Air	Provincewide	Program/project partners		Provincewide	Program/project partners	

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
2. Regulatory Support						
a. Veterinary Quarantine						
- Strengthening of quarantine stations	Clarín, García Hernández, Getafe, Inabanga, Jagna, Loon, Tagbilaran City, Talibon, Tubigon, Ubay	10 ports	Ports of entry & exit where there is significant movement of people and commodities			
b. Licensing, Registration & Accreditation	Provincewide	5 Livestock-establishments 5 organized livestock stakeholders, 20 livestock handlers		Provincewide	Livestock-establishments organized livestock stakeholders, livestock handlers	
c. Meat Inspection		5 LGUs				
- Establishment of new abattoir	San Miguel, Tubigon G Hernández, Loay Talibon			Panglao, Buenavista, Bien Unido, Sevilla, Pilar	5 LGUs	
- Rehabilitation & Accreditation of existing abattoirs	Antequera, Calape, Ubay, Carmen Jagna	5 LGUs		Balilihan, Catigbian, Sagbayan, Bilal, Duero		
- accreditation of existing abattoirs to AAA ¹				Tagbilaran City	1- ViLFC	
3. Production Support						
a. Pasture and Feedgrain	Areas with ruminant projects	476 POs	Cooperators of all ruminant projects	Areas with ruminant projects	500 POs, ranchers	Cooperators of all ruminant projects

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
b. Strengthening the Localized Artificial Insemination Services						
- Licensing & accreditation of AI existing active technicians	Areas covered by AI	37 technicians		Areas covered by AI	51 technicians	
- Expansion of Service areas	Antequera, Albur, Danao, Dimiao, Loboc, Loon	6 LGUs		Tubigon, Calape, Cortes, Loay, Lila, Baclayon, San Isidro, Anda,	8 LGUs	
c. Establishment of Provincial Diagnostic Laboratory				Tagbilaran City	1- ViLFC	
d. Waste management and utilization	Tagbilaran, Calape, Batuan, Sagbayan, Panglao, Loboc	6 pilot cooperators		Province-wide	Commercial pig raisers, livestock farmers	
e. Product and by- products development				Province-wide	Livestock farmers & POs	
f. Strengthening the Operation of the Provl. livestock and Poultry Farm	Bilar	1 Farm (Provincial LGU-operated thru OPV)	Production area for chicken, goat, pigs and forage and pasture to support projects; proposed pooling area for buy-back animals under "Save the Herd"			
4. Research & Development	San Miguel, Bilar, Ubay, Corella, Loboc	5 POs	Commodity & farming systems researches	Province-wide	5 POs 5 farmers	Depending on commodity & farming systems researches
5. Credit & Financing						
- PO-based Micro-credit for livestock facilities, equipment & enterprise (Micro-LIFEE)	Alicia, Bilar, Carmen, Pilar, Mabini, Anda, Calape, Clarin, Loon, Tubigon, Sagbayan, Dimiao, Candijay, Duero, Valencia	150 POs	Carabao loan project participants	Alicia, Bilar, Carmen, Pilar, Mabini, Anda, Calape, Clarin, Loon, Tubigon, Sagbayan, Dimiao, Candijay, Duero, Valencia	200 POs	Carabao loan project participants

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
	Antequera, Balilihan, Catigbian, Sikatuna, Bien Unido, CP Garcia, Danao, Buenavista, Getafe, Inabanga, San Isidro, San Miguel, Talibon, Trinidad, Ubay, Batuan, Sevilla, SBullones	190 POs	LETS HELP BOHOL Program partners	Antequera, Balilihan, Catigbian, Sikatuna, Bien Unido, CP Garcia, Danao, Buenavista, Dagohoy, Getafe, Inabanga, San Isidro, San Miguel, Talibon, Trinidad, Ubay, Batuan, Sevilla, S-Bullones	250 POs	LETS HELP BOHOL Program partners
6. Marketing Support						
- Joint venture operation of the VILFC	Tagbilaran City	PO + LGU + Investor partnership		Tagbilaran City	PO + LGU + Investor partnership	
- Rehabilitation of existing LOMs				Catigbian, Sagbayan, Trinidad, Clarin, San Miguel	5 mun.	
- Establishment of new LOMs				Carmen, Ubay, Buenavista,	3 LGUs	
7. Other Infra-facility support						
- Establishment of Hatchery	Bilar, Pilar	1 LGU, 1 PO	Chicken & duck production areas	Antequera, Ubay	1 LGU, 1 PO	Chicken & duck production areas
- Establishment of Artificial Breeding Complex				Carmen	Livestock farmers	
- Establishment of Tannery				Tagbilaran City (VILFC)	Investor/PO	
- Establishment of feedmill				Sagbayan	1 PO-operated	

Project Components	Years 1-5 (Short Term)			Years 6-20 (Medium to Long Term)		
	Target Area	No. & Type of Beneficiaries	Remarks	Target Area	No. & Type of Beneficiaries	Remarks
8. Policy Support						
- Review of existing policies			Refer Policy Support of LIFE			
- Promulgation of new Policies						Refer Policy Support of LIFE
9. Planning, Monitoring and Evaluation						
- Establishment of Data bank	Provincewide	- 47 mun. Agricultural Offices Office - 1 City Veterinary Office				
- Establishment of Agri-network & Updating of data base				Provincewide	- 47 mun. Agricultural Offices Office - 1 City Veterinary Office	
- Recognition of Livestock farmers, Entrepreneurs and Implementers	Provincewide	Livestock farmers, entrepreneurs, implementers		Provincewide	Livestock farmers, entrepreneurs, implementers	

**Table III-A.3 Staffing Plan for the Sustainable Integrated Agribusiness Project
Management Unit/Productivity Division - PAO, Bohol AMP**

Level/Position Item	Detailed Staff		Agri-Hired Staff		Total Cost (P)	
	No.	Rate/Mo.	No.	Rate/Mo.	Years 1-5	Years 6-10
A. PAO-Productivity Div. Cum SIAP Unit						
1. Supvg. Agric./Project Officer	1	0	-	0	0	0
2. Sub-project Coordinators						
- Agric. II/Graincrops Farming Systems Coordinator	1	0	-	0	0	0
3. Specialist Staff						
- Agri-Tech/Horticulturist			1	12,000	720,000	720,000
- Agri-Tech/Soils			1	12,000	720,000	720,000
- Agri-Tech/Agroforestry			1	12,000	576,000	720,000
- Agri Tech/Ag Economics			1	12,000	576,000	720,000
4. Admin Support Staff						
- Acctg. Clerk	-	-	1	10,000	600,000	0
- Clerk/Encoder	1	0	-	0	0	0
- Driver/Messenger	1	0	1	8,000	384,000	480,000
5. Prov'l. Nursery/Seedbank Staff						
- Plant Propagator	-	-	1	10,000	600,000	600,000
- Nursery Aide	1	0	1	8,000	480,000	480,000
Sub-Total A	7	-	8	-	4,656,000.00	4,440,000.00
B. Project Production Clusters						
Operation Unit						
1. MAO/Project Optns. Coordtr.	700	-	TBD	-	-	-
2. Agri Tech/Field Extensionists	TBD	-	TBD	-	-	-
Sub-Total B	-	-	-	-	-	-
PROJECT TOTAL	7	0	8	0	,656,000.00	4,440,000.00

Note: TBD - To be determined during the detailed Project Implementation Plan preparation by the participating C/MLGUs

TABLE III-A.4 Cost Estimates for FRDM Project, Years 1 to 5; 6 to 10 & 11 to 20
Bohol Agriculture and Natural Resources Development Master Plan

Cluster 1 (5 MLGUs: Ubay-Tailbon-Bien Unido-Pres. Garcia-Trinidad) Priority 1

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (PhP)	Year 1 (by Quarter in '000PhP)				Year 1 TOTAL (^{'000})	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
1. Organizational Development							490.0	80.0	430.0	80.0	430.0	1.51M	2.05 M	2.80 M	7.87 M
1.1 Organization & Strengthening the Alliance of 5 MLGUs with defined working arrangements	2 events per year	30,000 per event	60	60	-	-	120.00	60.0	60.0	60.0	60.0	360.00	300.0	300.0	960,000
1.2 Individual LGU Fisheries Dev't. & Mgt. Planning	Planning event	250,000 per LGU		250			250.0	-	250.0	-	250.0	750.0	750.0	500.0	2.0 M
1.3 Cluster LGU Fisheries Dev't. & Mgt. Planning	Planning event	50,000 per cluster event		50		50	100.0	-	100.0	-	100.0	300.0	500.0	1.0 M	1.8 M
1.4 Cluster LGU Yearly Action Planning	planning event	10,000 per event		20			20.0	20	20	20	20	100.00	500.0	1.0 M	1.6 M
2. CRM (habitat) Plan Implementation							7.14 M	7.12 M	7.12 M	7.12 M	7.12 M	35.62 M	29.62 M	59.2 M	124.44 M
2.1 Mangrove Mgt. & ranching	hectare	12,500/ha	300	300	300	300	1.2 M	1.2 M	1.2 M	1.2 M	1.2 M	6.0 M	5.0 M	10.0 M	21.0 M
2.2 Seagrass Mgt. & ranching	hectare	8,000/ha	80	80	80	80	320.0	300.0	300.0	300.0	300.0	1.52 M	1.52 M	3.0 M	6.04 M
2.3 Coral Reef Mgt.	kilometer	3,000/km	30	30	30	30	120.0	120.0	120.0	120.0	120.0	600.0	600.0	1.2 M	2.4 M
2.4 MPA Establishment & Management	hectare	25,000/ha	-	1.25 M	1.25 M	1.25 M	5.0 M	5.0 M	5.0 M	5.0 M	5.0 M	25.0 M	20.0 M	40.0 M	85.0 M
2.5 MPA-Coastal Ecotourism	Support facility	100,000/facility	-	-	500	-	500.0	500.0	500.0	500.0	500.0	2.5 M	2.5 M	5.0 M	10.0 M
3. Responsible Fisheries Planning, Dev't. & Mgt.							5.9 M	5.5 M	5.5 M	5.5 M	5.5 M	28.2 M	13.5 M	17.5 M	59.2 M
3.1 Management of Multiple Fishing Zone and sub-zones	hectare	30,000/ha	375	375	375	375	1.5 M	1.0 M	1.0 M	1.0 M	1.0 M	5.5 M	2.5 M	5.0 M	13.0 M
3.2 Monitoring Municipal Marine & Freshwater Capture Fishing-Multiple Fishing Zone	hectare	5,000/ha	-	500	500	500	1.5 M	1.5 M	1.5 M	1.5 M	1.5 M	7.5 M	3.0 M	5.0 M	15.5 M
3.3 Commercial Marine Capture Fishing Surveillance & Monitoring	Km ²	1,000/km ²	500	500	500	500	2.0 M	2.0 M	2.0 M	2.0 M	2.0 M	10.0 M	5.0	5.0	20.0 M
3.4 Monitoring Aquaculture-Brackishwater Fishpond Management	hectare	350.00/ha	300	300	300	300	1.2 M	1.0 M	1.0 M	1.0 M	1.0 M	5.2 M	3.0 M	2.5 M	10.7 M
SUB-TOTAL															

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (PhP)	Year 1 (by Quarter)				Year 1 TOTAL	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
4. Entrepreneurial Livelihood Support							43.0 M	29.0 M	28.0 M	28.0 M	28.0 M	132.0 M	72.5 M	85.0 M	289.5 M
4.1 Mariculture-Fish Cages Project	hectare	200,000/ ha	-	5.0 M	-	5.0 M	10.0 M	5.0 M	5.0 M	5.0 M	5.0 M	30.0 M	20.0 M	30.0 M	80.0 M
4.2 Mariculture-Fish Pens	hectare	150,000/ ha	-	3.0 M	-	3.0 M	6.0 M	3.0 M	3.0 M	3.0 M	3.0 M	18.0 M	10.0 M	15.0 M	43.0 M
4.3 Mariculture-Seaweeds	hectare	80,000/ ha	-	4.0 M	4.0 M	4.0 M	12.0 M	5.0 M	5.0 M	5.0 M	5.0 M	32.0 M	10.0 M	20.0 M	62.0 M
4.4 Mariculture-Oysters/Mussels	hectare	120,00 / ha	3.0 M	-	3.0 M		6.0 M	6.0 M	5.0 M	5.0 M	5.0 M	27.0 M	12.5 M	10.0 M	49.5 M
4.5 Land-based projects	No. of unit	300,00 / unit	4.5 M	-	4.5 M	-	9.0 M	10.0 M	10.0 M	10.0 M	10.0 M	25.0 M	20.0 M	10.0 M	55.0 M
5. FRDM Infrastructure Support Facilities							50.0 M	-	-	-	-	50.0 M	-	50.0 M	100.0 M
5.1 Multi-Fish Species Hatchery Establishment	M ²	100,000/ m ²	-	10.0 M	-	-	10.0 M	-	-	-	-	10.0 M	-	10.0 M	20.0 M
5.2 Post Harvest Storage & Processing Plants	M ²	100,000 / m ²	-	10.0 M	-	-	10.0 M	-	-	-	-	10.0 M	-	10.0 M	20.0 M
5.3 Fish Laboratory Facilities	M ²	100,000/m ²	-	-	5.0 M	-	5.0 M	-	-	-	-	5.0	-	5.0 M	10.0 M
5.4 Fish Landing Facilities	M ²	100,000/m ²	-	-	-	15.0 M	15.0 M	-	-	-	-	15.0 M	-	15.0 M	30.0 M
5.5 Fishermen's Training Center	M ²	100,000/m ²	-	-	10.0 M	-	10.0 M	-	-	-	-	10.0 M	-	10.0 M	20.0 M
6. Foreshore and Shoreline Management							5.32 M	2.4M	2.45 M	2.45 M	2.4M	15.02 M	6.70 M	13.4 M	35.12 M
6.1 Establishment of public access & road right of way	Linear meter	100,000/ m ²	-	-	-	5.0 M	5.0 M	2.0 M	2.0 M	2.0 M	2.0 M	13.0 M	5.0 M	10.0 M	28.0 M
6.2 Coordination & establishment of defined working arrangement with concerned NGA's	event	30,000/ event	30	30	30	30	120	150	200	200	150	820,000	500,000	1.0 M	2.32 M
6.3 Regulation & monitoring of private infrastructure establishment	Once per quarter	50,000/ event	50	50	50	50	200,000	250,000	250,000	250,000	250,000	1.20 M	1.20 M	2.40 M	4.8 M
SUB-TOTAL															

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (PhP)	Year 1 (by Quarter)				Year 1 TOTAL	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
7. Local Policy Support: Formulation /Implemen- tation (e.g., ordinances)							545,000	545	545	545	545	2.725 M	2.725 M	5.450 M	10.9 M
7.1 Municipal Coastal Resource and Fisheries Database Establishment and Updating	ordinance	2,000/ ordinance	-	10	10	10	30,000	30,000	30,000	30,000	30,000	150,000	150,000	300,000	600,000
7.2 Fisherfolks Registration & Preferential Fishing Rights	ordinance	2,000/ ordinance	10	10	10	-	30,000	30,000	30,000	30,000	30,000	150,000	150,000	300,000	600,000
7.3 Fishers Fishing Regulations, Permitting and Fishing Gear- Boat Licensing	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.4 Coastal Habitat & Fisheries Management Policy Direction	ordinance	2,000/ ordinance	15	15	-	-	30,000	30,000	30,000	30,000	30,000	150,000	150,000	300,000	600,000
7.5 Municipal Water Delineation & Municipal-Coastal Area Management Zoning	ordinance	2,000/ ordinance	25	25	25	-	75,000	75,000	75,000	75,000	75,000	375,000	375,000	750,000	1.5 M
7.6 MPA Regulation & Mgt.	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.7 Coastal Ecotourism Regulation & Mgt.	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.8 Municipal water & Coastal Area Resource Use and User Rights Policy	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.9 Policy, regulation on brackishwater and freshwater fishponds	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.10 Policy, regulation on marine culture projects	ordinance	2,000/ ordinance	-	-	10	10	20,000	20,000	20,000	20,000	20,000	100,000	100,000	200,000	400,000
7.11 Policy, regulation on coastal pollution	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.12 Policy, regulation on designated Fish Landing	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.13 Policy, regulation on recording fish catch landing	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
7.14 Policy on endangered marine fish species	ordinance	2,000/ ordinance	10	10	10	10	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
SUB-TOTAL															

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (PhP)	Year 1 (by Quarter)				Year 1 TOTAL	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
8. Fish Handling, Transportation and Marketing System							236,000	236	236	236	236	1.18 M	1.18 M	2.36 M	4.72 M
8.1 Development of proper fish handling practices	guidelines	5,000/ guideline	-	25	25	-	50,000	50,000	50,000	50,000	50,000	250,000	250,000	500,000	1.0 M
8.2 Proper procedures in transporting fish and fishery products	Procedural guidelines	5,000/ guideline	-	25	25	-	50,000	50,000	50,000	50,000	50,000	250,000	250,000	500,000	1.0 M
8.3 Quality control on fish and other fishery products marketing	Inspection/assessment	1,500/ inspection	-	8	8	-	16,000	16,000	16,000	16,000	16,000	80,000	80,000	160,000	320,000
8.4 Development of marketing guidelines on the volume and quality of fish to be retained for display in municipal markets and those to be shipped outside the municipality	Procedural guidelines	8,000 / guideline	-	40	40	40	120,000	120,000	120,000	120,000	120,000	600,000	600,000	1.2 M	2.4 M
SUB-TOTAL															
GRAND TOTAL															

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (Php)	Year 1 (by Quarter)				Year 1 TOTAL	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
9. Support Services: Capability & Capacity Building (e.g., skills training on the Code of Conduct for Responsible Fisheries & Integrated Coastal Area Mgt.)							440,000	440	440	440	440	2.2 M	2.2 M	4.4 M	8.8 M
9.1 Provincial LGU Staff -BEMO	Pax	10,000/ pax	100	100	100	100	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
9.2 Municipal LGU Staff – MAO, MPDC	pax	10,000/ pax	200	200	200	200	80,000	80,000	80,000	80,000	80,000	400,000	400,000	800,000	1.6 M
9.3 Cluster LGU Ad Hoc Committees & Local Special Bodies for Fisheries Mgt.	pax	10,000/ pax	100	100	100	100	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
9.4 Provincial and Municipal Technical Working Group on CRM and Fisheries Mgt.	pax	10,000/ pax	200	200	200	200	80,000	80,000	80,000	80,000	80,000	400,000	400,000	800,000	1.6 M
9.5 Strengthening Municipal Fisherfolks Organizations /Cooperatives	pax	5,000/ pax	100	100	100	100	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
9.6 Re-activation / strengthening of municipal FARMC's	pax	5,000/ pax	100	100	100	100	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
9.7 Strengthening the municipal Bantay Dagat Task Force	pax	5,000/ pax	100	100	100	100	40,000	40,000	40,000	40,000	40,000	200,000	200,000	400,000	800,000
9.8 Inter-LGU (alliance/cluster of municipalities) collaboration and integrated FRDM planning & implementation	pax	10,000/ pax	200	200	200	200	80,000	80,000	80,000	80,000	80,000	400,000	400,000	800,000	1.6 M
9.9 Formal creation of FRDM Monitoring and Evaluation Team, development and implementation of established M&E tools	pax	10,000/ pax	200	200	200	200	80,000	80,000	80,000	80,000	80,000	400,000	400,000	800,000	1.6 M
SUB-TOTAL															
GRAND TOTAL															

PARTICULAR/ Budget Item	Unit of Measure	Unit Cost (PhP)	Year 1 (by Quarter)				Year 1 TOTAL	Year 2	Year 3	Year 4	Year 5	Years 1-5 TOTAL	Years 6-10 TOTAL	Years 11-20 TOTAL	20 Year TOTAL
			Q1	Q2	Q3	Q4									
10. Special Studies, Applied Research and Case Studies							5.35 M	2.6 M	3.35 M	2.6 M	1.35 M	15.25 M	9.25 M	9.25 M	33.75 M
10.1 Bohol Waters Fish Stock Assessment	study	500,000/ study	1.0 M	-	-	1.0 M	2.0 M	2.0 M	2.0 M	-	-	6.0 M	2.0 M	2.0 M	10.0 M
10.2 Economic Valuation of Existing Coastal Habitat	valuation	200,000/ valuation	-	1.0 M	1.0 M	-	2.0 M	-	-	2.0 M	-	4.0 M	2.0 M	2.0 M	8.0 M
10.3 Fish Diseases and Ulcerative Causes	study	150,000/ study	-	-	-	750	750,000	-	750,0 00	-	750,0 00	2.25 M	2.25 M	2.25 M	6.75 M
10.4 Water Quality and Pollution in relation to area specific fishery and aquatic products	assessment study	120,000/ assessme nt study	-	600	-	600	600,000	600,0 00	600,0 00	600,0 00	600,0 00	3.0 M	3.0 M	3.0 M	9.0 M
10.5															
SUB-TOTAL															
GRAND TOTAL															

TABLE III-A.5 Estimated Cost (P'000) for the Watershed Rehabilitation and Management Project

Program/Components	Unit of Measure	Unit Cost	Budgetary Requirements					Total Cost	
			Y1	Y2	Y3	Y4	Y5	Y1-Y5	Y6-Y10
I. WATERSHED DEV'T MGT PROGRAM									
1. Reforestation of Degraded Uplands									
1.1 Identification of degraded open lands	hectares	3,000	36,000	36,000		18,000		90,000	90,000
1.2 Establishment of Satellite Endemic Nurseries	no of nursery	30,000	30,000	60,000				90,000	90,000
2. Afforestation Project									
2.1 Site Identification	hectares	3,000	72,000	36,000	36,000		36,000	180,000	90,000
2.2 Plantation establishment	hectares	25,000	25,000	50,000	50,000		25,000	150,000	200,000
2.3 Adopt a watershed area									
2.3.1 Promotion/meetings	sessions	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000
2.3.2 Donors Forum	sessions	8,000	16,000		8,000		8,000	32,000	50,000
3. Rehabilitation of Critical Slopes and Gullies									
3.1 Gully Stabilization	hectare	15,000	90,000	180,000	90,000		90,000	450,000	450,000
3.2 Streambank Stabilization and establishment	hectare	18,000	72,000	144,000	144,000			360,000	360,000
4. River rehabilitation and Protection Management									
4.1 River Clean-up Activities									
4.1.1 Organizational and promotional meetings	session	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000
4.1.2 River desiltation	hectare	20,000	40,000	80,000	80,000	40,000		240,000	200,000
4.2 Adopt a River Project									
4.2.1 Promotional meetings and consultations	session	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000
4.2.2 Donors Forum	session	5,000	5,000		5,000		5,000	15,000	15,000
5. Water Source Protection and Enhancement									
5.1 Establishment of natural rain water collector	number	5,000	15,000	30,000	15,000	15,000		75,000	75,000
6. Biodiversity Conservation Management									
6.1 Establishment of BMS									
6.1.1 Resource inventory monitoring	hectare	8,000	144,000	144,000	48,000			240,000	144,000
6.2 Establishment of wildlife Sanctuaries									
6.2.1 Resource inventory monitoring and updating	hectare	8,000	144,000	144,000	48,000			240,000	240,000
6.3 Establishment of Bontanical Gardens									
6.3.1 Site identification	hectare	3,000	18,000	18,000	9,000			45,000	45,000
6.3.2 Coordination meeting to LGUs	session	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000
6.4 Organization of Boholano Poll of Experts project									
6.4.1 Coordination meeting and promotions	session	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000
6.4.2 Launching of website		50,000	50,000					50,000	
6.4.3 Forum	session	5,000		10,000	5,000			15,000	15,000
6.5 Environmental courses scholarship project									
6.5.1 Coordination and promotion meeting	session	2,500	15,000	15,000	15,000	15,000	15,000	75,000	75,000

Program/Components	Unit of Measure	Unit Cost	Budgetary Requirements					Total Cost	
			Y1	Y2	Y3	Y4	Y5	Y1-Y5	Y6-Y10
6.5.2 Donor/sponsors forum	session	5,000	5,000	5,000	5,000	5,000	5,000	25,000	25,000
			Sub-total					2,647,000	2,439,000
II. PRODUCTION FOREST DEVT MANAGEMENT									
1. Areas covered by CSC's									
1.1 Inventory of ISF sites and beneficiaries	No. of sites	5,000	200,000	200,000	200,000	200,000		800,000	
1.2 Resource Assessment Appraisal and Farm Plning	No. of sites	15,000	50,000	250,000	250,000			550,000	
1.3 Enrichment planting Agro-forestry farm	No. of hectares	10,000		150,000	150,000	150,000	150,000	600,000	300,000
1.4 Establishment of a Land Care Model	No. of sites	50,000	200,000	100,000	100,000	50,000	50,000	500,000	
2. Areas covered by CBFMA									
2.1 Review of CRMF and Mgt Plan	No. of sites	5,000	162,500	162,500				325,000	
2.2 CBFM Improvement and Work Protection	No of sites	10,000	200,000	200,000	50,000	50,000		500,000	
3. Communal Forest with Co-management Agreement									
3.1 Resource assessment and appraisal	No. of hectares		200,000	150,000				350,000	
3.2 Preparation of Management Plan	No. of sessions	100,000		100,000				100,000	
3.3 Buffer Zone Development	No. of hectares	15,000				250,000	250,000	500,000	
4. Mine-out areas in A&D									
4.1 Inventory of mined -out areas	No. of sites	10,000	50,000	200,000	200,000			550,000	
4.2 Mined-out area rehab	No. of sites	25,000	50,000	150,000	100,000	100,000	100,000	500,000	
4.3 Plantation establishment	No. of hectares	20,000	200,000	200,000	100,000	40,000		540,000	
5. Bohol Tree Enterprise Program									
5.1 Inventory of standing tress (planted and natural grown in A&D)	No of sites	1,000	150,000	250,000	200,000	200,000	100,000	1,000,000	250,000
6. Production and Enhancement of Non Timber Forest Products									
6.1 Nursery Establishment	No of sites	50,000	100,000	100,000	50,000			250,000	
6.2 Plantation Establishment of buri	No of hectares	20,000	200,000	300,000	100,000			600,000	200,000
6.3 Plantation establishment of bamboo/rattan	No of hectares	20,000	200,000	400,000	60,000			660,000	200,000
6.4 Inventory of existing non-timber products	No of hectares	15,000	120,000	240,000	120,000			480,000	200,000
			Sub-total					8,805,000	1,150,000
III. Detailed Watershed Studies									
1. Lumbay Watershed (970 has)	hectares	250		242,000				242,500	
2. Panampan Watershed (730 has)	hectares	200			146,000			146,000	
3. Manaba Watershed (1120 has)	hectares	200		224,000				224,000	
4. Moalong Watershed (1000 has)	hectares	250			250,000			250,000	
5. Ipil Watershed (3,000 has)	hectares	250				750,000		750,000	
6. Banban Watershed (900 has)	hectares	200					180,000	180,000	

Program/Components	Unit of Measure	Unit Cost	Budgetary Requirements					Total Cost	
			Y1	Y2	Y3	Y4	Y5	Y1-Y5	Y6-Y10
has)									
7. Abatan Watershed (3890 has)	hectares	200				778,000		778,000	
			Sub-total					2,570,500	0
IV. Support Services and Facilities									
I. Civil works									
A. Roads Access (refer PEO,DPWH)									
B. Endemic Nurseries									
1. Potting shed	sqm	4,000	100,000		100,000			200,000	
2. Nursery building	sqm	5,000	150,000		150,000			300,000	
3. Nursery Water System	unit							60,000	60,000
2. Transport Equipment									
1. AUV, pick up 4 WD	unit	800,000	800,000					800,000	
2. AUV, stake truck	unit	400,000		400,000				400,000	
3. Motorcycle, Trail type	unit	90,000	180,000					180,000	
3. Office Unit Equipment									
1. Computer & accessories	set	60,000	60,000	60,000				120,000	60,000
2. Fax machine	unit	12,000	12,000					12,000	
3. LCD Projector	set	90,000	90,000					90,000	
4. Laptop computer	set	100,000	100,000					100,000	
5. Professional Camera	unit	50,000	50,000		50,000			100,000	
6. Digital Camera	unit	30,000	30,000					30,000	
7. GPS	set	40,000	80,000					80,000	
8. Surveying Instruments	set	200,000	200,000					200,000	
9. Water sampling apparatus	set	50,000	50,000					50,000	
10. VTR	set	100,000	100,000					100,000	
11. Rain gauges	set	10,000	10,000					10,000	
12. Scanner	set	16,000	16,000					16,000	
13. Community Organizing	No of sessions	10,000	100,000	100,000	50,000	50,000	50,000	350,000	300,000
14. Skills trainings	No of sessions	5,000	50,000	50,000	50,000	50,000	50,000	250,000	250,000
15. Water Quality Monitoring	Frequency	18,000	180,000	180,000	90,000	90,000	90,000	450,000	270,000
16. Formation & trng of 3 man	No. of sessions	10,000	10,000		10,000		10,000	30,000	30,000
17. ICE team salaries	monthly	35,000	420,000	420,000	420,000	420,000	420,000	2,100,000	2,100,000
18. Production of flyers etc	No. of copies	10,000	50,000		50,000	20,000		120,000	100,000
19. Improvement of staff house		350,000	350,000					350,000	
			Sub-total					4,558,000	3,050,000
			GRAND TOTAL					20,520,500	6,759,000

Figure III-A.1. Irrigated and Rainfed Palay Areas, Province of Bohol

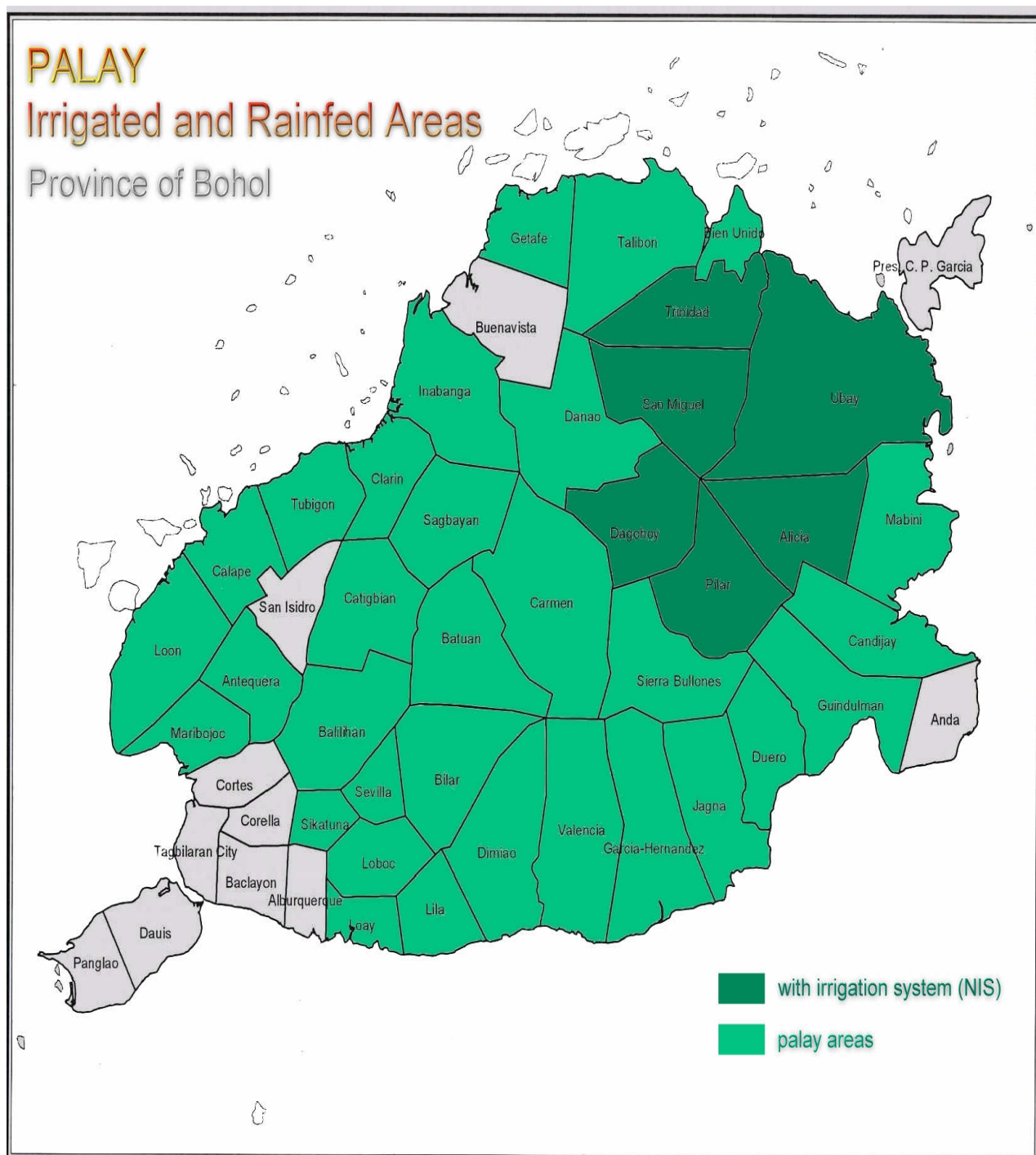


Figure III-A.2. Existing Areas for Corn-based Farming Systems

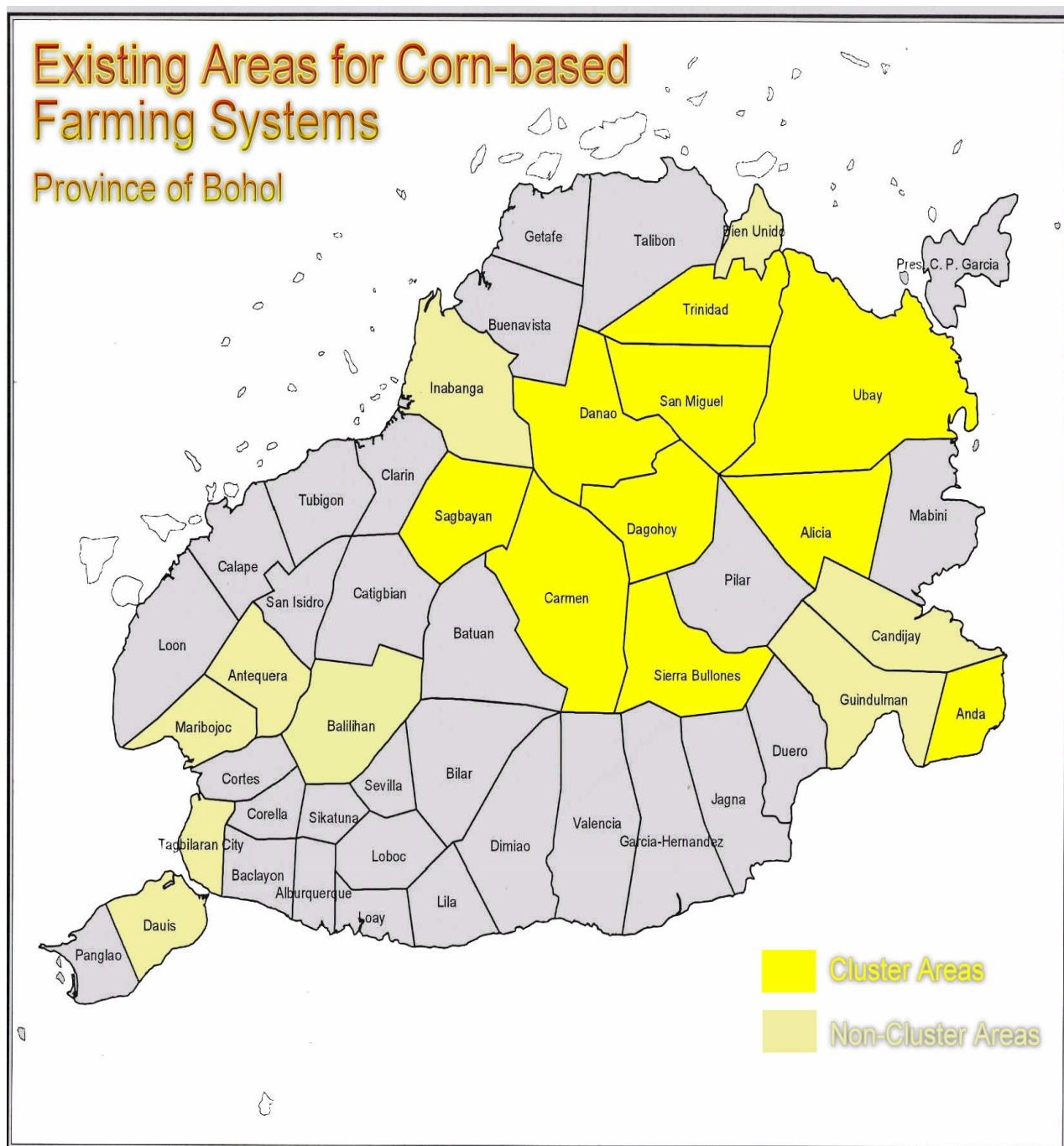


Figure III-A.3. Potential Areas for Highland Vegetables Farming Systems, Province of Bohol

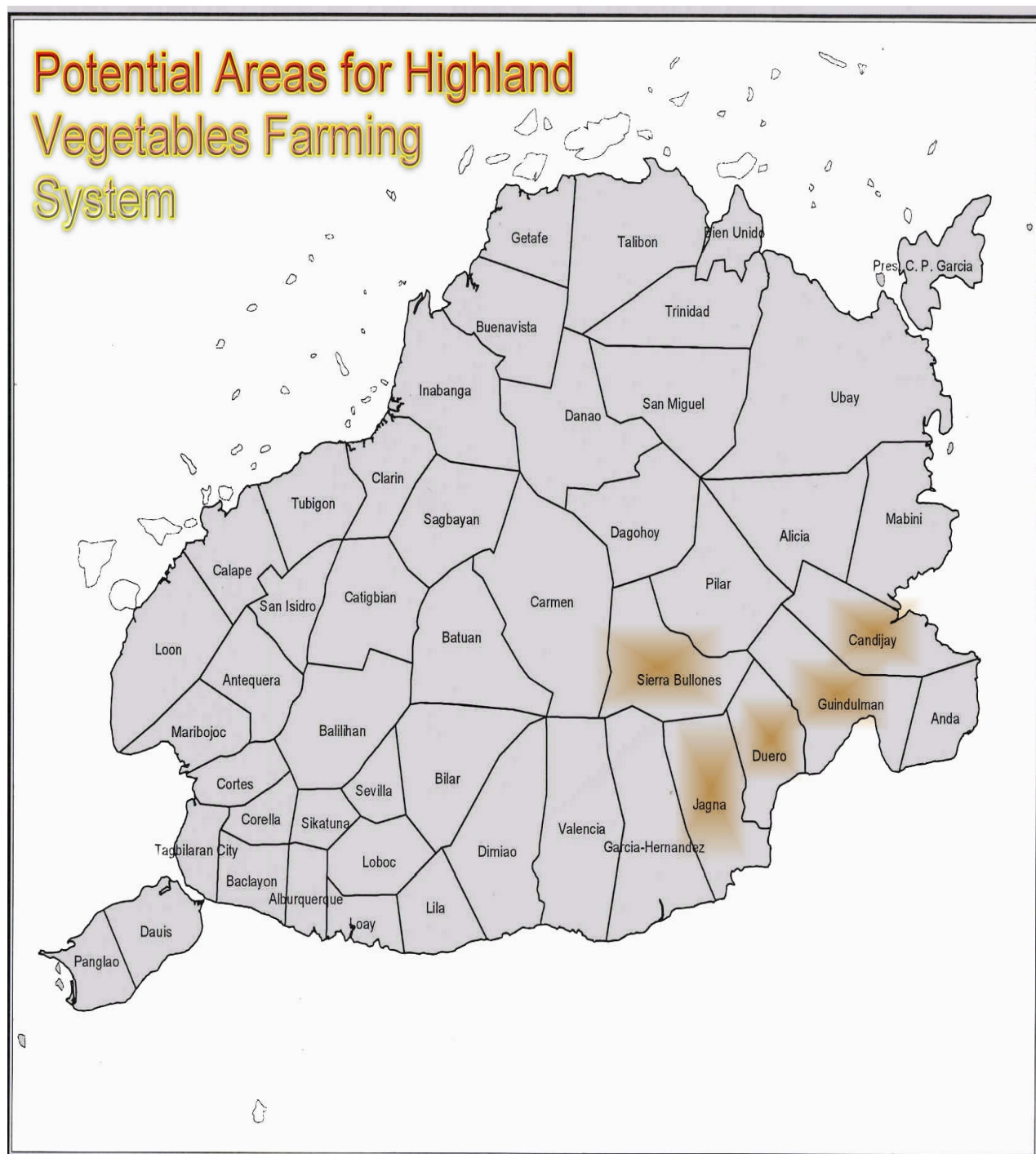


Figure III-A.4. Potential Areas for Vegetables Farming in the Lowland Integration, Province of Bohol

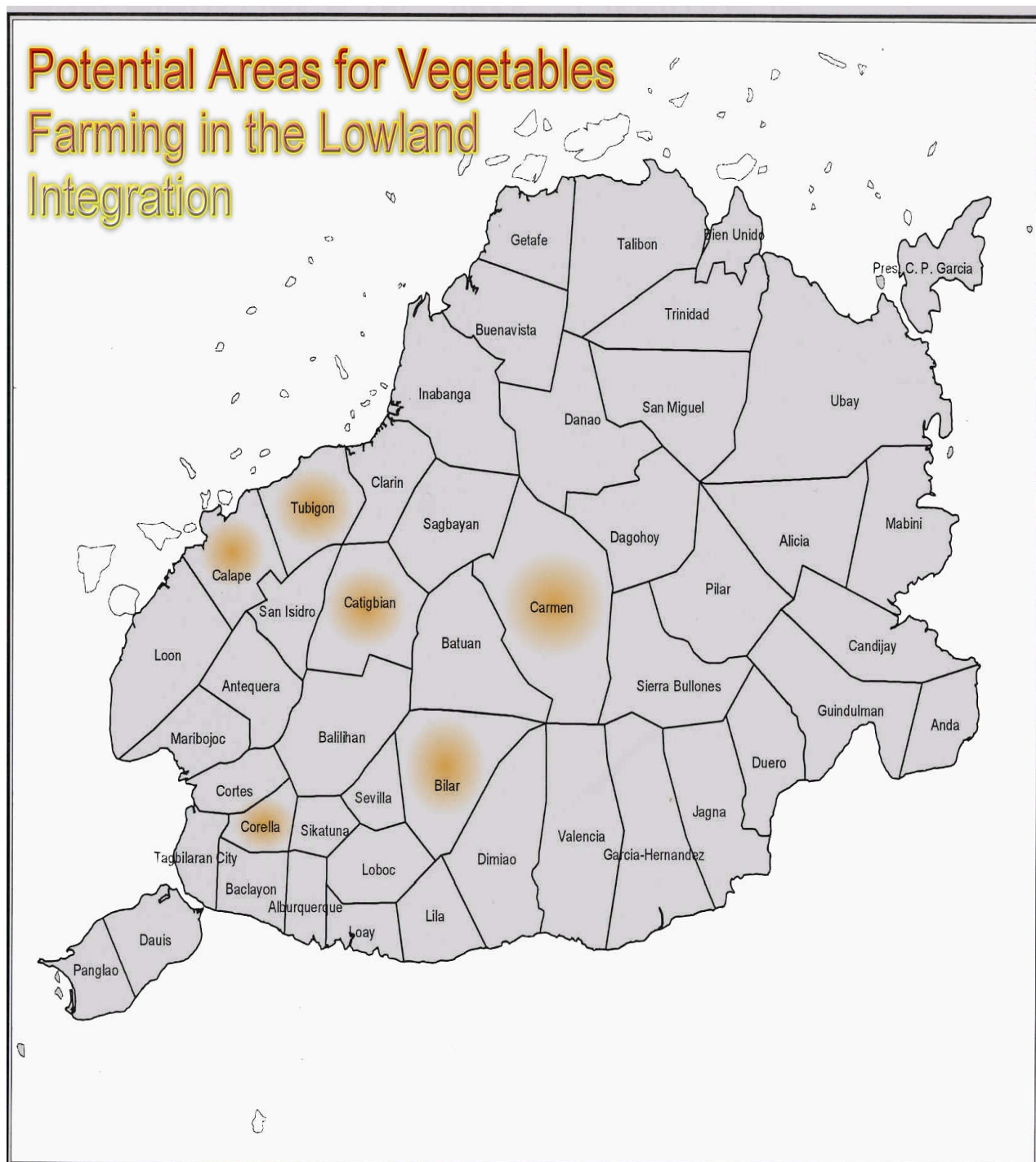


Figure III-A.5. Mango-based Farming Systems Zones, Province of Bohol

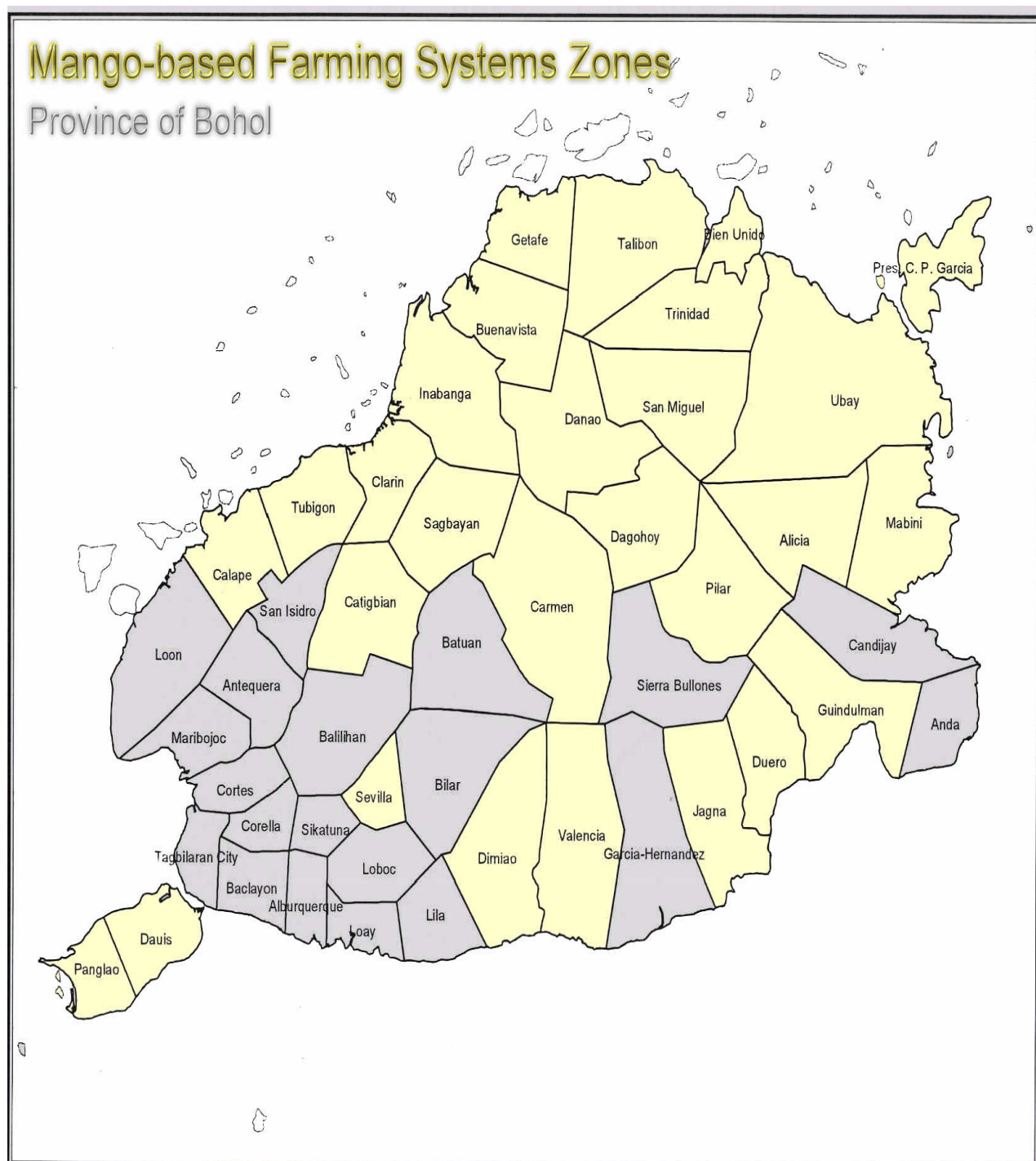


Figure III-A.6. Potential Areas for Coconut-based Farming Systems, Province of Bohol

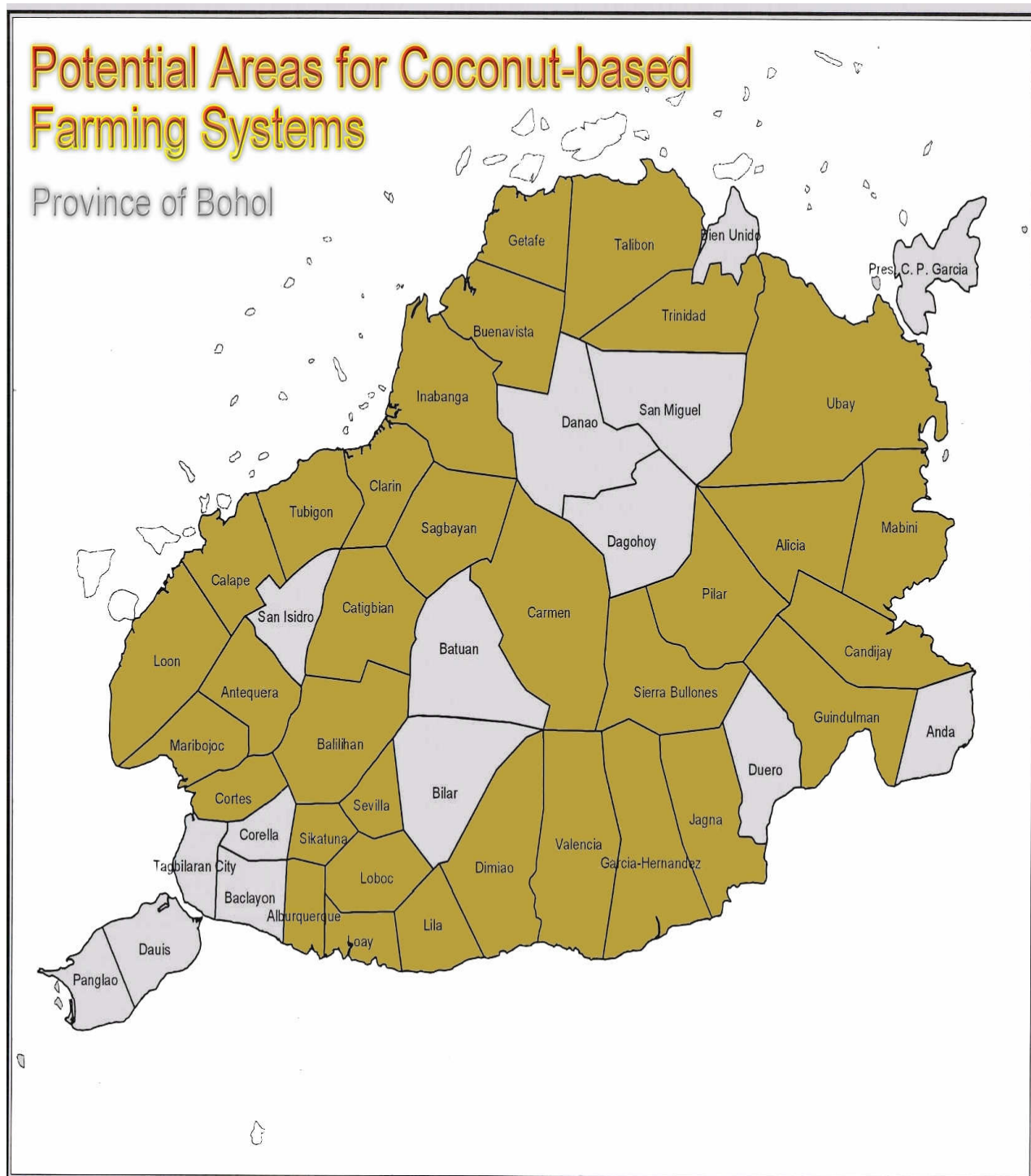


Figure III-A.7. Potential Areas for Banana Farming Integration, Province of Bohol

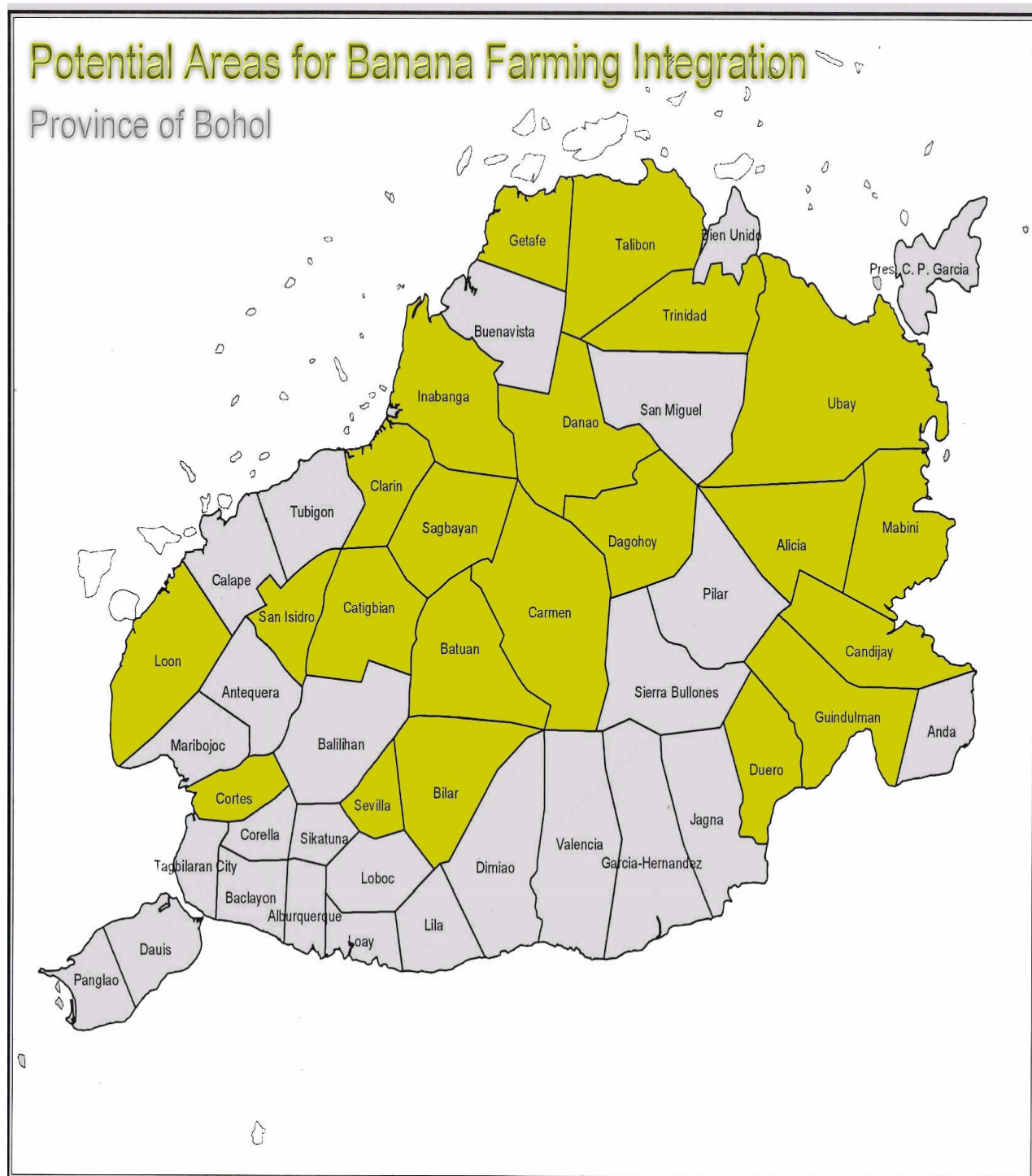


Figure III-A.8. Potential Areas for Ube Farming Integration, Province of Bohol

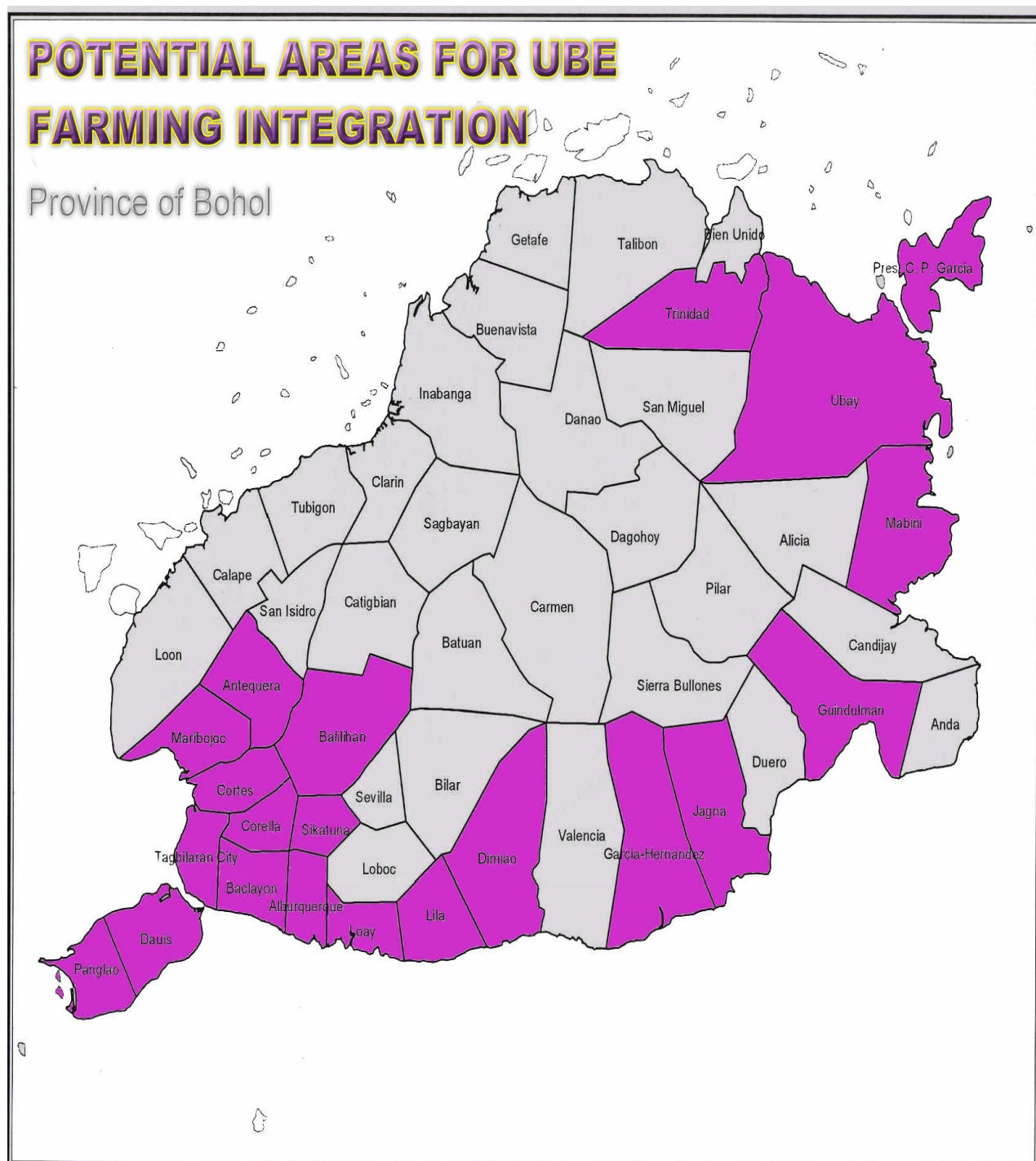


Figure III-A.9. Demonstration Pilot Areas for Hillyland Farming Systems, Province of Bohol

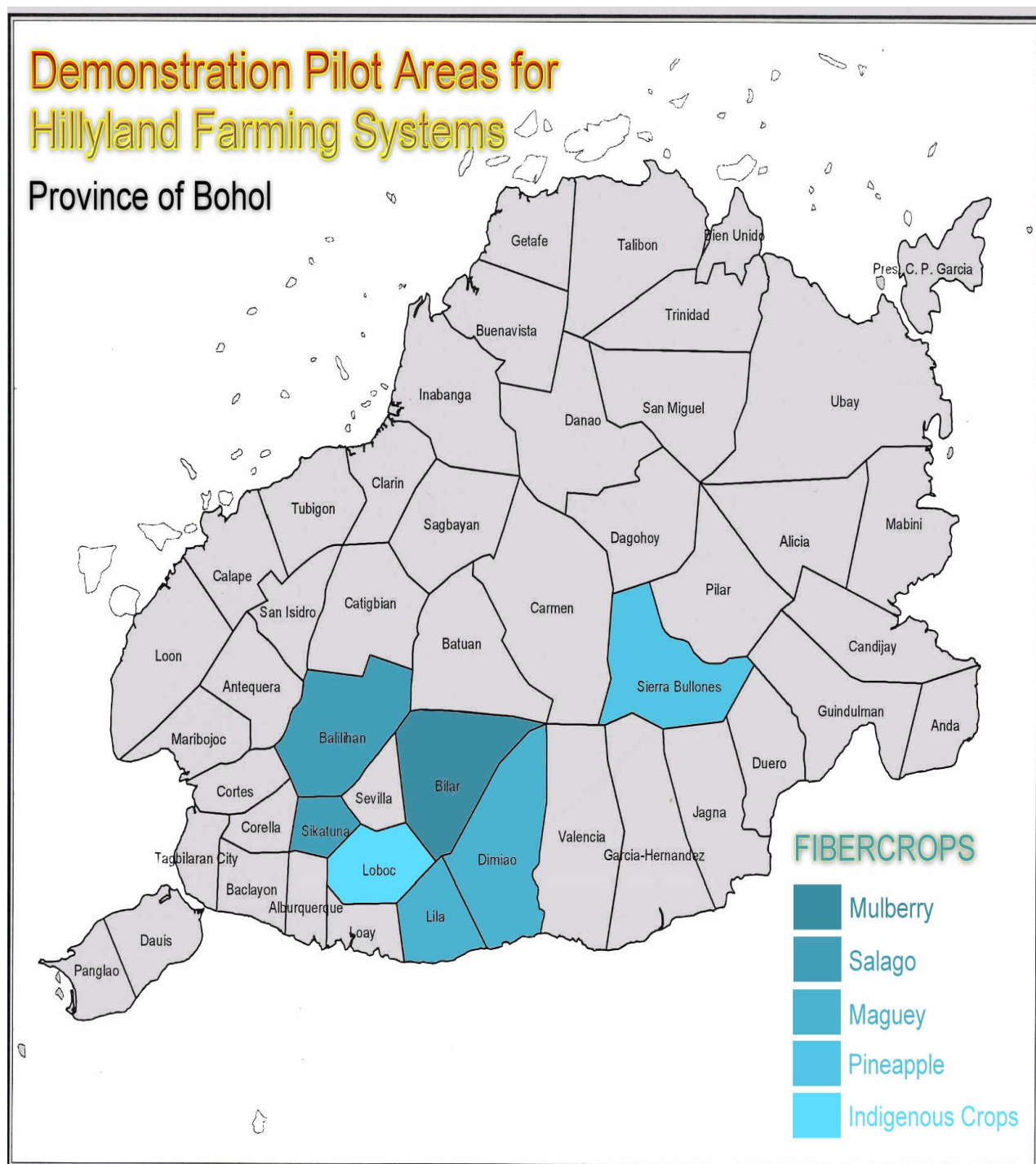


Figure III-A.10. Existing Oil Palm Areas, Province of Bohol

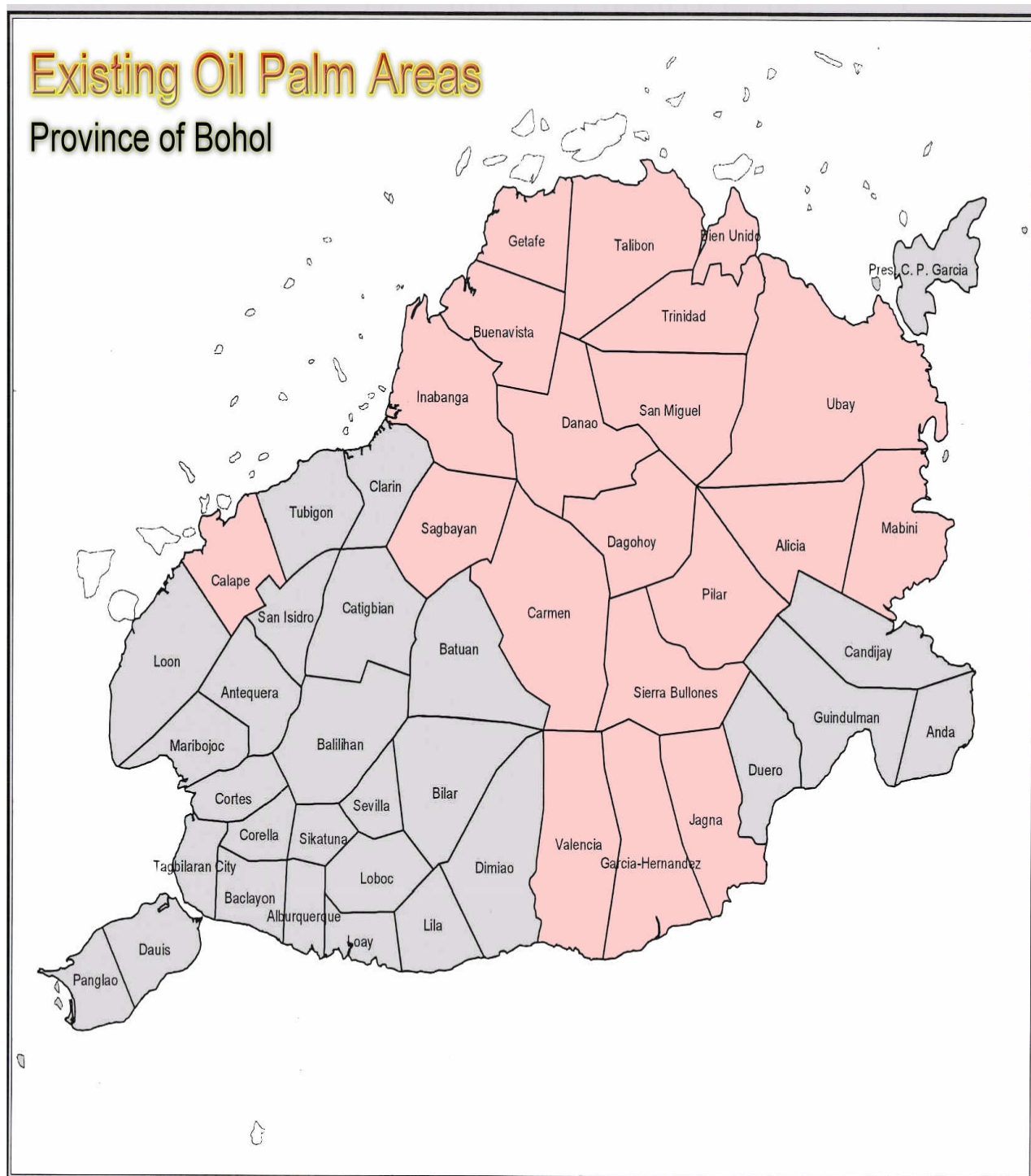


Figure III-B. FRDM Cluster Production Zones, Province of Bohol

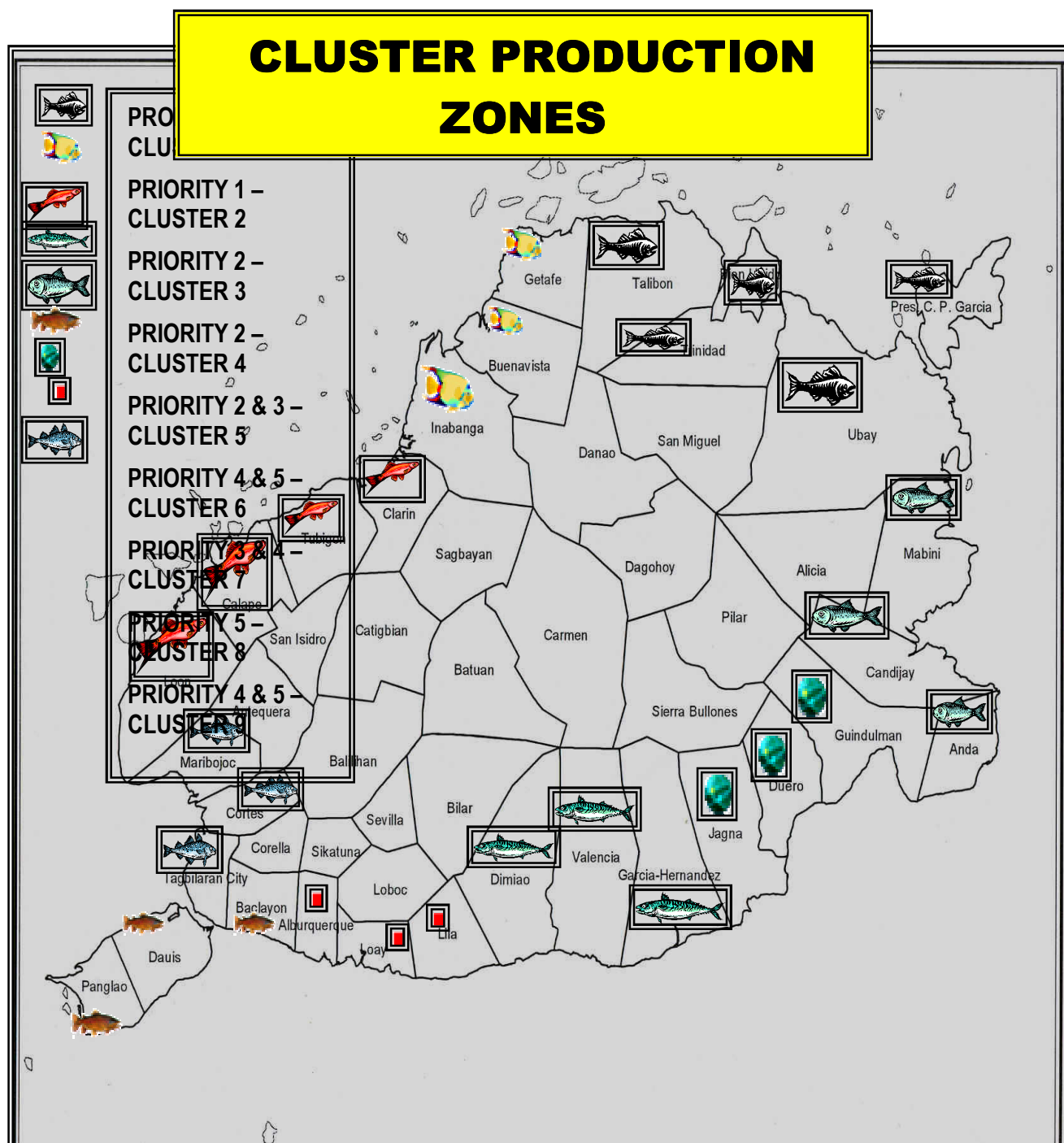


Figure III-C. Map of NRDM Priority Areas

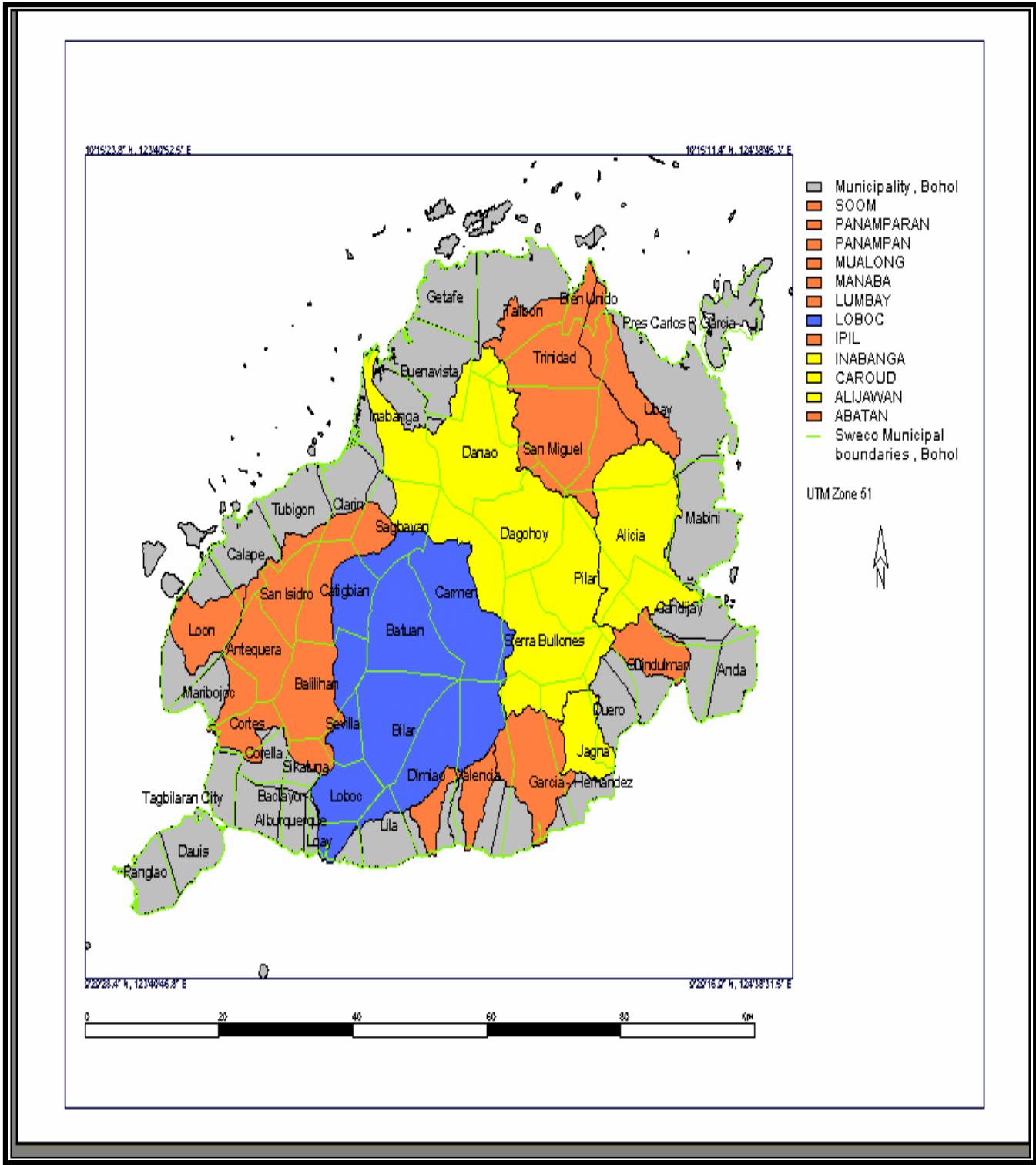


PHOTO DOCUMENTATION

BOHOL AGRICULTURE MASTER PLAN: CY 2006-2026



BOHOL PROVINCIAL GOVERNMENT



PAHRDF

An Australian Government Initiative

MODULE 1

Principles of Area-Based Development Planning and Assessment of Data Base

Alona Kew Beach Resort
Tawala, Panglao, Bohol

March 31 – April 1, 2005



MODULE 2

Resource Scanning and Analysis

Bohol Tropics Resort
Tagbilaran City, Bohol

April 18 – 22, 2005



MODULE 3

New Technologies in Agriculture Enterprise Development

Tagaytay City & Laguna

May 3 – 7, 2005



MODULE 4

Participatory Agricultural Development Master Plan Preparation

Montebello Villa Hotel
Banilad, Cebu City

May 16 – 25, 2005



MODULE 5

Drafting and Marketing the Bohol Agricultural & Natural Resources Master Plan

Montebello Villa Hotel
Banilad, Cebu City

June 6 – 17, 2005

WELCOME
GUESTS & PARTICIPANTS to the **OIDCI**
"DRAFTING and MARKETING the **BOHOL AGRICULTURAL**
RESOURCES MASTER PLAN"
JUNE 6 - 17, 2005
BANILAD, CEBU CITY



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OFFICE OF THE PROVINCIAL AGRICULTURIST (OPA)
OFFICE OF THE PROVINCIAL VETERINARIAN (OPV)
BOHOL ENVIRONMENT & MANAGEMENT OFFICE (BEMO)
BOHOL POVERTY REDUCTION MANAGEMENT OFFICE (BPRMO)
