

APPENDIX 2.2-5 PUBLIC SECTOR INFRASTRUCTURE BUDGET AND SECTORAL DISTRIBUTION OF PUBLIC BUDGET

Public Sector Infrastructure Budget 1995 - 1997

PARTICULARS	1995		1996		1997		Growth rate (%)	
		%		%		%	1996/1995	1997/1996
NATIONAL GOVERNMENT	42,606,511	48.3	46,795,417	33.8	48,434,645	31.1	9.8	3.5
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	30,442,257	33.1	34,588,913	25.0	31,109,955	20.0	13.8	-10.1
Roads and Bridges	13,608,073	14.8	17,200,187	12.8	20,293,013	13	26.4	18.0
Ports and Lighthouse	22,272	0	9,000	0	75,388	0	-59.6	737.6
Flood Control/Seawalls	2,606,014	2.8	2,852,858	2.1	3,406,826	2.2	9.5	19.5
Water Supply	514,521	0.6	114,303	0.1	149,688	0.1	-77.8	31.0
National Buildings	50,000	0.1	105,000	0.1	30,000	0	110.0	-71.4
Urban Development	-	0	327,700	0.2	366,700	0.2	0.0	11.9
Preliminary Detailed Engineering	120,000	0.1	150,000	0.1	160,000	0.1	25.0	6.7
Other Public Works Projects	13,131,377	14.3	12,745,100	9.2	5,520,000	3.5	-2.9	-56.7
Municipal Development Fund	190,000	0.2	884,765	0.6	1,106,340	0.7	365.7	25.0
Agrarian Reform Fund	200,000	0.2	200,000	0.1	-	0	0.0	-100.0
DEPARTMENT OF TRANSPORTATION AND COMMUNICATION	4,480,274	4.9	4,293,971	3.1	6,754,157	4.3	-4.2	57.3
Airports/Airnavigation Facilities	2,722,542	3	1,905,468	1.4	2,549,832	1.8	-30.0	33.8
Telecommunications	1,052,516	1.1	1,233,177	0.9	2,332,732	1.5	17.2	89.2
Land Transportation	74,628	0.1	297,246	0.2	321,699	0.2	288.3	8.2
Ports and Lighthouses	625,108	0.7	824,034	0.6	1,519,894	1	31.8	84.4
Others	5,482	0	34,046	0	30,000	0	521.1	-11.9
DEPARTMENT OF EDUCATION, CULTURE AND SPORTS	5,047,696	5.5	4,783,000	3.5	5,000,000	3.2	-5.2	4.5
School Building	5,047,696	5.5	4,783,000	3.5	5,000,000	3.2	-5.2	4.5
DEPARTMENT OF AGRICULTURE	2,636,284	2.9	3,129,533	2.3	5,570,533	3.6	18.7	78.0
National Irrigation	2,636,284	2.9	3,129,533	2.3	5,570,533	3.6	18.7	78.0
GOVERNMENT OWN AND/OR CONTROLLED CORPORATION	36,057,109	39.2	78,270,089	56.6	90,540,225	58.1	117.1	15.7
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS	1,307,863	1.4	5,614,083	4.1	8,873,974	4.1	329.3	22.4
DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	4,253,294	4.6	10,831,794	7.8	11,125,961	7.1	154.7	2.7
DEPARTMENT OF ENERGY	19,996,410	21.7	38,934,351	28.1	51,837,283	33.2	94.7	33.1
OTHER EXECUTIVE OFFICES	10,499,542	11.4	22,898,861	16.5	20,703,007	13.2	118.1	-9.6
LOCAL GOVERNMENT UNITS	13,387,000	14.5	13,310,800	9.6	16,733,800	10.7	-0.6	25.7
Allocation to LGUs	13,387,000	14.5	13,310,800	9.6	16,733,800	10.7	-0.6	25.7
TOTAL	92,050,620	100	138,385,306	100	155,708,670	100	50.3	12.5

(Source : Budget of Expenditure and Sources of Financing, Fiscal Year 1997)

Sectoral Distribution of Public Resource Budget 1995 - 1997

PARTICULARS	1995		1996		1997		Growth rate %	
		%		%		%	1996/1995	1997/1996
ECONOMIC SERVICES	211,848,898	41.8	325,320,286	47	319,780,922	44.8	53.6	-1.7
Agriculture, Agrarian Reform	27,693,278	5.5	57,123,312	8.3	49,086,837	6.9	106.3	-14.1
Trade Industry	21,864,881	4.3	28,208,048	4.1	14,286,212	2	29.0	-49.4
Tourism	11,703,038	2.3	14,016,963	2	13,710,738	1.9	19.8	-2.2
Power and Energy	72,300,658	14.3	116,192,179	16.8	131,925,960	18.5	60.7	13.5
Water Resources Development and Flood Control	8,329,799	1.6	14,688,326	2.1	16,174,394	2.3	76.3	10.1
Communication, Roads and Other Transport	50,107,657	9.9	69,579,671	10.1	66,449,337	9.3	38.9	-4.5
Other Economic Services	4,944,169	1	9,436,399	1.4	7,946,101	1.1	90.9	-15.8
Subsidy to Local Government	14,905,420	2.9	16,075,388	2.3	20,181,343	2.8	7.8	25.5
SOCIAL SERVICES	114,738,433	22.7	160,826,966	23.2	180,600,268	25.3	40.2	12.3
Education, Culture and Manpower Development	61,658,180	12.2	78,989,214	11.4	93,512,208	13.1	28.1	18.4
Health	9,278,692	1.8	15,438,768	2.2	17,499,794	2.5	66.4	13.3
Social Security, Welfare and Employment	6,918,312	1.4	9,009,496	1.3	11,466,948	1.6	30.2	27.3
Housing and Community Development	18,689,159	3.7	32,858,252	4.7	32,561,152	4.6	74.7	-0.3
Land Distribution	-	0	-	0	-	0	-	-
Other Social Services	497,470	0.1	4,047,986	0.6	3,839,856	0.5	713.7	-5.1
Subsidy to Local Government Units	17,696,620	3.5	20,683,250	3	21,720,310	3	16.9	5.0
DEFENCE	27,493,159	5.4	34,848,506	5	37,092,196	5.2	26.8	6.4
Domestic Security	27,493,159	5.4	34,848,506	5	36,942,196	5.5	26.2	6.5
Peace and Order	-	0	150,000	0	150,000	0	0.0	0.0
GENERAL PUBLIC SERVICES	79,493,918	15.7	92,226,045	13.3	102,330,902	14.3	16.0	11.0
General Administration	25,678,667	5.1	27,479,146	4	27,605,841	3.9	7.0	0.5
Public Order and Safety	22,799,642	4.5	30,456,966	4.4	33,864,227	4.7	33.6	11.2
General Public Services	2,545,926	0.5	1,471,008	0.2	979,824	0.1	-42.2	-33.4
Subsidy to Local Government Units	28,539,683	5.6	32,818,925	4.7	38,881,010	5.6	15.0	21.5
INTERSET PAYMENTS	72,851,000	14.4	78,893,000	11.4	74,201,000	10.4	8.3	-5.9
TOTAL	506,495,408	100	692,114,803	100	713,985,288	100	36.6	3.2

(Source : Budget of Expenditures and Sources of Financing Fiscal Year 1997)

APPENDIX 2.2-6 TOTAL NUMBER OF FAMILIES, AVERAGE INCOME AND EXPENDITURE

Region/Province	Total Number of Families					Average Income (Pesos)					Average Expenditures (Pesos)					Average Savings (Pesos)					Income (million pesos)					Expenditures (million pesos)				
	1988	1991	1994	1998	1999	1988	1991	1994	1998	1999	1988	1991	1994	1998	1999	1988	1991	1994	1998	1999	1988	1991	1994	1998	1999					
Philippines	10,533,927	11,975,441	12,754,444	40,048	85,166	83,161	32,521	51,991	67,591	13,195	15,500	13,195	15,500	42,635	78,031	42,635	78,031	1,060,714	1,060,714	342,574	622,615	863,012	863,012	863,012	863,012					
NCR	1,435,438	1,644,390	1,765,644	79,314	139,256	173,989	80,855	105,731	138,247	18,559	32,325	35,352	35,352	113,850	227,347	113,850	227,347	306,514	306,514	86,636	173,853	244,095	244,095	244,095						
CAR	213,592	227,719	241,024	33,838	58,985	74,089	23,722	43,816	60,317	5,116	15,169	14,352	14,352	7,228	17,987	7,228	17,987	46,702	46,702	17,386	30,234	38,262	38,262	38,262						
I	624,707	671,626	708,263	34,031	56,078	66,125	27,672	45,018	54,175	6,361	11,862	11,950	11,950	21,259	38,066	21,259	38,066	46,702	46,702	17,386	30,234	38,262	38,262	38,262						
II	437,867	488,376	523,098	32,938	56,850	68,851	24,862	39,991	53,251	8,257	10,859	15,600	15,600	14,426	24,834	14,426	24,834	42,901	42,901	10,810	19,531	33,181	33,181	33,181						
III	1,038,222	1,194,940	1,274,646	48,855	78,203	94,092	33,950	61,904	75,427	8,195	14,329	18,665	18,665	48,946	91,058	48,946	91,058	151,914	151,914	40,138	73,972	96,143	96,143	96,143						
IV	1,284,484	1,615,655	1,731,389	37,978	63,960	87,627	32,632	54,119	71,055	5,920	14,142	16,542	16,542	48,781	111,429	48,781	111,429	151,914	151,914	40,138	73,972	96,143	96,143	96,143						
Study Area Total	323,854	360,943	384,615	27,112	49,251	57,754	23,542	37,516	48,029	3,571	11,745	13,725	13,725	949	3,995	949	3,995	3,088	3,088	885	1,790	2,484	2,484	2,484						
Mindanao	37,734	42,438	44,858	25,123	37,761	46,864	23,450	42,257	55,401	1,673	25,504	13,463	13,463	2,404	3,595	2,404	3,595	4,594	4,594	2,002	2,945	3,647	3,647	3,647						
Occidental Mindoro	51,480	58,803	62,997	46,701	61,132	73,042	33,882	50,088	62,759	7,809	11,043	10,283	10,283	2,404	3,595	2,404	3,595	4,594	4,594	2,002	2,945	3,647	3,647	3,647						
Oriental Mindoro	102,498	113,943	121,367	21,846	31,725	38,410	20,397	30,415	35,156	1,449	11,110	12,254	12,254	2,239	2,994	2,239	2,994	3,584	3,584	2,091	4,628	6,453	6,453	6,453						
Palaivan	91,885	101,541	109,622	21,722	31,415	49,327	23,311	31,081	41,001	4,411	10,334	8,328	8,328	2,542	4,205	2,542	4,205	5,407	5,407	2,137	3,156	4,485	4,485	4,485						
Ranban	40,457	44,220	45,863	16,002	27,387	25,803	12,594	23,035	23,945	3,418	4,352	1,958	1,958	647	1,211	647	1,211	1,183	1,183	509	1,019	1,094	1,094	1,094						
V	737,972	823,759	877,895	26,570	39,923	54,167	23,253	33,911	46,343	3,317	5,912	7,824	7,824	10,608	32,803	10,608	32,803	47,553	47,553	17,160	27,533	40,684	40,684	40,684						
Masbate	127,020	143,750	153,430	30,341	33,347	33,347	19,271	25,381	30,334	955	5,153	3,013	3,013	2,569	4,389	2,569	4,389	5,116	5,116	2,448	3,649	4,654	4,654	4,654						
VI	556,812	1,069,713	1,133,399	31,164	47,723	64,078	27,162	42,670	57,968	4,002	5,053	6,210	6,210	29,812	47,050	29,812	47,050	72,826	72,826	25,963	45,845	65,588	65,588	65,588						
Alilan	69,820	77,538	81,243	30,768	48,641	70,376	25,950	40,920	57,305	4,818	7,821	13,071	13,071	27,864	47,279	27,864	47,279	66,908	66,908	24,171	42,480	60,932	60,932	60,932						
Antique	76,258	85,247	91,295	27,275	36,183	42,395	23,533	29,734	42,706	3,742	6,449	3,313	3,313	2,134	3,084	2,134	3,084	3,870	3,870	1,842	2,535	3,899	3,899	3,899						
Capiz	106,837	118,131	125,715	29,112	35,911	46,880	24,933	30,433	41,446	4,529	5,478	5,434	5,434	3,104	4,242	3,104	4,242	5,894	5,894	2,621	3,595	5,210	5,210	5,210						
Iloilo	301,203	328,772	347,268	37,455	54,810	78,739	31,452	48,869	67,375	6,003	6,441	9,364	9,364	11,282	18,202	11,282	18,202	26,649	26,649	9,473	15,902	23,397	23,397	23,397						
Negros Occidental	400,694	460,025	487,878	27,810	47,878	63,506	22,542	44,449	57,254	2,268	3,227	4,242	4,242	11,143	21,932	11,143	21,932	30,495	30,495	10,235	20,448	28,426	28,426	28,426						
Negros Oriental	829,546	904,436	952,354	27,972	45,265	57,579	22,517	35,460	46,883	5,815	9,785	10,996	10,996	23,204	40,939	23,204	40,939	54,856	54,856	18,380	32,689	44,648	44,648	44,648						
Bohol	168,351	178,916	186,580	18,881	31,266	38,187	14,558	23,804	28,941	4,323	7,462	9,346	9,346	3,179	5,594	3,179	5,594	7,125	7,125	2,451	4,259	5,381	5,381	5,381						
Cebu	467,165	507,405	533,974	33,797	51,034	68,347	26,371	40,702	56,599	7,426	10,332	12,038	12,038	15,789	25,895	15,789	25,895	36,602	36,602	12,320	20,652	30,174	30,174	30,174						
Negros Oriental	178,842	200,331	213,388	22,637	44,591	48,803	19,960	33,671	40,332	3,277	10,920	9,071	9,071	4,044	8,942	4,044	8,942	10,585	10,585	3,459	6,752	8,649	8,649	8,649						
Siquijor	15,368	17,594	18,412	12,490	28,398	28,398	8,818	24,242	24,135	2,671	4,156	4,299	4,299	192	499	192	499	524	524	151	426	444	444	444						
VII	598,522	661,344	693,679	25,345	38,475	48,912	20,533	31,760	37,523	4,812	6,715	12,390	12,390	15,170	25,445	15,170	25,445	34,623	34,623	12,289	21,004	26,028	26,028	26,028						
Eastern Samar	67,598	76,471	82,008	33,555	45,972	60,634	27,258	37,654	47,258	6,296	8,118	11,191	11,191	2,268	3,516	2,268	3,516	4,972	4,972	1,843	2,895	3,235	3,235	3,235						
Leyte	283,062	309,461	321,595	25,255	36,943	51,042	22,938	32,654	39,434	4,659	4,679	11,566	11,566	7,149	11,433	7,149	11,433	16,415	16,415	5,830	9,885	12,698	12,698	12,698						
Northern Samar	83,558	95,754	103,205	20,642	34,134	45,485	16,420	33,166	35,956	4,222	9,968	9,929	9,929	1,725	4,190	1,725	4,190	4,894	4,894	1,372	3,175	3,771	3,771	3,771						
Western Samar	99,199	104,106	105,918	21,961	31,396	45,964	17,900	24,868	34,778	4,031	6,518	10,966	10,966	1,761	2,589	1,761	2,589	3,694	3,694	1,761	2,589	3,694	3,694	3,694						
Southern Leyte	66,085	75,532	80,953	28,310	41,029	45,503	22,455	31,244	33,544	5,955	9,785	12,149	12,149	1,871	3,089	1,871	3,089	3,684	3,684	1,484	2,360	2,700	2,700	2,700						
IX	538,232	587,760	608,769	31,984	42,822	50,784	24,624	32,655	43,466	7,960	10,017	12,798	12,798	17,247	29,387	17,247	29,387	43,837	43,837	13,279	23,837	35,837	35,837	35,837						
Mindanao Total	381,152	429,116	458,173	33,108	45,560	51,068	26,812	33,309	44,182	7,068	10,251	13,986	13,986	16,619	28,619	16,619	28,619	43,296	43,296	14,293	24,293	30,155	30,155	30,155						
Zamboanga del Norte	122,425	140,181	146,824	21,713	33,827	42,158	17,924	24,069	36,386	4,246	9,756	7,420	7,420	2,715	4,741	2,715	4,741	6,190	6,190	2,194	3,744	5,344	5,344	5,344						
Zamboanga del Sur	258,727	288,935	309,349	38,282	48,281	58,910	28,885	37,791	47,877	9,032	10,490	13,566	13,566	19,905	31,878	19,905	31,878	47,877	47,877	17,568	30,155	40,155	40,155	40,155						
X	608,763	685,933	724,135	35,801	45,719	57,531	28,955	37,791	47,877	9,032	10,490	13,566	13,566	19,905	31,878	19,905	31,878	47,877	47,877	17,568	30,155</									

APPENDIX 2.3-1 PALAY PRODUCTION

(unit : metric ton)

Region	Province	1991	1992	1993	1994	1995
4	Marinduque	18,254	15,427	18,192	18,486	17,085
	Occidental Mindoro	227,573	222,332	231,121	205,897	201,393
	Oriental Mindoro	246,911	218,267	212,798	186,599	200,069
	Palawan	102,374	89,608	88,459	204,440	149,679
	Romblon	26,740	25,952	25,351	23,610	25,059
	Sub-Total	621,852	571,586	575,921	639,032	593,285
	Total Region 4	1,118,085	1,079,891	1,080,271	1,105,227	992,760
5	Masbate	53,140	49,870	47,450	67,960	60,454
	Total Region 5	744,223	715,459	665,129	689,570	598,618
6	Aklan	83,668	90,450	132,067	115,844	112,178
	Antique	135,512	128,318	128,525	104,538	112,604
	Capiz	211,651	215,788	244,930	223,629	239,821
	Iloilo (Guimaras)	500,749	560,220	708,931	704,288	580,264
	Negros Occidental	252,307	243,927	270,481	293,970	246,408
	Total Region 6	1,183,887	1,238,703	1,484,934	1,442,269	1,291,275
7	Bohol	93,570	60,839	123,408	140,244	152,360
	Cebu	9,799	5,451	5,687	9,340	11,302
	Negros Oriental	103,098	96,476	68,741	57,826	65,831
	Siquijor	1,293	927	883	1,041	1,266
	Total Region 7	207,760	163,693	198,719	208,451	230,759
8	Leyte (Biliran)	225,162	215,015	204,870	182,568	214,656
	Southern Leyte	32,650	31,080	38,800	42,400	46,569
	Eastern Samar	23,814	22,309	19,251	22,866	26,130
	Northern Samar	57,907	62,708	45,136	51,721	51,903
	Western Samar	43,421	30,973	45,777	56,139	56,579
	Total Region 8	382,954	362,085	353,834	355,694	395,837
9*	Zamboanga del Norte	79,845	38,289	50,120	53,932	60,977
	Zamboanga del Sur	299,807	266,099	320,067	269,523	281,859
	Sub-Total	379,652	304,388	370,187	323,455	342,836
	Total Region 9	386,189	309,536	373,218	326,295	345,489
10	Bukidnon	264,035	228,921	277,569	294,744	278,992
	Agusan del Norte	98,994	26,570	67,425	62,281	121,018
	Agusan del Sur	38,899	45,074	55,432	90,620	131,397
	Surigao del Norte	67,054	47,267	52,526	37,911	75,594
	Misamis Occidental	31,018	27,965	26,425	48,031	56,098
	Misamis Oriental	29,770	21,417	19,979	20,254	19,519
	Sub-Total	529,770	397,214	499,356	553,841	682,618
	Total Region 10	531,777	397,868	500,936	556,173	685,269
11	Davao	262,059	157,344	185,206	202,640	206,298
	Davao City	20,259	19,742	23,532	20,306	30,239
	Davao del Sur	131,475	90,686	89,628	104,468	100,055
	Davao Oriental	47,019	34,748	33,987	39,350	44,878
	Surigao del Sur	74,511	53,539	67,658	60,237	74,350
	South Cotabato	152,979	159,461	160,722	179,860	228,568
	Total Region 11	688,302	515,520	560,733	606,861	684,388
12*	Lanao del Norte	87,685	75,283	101,294	134,316	153,444
	North Cotabato	227,251	161,417	212,436	261,405	332,459
	Sultan Kudarat	163,479	178,666	194,080	149,104	266,523
	Total Region 12	478,415	415,366	507,810	544,825	752,426
ARMM*	Lanao del Sur	44,508	42,931	48,886	100,716	99,987
	Maguindanao	61,124	68,272	110,611	215,819	216,188
	Sub-Total	105,632	111,203	159,497	316,535	316,175
	Total ARMM	118,481	123,610	172,331	327,914	327,187
Total of Study Area		3,667,665	3,298,671	3,720,947	3,874,108	3,938,616
PHILIPPINE		9,673,262	9,128,940	9,434,208	10,538,054	10,540,640

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-2 PALAY AREA HARVESTED

(unit : ha)

Region	Province	1991	1992	1993	1994	1995
4	Marinduque	13,290	10,930	12,560	12,970	18,290
	Occidental Mindoro	73,040	72,980	71,630	63,310	62,113
	Oriental Mindoro	86,980	81,990	79,260	70,470	78,122
	Palawan	44,820	46,200	42,460	86,890	71,868
	Romblon	15,940	15,600	15,830	16,490	16,835
	Sub-Total	234,070	227,700	221,740	250,130	247,228
	Total Region 4	411,880	411,280	400,230	421,340	410,168
5	Masbate	38,620	41,290	37,200	46,150	43,200
	Total Region 5	295,530	284,930	267,740	296,840	281,263
6	Aklan	35,430	35,460	37,150	38,450	37,890
	Antique	47,630	46,760	45,290	49,780	48,740
	Capiz	82,760	80,370	83,000	92,240	92,570
	Iloilo (Guimaras)	500,749	560,220	216,840	223,610	207,610
	Negros Occidental	84,330	79,360	86,630	103,220	81,480
	Total Region 6	750,899	802,170	468,910	507,300	468,290
7	Bohol	75,990	53,980	81,030	83,840	82,800
	Cebu	8,950	4,540	3,660	4,750	5,130
	Negros Oriental	38,610	36,560	23,860	19,260	23,835
	Siquijor	830	630	600	670	865
	Total Region 7	124,380	95,710	109,150	108,520	112,630
8	Leyte (Biliran)	98,070	96,940	94,010	91,470	98,526
	Southern Leyte	10,280	9,590	12,310	13,700	14,410
	Eastern Samar	16,500	15,720	13,190	13,440	14,077
	Northern Samar	50,650	50,720	37,260	37,660	37,655
	Western Samar	46,210	42,040	39,120	41,560	41,820
	Total Region 8	221,710	215,010	195,890	197,830	206,488
9*	Zamboanga del Norte	35,680	20,040	21,360	25,170	30,158
	Zamboanga del Sur	80,470	72,190	82,060	80,850	81,410
	Sub-Total	116,150	92,230	103,420	106,020	111,568
	Total Region 9	131,970	104,580	113,790	115,880	120,965
10	Bukidnon	86,300	77,510	80,130	79,140	72,132
	Agusan del Norte	28,650	7,960	20,610	18,280	31,268
	Agusan del Sur	14,240	14,380	17,680	35,260	49,840
	Surigao del Norte	20,340	18,110	17,070	17,290	31,792
	Misamis Occidental	9,550	7,660	8,410	13,690	17,893
	Misamis Oriental	10,410	7,730	7,510	7,660	7,298
	Sub-Total	169,490	133,350	151,410	171,320	210,223
	Total Region 10	170,110	133,610	151,890	172,280	211,056
11	Davao	78,200	41,320	53,180	54,910	57,170
	Davao City	7,650	7,240	8,010	7,600	16,355
	Davao del Sur	30,220	22,860	24,030	24,800	25,806
	Davao Oriental	12,190	9,360	10,240	10,300	11,640
	Surigao del Sur	31,470	25,800	27,210	29,420	33,430
	South Cotabato	47,900	52,190	64,440	63,740	83,760
	Sub-Total	205,630	158,770	187,110	190,770	228,161
12*	Lanao del Norte	27,270	21,670	29,800	37,110	41,455
	North Cotabato	65,000	50,950	63,060	85,510	101,210
	Sultan Kudarat	55,280	54,980	62,710	75,970	80,732
	Total Region 12	147,550	127,600	155,570	198,590	223,397
ARMM*	Lanao del Sur	21,300	15,600	19,980	35,560	41,164
	Maguindanao	31,190	32,240	65,310	105,090	107,270
	Sub-Total	52,490	47,840	85,290	140,650	148,434
	Total ARMM	63,300	58,310	95,730	149,930	157,619
Total of Study Area		1,744,799	1,674,000	1,371,410	1,472,020	1,516,220
PHILIPPINE		3,424,960	3,198,070	3,282,350	3,651,530	3,758,691

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-3 CORN PRODUCTION

		(unit : ton)				
Region	Province	1991	1992	1993	1994	1995
4	Marinduque	989	798	735	745	708
	Occidental Mindoro	4,842	3,654	2,890	8,065	12,415
	Oriental Mindoro	3,149	2,659	2,928	4,372	3,226
	Palawan	51,623	50,472	52,878	68,657	54,965
	Romblon	2,628	2,124	1,457	1,054	896
	Sub-Total	63,231	59,707	60,886	82,893	72,210
	Total Region 4	211,224	195,402	108,793	131,463	118,756
5	Masbate	27,437	16,705	14,092	20,580	18,352
	Total Region 5	150,728	136,423	129,219	121,118	114,611
6	Aklan	717	691	733	1,024	857
	Antique	2,123	1,508	1,354	2,606	1,176
	Capiz	9,769	9,492	8,602	8,477	9,612
	Iloilo (Guimaras)	13,185	19,330	30,414	32,791	26,353
	Negros Occidental	14,945	23,819	27,905	27,882	19,602
	Total Region 6	40,739	54,840	69,008	72,780	57,600
7	Bohol	31,022	26,598	31,526	24,883	24,003
	Cebu	120,209	100,375	72,987	82,335	66,364
	Negros Oriental	77,744	67,800	61,113	59,678	53,379
	Siquijor	8,594	6,305	3,845	5,440	4,997
	Total Region 7	237,569	201,078	169,471	172,336	148,743
8	Leyte (Biliran)	144,615	94,389	91,111	39,033	27,604
	Southern Leyte	15,706	11,593	8,510	6,580	5,614
	Eastern Samar	18	42	99	72	65
	Northern Samar	28,709	9,893	9,575	7,490	6,964
	Western Samar	27,845	27,474	11,023	7,410	6,951
	Total Region 8	216,893	143,391	120,318	60,585	47,198
9	Zamboanga del Norte	96,156	72,330	63,803	75,944	68,026
	Zamboanga del Sur	137,087	132,763	145,560	117,116	127,595
	Sub-Total	233,243	205,093	209,363	193,060	195,621
	Total Region 9	236,218	208,069	212,685	197,275	198,441
10	Bukidnon	335,852	382,104	613,586	579,099	534,979
	Agusan del Norte	27,745	42,320	18,569	25,186	24,186
	Agusan del Sur	28,279	66,921	73,870	25,143	26,837
	Surigao del Norte	31	35	68	129	562
	Misamis Occidental	12,217	10,542	9,402	14,802	18,738
	Misamis Oriental	51,779	39,833	44,978	51,073	35,729
	Sub-Total	455,903	521,755	758,473	695,432	641,031
	Total Region 10	456,806	522,265	759,216	696,169	654,134
11	Davao	123,218	120,835	102,729	52,612	48,747
	Davao City	5,600	7,956	12,792	13,755	26,898
	Davao del Sur	46,670	26,944	50,059	55,121	50,726
	Davao Oriental	58,522	52,080	55,026	33,945	33,738
	Surigao del Sur	19,169	11,594	11,331	7,892	3,786
	South Cotabato	987,510	951,682	1,052,704	917,899	694,966
	Total Region 11	1,251,689	1,171,091	1,284,641	966,037	761,590
12*	Lanao del Norte	110,648	100,624	129,145	172,171	212,318
	North Cotabato	645,856	617,577	688,889	408,600	311,727
	Sultan Kudarat	29,241	44,294	68,141	228,637	129,632
	Total Region 12	785,545	762,495	886,175	807,408	653,677
ARMM*	Lanao del Sur	226,475	226,657	248	253,326	305,372
	Maguindanao	145,830	143,510	136,190	185,660	147,457
	Sub-Total	372,305	369,167	136,438	438,986	452,829
	Total ARMM	465,150	462,592	493,506	619,416	561,672
Total of Study Area		2,293,461	2,168,567	2,476,889	2,070,643	1,746,724
Philippine		4,655,028	4,618,854	4,797,977	4,519,246	4,128,510

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-4 CORN AREA HARVESTED

(unit : ha)

Region	Province	1991	1992	1993	1994	1995
4	Marinduque	1,380	1,030	1,010	1,180	1,120
	Occidental Mindoro	5,020	3,700	3,200	8,960	7,639
	Oriental Mindoro	5,700	4,640	5,190	6,730	5,233
	Palawan	23,010	24,440	25,170	34,300	27,154
	Romblon	3,560	3,070	3,110	1,830	1,555
	Sub-Total	38,670	36,880	37,680	53,000	42,701
	Total Region 4	230,130	215,300	89,890	106,770	86,978
5	Masbate	56,330	52,600	46,340	43,180	41,313
	Total Region 5	189,500	175,430	162,970	116,900	119,125
6	Aklan	1,550	1,420	1,360	1,340	1,310
	Antique	4,440	2,920	2,480	3,300	2,140
	Capiz	11,040	10,090	8,170	8,010	8,950
	Iloilo (Guimaras)	21,300	23,110	28,180	27,600	22,030
	Negros Occidental	32,020	29,150	34,200	39,430	35,150
	Total Region 6	70,350	66,690	74,390	79,680	69,580
7	Bóhol	35,490	35,730	41,200	36,850	34,160
	Cebu	284,000	249,350	144,450	152,900	134,833
	Negros Oriental	125,620	110,450	94,200	94,230	87,740
	Siquijor	12,970	9,400	6,550	9,240	9,050
	Total Region 7	458,080	404,930	286,400	293,220	265,783
8	Leyte (Biliran)	155,390	100,950	96,450	58,910	37,574
	Southern Leyte	18,170	13,000	9,980	8,170	7,100
	Eastern Samar	30	50	60	80	90
	Northern Samar	17,100	10,200	10,150	7,950	7,650
	Western Samar	24,820	24,950	15,380	10,810	10,032
	Total Region 8	215,510	149,150	132,020	85,920	62,446
9*	Zamboanga del Norte	92,440	66,630	56,920	70,400	71,519
	Zamboanga del Sur	168,100	164,780	166,600	143,210	124,509
	Sub-Total	260,540	231,410	223,520	213,610	196,028
	Total Region 9	263,700	234,050	227,800	218,550	199,388
10	Bukidnon	209,450	175,000	260,130	251,700	220,225
	Agusan del Norte	24,760	33,470	18,890	23,210	22,170
	Agusan del Sur	22,210	53,660	51,900	29,450	30,720
	Surigao del Norte	60	70	130	230	890
	Misamis Occidental	15,370	14,070	11,580	18,080	23,860
	Misamis Oriental	52,110	42,110	48,480	56,250	53,722
	Sub-Total	323,960	318,380	391,110	378,920	351,587
	Total Region 10	324,750	319,030	391,720	379,630	351,867
11	Davao	135,370	134,360	116,630	77,740	67,550
	Davao City	8,180	11,510	12,820	16,430	23,080
	Davao del Sur	52,220	44,370	58,760	84,140	67,870
	Davao Oriental	60,460	57,530	63,080	66,000	59,880
	Surigao del Sur	18,050	15,130	14,040	9,670	4,166
	South Cotabato	477,840	447,480	482,460	495,400	379,340
	Total Region 11	752,120	710,380	747,790	658,200	517,896
12*	Lanao del Norte	80,490	76,280	86,440	100,600	126,841
	North Cotabato	274,360	246,890	287,010	188,200	155,978
	Sultán Kudarat	22,250	24,500	37,060	120,700	83,576
	Total Region 12	377,100	347,670	410,510	409,500	366,395
ARMM*	Lanao del Sur	129,040	125,860	128,610	126,040	159,405
	Maguindanao	145,830	143,510	136,190	185,660	147,457
	Sub-Total	274,870	269,370	264,800	311,700	306,862
	Total ARMM	286,240	279,660	273,300	316,260	309,970
Total of Study Area		1,915,020	1,739,010	1,715,730	1,592,120	1,351,306
PHILIPPINE		3,589,460	3,331,410	3,149,340	3,005,820	2,692,332

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-5 COCONUT PRODUCTION

(unit : metric ton)

Region	Province	1991	1992	1993	1994	1995* ^p
4	Marinduque	111,613	115,862	90,678	81,888	86,057
	Occidental Mindoro	35,606	35,916	35,922	36,022	36,026
	Oriental Mindoro	35,080	35,478	31,781	31,887	32,111
	Palawan	74,476	74,726	74,799	76,441	76,747
	Romblon	78,281	87,788	90,849	87,393	89,146
	Sub-Total	335,066	349,770	324,029	313,631	320,087
	Total Region 4	1,889,875	1,933,820	1,859,322	1,821,854	1,600,573
5	Masbate	164,934	170,676	169,037	177,090	177,062
	Total Region 5	736,749	759,122	734,309	710,517	692,372
6	Aklan	32,783	34,389	33,962	31,138	31,930
	Antique	28,938	32,676	33,750	33,491	33,522
	Capiz	25,071	27,674	28,328	28,611	28,706
	Iloilo (Guimaras)	50,163	59,104	71,167	73,227	66,899
	Negros Occidental	76,563	84,301	82,805	76,953	69,469
	Total Region 6	213,518	238,144	250,012	243,420	230,526
7	Bohol	99,399	94,329	94,332	93,793	99,954
	Cebu	90,284	99,965	92,943	102,364	106,234
	Negros Oriental	127,517	129,355	132,763	137,955	140,760
	Siquijor	8,048	8,806	8,806	11,207	11,047
	Total Region 7	325,248	332,455	328,844	345,319	357,995
8	Leyte (Biliran)	347,190	372,139	355,972	332,758	338,905
	Southern Leyte	24,818	27,874	30,413	30,604	32,344
	Eastern Samar	110,000	113,645	113,652	115,412	115,217
	Northern Samar	115,891	131,888	136,416	133,616	128,842
	Western Samar	175,797	180,073	183,894	180,219	181,309
	Total Region 8	773,696	825,619	820,347	792,609	796,617
9*	Zamboanga del Norte	294,059	295,367	256,973	267,252	291,071
	Zamboanga del Sur	867,198	871,215	862,841	873,587	880,136
	Sub-Total	1,161,257	1,166,582	1,119,814	1,140,839	1,171,207
	Total Region 9	1,261,809	1,265,453	1,215,349	1,238,389	1,267,937
10	Bukidnon	34,322	35,565	35,566	35,770	27,516
	Agusan del Norte	65,926	68,781	68,782	70,447	69,151
	Agusan del Sur	2,873	3,016	3,021	3,163	3,403
	Surigao del Norte	244,145	226,719	209,412	129,681	127,658
	Misamis Occidental	181,768	177,490	175,691	200,973	199,087
	Misamis Oriental	259,745	253,828	228,455	230,334	231,215
	Sub-Total	788,779	765,399	720,927	670,368	658,030
	Total Region 10	817,808	797,358	752,598	700,954	688,151
11	Davao	523,680	526,099	520,841	518,245	544,228
	Davao City	206,646	207,816	208,982	211,834	245,031
	Davao del Sur	404,981	383,606	381,932	375,792	391,338
	Davao Oriental	1,749,457	1,746,252	1,741,608	1,741,735	1,825,985
	Surigao del Sur	35,030	37,668	37,058	34,633	36,179
	South Cotabato	979,101	1,013,811	1,092,199	1,084,026	1,517,292
	Total Region 11	3,898,895	3,915,252	3,982,620	3,966,265	4,560,053
12*	Lanao del Norte	384,312	355,677	355,678	362,382	359,891
	North Cotabato	35,045	32,084	32,045	31,237	33,470
	Sultan Kudarat	111,448	114,606	117,417	111,551	110,878
	Total Region 12	530,805	502,367	505,140	505,170	504,239
ARMM*	Lanao del Sur	181,197	183,326	178,209	170,944	175,688
	Maguindanao	349,553	325,618	367,286	373,702	401,176
	Sub-Total	530,750	508,944	545,495	544,646	576,864
	Total ARMM	753,250	728,805	774,631	773,389	891,040
Total of Study Area		6,500,126	6,597,315	6,595,816	6,508,702	7,100,370
PHILIPPINE		11,290,882	11,404,900	11,328,410	11,206,997	11,700,603

(Source : Bureau of Agricultural Statistics)

*p : preliminary

APPENDIX 2.3-6 COCONUT AREA HARVESTED

(unit : ha)

Region	Province	1991	1992	1993	1994	1995* ^p
4	Marinduque	35,592	35,590	35,500	35,155	35,155
	Occidental Mindoro	4,990	4,990	4,990	5,000	5,000
	Oriental Mindoro	28,620	28,613	28,600	28,600	28,600
	Palawan	26,520	24,929	24,930	25,000	25,100
	Romblon	27,292	27,288	27,834	27,850	27,690
	Sub-Total	123,014	121,410	121,854	121,605	121,545
	Total Region 4	542,475	532,419	532,150	529,475	529,578
5	Masbate	74,677	74,677	74,675	74,910	74,910
	Total Region 5	366,660	372,598	372,200	371,945	371,983
6	Aklan	30,211	30,968	30,960	30,360	30,360
	Antique	9,184	9,184	9,190	9,190	9,190
	Capiz	10,186	10,200	10,220	10,220	10,220
	Iloilo (Guimaras)	23,335	22,985	23,000	23,600	30,880
	Negros Occidental	35,254	35,346	35,330	35,330	35,330
	Total Region 6	108,170	108,683	108,700	108,700	115,980
7	Bohol	42,690	43,117	43,120	43,120	43,120
	Cebu	45,290	44,384	44,070	44,530	44,530
	Negros Oriental	45,606	44,694	44,900	45,010	45,010
	Siquijor	3,100	3,125	3,125	3,125	3,125
	Total Region 7	136,686	135,320	135,215	135,785	135,785
8	Leyte (Biliran)	148,000	145,000	144,900	155,998	155,998
	Southern Leyte	29,150	29,150	29,180	29,180	29,180
	Eastern Samar	42,900	42,900	42,900	43,260	43,260
	Northern Samar	73,495	73,495	73,510	72,775	72,775
	Western Samar	36,830	36,777	36,800	36,800	36,800
	Total Region 8	330,375	327,322	327,290	338,013	338,013
9*	Zamboanga del Norte	119,166	117,974	117,900	117,900	154,200
	Zamboanga del Sur	203,008	197,853	197,830	197,940	199,710
	Sub-Total	322,174	315,827	315,730	315,840	353,910
	Total Region 9	368,994	362,827	362,630	362,840	400,910
10	Bukidnon	4,105	4,105	4,105	4,105	4,105
	Agusan del Norte	29,349	29,349	29,349	29,800	29,800
	Agusan del Sur	8,430	8,535	8,540	8,690	11,550
	Surigao del Norte	118,956	118,956	118,875	118,875	118,875
	Misamis Occidental	108,653	108,572	108,560	108,760	108,760
	Misamis Oriental	78,151	77,994	77,200	77,200	75,650
	Sub-Total	347,644	347,511	346,629	347,430	348,740
	Total Region 10	368,984	370,131	369,229	370,030	372,172
11	Davao	95,083	95,383	95,300	95,220	95,220
	Davao City	38,591	38,587	38,620	38,940	38,940
	Davao del Sur	95,756	94,980	94,960	94,440	94,440
	Davao Oriental	157,080	157,080	157,080	157,080	157,080
	Surigao del Sur	61,515	61,515	61,515	61,250	61,239
	South Cotabato	115,422	115,422	115,500	115,500	115,500
	Total Region 11	563,447	562,967	562,975	562,430	562,419
12*	Lanao del Norte	59,590	59,590	59,590	59,590	59,590
	North Cotabato	11,786	11,432	11,432	11,140	10,922
	Sultan Kudarat	26,622	25,324	25,545	24,950	24,950
	Total Region 12	97,998	96,346	96,567	95,680	95,462
ARMM*	Lanao del Sur	45,355	45,355	45,300	44,950	44,950
	Maguindanao	57,750	56,306	56,500	56,560	58,780
	Sub-Total	103,105	101,661	101,800	101,510	103,730
	Total ARMM	187,310	185,866	186,100	185,810	188,030
Total of Study Area		1,684,013	1,677,890	1,677,338	1,688,873	1,697,392
PHILIPPINE		3,093,265	3,076,725	3,075,249	3,082,651	3,132,387

(Source : Bureau of Agricultural Statistics)

*p : preliminary

APPENDIX 2.3-7 SUGARCANE PRODUCTION

(unit : thousand metric tons)

Region	Province	1991	1992	1993	1994	1995
4	Marinduque	0	0	0	0	0
	Occidental Mindoro	0	0	0	0	0
	Oriental Mindoro	0	0	0	0	0
	Palawan	0	0	0	0	0
	Romblon	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total Region 4	24	29	41	41	26
5	Masbate	0	0	0	0	0
	Total Region 5	1,001	2,032	3,125	3,130	2,888
6	Aklan	0	0	0	0	0
	Antique	0	0	0	0	0
	Capiz	600	639	589	629	368
	Iloilo (Guimaras)	1,055	1,076	1,078	1,150	673
	Negros Occidental	12,077	11,567	11,343	12,606	8,915
	Total Region 6	13,732	13,282	13,010	14,385	9,956
7	Bohol	0	0	0	0	0
	Cebu	731	677	553	614	496
	Negros Oriental	1,089	1,132	1,577	2,094	1,406
	Siquijor	0	0	0	0	0
	Total Region 7	1,820	1,809	2,130	2,708	1,902
8	Leyte (Biliran)	810	804	945	823	614
	Southern Leyte	0	0	0	0	0
	Eastern Samar	0	0	0	0	0
	Northern Samar	0	0	0	0	0
	Western Samar	0	0	0	0	0
	Total Region 8	810	804	945	823	614
9*	Zamboanga del Norte	0	0	0	0	0
	Zamboanga del Sur	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total Region 9	0	0	0	0	0
10	Bukidnon	1,164	1,185	1,880	1,494	1,317
	Agusan del Norte	0	0	0	0	0
	Agusan del Sur	0	0	0	0	0
	Surigao del Norte	0	0	0	0	0
	Misamis Occidental	0	0	0	0	0
	Misamis Oriental	0	0	0	0	0
	Sub-Total	1,164	1,185	1,880	1,494	1,317
11	Davao	0	0	0	0	0
	Davao City	0	0	0	0	0
	Davao del Sur	208	161	209	551	375
	Davao Oriental	0	0	0	0	0
	Surigao del Sur	0	0	0	0	0
	South Cotabato	0	0	0	0	0
	Total Region 11	208	161	209	551	375
12*	Lanao del Norte	0	0	0	0	0
	North Cotabato	0	0	0	0	12
	Sultan Kudarat	0	0	0	0	0
	Total Region 12	0	0	0	0	12
ARMM*	Lanao del Sur	0	0	0	0	0
	Maguindanao	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total ARMM	0	0	0	0	0
Total of Study Area		17,734	17,241	18,174	19,961	14,164
PHILIPPINE		21,824	21,801	22,915	24,695	17,564

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-8 SUGARCANE AREA HARVESTED

(unit : ha)

Region	Province	1991	1992	1993	1994	1995
4	Marinduque	0	0	0	0	0
	Occidental Mindoro	0	0	0	0	0
	Oriental Mindoro	0	0	0	0	0
	Palawan	0	0	0	0	0
	Romblon	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total Region 4	24,125	26,882	40,953	40,460	25,868
5	Masbate	0	0	0	0	0
	Total Region 5	1,001	2,032	3,125	3,130	2,888
6	Aklan	0	0	0	0	0
	Antique	0	0	0	0	0
	Capiz	7,240	7,584	11,297	10,860	6,350
	Iloilo (Guimaras)	12,694	12,778	18,842	20,940	12,250
	Negros Occidental	145,625	137,299	204,560	213,020	150,640
	Total Region 6	165,559	157,661	234,699	244,820	169,240
7	Bohol	0	0	0	0	0
	Cebu	12,076	11,046	11,942	10,680	8,620
	Negros Oriental	17,997	18,433	20,145	23,760	15,950
	Siquijor	0	0	0	0	0
	Total Region 7	30,073	29,479	32,087	34,440	24,570
8	Leyte (Biliran)	9,771	9,542	14,461	12,220	9,110
	Southern Leyte	0	0	0	0	0
	Eastern Samar	0	0	0	0	0
	Northern Samar	0	0	0	0	0
	Western Samar	0	0	0	0	0
	Total Region 8	9,771	9,542	14,461	12,220	9,110
9*	Zamboanga del Norte	0	0	0	0	0
	Zamboanga del Sur	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total Region 9	0	0	0	0	0
10	Bukidnon	14,038	14,069	21,307	23,170	20,415
	Agusan del Norte	0	0	0	0	0
	Agusan del Sur	0	0	0	0	0
	Surigao del Norte	0	0	0	0	0
	Misamis Occidental	0	0	0	0	0
	Misamis Oriental	0	0	0	0	0
	Sub-Total	14,038	14,069	21,307	23,170	20,415
	Total Region 10	14,038	14,069	21,307	23,170	20,415
11	Davao	0	0	0	0	0
	Davao City	0	0	0	0	0
	Davao del Sur	2,586	1,970	2,858	5,970	4,690
	Davao Oriental	0	0	0	0	0
	Surigao del Sur	0	0	0	0	0
	South Cotabato	0	0	0	0	0
	Total Region 11	2,586	1,970	2,858	5,970	4,690
12*	Lanao del Norte	0	0	0	0	0
	North Cotabato	0	0	0	0	457
	Sultan Kudarat	0	0	0	0	0
	Total Region 12	0	0	0	0	457
ARMM*	Lanao del Sur	0	0	0	0	0
	Maguindanao	0	0	0	0	0
	Sub-Total	0	0	0	0	0
	Total ARMM	0	0	0	0	0
Total of Study Area		222,027	212,721	305,412	320,620	228,025
PHILIPPINE		271,494	266,975	384,009	401,635	281,985

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-9 CROP PRODUCTION 1995

Region/Province	Prayer	Imagined	Ranked	Com	Coconut	Sugarcane	Banana	Pineapple	Coffee	Mango	Tobacco	Abaca	Rubber	Cassava	Corn	Peas	Onion	Tomato	Eggplant	Cabbage	Others	Total
4	1,185,154	3,415,964	772,130	832,903	250,096	1,416,260	59,557	205,026	10,219	2,482	10,219	205,026	59,557	2,482	10,219	205,026	59,557	2,482	10,219	205,026	59,557	2,482
Manitoba	17,085	4,633	12,652	709	80,073	0	2,295	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Ontario	201,393	119,659	12,415	1,845	0	0	1,626	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Quebec	200,069	137,119	62,950	3,226	30,324	0	1,876	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Prince Edward Island	148,679	64,177	85,502	54,865	79,437	0	5,193	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Saskatchewan	25,059	12,510	12,543	886	92,271	0	3,304	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	932,265	308,104	255,181	72,210	331,306	0	42,880	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 4	992,748	342,818	111,070	1,658,236	1,968,236	0	1,876	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
5	60,544	7,205	53,248	18,332	183,287	0	2,460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Manitoba	598,618	445,492	153,120	101,482	351,428	0	44,066	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Atlantic	112,178	76,463	33,715	187	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Antique	112,604	86,892	25,712	1,176	34,697	0	10,718	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Capiz	239,821	80,070	178,751	9,612	29,712	0	7,059	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Iloilo (Guimaras)	580,264	340,098	240,106	28,353	69,245	0	1,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Negros Occidental	246,608	182,123	84,385	19,802	71,904	0	41,549	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	1,291,276	747,946	543,629	57,860	238,869	0	103,457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 6	1,291,276	747,946	543,629	57,860	238,869	0	103,457	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
7	152,360	48,093	103,697	24,003	103,457	0	18,011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Bohol	152,360	48,093	103,697	24,003	103,457	0	18,011	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cebu	11,302	9,201	2,041	96,384	527,872	0	48,682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Negros Oriental	65,631	56,816	9,015	53,376	145,694	0	1,155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Siquijor	1,296	1,076	190	4,897	11,434	0	756	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	230,559	115,816	114,943	248,743	370,543	0	2,023,146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 7	230,559	115,816	114,943	248,743	370,543	0	2,023,146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
8	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laos (Bavien)	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Laos	46,569	38,596	8,003	5,614	33,478	0	44,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Samar	28,130	3,467	22,663	85	119,255	0	3,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Samar	51,403	7,387	44,516	6,864	133,358	0	12,028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western Samar	56,579	7,117	49,462	6,851	187,683	0	31,892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 8	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laos (Bavien)	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Laos	46,569	38,596	8,003	5,614	33,478	0	44,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Samar	28,130	3,467	22,663	85	119,255	0	3,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Samar	51,403	7,387	44,516	6,864	133,358	0	12,028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western Samar	56,579	7,117	49,462	6,851	187,683	0	31,892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 9	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laos (Bavien)	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Laos	46,569	38,596	8,003	5,614	33,478	0	44,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Samar	28,130	3,467	22,663	85	119,255	0	3,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Samar	51,403	7,387	44,516	6,864	133,358	0	12,028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western Samar	56,579	7,117	49,462	6,851	187,683	0	31,892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 10	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
11	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laos (Bavien)	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Southern Laos	46,569	38,596	8,003	5,614	33,478	0	44,883	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Eastern Samar	28,130	3,467	22,663	85	119,255	0	3,931	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Northern Samar	51,403	7,387	44,516	6,864	133,358	0	12,028	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Western Samar	56,579	7,117	49,462	6,851	187,683	0	31,892	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sub-Total	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Region 11	446,957	284,940	181,109	47,198	824,537	0	1,032,017	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Laos (Bavien)	264,876	208,412	56,464	27,904	350,783	0	852,977	0	0	0	0	0	0	0	0	0	0	0	0</			

APPENDIX 2.3-9 CROP PRODUCTION

a) Palay

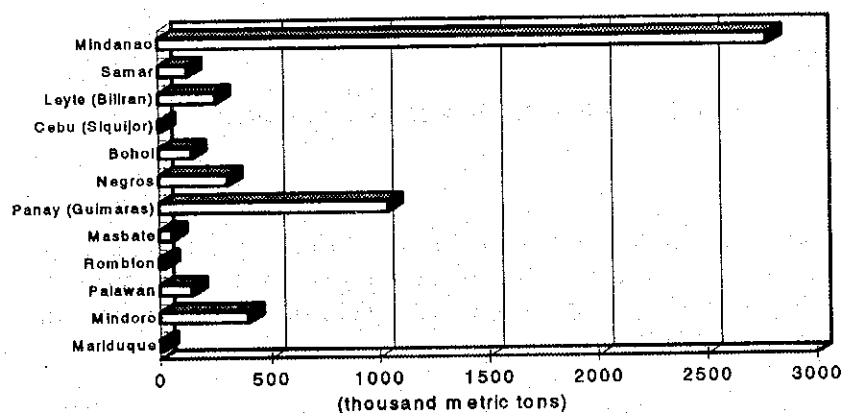
The major production crop is palay, which is unhulled rice with husk. The conversion of palay to rice is multiplying the rate 0.654. Palay is classified into 'irrigated palay' and 'rain-fed palay' and the average yield of irrigated palay is more than that of rain-fed palay.

The production quantity of palay was 10.5 million metric tons (m.m.t) in 1995, which is third largest by crop. It attained the level of 10 m.m.t mentioned in the Medium-Term Philippine Development Plan (93-98).

In the Study Area, palay was produced 5.4 m.m.t accounting for 51% to the country. Rain-fed palay is rather small in portion while irrigated palay formed 64%.

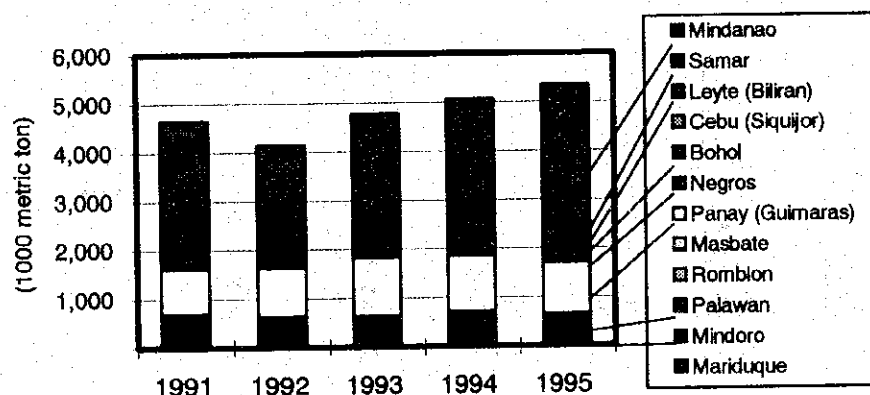
The provinces which produced more than 250 thousand m.t of palay in the Study Area was Iloilo (Region VI), Leyte (Region VIII), Zamboanga del Sur (Region IX), Bukidnon (Region X), North Cotabato (Region XII) and Sultan Kudarat (Region XII).

Palay production remarkably increased in 1994 by 12% and no obvious change was in 1995.



Source: BAS

PALAY PRODUCTION QUANTITY BY ISLAND 1995



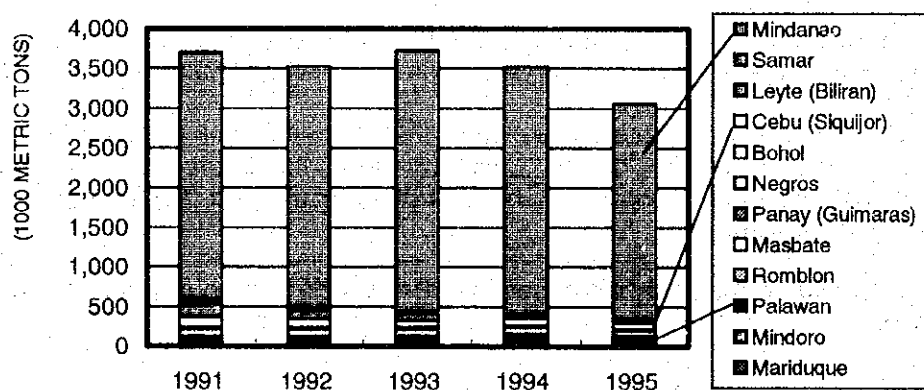
Source: BAS

TREND OF PALAY PRODUCTION QUANTITY BY ISLAND

b) Corn

Corn production decreased 3% annually during 1991 -95 in accordance with the reduction of the harvested area, although MTPDP described that corn production shall grow by 5.6% annually for self-sufficiency in livestock/poultry feed requirement.

In the Study Area, South Cotabato (Region XI) and Bukidnon (Region X) were major producers and account for 15% and 13% of Philippines (4 m.m.t), respectively in 1995.



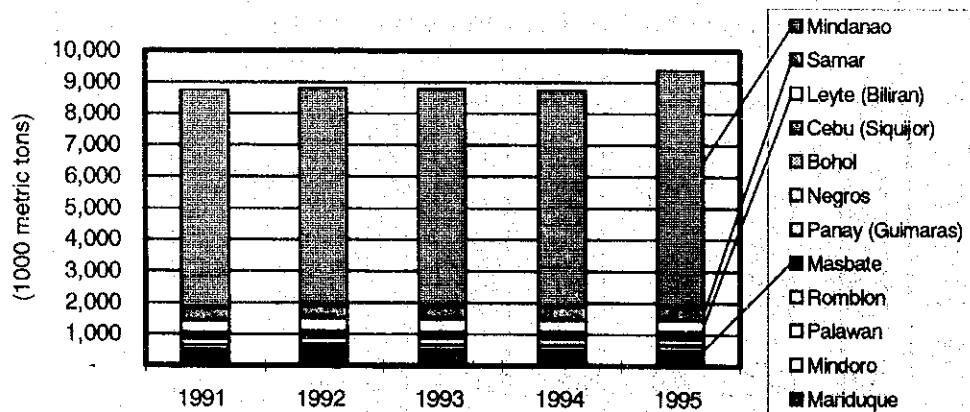
Source: BAS

TREND OF CORN PRODUCTION QUANTITY BY ISLAND

c) Coconut

The total coconut production kept the same level of 11 to 12 m.m.t during 1990 - 95. The share of Davao Oriental and South Cotabato was large and accounted for 16% and 13%, respectively. The yield of Davao Oriental and South Cotabato was also high.

The activities of copra processing etc. contributed to the growth of GVA of coconut.

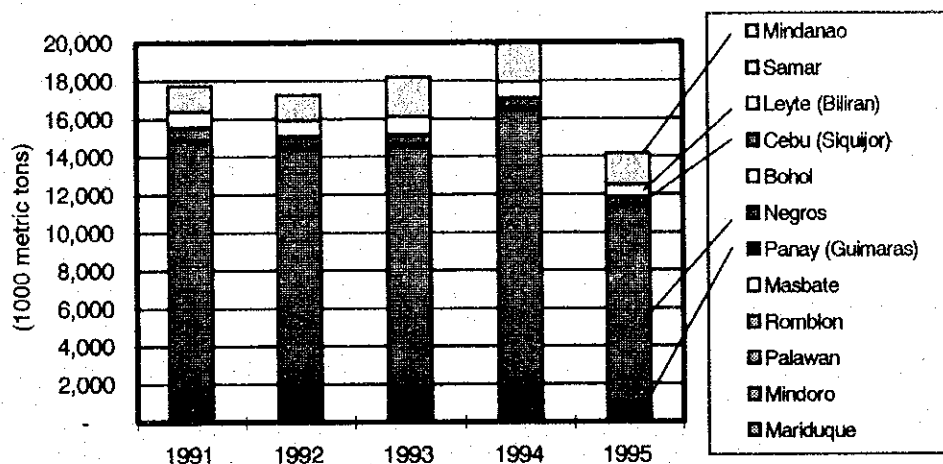


Source: BAS

TREND OF COCONUT PRODUCTION QUANTITY BY ISLAND

d) Sugarcane

Negros Island produced 59% of sugarcane. The production quantity had increased until 1994, however it decreased by 29% in 1995. There was unstable and unclear condition in international price, yet no drastic change in the near future would be expected. The average yield was 62 ton/ha in 1995 which was decreased from 82 ton/ha in 1992. There are rooms for increase in production.



Source: BAS

TREND OF SUGARCANE PRODUCTION QUANTITY BY ISLAND

e) Other Crops

The characteristic crops in the Study Area are as follows;

Banana was produced 818 t.m.t in Davao (27%).

Pineapple was mainly harvested in Bukidnon (54%) and South Cotabato (37%).

Cacao in Davao del Sur accounted for 45% with the quantity of 3 t.m.t.

APPENDIX 2.3-10 CROP AREA HARVESTED 1995

Region	Province	Pawpaw	Impigat	Ranifed	Corn	Coconut	Sugarcane	Banana	Pineapple	Coffee	Mango	Tobacco	Abaca	Rubber	Cacao	Cassava	Camote	Peanut	Mango	Onion	Garlic	Tomato	Eggplant	Cabbage	Others	Total
(unit: ha)																										
4	Manila	1,347,305	1,018,352	328,953	342,304	40,242	34,111	31,595	437	10,435	31,063	47,078	21,753	32,108	18,784	8,404	5,444	9,349	8,968	5,386	232,587	2,233,003				
	Occidental Mindoro	18,280	2,790	15,500	1,120	34,205	0	446	0	20	79	0	65	228	132	71	1	12	162	0	6,411	61,285				
	Occidental Mindoro	62,113	35,193	26,920	7,539	4,965	0	510	0	233	1,835	0	368	693	132	917	50	387	107	419	9	8,319	89,094			
	Occidental Mindoro	76,122	45,962	28,460	5,223	27,827	0	8,064	0	996	80	0	1,092	0	48	368	402	30	40	16	14	43	2	14,304	136,733	
5	Palawan	71,668	24,100	47,768	27,154	1,268	0	269	111	0	0	0	0	0	0	1	844	663	346	30	0	50	62	0	14,828	
	Palawan	16,835	5,195	11,640	1,555	26,941	0	1,878	17	20	81	57	0	0	6	491	364	37	64	5	28	30	164	0	5,675	
	Romblon	247,228	116,940	130,288	42,681	118,259	0	12,169	21	1,325	545	1,082	1,087	0	57	1,935	2,440	652	762	56	416	213	869	11	50,537	
	Sub-Total	410,186	223,931	196,337	86,978	515,260	26,062	40,260	6,635	20,016	7,612	1,662	1,097	0	382	10,032	8,988	2,775	1,766	84	800	1,762	2,445	237	132,681	
6	Marikina	42,200	3,110	40,090	41,313	72,885	0	1,321	0	0	41	0	0	0	0	4	848	1,053	37	71	0	0	0	0	18,780	
	Alcala	37,880	21,300	16,590	1,310	26,538	0	7,553	57	100	322	0	419	0	370	26,850	29,535	1,469	337	10	103	882	1,313	274	103,151	
	Antique	33,210	15,530	2,140	8,942	0	1,225	3	55	232	10	79	0	79	23	302	575	237	1,504	2	2	60	10	9	7,467	
	Capiz	92,570	18,820	73,850	8,950	9,944	6,398	2,369	13	1,962	54	0	0	24	643	731	46	30	40	82	0	20	82	0	14,474	
7	Iloilo (Guimaras)	207,610	95,760	111,650	22,030	30,945	12,342	21,796	255	2,894	9,487	137	99	0	52	1,286	3,294	1,186	965	20	40	1,003	959	55	36,867	
	Negros Occidental	81,480	55,940	26,940	35,150	34,375	151,770	7,915	208	3,468	1,651	51	317	0	387	5,575	2,908	759	820	0	0	105	226	68	38,179	
	Sub-Total	468,290	224,730	243,590	65,580	112,844	170,509	40,877	533	8,308	11,727	208	513	0	532	8,163	7,481	2,267	3,218	22	43	1,228	1,323	124	195,114	
	Total Region 6	882,476	449,460	487,180	131,160	225,689	183,811	129	1,161	14,242	366	99	112	11,561	14,242	366	12	270	123	20	22,142	21,658				
8	Bohol	82,820	16,930	65,870	34,160	41,954	0	2,831	13	647	271	14	20	0	112	11,561	14,242	366	99	12	0	270	123	20	22,142	
	Cebu	51,130	3,475	1,655	134,830	43,326	8,685	6,639	25	18	4,804	587	0	0	41	3,581	2,590	2,147	1,443	0	10	1,202	1,031	666	25,325	
	Negros Oriental	23,835	19,190	4,845	87,740	43,793	16,070	3,150	581	48	0	0	0	0	51	2,400	1,327	435	428	20	0	180	264	57	21,212	
	Sub-Total	157,785	39,635	72,360	226,730	88,075	24,754	13,160	624	660	5,825	630	214	15,028	18,333	3,334	2,148	32	1,965	1,620	746	70,504				
9	La Leyte (Biliran)	112,630	40,270	72,360	265,733	132,114	24,754	13,160	624	660	5,825	630	214	15,028	18,333	3,334	2,148	32	1,965	1,620	746	70,504				
	Southern Leyte	88,526	70,401	28,125	37,574	151,780	0	4,277	161	129	19	0	0	0	180	6,507	3,303	500	334	0	0	28	141	14	38,453	
	Eastern Samar	14,410	11,275	3,135	7,100	28,391	0	10,105	6	378	0	4	0	0	143	8,315	7,058	57	44	0	0	30	34	13	9,304	
	Sub-Total	117,046	81,676	103,485	240,904	180,161	24,754	13,160	624	660	5,825	630	214	15,028	18,333	3,334	2,148	32	1,965	1,620	746	70,504				
10	Surigao del Norte	37,655	3,350	34,305	7,650	70,807	0	4,900	2	0	0	0	0	0	92	2,278	7,462	9	3	0	0	2	16	0	16,999	
	Northern Samar	41,820	3,960	37,860	10,032	35,805	0	5,920	225	4	23	0	0	0	57	5,934	4,874	214	20	0	0	83	307	27	84,203	
	Sub-Total	79,475	7,310	72,220	17,682	106,612	0	10,840	229	4	23	0	0	0	149	11,368	12,338	238	307	0	0	115	314	14	98,453	
	Total Region 9	1,479,751	622,190	1,074,360	303,342	332,301	183,811	129	1,161	14,242	366	99	112	11,561	14,242	366	12	270	123	20	22,142	21,658				
11	Agusan del Norte	30,158	11,168	18,990	71,519	150,031	0	4,628	2	16	322	0	28	2,888	255	935	305	40	54	15	0	119	41	11	30,569	
	Agusan del Sur	89,463	61,535	57,066	124,509	184,310	0	9,973	310	1,414	1,312	26	210	28,164	579	3,242	1,066	57	485	0	0	165	369	59	53,705	
	Sub-Total	119,621	73,070	114,076	196,028	334,341	0	14,901	312	1,479	1,634	26	228	31,038	586	3,559	15	0	315	410	70	84,271	70	84,271	127,286	
	Total Region 10	1,479,751	622,190	1,074,360	303,342	332,301	183,811	129	1,161	14,242	366	99	112	11,561	14,242	366	12	270	123	20	22,142	21,658				
12	Davao	213,715	152,593	61,216	351,867	362,787	20,568	50,741	48,168	36,459	1,714	4,318	8,882	11,781	3,065	17,916	15,819	686	955	9	0	1,720	772	418	131,537	
	Davao City	57,170	53,600	3,370	67,550	92,448	0	33,884	12	8,653	66	8	1,501	5,375	774	1,219	314	109	325	0	0	60	174	40	31,608	
	Davao del Sur	16,355	3,240	13,115	23,060	37,887	0	3,777	1,154	8,853	392	10	693	2,947	151	284	406	206	0	0	0	119	298	255	11,291	
	Sub-Total	74,525	56,840	16,485	90,610	130,335	0	37,661	12	19,717	658	12	2,617	4,099	510	1,556	119	960	200	0	0	281	46	124	25,633	
13	Davao Oriental	11,440	8,190	3,450	58,960	152,833	0	4,389	21	1,798	430	17	119	0	132	406	855	30	79	0	0	50	133	17	27,202	
	Surigao del Sur	33,430	16,320	17,110	4,166	59,542	0	15,617	35	2,796	20	4	974	77	234	2,202	5,008	97	56	0	0	40	86	9	14,581	
	Sub-Total	44,870	24,440	24,440	63,126	119,377	0	17,134	66	18,386	4,081	3,427	321	530	188	157	25	30	70	123	44	58,325				
	Total Region 11	1,479,751	622,190	1,074,360	303,342	332,301	183,811	129	1,161	14,242	366	99	112	11,561	14,242	366	12	270	123	20	22,142	21,658				
14	Marikina	42,200	3,110	40,090	41,313	72,885	0	1,321	0	0	41	0	0	0	0	4	848	1,053	37	71	0	0	0	0	18,780	
	Alcala	37,880	21,300	16,590	1,310	26,538	0	7,553	57	100	322	0	419	0	370	26,850	29,535	1,469	337	10	103	882	1,313	274	103,151	
	Antique	33,210	15,530	2,140	8,942	0	1,225	3	55	232	10	79	0	79	23	302	575	237	1,504	2	2	60	10	9	7,467	
	Capiz	92,570	18,820	73,850	8,950	9,944	6,398	2,369	13	1,962	54	0	0	24	643	731	46	30	40	82	0	20	82	0	14,474	
15	Iloilo (Guimaras)	207,610	95,760	111,650	22,030	30,945	12,342	21,796	255	2,894	9,487	137	99	0	52	1,286	3,294	1,186	965	20	40	1,003	959	55	36,867	
	Negros Occidental	81,480	55,940	26,940	35,150	34,375	151,770	7,915	208	3,468	1,651	51	317	0	387	5,575	2,908	759	820	0</						

CROP AREA HARVESTED 1990

Region	Provincia	Páyo	Irigated	Rainfed	Corn	Coconut	Sugarcane	Banana	Pineapple	Coffee	Mango	Tabacco	Aluca	Rubber	Cacao	Cassaba	Cannote	Peanut	Mungo	Onion	Garlic	Tonato	Export	Cabbage	Others	Total	
4	Manocheve	12,760	1,170	13,930	1,510	36,715	0	517	0	24	62	5	7	0	4	57	152	146	67	37	44	20	37	0	5,590		
		58,470	36,720	22,750	5,160	4,992	0	640	0	0	0	294	1,500	0	0	0	764	525	715	730	80	428	362	16	8,370		
		39,570	36,570	35,480	6,570	26,670	0	8,403	0	2,403	12	1,140	84	0	1,185	32	439	552	8	135	19	53	30	44	4	13,347	
		75,960	39,570	28,410	10,670	26,660	0	2,083	6	325	94	0	0	0	0	2	367	630	332	27	7	35	48	81	0	8,179	
		33,530	20,410	10,670	26,660	0	2,083	6	325	94	0	0	0	0	0	2	367	630	332	27	7	35	48	81	0	8,179	
		16,530	5,240	11,290	7,860	27,292	0	1,360	1	1,360	21	1,07	107	0	0	12	494	481	40	121	108	772	570	663	20	41,446	
		197,360	92,820	104,540	31,770	123,167	0	13,003	39	1,549	575	1,612	1,812	0	50	2,111	2,750	1,241	1,001	1,001	153	1,344	2,743	2,060	270	141,210	
		381,380	209,390	171,890	54,540	21,885	42,752	21,885	42,752	0	13	38	18	0	0	448	10,241	8,693	3,369	2,611	1,359	1,359	18,147	18,147	0	1,404,027	
		34,860	3,500	31,360	96,860	74,080	0	1,071	0	9,498	2,717	3,368	195	18	40,885	0	485	32,113	31,746	1,147	410	1	99	511	790	215	1,005,668
		275,070	167,970	107,700	193,510	366,853	801	6,579	34	114	232	0	41	405	0	485	32,113	31,746	1,147	410	1	99	511	790	215	1,005,668	
5	Atlan	33,465	18,120	15,330	1,450	30,875	0	6,579	34	114	232	0	41	405	0	485	32,113	31,746	1,147	410	1	99	511	790	215	1,005,668	
		34,280	23,820	10,460	3,760	9,140	0	1,258	4	62	217	15	100	0	26	316	522	194	2,520	194	3	2	100	87	10	5,744	
		28,090	13,870	11,040	1,040	10,061	4,560	1,408	10	2,068	46	0	2	0	31	873	887	48	52	0	22	119	0	6,589	66,944		
		150,980	53,880	96,790	20,220	29,109	10,155	22,534	140	2,712	8,013	536	80	36	1,933	2,697	1,256	669	1,256	669	12	5	1,100	828	50	27,456	
		74,490	45,470	28,960	26,960	35,629	121,249	8,424	98	3,625	1,434	267	353	0	900	6,407	3,550	760	1,296	0	0	133	242	55	318,648		
		321,020	155,170	186,750	63,070	114,034	135,954	40,203	286	8,569	9,992	818	920	0	1,056	8,898	8,092	2,328	4,028	15	7	1,373	1,421	135	78,124		
		53,510	12,650	50,860	37,200	42,711	0	2,622	5	730	246	0	20	0	125	12,833	12,665	408	128	25	0	350	163	16	18,947		
		9,320	5,010	4,310	302,840	8,675	22	36	3,616	1,080	50	0	34	3,762	3,820	1,110	0	21	1,0								
		39,490	37,800	1,690	135,580	45,562	14,559	2,460	152	474	762	86	1,046	0	60	2,210	724	368	425	3	4	230	968	488	48,015		
		1,150	990	160	15,530	2,967	0	344	5	8	77	0	0	0	8	1,000	114	226	180	0	0	4	11	0	2,427	24,659	
6	Laynes (Barras)	113,070	58,490	57,020	551,150	136,500	23,234	11,611	184	1,250	4,701	1,166	1,116	0	225	20,405	16,233	2,464	1,623	28	25	1,619	1,460	554	97,097	896,465	
		90,420	59,790	36,930	188,070	146,830	0,246	17,655	115	218	15	54	27,637	0	182	9,541	3,589	637	475	91	4	65	201	18	51,963	527,940	
		10,140	6,760	3,390	17,330	30,005	0	5,905	6	472	0	3	3,156	0	175	8,447	4,810	60	37	0	22	28	79	0	2,583	67,305	
		14,900	386	14,520	0	44,710	0	1,123	40	21	57	10	5	0	29	2,703	2,642	113	25	0	0	28	79	0	7,259	73,744	
		40,760	1,150	36,620	19,140	73,497	0	4,155	3	0	0	0	0	11,401	0	1,101	3,383	6,324	13	4	4	0	17	343	176,169		
		43,070	3,020	40,050	26,850	37,158	0	4,949	179	7	7	20	0	825	0	0	4,765	4,434	181	22	0	14	20	0	13,473	136,977	
		200,710	171,120	128,860	231,430	334,203	8,246	33,707	343	718	32	67	43,024	0	506	20,639	22,215	981	336	0	0	131	370	34	98,033	1,022,065	
		35,760	9,940	25,840	110,237	0	3,743	4	48	285	0	20	2,745	0	252	947	263	46	57	16	0	40	29	10	29,106	296,700	
		84,360	54,710	32,650	172,900	96,060	605	605	85	18	27,867	409	1,890	85	38	30,712	2,930	2,793	1,274	424	0	115	178	16	50,325	511,276	
		124,140	64,650	59,490	276,570	278,373	62	653	85	36	30,712	751	2,630	2,793	1,274	424	0	153	205	26	79,430	906,875					
7	Bulidion	71,460	58,140	13,350	195,710	4,097	14,890	34,450	274	0	4,562	4,520	558	3,589	637	475	91	4	65	201	18	51,963	527,940				
		56,517	34,744	21,673	24,090	29,417	0	7,536	8	1,346	90	10	300	23	235	1,120	2,307	20	307	0	61	30	19	13,754	139,736		
		18,800	8,750	10,050	25,770	8,428	0	7,828	41	2,289	40	8	2,700	10,423	2,662	250	2,484	109	132	0	13	139	27	8,903	90,446		
		18,910	17,760	830	90	118,959	36	58	14	6	0	0	334	4,641	5,037	22	0	17	44	8	9	16,889	171,581				
		8,070	8,150	520	14,430	109,038	0	2,647	8	184	149	0	0	131	751	1	145	101	393	0	104	62	26	14,444	167,874		
		9,390	8,530	860	53,940	78,282	0	10,624	6	8,531	689	1,289	290	0	263	95	4,113	763	89	268	0	288	242	63	18,462	187,874	
		183,577	136,094	47,463	314,020	349,171	14,990	36,641	34,460	37,886	1,459	1,324	7,932	15,229	3,413	14,464	11,373	981	1,381	4	0	1,494	639	336	112,714	1,445,121	
		184,287	136,804	47,463	315,450	349,537	14,990	36,641	34,460	37,886	1,527	1,324	7,937	15,228	3,468	15,510	12,108	844	1,404	4	0	1,504	638	335	112,714	1,477,726	
		80,960	56,810	23,480	156,450	44,564	0	26,661	11	6,346	62	10	1,895	4,210	700	1,405	3,143	137	0	0	63	128	41	41,027	417,421		
		90,960	4,530	5,120	12,900	39,618	0	3,463	2,968	8,963	326	5	10	670	2,636	165	335	326	120	0	136	190	222	0	3,766	89,359	
8	Devao de Sur	32,460	26,440	5,960	50,740	97,756	2,282	3,573	29	15,795	521	14	215	865	4,782	1,105	750	184	703	22	0	323	57	126	22,938	233,255	
		13,620	12,640	1,180	65,200	157,081	0	3,861	19	1,618	381	10	100	0	95	86	550	609	35	95	0	91	178	16	28,648	270,738	
		30,150	12,850	17,300	18,810	61,528	0	16,280	129	2,996	18	8	1,000	66	290	3,844	7,833	100	50	0	19	107	1	15,038	150,877		
		40,960	31,160	9,500	498,510	115,454	0	1,983	14,455	3,711	1,983	45	48	124	345	48	749	648	228	31	24	0	132	101	72,885	701,495	
		208,770	144,220	62,540	792,310	585,902	2,282	58,951	16,911	39,422	3,271	47	3,225	5,609	8,627	7,718	13,087	815	1,325	46	0	764	762	475	188,713	1,971,742	
		22,530	19,770	2,750	77,590	59,591	0	11,164	28	1,725	20	0	100	0	120	135	565	1,550	482	48	0	18	31	6	13,296	196,033	
		58,970	45,820	12,850	179,980	11,800	1	1,138	8	1,975	328	4	1,200	21,800	135	1221	719	185	328	0	95	64	85	30,523	310,960		
		58,550	38,470	31,960	39,230	28,849	0	3,669	3	3,884	40	15	5	31	30	87	53	327	8	0	33	33	22	4	15,033	157,503	
		149,540	102,060	47,680	298,890	100,240	0	12,691	39	7,584	389	57	1,305	21,631	2,023	1,856	2,559	730	703	0	146	117	98	67,321	883,632		
		27,460	2,410	25,050	119,780	43,356	0	3,566	1	2,488	31	0	2,900	70	359	36	1,022	157	159	2,900	0	0	125	156	80	32,562	330,818
9	Magandano	64,710	21,540	43,170	155,830	57,754	0	7,600	0	3,318	465	3,300	70	359	36	1,022	157	159	2,900	0	0	125	156	80	32,562	330,818	
		92,970	23,650	69,320	275,610	103,110	0	11,366	4	5,806	528	3	3,300	2,670	359	1,361	32,214	762	485	0	0	146	117	98	67,321	883,632	
		1,258,997	659,344	584,983	2,441,010	184,267	52,412	89,450	20,125	5,052	57,899	21,038	13,961	82,544	74,787	19,536	31,674	10,544	201	804	5,860	3,704	1,553	633,646	6,457,876		
		37,394	32,884	45,784	78,554	64,784	87,874	64,784	78,554	64,784	87,874	64,784	78,554	64,784	87,874	64,784	78,554	64,784	87,874	64,784	87,874	64,784	87,874	64,784	87,874	64,784	87,874
		3,318,720	2,003,830	1,308,760	3,111,978	235,270	300,200	60,700	143,160	143,160																	

Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-12 CROP AVERAGE YIELD 1995

Crop Average Yield		(unit : metric ton / ha)																						
Region	Province	Palay	Irrigated	Rainfed	Coconut	Sugarcane	Banana	Pineapple	Coffee	Mango	Tabacco	Abaca	Rubber	Cacao	Cassava	Cornote	Peanut	Mungo	Onion	Garlic	Tomato	Eggplant	Cabbage	
4	Marikina	3.11	3.36	2.35	2.43	6.30	5.06	5.06	0.99	6.63		#DIV/0!			0.56	0.59	0.85	0.83	0.83	10.44	2.44	8.13	7.85	12.84
		0.53	1.66	0.80	0.63	2.60	5.11	5.11	0.64	0.70		0.48		1.65	5.96	3.37	0.63	0.63	3.36	4.27	3.25	3.37		
		3.24	3.40	3.04	1.63	7.67	3.62	3.62	1.94	4.04	0.96				1.65	9.75	8.03	0.63	0.63	4.45	4.31	1.34	3.63	
		2.56	2.76	2.21	2.02	3.25	3.76	3.76	1.36	4.04		0.03			1.41	4.30	3.01	0.52	0.22	2.48	7.23	4.81	7.20	
		2.03	2.66	2.02	1.79	2.02	4.10	4.10	0.85	0.85	11.12	0.88			0.25	1.95	4.37	0.61	0.24		1.34	0.58		
		1.49	2.41	1.08	0.55	3.42	1.76	1.76	2.86	0.03	11.12				0.25	1.95	4.37	0.61	0.24		1.34	0.58		
		2.40	2.89	1.96	1.69	2.80	3.53	3.53	3.81	1.55	4.80	0.99	0.04		1.27	3.97	4.61	0.65	0.75	2.32	4.07	3.22	4.23	
		2.42	2.91	1.84	1.28	3.22	3.53	3.53	7.83	1.13	4.00	0.99	0.04		0.32	6.40	5.37	0.89	0.72	2.45	4.22	8.83	8.55	2.97
		2.32	2.32	1.33	0.44	2.51	2.40	2.40			3.07	0.51			0.46	2.17	0.89	0.29	0.46		4.22	6.48	2.61	
		2.13	2.49	1.49	0.85	1.80	79.19	4.44	12.64	0.23	1.62	0.52	0.78		0.11	8.57	5.72	0.81	0.53	3.47	3.73	6.45	4.25	8.25
5	Marikina	2.13	2.49	1.49	0.85	1.80	79.19	4.44	12.64	0.23	1.62	0.52	0.78		0.11	8.57	5.72	0.81	0.53	3.47	3.73	6.45	4.25	8.25
		2.56	3.68	2.03	0.65	1.12	5.95	5.95	8.19	0.17	1.64		0.78		0.27	7.11	2.39	0.40	0.51		6.71	3.76		
		2.31	2.82	1.66	0.55	3.89	8.75	8.75	8.17	0.84	6.03	0.69	0.12		0.50	0.62	2.86	0.40	0.50	2.99	4.11	3.94	3.50	4.23
		2.59	3.17	2.44	1.07	2.99	61.15	2.96	7.87	1.05	1.85		0.03		0.25	10.04	6.62	0.42	0.42	7.41	6.40	1.34	3.63	
		3.02	3.28	2.48	0.56	2.06	52.47	5.81	7.38	0.33	8.33	0.82	0.27		1.26	5.96	6.79	0.14	1.05	3.35	3.84	16.73	9.08	3.14
		3.02	3.28	2.48	0.56	2.06	52.47	5.81	7.38	0.33	8.33	0.82	0.27		1.26	5.96	6.79	0.14	1.05	3.35	3.84	16.73	9.08	3.14
		2.76	3.33	2.23	0.83	2.11	62.09	5.65	7.40	0.64	8.09	0.77	0.66		0.36	5.24	3.50	0.45	0.64	3.85	6.32	8.38	8.01	
		1.84	2.87	1.57	0.70	2.47	6.38	6.38	8.15	0.19	1.31	0.37	0.14		0.36	5.24	3.50	0.45	0.64	3.85	6.32	8.38	8.01	
		2.20	2.87	1.23	0.49	2.54	60.78	7.12	7.43	0.68	6.51	0.40	0.14		0.24	7.24	5.59	0.71	0.55	2.59	4.92	4.96	3.97	
		2.76	2.96	1.94	0.61	3.33	93.05	4.86	3.37	0.05	5.46	0.42			0.57	2.50	1.97	0.63	0.46	3.28	2.36	2.89	12.46	
6	Marikina	1.48	1.59	1.00	0.55	3.76	2.18	2.18	2.74	0.43	3.21			0.71	2.62	2.97	0.59	0.33		2.27	2.27	4.01		
		2.05	2.88	1.59	0.58	2.80	6.29	6.29	3.62	0.16	6.07	0.40	0.14		0.39	8.31	2.13	0.68	0.32	3.34	2.59	4.13	4.46	4.56
		2.89	2.96	2.01	0.73	2.31	7.31	7.31	8.56	0.09	1.70	0.56	0.26		0.25	4.07	15.68	0.42	0.56		10.86	7.76	8.66	
		3.23	3.42	2.55	0.79	1.18	4.44	4.44	7.60	0.74	0.33	0.44	0.97		0.19	1.68	2.09	0.49	0.34	2.32	2.81	3.52		
		1.86	2.48	1.79	0.72	2.83	2.27	2.27	7.72	0.68	3.75	0.48	0.81		0.10	7.39	2.56	0.26	0.90	8.23	4.39	8.23	5.27	
		1.35	1.80	1.31	0.69	5.24	5.39	5.39	11.54	0.92	2.44		1.81		0.34	1.73	1.77	0.46	0.47		4.59	3.65	6.07	
		2.16	2.83	1.56	0.78	2.51	4.80	4.80	9.99	0.58	3.09	0.53	0.49		0.21	3.58	3.87	0.53	0.89	4.19	7.56	6.36	7.03	
		2.02	3.22	1.92	0.95	2.01	3.70	3.70	7.72	2.37	8.11	0.27	0.75		0.86	5.78	2.83	0.85	0.37		2.32	2.81	3.52	
		3.15	3.51	2.87	1.02	4.89	6.66	6.66	3.05	0.71	10.17	0.27	0.75		2.96	6.54	3.07	0.52	0.54		4.38	4.58	2.77	
		2.87	3.46	2.22	1.00	3.52	5.69	5.69	3.09	0.79	9.76	0.27	0.33		2.72	6.43	6.37	0.53	0.52	3.19	3.61	2.88	2.89	
7	Marikina	2.89	3.45	2.21	1.00	3.38	4.78	4.78	3.23	1.02	9.38	2.24	2.24	0.42	10.32	2.73	0.40	0.52	4.21		3.85	4.41	2.89	
		3.87	4.04	1.81	2.43	7.05	9.73	9.73	15.65	0.80	12.19	1.03			0.83	11.25	10.29	1.11	0.41	5.89		3.02	7.75	
		3.97	4.09	3.90	1.09	2.47	10.96	10.96	15.26	1.19	9.27	0.44	1.05		0.93	5.42	3.99	0.57	0.22		4.31	5.63		
		2.84	2.81	2.49	0.87	0.31	5.44	5.44	7.59	0.17	2.36	0.56	0.27		0.09	4.35	2.17	0.60	0.27	2.29	2.27	8.84		
		2.35	1.68	0.93	1.14	1.14	1.51	1.51	11.17	0.78	8.69	0.55	1.85		0.20	4.64	2.16	0.47	0.24	7.48	6.80	9.78		
		3.14	3.25	1.79	1.95	1.95	5.08	5.08	9.49	0.82	10.34	0.49	0.86		0.38	8.03	5.15	0.53	0.60	6.14	3.04	5.03		
		2.87	2.88	1.82	0.90	3.25	10.52	10.52	8.03	0.40	2.81	0.39	0.86		0.11	9.66	8.30	0.97	0.36		0.60	4.06	6.71	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
8	Marikina	3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
9	Marikina	3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01	88.08	7.58	15.63	0.72	5.03	0.39	1.31		1.86	6.30	3.41	0.91	0.34	5.89	14.63	3.57	7.42	
		3.19	3.43	2.48	1.86	2.01																		

(unit : pesos)

Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-14 LIVESTOCK AND POULTRY INVENTORY 1995

(unit : head)

Region	Province	CATTLE	CARABAO	GOAT	HOG	CHICKEN	DUCK
4	Marinduque	8,701	16,046	11,056	57,270	304,520	12,451
	Occidental Mindoro	22,450	37,101	30,016	47,810	437,546	31,570
	Oriental Mindoro	20,890	28,778	12,593	43,200	696,636	64,136
	Palawan	31,200	20,000	40,100	110,000	329,248	38,282
	Romblon	23,100	14,395	15,928	45,370	601,351	3,345
	Sub-Total	106,341	116,320	109,693	303,650	2,369,301	149,794
	Total Region 4	219,428	240,827	201,249	1,353,450	3,347,230	1,034,482
5	Masbate	40,610	56,841	31,925	73,490	750,299	0
	Total Region 5	122,559	266,695	102,270	519,050	3,675,045	346,767
6	Aklan	15,960	13,429	12,289	67,150	625,098	58,920
	Antique	35,850	30,254	21,796	58,020	888,739	152,644
	Capiz	12,200	35,943	26,282	70,390	716,232	147,894
	Iloilo (Guimaras)	68,180	106,902	114,850	240,850	4,862,160	390,701
	Negros Occidental	44,330	90,538	131,957	249,480	3,586,280	465,080
	Total Region 6	176,520	277,066	307,174	685,870	10,478,509	1,215,239
7	Bohol	69,290	56,144	53,980	201,450	2,131,012	42,525
	Cebu	107,600	42,572	245,448	305,820	4,431,793	62,149
	Negros Oriental	84,380	38,053	116,441	222,030	1,561,470	120,195
	Siquijor	15,360	1,365	25,756	43,010	336,390	5,741
	Total Region 7	276,650	138,134	441,625	772,310	8,462,665	230,610
8	Leyte (Biliran)	22,770	92,336	41,623	396,300	2,554,415	182,413
	Southern Leyte	7,980	13,890	8,567	71,290	421,484	0
	Eastern Samar	1,430	23,504	987	54,480	344,063	0
	Northern Samar	6,970	25,306	10,612	71,140	311,469	18,633
	Western Samar	1,110	26,028	6,942	73,400	328,649	15,718
	Total Region 8	40,260	181,064	68,731	666,610	3,960,080	216,764
9	Zamboanga del Norte	14,900	67,253	57,979	147,240	1,882,584	15,362
	Zamboanga del Sur	23,170	106,902	99,884	265,590	1,996,557	268,271
	Sub-Total	38,070	174,155	157,863	412,830	3,879,141	283,633
	Total Region 9	92,670	183,562	214,342	483,180	5,203,825	308,784
10	Bukidnon	80,560	62,159	43,943	139,240	1,593,365	176,263
	Agusan del Norte	7,630	26,818	35,541	112,440	741,904	58,326
	Agusan del Sur	4,240	22,000	38,267	62,620	346,657	68,634
	Surigao del Norte	1,592	19,013	3,758	62,340	232,167	29,783
	Misamis Occidental	42,890	19,604	28,893	108,610	1,286,379	39,341
	Misamis Oriental	76,950	8,467	89,816	163,040	1,410,885	4,160
	Sub-Total	213,862	158,061	240,218	648,290	5,611,457	376,507
	Total Region 10	218,862	159,261	241,718	665,640	5,893,880	377,796
11	Davao	21,830	48,688	109,730	196,040	1,340,060	256,533
	Davao City	20,510	31,001	49,899	224,950	2,246,174	64,846
	Davao del Sur	37,610	45,220	106,820	112,900	1,499,479	121,830
	Davao Oriental	12,500	26,808	57,653	110,950	803,692	61,093
	Surigao del Sur	1,800	23,287	13,911	85,430	411,051	96,214
	South Cotabato	76,980	59,294	66,097	302,160	1,258,181	118,390
	Total Region 11	171,230	234,298	404,110	1,032,430	7,558,637	716,906
12	Lanao del Norte	26,400	38,231	55,473	62,830	3,929,101	42,438
	North Cotabato	39,610	72,780	85,479	156,620	1,215,300	132,317
	Sultan Kudarat	16,270	109,035	41,428	120,980	780,422	283,028
	Total Region 12	82,280	220,046	182,380	340,430	5,924,823	457,783
ARMM*	Lanao del Sur	42,950	32,335	42,289	1,960	410,605	18,418
	Maguindanao	14,190	65,946	92,726	23,000	709,640	291,048
	Sub-Total	57,140	98,281	135,015	24,960	1,120,245	309,466
	Total ARMM	57,140	98,281	135,015	24,960	1,120,245	309,466
Total of Study Area		1,025,473	1,161,784	1,603,476	4,182,650	39,190,948	2,905,820
PHILIPPINE		2,020,651	2,707,826	2,828,089	8,941,200	96,215,725	9,072,203

(Source : Bureau of Agricultural Statistics)

APPENDIX 2.3-15 FISHERY PRODUCTION 1995

Region/Province	Quantity (ton)		Value (1000 Peso)		% of Value Study Area
	Study Area	Total	Study Area	Total	
NCR	0	289,277	0	11,093,229	0.00%
CAR	0	1,827	0	77,073	0.00%
I	0	49,999	0	2,610,742	0.00%
II	0	17,395	0	716,330	0.00%
III	0	128,277	0	10,988,605	0.00%
IV	108,338	446,615	2,545,419	12,005,162	5.14%
Marinduque	3,284	3,284	453,735	453,735	0.92%
Occidental Mindoro	10,811	10,811	383,099	383,099	0.77%
Oriental Mindoro	9,930	9,930	46,382	46,382	0.09%
Palawan	79,770	79,770	1,556,401	1,556,401	3.14%
Romblon	4,543	4,543	105,802	105,802	0.21%
V	29,312	108,427	997,052	2,891,016	2.01%
Masbate	29,312	29,312	997,052	997,052	2.01%
VI	362,533	362,533	15,773,805	15,773,805	31.85%
Aklan	13,540	13,540	529,031	529,031	1.07%
Antique	11,990	11,990	211,062	211,062	0.43%
Capiz	34,336	34,336	899,601	899,601	1.82%
Iloilo (Guimaras)	139,138	139,138	4,373,846	4,373,846	8.83%
Negros Occidental	163,529	163,529	9,760,265	9,760,265	19.71%
VII	125,008	125,008	4,137,777	4,137,777	8.36%
Bohol	38,715	38,715	1,194,244	1,194,244	2.41%
Cebu	72,608	72,608	2,273,328	2,273,328	4.59%
Negros Oriental	12,466	12,466	647,130	647,130	1.31%
Siquijor	1,219	1,219	23,075	23,075	0.05%
VIII	66,632	66,632	1,847,702	1,847,702	3.73%
Eastern Samar	4,236	4,236	170,070	170,070	0.34%
Leyte (Biliran)	22,049	22,049	608,991	608,991	1.23%
Northern Samar	7,163	7,163	233,447	233,447	0.47%
Western Samar	25,577	25,577	644,686	644,686	1.30%
Southern Leyte	7,607	7,607	190,508	190,508	0.38%
IX*	0	438,098	0	8,838,276	0.00%
Zamboanga del Norte	0	107,341	0	2,782,713	0.00%
Zamboanga del Sur	0	312,210	0	5,831,405	0.00%
X	140,532	145,565	3,853,071	3,948,783	7.78%
Bukidnon	254	254	4,455	4,455	0.01%
Agusan del Norte	9,319	9,319	314,900	314,900	0.64%
Agusan del Sur	253	253	8,801	8,801	0.02%
Surigao del Norte	62,650	62,650	1,681,706	1,681,706	3.40%
Misamis Occidental	6,835	6,835	369,334	369,334	0.75%
Misamis Oriental	61,221	61,221	1,473,875	1,473,875	2.98%
Camiguin*	0	5,033	0	95,712	0.00%
XI	125,375	125,375	5,199,178	5,199,178	10.50%
Davao	4,012	4,012	161,882	161,882	0.33%
Davao City	4,384	4,384	239,281	239,281	0.48%
Davao del Sur	9,830	9,830	500,512	500,512	1.01%
Davao Oriental	11,288	11,288	226,780	226,780	0.46%
Surigao del Sur	25,044	25,044	1,069,623	1,069,623	2.16%
Sarangani	24,201	24,201	1,734,869	1,734,869	3.50%
South Cotabato	46,616	46,616	1,266,231	1,266,231	2.56%
XII*	0	20,404	0	1,764,682	0.00%
Lanao del Norte	0	15,184	0	1,640,172	0.00%
Cotabato	0	21	0	891	0.00%
Sultan Kudarat	0	5,199	0	123,619	0.00%
ARMM*	0	414,720	0	1,949,739	0.00%
Lanao del Sur	0	7,598	0	291,660	0.00%
Maguindanao	0	14,821	0	319,630	0.00%
Total	957,730	1,815,279	34,354,004	49,517,844	69.38%

(Source : BAS, Fishery Statistics 1995)

APPENDIX 2.3-16 ROUNDWOOD PRODUCTION

Year	Roundwood Production (1000 cu.m)			Growth Rate	GVA (million pesos)
	Log	Fuelwood	Total		
1995	758	110	868	-18.3%	2,746
1994	957	106	1,063	-7.7%	4,470
1993	1,022	130	1,152	-34.4%	5,570
1992	1,438	319	1,757	-17.9%	6,763
1991	1,922	219	2,141	-17.5%	6,541
1990	2,503	93	2,596	-19.3%	8,907
1989	3,169	48	3,217	-16.7%	11,141
1988	3,809	54	3,863	-9.2%	13,121
1987	4,147	106	4,253	18.5%	10,907
1986	3,434	154	3,588	-8.3%	9,874
1985	3,568	346	3,914	-8.6%	10,865
1984	3,872	408	4,280	-5.8%	12,403
1983	4,468	77	4,545	-2.8%	7,541
1982	4,586	88	4,674	-15.7%	7,351
1981	5,420	122	5,542	-14.2%	6,151
1980	6,368	94	6,462		6,743

(Source : Philippine Forestry Statistics 1995)

LOG PRODUCTION BY PROVINCE IN 1995

Region	Province	Log Production (cu.m)	
7	Cebu	486	0.1%
		486	0.1%
9	Zamboanga del Norte Zamboanga del Sur	44,875	5.9%
		39,254	5.2%
		5,621	0.7%
10	Agsan del Sur Agsan del Norte	73,273	9.7%
		64,968	8.6%
		8,317	1.1%
11	South Cotabato Davao del Norte Davao Oriental Surigao del Sur Davao del Sur	426,726	56.3%
		13,669	1.8%
		20,048	2.6%
		22,534	3.0%
		369,716	48.7%
12	Lanao del Norte Lanao del Sur Sultan Kudarat	5,756	0.8%
		29,466	3.9%
		3,534	0.5%
		4,655	0.6%
ARMM	Magundanao Lanao del Sur	21,277	2.8%
		74,878	9.9%
		37,432	4.9%
Others		37,455	4.9%
		108,786	14.3%
Philippine		758,490	100.0%

(DENR, Forest Management Bureau)

APPENDIX 2.3-17 MINERAL PRODUCTION 1992 AND 1993 (1/3)

Region/Province	Item	Quantity (Metric Ton)		Value (Peso)	
		1993	1992	1993	1992
IV		1,280,960	1,544,479	2,309,343,812	1,895,144,737
Marinduque	Metallics:	177,478	93,878	1,438,990,853	922,464,928
	Gold	0.336	0.168	97,981,837	41,513,394
	Silver	4.62	2.77	13,485,282	6,940,189
	Copper (Metal)	38,568	20,882	1,325,529,734	874,011,345
	Copper Concentrates	138,905	72,993	-	-
	Non-Metallics:	97,589	89,039	7,253,006	5,750,848
Occidental Mindoro	Quicklime	3,441	-	-	-
	Sand and Gravel	94,148	69,039	7,253,006	5,750,848
	Non-Metallics:	139,731	132,521	509,617,706	382,523,167
	Greenstones	20	-	50,000	-
	Salt _D/	82,638	85,776	505,803,480	379,559,543
	Sand and Gravel _D/	47,073	44,518	3,764,226	2,879,474
Oriental Mindoro	Marble	-	676	-	38,250
	Crushed Stone	-	1,551	-	45,900
	Non-Metallics:	269,359	252,365	58,240,550	30,363,521
	Marble (Unprocessed)	3,944	406	587,104	170,488
	Sand and Gravel _D/	265,415	251,007	57,653,446	38,153,033
	Stones, Cobbles, Boulders	-	952	-	40,000
Palawan	Metallics:	267,166	492,244	248,468,097	499,147,584
	Nickel (Metal)	5,968	11,011	248,468,097	485,666,052
	Nickel (Beneficiated Ore)	261,200	474,796	-	-
	Mst. Chromite Ore (SSM)	-	6,437	-	13,481,532
	Non-Metallics:	97,477	251,569	36,578,251	30,740,325
	Salt _D/	3,213	2,975	15,807,980	13,163,915
Rombion	Pebbles	1,280	83	284,200	8,000
	Silica Sand	45,911	204,013	11,477,750	14,668,936
	Sand and Gravel _D/	47,073	44,518	9,008,341	2,879,474
	Non-Metallics:	232,160	232,863	12,189,349	16,146,264
	Marble (Unprocessed)	716	1,582	89,844	1,739,349
	Pebbles	-	12,380	-	169,500
V	Sand and Gravel _D/	231,444	218,881	12,099,505	14,157,415
	Gabbro	-	20	-	80,000
	Metallics:	145,148	142,386	586,783,589	588,495,844
	Gold	3.12	4.08	584,342,819	673,997,901
	Silver	1.86	2.42	579,801,371	669,082,999
	Non-Metallics:	145,143	142,382	15,440,750	14,497,943
VI	Coal	145,143	137,264	15,440,750	5,619,564
	Sand and Gravel _D/	-	-	-	8,876,379
	Metallics:	5,805,459	5,611,603	2,739,745,658	3,151,286,073
	Gold	-	-	-	-
	Silver	-	-	-	-
	Non-Metallics:	-	-	-	-
Aklan	Coal	-	-	-	-
	Sand and Gravel _D/	-	-	-	-
	Silica Quartz	-	-	-	-
	Non-Metallics:	243,491	226,300	7,812,269	14,637,327
	Sand and Gravel _D/	239,291	226,300	7,812,269	14,637,327
	Silica Quartz	4,200	-	6,818,269	14,637,327
Antique	Non-Metallics:	1,278,969	1,250,680	815,075,930	913,813,383
	Coal	788,914	795,600	788,914,000	873,568,800
	Marble (Unprocessed)	8,798	-	273,800	-
	Salt _D/	2,677	2,479	5,354,000	10,969,929
	Sand and Gravel _D/	478,580	452,601	20,534,130	29,274,654
	Non-Metallics:	2,491,072	2,355,835	220,146,324	152,412,177
Capiz	Sand and Gravel _D/	2,490,977	2,355,755	220,096,324	152,372,177
	Hydrated Lime	45	-	-	-
	White Clay	50	80	50,000	40,000
	Non-Metallics:	150,440	139,010	369,200,168	608,582,079
	Black Clay	1,820	392	910,000	196,000
	Guano	315	-	15,752	-
Iloilo	Salt _D/	147,847	136,895	368,139,030	605,759,479
	Limestone for Indl	-	560	-	168,000
	Hydrated Lime	-	74	-	-
	White Clay	370	974	82,586	389,800
	Rock Phosphate	88	115	52,800	69,000
	Non-Metallics:	125,999	111,804	1,100,332,414	1,325,938,400
Negros Occidental	Gold	0.16	0.17	49,261,680	43,236,176
	Silver	5.8	5.23	19,793,668	15,447,167
	Copper (Metal)	26,631	22,830	19,793,668	1,266,953,057
	Copper Concentrate	99,362	88,619	1,011,483,398	-
	Manganese (SSM)	-	150	-	300,000
	Non-Metallics:	1,615,468	1,526,174	227,178,553	137,904,707
VII	Andesite	-	114	-	39,900
	Coal	15,984	12,578	15,984,000	13,810,644
	Dolomite	-	520	-	10,000
	Guano	3,851	6	-	6,000
	Limestone for Agr'l. Use	-	3,098	-	169,975
	Limestone for Indl.	-	1,115	-	94,994
Bohol	Hydrated Lime	-	821	-	-
	Quicklime	-	860	-	-
	Rock Phosphate	495	601	173,250	253,210
	Salt _D/	6,426	5,950	31,101,840	26,327,830
	Sand and Gravel _D/	1,588,732	1,502,489	179,533,431	97,182,254
	Silica Sand	-	22	-	9,900
Cebu	Metallics:	126,656	188,588	1,813,934,471	2,337,506,340
	Gold	-	-	-	-
	Silver	-	-	-	-
	Copper (Metal)	-	-	-	-
	Copper Concentrate	-	-	-	-
	Manganese (SSM)	-	-	-	-

APPENDIX 2.3-17 MINERAL PRODUCTION 1992 AND 1993 (2/3)

Region/Province	Item	Quantity (Metric Ton)		Value (Peso)	
		1993	1992	1993	1992
	Gold	0.70	0.82	201,318,207	228,278,943
	Silver	3.10	0.37	10,063,897	11,430,727
	Copper (Metal)	29,143	41,861	1,602,354,367	2,099,798,670
	Copper (Concentrate)	97,509	146,726		
	Non-Metallics:	7,379,314	7,437,054	580,885,173	843,041,585
	Andesite	271	96,848		18,184,557
	Bentonite	10	314	41,174	651,600
	Blackstone	416,284	208,017	700	246,800
	Cement	198,140	213,293	198,140,000	234,195,714
	Coal		68		53,250
	Coralline	483,895	658,302	79,112,600	133,409,780
	Dolomite	777	194	388,500	38,594
	Fossilized Limestones	29,604	29,500	1,776,240	1,770,000
	Graywacke/Sandstone		291		58,200
	Guano	229	37		
	Hydrated Lime	3,270	3,473	270,000	304,762
	Limestone for Agr'l. Use	308,208	330,181	12,463,778	17,267,496
	Limestone for Cement Mfr.	10,372	58,411	311,710	1,513,960
	Limestone for Construction Matl.	2,966	6,112	840,963	1,770,886
	Limestone for Ind'l. Use	34	295	8,500	32,450
	Marble (Unprocessed)	983	4,472	491,425	7,642,648
	Pyrite Concentrates		144,951		29,834,103
	Rock Phosphate	41,087	59,115	7,338,193	2,456,108
	Sand and Gravel _D/	5,876,344	5,557,353	258,559,145	359,454,362
	Red Clay		688		87,513
	Salt _D/	3,749	3,471	20,769,460	15,357,901
	Silica Sand	646	1,072	137,285	131,073
	Silica Sand for Cement	2,355		235,500	
	Soil		59,227		18,444,078
	Serpentine Periodite		111		105,750
Negros Oriental	Non-Metallics:	3,110,006	2,949,619	145,487,205	195,476,047
	Coal		4,497		4,937,706
	Hydrated/Slaked Lime	354			
	Limestone for Agr'l. Use		10		8,000
	Limestone for Const'l.		9,540		288,000
	Limestone for Ind'l. Use	4,819	1,080	20,625,320	437,000
	Salt _D/	3,102,933	2,934,492	124,671,885	199,805,341
	Sand and Gravel _D/				
	Silica Sand	1,900		190,000	
Siquijor	Metallics:	900	300	270,000	360,000
	Manganese (SSM)	900	300	270,000	180,000
	Non-Metallics:	0	416	0	180,000
	Rock Phosphate		286		94,980
	Tuff		150		80,480
VIII		2,349,994	2,287,236	343,179,160	355,132,723
Eastern Samar	Metallics:	15,692	44,568	12,084,948	50,032,511
	Chemical Grade Chromite	1,680	9,988	960,000	19,271,553
	Met. Chromite (Conc.)	1,200		720,000	
	Met. Chromite Ore (SSM)		1,169		1,480,750
	Nickel (Metal)	288,61	819		29,300,208
	Nickel (Beneficiated Ore)	12,603	32,592	10,404,948	
	Non-Metallics:	466,811	531,000	34,530,113	145,769,753
	Sand and Gravel _D/	466,811	441,471	34,530,113	28,554,786
	Pyrite Conc.		89,529		117,214,967
Leyte	Non-Metallics:	1,404,590	1,340,668	154,086,248	89,315,982
	Rock Phosphate	2,168	660	648,750	196,950
	Sand and Gravel _D/	1,380,822	1,305,867	151,749,444	84,464,576
	Bentonite	4,330	5,568	1,358,796	1,700,550
	Dolomite	694		328,853	
	White Clay	14		405	
	Limestones for Ind'l.		16,401		2,953,906
	Hydrated Lime	16,562	12,072		
Northern Samar					
Negligible					
Western Samar	Non-Metallics:	388,366	300,512	139,883,083	65,455,309
	Coal	117,695	44,534	117,695,000	48,898,332
	Sand and Gravel _D/	270,671	255,978	22,188,083	16,556,977
Southern Leyte	Non-Metallics:	74,535	70,488	2,594,768	4,559,168
	Sand and Gravel _D/	74,535	70,488	2,594,768	4,559,168
IX		2,876,933	2,860,722	574,086,287	553,234,659
Zamboanga del Norte	Metallics:	144	4,283	223,850	3,169,320
	Metallurgical Chromite Ore (SS)	144	3,108	223,850	2,051,280
	Manganese (SSM)		1,175		1,118,040
	Non-Metallics:	1,694,648	1,602,679	148,754,078	103,676,452
	Marble		24		15,381
	Sand and Gravel _D/	1,694,648	1,602,655	148,754,078	103,661,071
Zamboanga del Sur	Metallics:	2,332	129,055	2,116,800	39,205,486
	Gold (SSM)		126,085		38,504,466
	Manganese (SSM)	332	2,970	316,800	2,701,003
	Metallurgical Chromite (Ore)	2,000		1,800,000	
	Non-Metallics:	1,179,809	1,124,705	422,991,559	407,183,421
	Coal	208,352	206,376	208,352,000	226,600,848
	Marble (Unprocessed)		201		129,884
	Salt _D/	29,986	27,765	125,041,620	122,863,205
	Salt and Gravel _D/	941,471	890,363	89,597,939	57,589,484
X		6,802,761	5,920,012	1,396,584,834	4,420,436,693
Agusan del Norte	Metallics:		5,375		1,632,453
	Manganese Ore (SSM)		5,375		1,632,453
	Non-Metallics:	981,601	932,767	70,669,607	63,504,474
	Limestone for Agr'l. Use		984		729,758
	Marble	901	4,320	17,500	2,785,670
	Sand and Gravel _D/	980,700	927,463	70,652,107	59,989,046
Agusan del Sur	Metallics:		0		24,289,242

APPENDIX 2.3-17 MINERAL PRODUCTION 1992 AND 1993 (3/3)

Region/Province	Item	Quantity (Metric Ton)		Value (Peso)	
		1993	1992	1993	1992
	Gold	-	0.0860	-	23,976,149
	Gold (SSM)	-	0.0002	-	60,000
	Silver	-	0.072	-	253,093
	Non Metallics:	421,585	404,374	36,390,200	26,155,224
	Sand and Gravel _D/	421,585	404,374	36,390,200	26,155,224
Surigao del Norte	Metallics:	85,061	128,693	831,419,990	4,056,389,343
	Gold	2,292	1,480	721,199,967	3,941,152,987
	Silver	0.305	0.134	1,116,805	417,848
	Nickel (Metal)	1,697	2,011	91,898,007	80,972,059
	Nickel (Beneficiated Ore)	73,061	86,547	-	-
	Metallurgical Chromite Ore	7,272	16,437	13,896,211	18,534,127
	Metallurgical Chromite Ore (SSM)	-	337	-	252,750
	Met. Chromite Conc.	3,028	13,979	3,309,000	14,593,383
	Met. Chromite Conc. (SSM)	-	30	-	21,000
	Iron Ore (SSM)	-	7,350	-	445,189
	Non Metallics:	890,773	1,056,879	95,728,085	53,744,002
	Cement	162,326	167,836	-	-
	Limestone for Cement Manufact	22,342	221,070	5,587,085	10,551,889
	Sand and Gravel _D/	706,105	667,773	90,141,000	43,192,113
Bukidnon	Metallics:	-	24	-	324,254
	Gold (SSM)	-	0.091	-	299,954
	Metallurgical Conc. (SSM)	-	0.010	-	1,300
	Metallurgical Chromite Ore (SS)	-	24	-	23,000
	Non Metallics:	143,049	188,961	30,030,819	12,941,479
	Feldspar	-	530	-	294,000
	Guano	-	24	-	23,485
	Limestone for Agr'l Use	1,611	1,754	34,796	127,769
	Limestone for Const'	5,300	-	158,000	-
	Hydrated/Slaked Lime	-	180	-	-
	Sand and Gravel _D/	136,138	185,490	29,838,023	11,997,809
	Silica Quartz	-	24	-	126,000
	Schist	-	959	-	372,416
Misamis Occidental	Negligible	-	-	-	-
Misamis Oriental	Metallics:	-	2,124	-	2,188,773
	Manganese Ore (SSM)	-	1,324	-	1,153,975
	Metallurgical Chromite Ore (SSM)	-	800	-	1,035,697
	Non Metallics:	4,080,892	3,203,015	332,326,133	179,289,449
	Cement	1,005,296	324,924	-	-
	Feldspar	-	16,875	48,890	409,807
	Limestone for Cement Manufact	1,000	-	25	26,750
	Limestone for Agr'l Use	2,832,258	2,678,511	322,069,872	173,248,364
	Sand and Gravel _D/	242,138	182,705	10,199,651	5,178,235
	Shale Clay	-	-	7,685	404,293
	Silica Quartz	-	-	10	2,000
	White Clay	-	-	-	-
		3,787,062	4,536,810	544,100,996	683,825,965
XI Davao	Negligible	-	-	-	-
Davao del Sur	Metallics:	-	6,564	-	1,894,756
	Gold (SSM)	-	6,564	-	1,894,756
	Non Metallics:	2,130,532	2,786,439	69,500,158	124,132,665
	Cement	762,630	658,501	-	-
	Limestone for Agr'l. Use	6,935	2,250	4,696,300	494,000
	Limestone for Cement Manufact	941,403	668,284	23,988,385	19,090,925
	Sand and Gravel _D/	196,140	185,923	25,456,520	11,997,809
	Shale Clay	123,466	213,263	3,248,071	7,199,436
	Silica Sand for Cement	99,958	1,058,278	12,110,880	85,350,495
		-	-	-	-
Davao Oriental	Metallics:	-	2,604	-	2,287,014
	Metallurgical Chromite Ore (SS)	-	2,604	-	2,287,014
	Non Metallics:	255	51,698	109,000	7,739,135
	Magnetite	255	18,753	109,000	2,165,894
	Silica Sand for Cement	-	32,945	-	5,573,241
South Cotabato	Metallics:	-	-	-	-
	Gold (SSM)	-	-	-	-
	Non Metallics:	921,517	872,392	173,171,400	134,699,288
	Limestone for Agr'l. Use	-	1,279	-	525,877
	Salt _D/	19,277	17,849	96,385,000	78,983,489
	Sand and Gravel _D/	902,240	853,264	76,786,400	55,189,922
Surigao del Sur	Metallics:	0	9	0	47,504
	Metallurgical Chromite Ore (SS)	-	9	-	9,000
	Gold (SSM)	-	0.00013	-	38,504
	Non Metallics:	734,758	817,044	301,320,440	413,025,603
	Coal	249,331	348,882	248,331,000	383,072,436
	Crushed Stone	-	8,140	-	198,600
	Sand and Gravel _D/	486,427	460,022	52,989,440	29,754,567
Lanao del Norte	Non Metallics:	1,130,566	1,894,804	18,081,755	20,926,198
	Cement	97,962	472,704	-	-
	Limestone for Cement Manufact	1,003,062	983,418	17,241,975	17,858,445
	Shale Clay	29,542	438,682	839,780	3,067,753
		-	-	-	-
Study Area Total		32,344,490	31,877,634	10,704,027,797	14,752,109,982
Philippine Total		-	-	23,439,488,764	24,658,934,370

Cement in the national Account is classified under the manufacturing sector and the value is excluded in this table.
The value of some items is included in the others and left blank.

APPENDIX 2.3-18 FLOOR AREA OF PRIVATE CONSTRUCTION 1995

	Residential	Non-residential	Total	Addition	Total
NCR	1,932	3,046	4,978	657	5,635
CAR	73	55	128	26	154
I	233	211	444	36	480
II	80	76	156	12	168
III	466	558	1,024	63	1,087
IV	1,380	910	2,290	149	2,439
V	128	121	249	25	274
VI	165	135	300	40	340
VII	396	331	727	79	806
VIII	109	243	352	18	370
IX	63	57	120	11	131
X	346	290	636	61	697
XI	410	421	831	87	918
XII	85	61	146	15	161
ARMM	133	7	140	2	142
Total	5,999	6,522	12,521	1,281	13,802

(1000 m²)

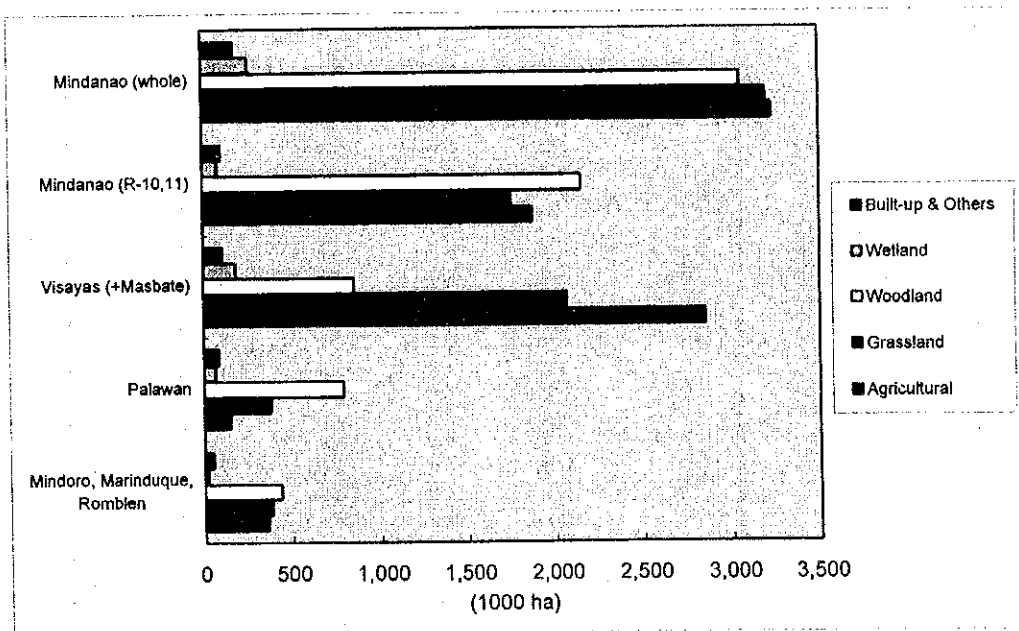
APPENDIX 2.3-19 EXISTING ROOM CAPABILITIES BY TYPES OF ACCOMMODATION

Region	Hotels				Resorts		Others		GRAND TOTAL
	De Luxe	First Class	Stan. Class	Economy	First Class	Others	Inn	Pension	
NCR	11,852	1,961	952	1,126	0	0	581	567	17,039
CAR	0	0	263	518	55	16	574	0	1,426
I	0	0	20	117	442	154	204	18	955
II	0	0	0	106	17	6	276	35	440
III	0	83	799	669	453	33	288	0	2,323
IV	108	340	62	333	1,383	1,136	305	197	3,864
V	0	0	227	240	230	86	16	152	951
VI	0	436	363	196	501	32	0	110	1,638
VII	1,423	576	552	458	1,651	227	264	371	5,522
VIII	0	0	252	115	127	0	124	96	714
IX	0	95	125	146	290	0	128	62	846
X	0	80	80	290	0	0	376	41	867
XI	0	311	292	275	83	16	100	40	1,117
XII	0	0	0	186	24	0	102	88	400
TOTAL	13,383	3,882	3,987	4,775	5,256	1,706	3,336	1,777	38,102

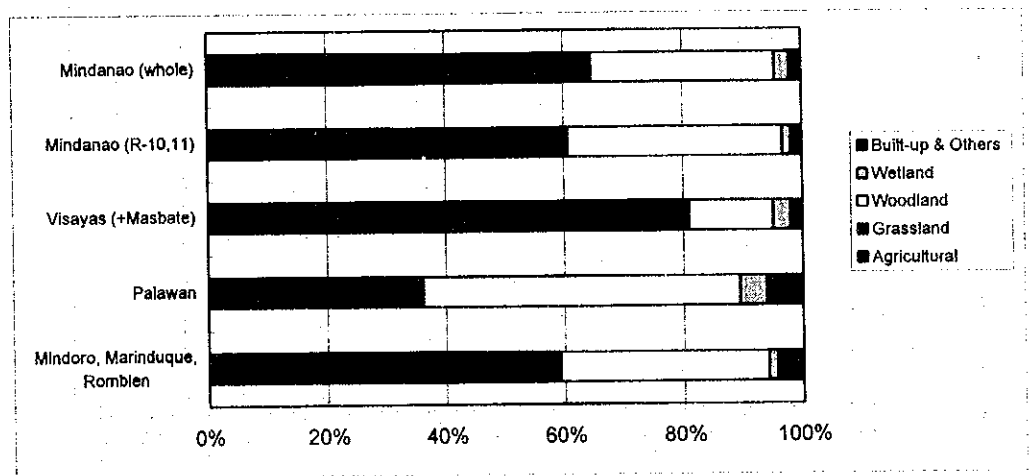
APPENDIX 2.4-1 PRESENT LAND USE

REGION *	Agricultural	Grassland	Woodland & Wetland	Built-up & Others	Total
CAR	190,235	758,363	846,596	34,174	1,829,368
Region 1	415,434	598,981	195,509	74,095	1,284,019
Region 2	709,964	573,066	1,302,498	98,230	2,683,758
Region 3	653,607	569,263	476,294	123,918	1,823,082
Region 4	1,410,315	1,097,698	1,955,480	292,523	4,756,016
Region 5	1,004,425	425,632	279,976	53,216	1,763,249
Region 6	889,549	784,345	320,402	28,014	2,022,310
Region 7	580,265	688,152	117,890	28,452	1,414,759
Region 8	951,599	544,402	618,935	28,234	2,143,170
Region 9	763,796	637,764	452,432	14,518	1,868,510
Region 10	865,872	709,195	1,212,711	44,992	2,832,770
Region 11	1,103,297	735,053	1,249,356	81,584	3,169,290
Region 12	706,472	869,325	688,670	64,853	2,329,320
Total of R-6,7,8,10,11	4,390,582	3,461,147	3,519,294	211,276	11,582,299
Philippines	10,330,011	8,991,239	9,716,749	966,803	30,004,802

SOURCE: ALMED, Bureau of Soils and Water Management



Present Land Use (Source : ALMED, BSWM)



Present Land Use Distribution (Source : ALMED, BSWM)

APPENDIX 2.4-2 PRESENT LAND USE BY PROVINCE

(Unit : ha)						
	Agricultural	Grassland	Woodland	Wetland	Built-up & Others	Total
Region 4						
Marinduque	35,083	39,744	14,838	4,551	1,709	95,925
Occidental Mindoro	123,596	211,882	220,215	6,664	25,628	587,885
Oriental Mindoro	154,389	88,556	161,447	8,366	23,714	436,472
Palawan	154,250	382,968	793,251	70,051	89,106	1,489,626
Romblon	48,673	42,142	41,779	1,456	1,543	135,593
Other provinces*	768,110	460,233	581,059	36,890	163,823	2,010,115
Region 5						
Masbate	270,683	111,042	1,140	17,261	4,643	404,769
Other provinces*	728,337	887,978	997,880	981,759	994,377	4,590,331
Region 6						
Aklan	54,234	60,811	49,895	12,244	4,606	181,790
Antique	67,895	122,917	52,352	1,143	7,893	252,200
Capiz	94,758	107,596	34,935	23,640	2,391	263,320
Iloilo	242,460	164,992	28,450	18,912	17,126	471,940
Guimaras Island	32,604	25,208	0	2,055	593	60,460
Negros Occidental	459,948	221,814	68,657	23,565	18,616	792,600
Region 7						
Bohol	184,874	156,509	38,999	22,355	8,993	411,730
Cebu City	10,570	14,569	2,514	144	5,083	32,880
Cebu Province	216,493	237,471	8,016	9,463	9,307	480,750
Negros Oriental	236,380	264,289	29,710	4,977	4,874	540,230
Siquijor	17,129	15,314	1,642	70	195	34,350
Region 8						
Leyte	325,845	165,555	48,707	16,946	14,227	571,280
Southern Leyte	90,512	52,562	25,606	830	3,970	173,480
Eastern Samar	167,335	132,289	134,640	8,855	3,956	447,075
Northern Samar	199,422	34,764	101,263	11,067	3,284	349,800
Western Samar	155,304	160,014	225,054	15,853	2,875	559,100
Biliran	26,684	22,635	5,073	507	651	55,550
Region 9						
Zamboanga del Norte	212,256	270,241	173,017	3,842	2,454	661,810
Zamboanga del Sur	269,877	250,143	99,035	41,411	3,264	663,730
Zamboanga City	64,741	32,564	30,007	11,262	2,896	141,470
Basilan*	91,617	15,204	13,420	9,370	3,109	132,720
Region 10						
Bukidnon	269,962	308,088	247,747	0	3,583	829,380
Misamis Occidental	118,933	33,343	32,277	4,563	4,814	193,930
Misamis Oriental	159,079	93,988	59,088	658	2,917	315,730
Cagayan de Oro City	15,207	17,867	6,192	192	2,022	41,280
Agusan del Norte	70,366	45,038	129,375	4,642	9,609	259,030
Agusan del Sur	115,839	159,812	568,183	45,434	7,282	896,550
Surigao del Norte	75,991	36,962	108,654	15,006	12,757	249,370
Surigao City	9,598	5,646	3,931	2,157	3,198	24,530
Cumiguin	13,326	4,260	4,817	44	533	22,980
Region 11						
Davao del Norte	234,028	387,234	186,463	2,139	3,111	812,975
Davao del Sur	181,883	152,269	46,438	3,370	9,441	393,401
Davao City	100,993	62,301	68,326	97	12,644	244,361
Davao Oriental	159,294	147,271	199,929	2,666	7,286	516,446
South Cotabato	254,529	225,638	204,203	504	21,848	706,722
General Santos City	29,273	9,180	8	173	1,520	40,154
Surigao del Sur	79,532	70,150	293,959	6,453	5,122	455,216
Region 12						
Lanao del Norte	68,629	120,844	85,545	7,781	26,601	309,200
North Cotabato	242,950	292,650	88,930	27,295	4,765	656,590
Sultan Kudarat	133,420	181,951	140,992	4,114	11,003	471,480
ARMM*						
Lanao del Sur	102,652	89,601	186,314	2,515	6,208	387,290
Maguindanao	158,821	184,479	72,891	72,293	16,276	504,760
Other provinces*	125,305	69,612	27,889	43,179	2,795	268,780
Study Area Total	5,243,628	4,590,230	4,242,956	369,029	362,137	14,807,980
	51%	51%	47%	48%	37%	49%
Philippines	10,330,011	8,991,239	6,943,181	773,568	966,803	30,004,802
	34%	30%	30%	3%	3%	100%

SOURCE: ALMED, Bureau of Soils and Water Management

APPENDIX 2.4-3 "FOREST" LAND AND "ALIENABLE & DISPOSABLE" LAND

REGION/PROVINCE	Alienable and Disposable Land		Forest Land		Total
	ha	%	ha	%	ha
Region 4					
Study Area Total	992,317	36%	1,753,284	64%	2,745,601
Marinduque	73,720	77%	22,205	23%	95,925
Occidental Mindoro	156,004	27%	431,981	73%	587,985
Oriental Mindoro	222,573	51%	213,899	49%	436,472
Palawan	447,776	30%	1,041,850	70%	1,489,626
Romblon	92,244	68%	43,349	32%	135,593
Region 5					
Masbate	263,384	65%	141,385	35%	404,769
Region 6					
Total	1,408,782	70%	613,529	30%	2,022,311
Aklan	102,799	57%	78,990	43%	181,789
Antique	144,728	57%	107,473	43%	252,201
Capiz	169,515	64%	93,802	36%	263,317
Iloilo	396,149	74%	136,248	26%	532,397
Negros Occidental	595,591	75%	197,016	25%	792,607
Region 7					
Total	959,223	64%	535,919	38%	1,495,142
Bohol	310,455	75%	101,271	25%	411,726
Cebu	367,748	72%	141,091	28%	508,839
Negros Oriental	258,841	48%	281,386	52%	540,227
Siquijor	22,179	65%	12,171	35%	34,350
Region 8					
Total	1,023,715	48%	1,119,454	52%	2,143,169
Leyte	410,182	65%	216,644	35%	626,826
Southern Leyte	125,961	73%	47,519	27%	173,480
Eastern Samar	142,982	33%	290,983	67%	433,965
Northern Samar	148,134	42%	201,664	58%	349,798
Western Samar	196,456	35%	362,644	65%	559,100
Region 10					
Study Area Total	836,329	46%	743,984	54%	1,380,313
Bukidnon	335,995	41%	493,383	59%	829,378
Misamis Occidental	125,375	65%	68,557	35%	193,932
Misamis Oriental	174,959	49%	182,044	51%	357,003
Region 11					
Study Area Total	1,079,824	40%	1,634,235	60%	2,714,059
Davao	297,674	37%	515,301	63%	812,975
Davao del Sur	239,015	37%	398,747	63%	637,762
Davao Oriental	200,944	39%	315,502	61%	516,446
South Cotabato	342,191	46%	404,685	54%	746,876
Region 13					
Total	542,447	27%	1,438,447	73%	1,980,894
Agusan del Norte	66,630	19%	288,596	81%	355,226
Agusan del Sur	221,628	25%	674,922	75%	896,550
Surigao del Norte	121,573	44%	152,329	56%	273,902
Surigao del Sur	132,616	29%	322,600	71%	455,216
Study Area Total	6,906,021	46%	7,980,237	54%	14,886,258
	49%		50%		50%
Philippines	14,117,244	47%	15,882,756	53%	30,000,000

SOURCE: National Mapping and Resource Information Authority

APPENDIX 2.4-4 FORESTRY LAND USE

REGION/PROVINCE	Timberland	Reservation				Total	Fishpond	Unclassified	Total
		Established for Reservation	National Parks	Military and Naval Reservation	Civil Reservation				
Region 4									
Study Area Total	338,896	271,787	1,004,420	147	45,250	1,321,584	3,919	88,885	1,753,284
Marinduque	4,304	17,901	-	-	-	17,901	-	-	22,205
Occidental Mindoro	78,783	91,270	192,811	147	16,190	300,418	3,249	49,531	431,981
Oriental Mindoro	68,457	85,659	44,289	-	3,680	133,628	502	11,312	213,899
Palawan	174,883	74,267	767,320	-	25,380	866,967	-	-	1,041,850
Romblon	12,469	2,670	-	-	-	2,670	168	28,042	43,349
Region 5									
Masbate	104,121	34,299	159	0	0	34,457	961	1,846	141,385
Region 6									
Total	428,939	135,344	23,505	0	235	169,084	23,900	1,606	613,629
Aklan	74,428	-	-	-	-	0	3,870	692	78,990
Antique	82,880	24,593	-	-	-	24,593	-	-	107,473
Capiz	88,566	-	-	-	-	0	5,150	86	93,802
Iloilo	85,496	41,836	854	-	-	42,690	8,062	-	136,248
Negros Occidental	97,569	68,915	22,651	-	235	91,801	6,818	828	197,016
Region 7									
Total	397,450	49,407	15,054	4	114	64,579	4,335	69,555	535,919
Bohol	78,454	19,410	-	-	-	19,410	3,407	-	101,271
Cebu	105,599	21,427	13,148	4	114	34,693	799	-	141,091
Negros Oriental	207,718	8,570	1,906	-	-	10,476	101	63,091	281,386
Siquijor	5,679	-	-	-	-	0	28	6,464	12,171
Region 8									
Total	1,018,238	51,508	4,108	176	862	56,654	5,637	38,925	1,119,454
Leyte	173,247	19,782	3,268	48	862	23,960	87	19,350	216,644
Southern Leyte	10,140	17,804	-	-	-	17,804	-	19,575	47,519
Eastern Samar	288,487	1,890	-	-	-	1,890	628	-	290,983
Northern Samar	188,160	11,864	-	128	-	11,992	1,512	-	201,664
Western Samar	358,224	168	840	-	-	1,008	3,412	-	362,644
Region 9*									
Sub Total	352,135	406,527	10	46	2,611	409,194	8,086	20,918	790,333
Zamboanga del Norte	164,066	230,348	10	46	12	230,416	120	4,825	399,427
Zamboanga del Sur	188,069	176,179	-	-	2,599	178,778	7,966	16,093	390,906
Region 10									
Study Area Total	578,337	58,752	53,319	0	3	112,074	10,630	42,943	743,984
Bukidnon	391,052	50,636	-	-	-	50,636	8,752	42,943	493,383
Misamis Occidental	13,137	280	53,262	-	-	53,542	1,878	-	68,557
Misamis Oriental	174,148	7,836	57	-	3	7,896	-	-	182,044
Region 11									
Study Area Total	1,299,769	144,783	53,643	0	19,127	217,553	1,264	115,649	1,634,235
Davao	473,012	31,221	-	-	8,880	40,101	-	2,188	515,301
Davao del Sur	290,490	55,733	52,262	-	-	107,995	262	-	398,747
Davao Oriental	276,718	24,641	1,381	-	-	26,022	574	12,188	315,502
South Cotabato	259,549	33,188	-	-	10,247	43,435	428	101,273	404,885
Region 12*									
Total	608,674	122,346	20,552	7,996	80,789	231,683	458	49,631	890,446
Lanao del Norte	116,347	26,388	-	7,996	-	34,384	-	-	150,731
North Cotabato	345,600	55,852	20,552	-	80,789	157,193	-	3,825	506,618
Sultan Kudarat	146,727	40,106	-	-	-	40,106	458	45,806	233,097
Region 13									
Total	993,356	425,319	2,415	0	6,206	433,940	2,237	8,914	1,438,447
Agusan del Norte	143,792	143,792	-	-	1,012	144,804	-	-	288,596
Agusan del Sur	503,809	164,794	-	-	5,194	169,988	-	1,125	674,922
Surigao del Norte	98,818	43,675	2,415	-	-	46,090	757	6,664	152,329
Surigao del Sur	246,937	73,058	-	-	-	73,058	1,480	1,125	322,600
ARMM*									
Sub Total	392,678	24,359	31,730	0	0	56,089	0	3,525	452,292
Lanao del Sur	240,628	11,844	1,682	-	-	13,526	-	-	254,154
Maguindanao	152,050	12,515	30,048	-	-	42,563	-	3,525	198,138
Study Area Total	5,159,106	1,171,178	1,156,623	327	71,797	2,399,925	52,883	368,323	7,960,237
Philippines	10,015,866	3,272,921	1,340,997	130,330	165,946	4,910,194	75,548	881,157	15,882,756

SOURCE: National Mapping and Resource Information Authority

APPENDICES

FOR

CHAPTER 3



APPENDIX 3.3 - 1

ROAD CONDITION SURVEY MANUAL

ROAD CONDITION SURVEY MANUAL

1. PREPARATION FOR FIELD SURVEY

Following shall be prepared prior to the field survey (See Figure-1):

1-1 Road List by District Engineering Office

Road list by District Engineering Office shall be prepared based on the following:

- Straight Line Road Diagram
- Existing Roads by System Classification and Pavement Type, July 1996

When there is discrepancy in road names between above two documents, name of Straight Line Road Diagram shall be followed.

Road length by Province shall be calculated.

1-2 Plotting of Roads on Maps

Following three maps will be provided:

- a) Provincial Road Map which shows national and provincial roads (scale 1:100,000 to 250,000)
- b) NAMRIA Map 1/250,000
- c) 1/400,000 Map on Mylar Paper

Provincial Road Map

Color all national roads. Later, provincial roads to be surveyed will be indicated on this map.

This map shall be brought to the field.

NAMRIA Map

Indicate all national roads on its map, based on Provincial Road Map and Straight Line Road Diagram. Pay attention to connection of inter-provincial roads, as Provincial Road Map does not clearly show inter-linkage of a road between provinces.

This map shall be kept in the Office.

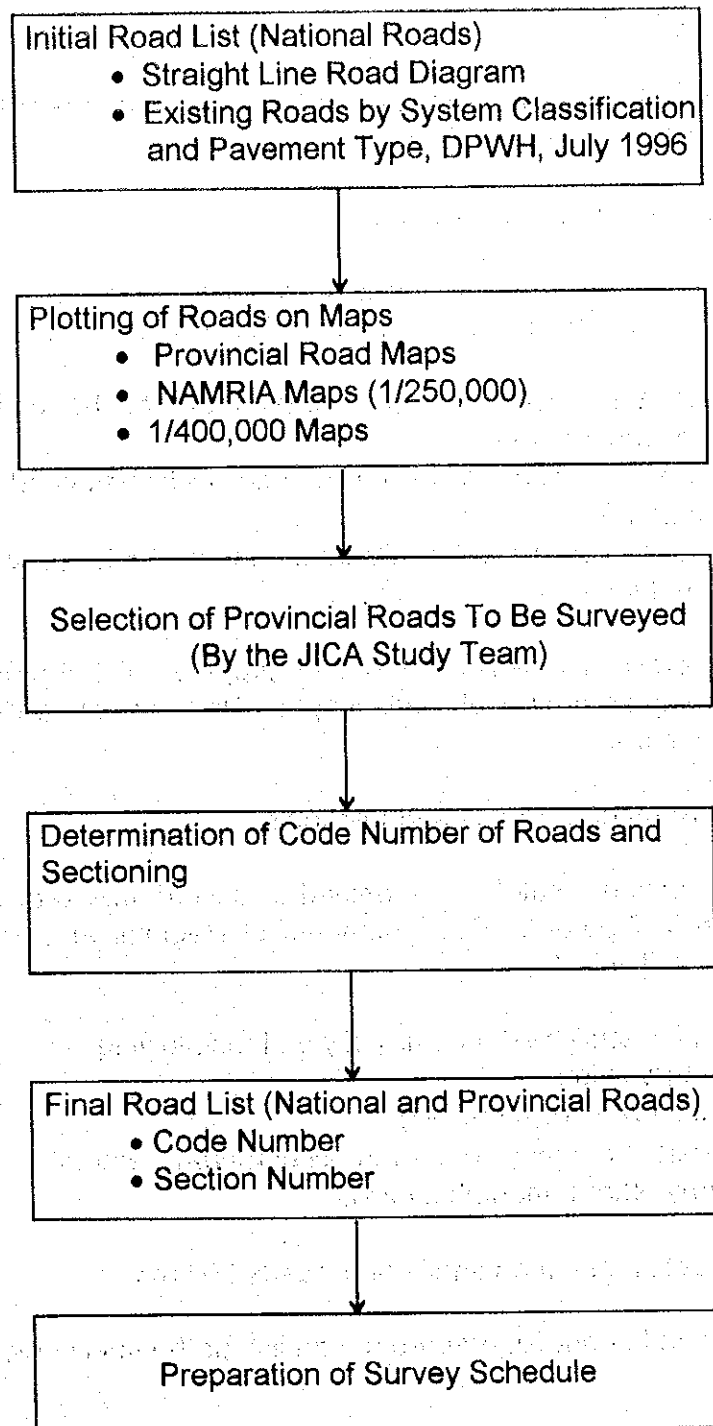


FIGURE - 1 PROCEDURE OF PREPARATION FOR FIELD SURVEY

1/400,000 Map

Indicate all national roads and their names on the map. This map shall be brought to the field.

1-3 Selection of Provincial Roads

Selection of provincial roads to be surveyed will be done by the JICA Study Team, mainly focusing on the following aspects:

- All municipal towns (or centers) are to be connected with national road(s).
- Road network is to be formed with balanced density (or interval).
- Roads which can be utilized as a part of inter-provincial road in the future.

When provincial roads are selected, prepare a list of provincial roads and compute provincial roads length. Also, indicate provincial roads on the maps.

1-4 Code Number of Roads and Sectioning

Code number shall be determined in accordance with the rules as shown in Figure-2. Code numbers of Regions and Provinces are shown in Table-1.

Sectioning shall be done basically on the following:

- Intersection
- Municipal town (center)
- Major barangay center (not all barangay centers)
- Any other remarkable location

One section of a road shall not exceeds 50 kms.

Based on the above, prepare a road list for the field survey.

PROVINCE CODE

Region	Province	Province Code
IV-B	Marinduque	4B1
	Occidental Mindoro	4B2
	Oriental Mindoro	4B3
	Palawan	4B4
	Romblon	4B5
V	Masbate	055
	Catanduanes	056
VI	Aklan	061
	Antique	062
	Capiz	063
	Iloilo	064
	Guimaras	065
	Negros Occidental	066
	Iloilo City	067
VII	Bohol	071
	Cebu	072
	Negros Oriental	073
	Siquijor	074
VIII	Leyte	081
	Southern Leyte	082
	Biliran	083
	Eastern Samar	084
	Northern Samar	085
	Western Samar	086
IX	Zamboanga del Norte	091
	Zamboanga del Sur	092
X	Bukidnon	101
	Misamis Occidental	102
	Misamis Oriental	103
	Camiguin	104
XI	Davao del Norte	111
	Davao del Sur	112
	Davao Oriental	113
	South Cotabato	114
	Saranggani	115
	Davao City	116
XII	Lanao del Norte	121
	North Cotabato	122
	Sultan Kudarat	123
ARMM	Lanao del Sur	AR1
	Maguindanao	AR2

1-5 Preparation of Survey Schedule

Prepare a survey schedule. An average survey length per day will be about 80 kms.

In addition to actual field survey, indicate date(s) for coordinating District Engineering Offices and Provincial Engineer's Offices/Provincial Planning and Development Staff (or Office).

2. COORDINATION WITH DISTRICT OFFICES/PROVINCIAL ENGINEER'S OFFICE/PPDO

Upon arrival at each Province, you shall coordinate with DPWH District Engineering Offices and Provincial Engineer's Office or Provincial Planning and Development Office.

2.1 Matters to be confirmed

Following matters shall be confirmed at DPWH District Offices:

- 1) Road list covers all national roads or not.
- 2) Road names are correct or not.
- 3) During preparation of maps, some roads cannot be plotted on maps due to uncertainty of road location. For those roads, confirm the location and plot them on maps.
- 4) Some national roads are shown on Provincial Road Map, however, straight line road diagrams are not found, or available in Manila, confirm if these are national roads or not. If yes, obtain straight line road diagrams.
- 5) Other information such as:
 - Flood section
 - Road disaster prone section
 - Roads inaccessible due to collapse of a bridge or no bridge.
 - Roads unpassable due to poor road conditions (very muddy or very narrow or any other reasons)
 - Others
- 6) For these roads inaccessible or unpassable, "Road Condition Survey Sheet" shall be filled up by interviewing maintenance engineers/foreman who are familiar with the road condition.

At Provincial Engineer's Office and/or Provincial Planning and Development Office, the following shall be confirmed.

- 1) Road name is correct or not.
- 2) Road location on a map is correct or not.
- 3) A road to be surveyed exists or not and accessible.
- 4) When there are alternatives for roads to be surveyed, ask which road is more appropriate.

2.2 Restricted or Dangerous Areas

The most important matter is to complete the field survey safely without being harmed or problems. Local conditions regarding peace and order situation or any other situations must be confirmed at District Offices/PEO/PPDO.

The field survey for the areas restricted or advised not to enter shall be canceled and information shall be collected by interviewing engineers/foreman who are familiar with the road conditions in these areas.

**“You shall not be allowed to enter
and conduct the field survey in these
areas restricted or advised not to enter.”**

2.3 Guide for the Field Survey

You should request DEO or PEO/PPDO to provide one Guide (maintenance engineer or foreman) who is quite familiar with the local condition. Beginning/end of a road, problems of a road such as flood section, road disaster prone sections, bridge conditions and any other problems should be pin pointed by him at the field.

2.4 Letters/Documents To Be Submitted to DEO/PEO/PPDO

- Introductory Letter
- DPWH's official letter (or copy) requesting coordination and assistance
- Inception Report

3. HOW TO ACCOMPLISH SURVEY SHEET

You have to accomplish two types of survey sheet, i.e. (1) Road Condition Survey Sheet and (2) Bridge Condition Survey Sheet.

3.1 Road Condition Survey Sheet

Use new survey sheet for each road section, e.g. Data for 4B1-11A and 4B1-11B shall be filled in separate survey sheets.

3.1.1 Header Data

(1) Road Number

Each road section shall be numbered based on the rules discussed in Section 1-8.

(2) Road Name

Use official name of DPWH indicated in the road straight line diagram.

Care must be taken to certain road sections which extend to several districts/provinces with different road names such as Pan-Philippine Highway which is called as Samar-Leyte Road in Samar, Tacloban South Road in Leyte and Surigao-Davao Road in Mindanao.

You should consult with your JICA counterpart whenever you encounter such confusing names.

(3) Road Class

Either of:

- N : National Road
- P : Provincial Road
- C : City Road

The header data up to item (3) shall be filled-up prior to field survey.

Sheet No. 12

Board No. 611-21A

Date: 3/10/97

A3-10

(4) Length

Total length of the road section in kilometer.

(5) (From _____ to _____)

Beginning station and ending station.

(6) Date

Survey Date

(7) Weather

(8) Surveyor

3.1.2 Subsection Data

(1) Subsection Number
Serial Number

If one sheet is not enough to fill all subsection data use additional sheet as many as you need, however, to avoid redundancy of subsections, the following rules must be applied to divide road sections into proper size of subsections.

1. Change subsection if surface type changes.
2. Change subsection if condition of pavement changes though type of surface is still same.
3. Change subsection if terrain changes remarkably for appreciable length though type and condition of surface are still same.
4. Change subsection if land use becomes urbanized area.
5. Neglect presence of changes if the changes extend for short length, e.g. presence of (50m) 200m PCC pavement over 5 km AC pavement may be neglected.

(2) Length

Fill in kilometer up to second decimal place. The value of second decimal place shall be either 0 or 5. You should obtain adjustment factor of odometer reading by having trial run along road section whose length is already known. Adjustment factor shall be jotted down beside name of surveyors.

(3) Odometer Reading

Set 0.00 at beginning of road section. Read up to second decimal place. The value of second decimal place will be rounded up to either 0 or 5.

(4) Carriageway Type

Either of:

- C : Portland Cement Concrete Pavement
- A : Asphalt Concrete Pavement, Bituminous Surface Treatment or Bituminous Penetration Macadam Pavement
- G : Gravel Surface Road
- E : Earth Road

(5) Width

If carriageway is divided by median, enter carriageway width like 2 @ 6.7.

(6) Pavement Condition

PCC pavement

G (Good) : No cracks or only minor cracks are observed. Opening of crack is not significant and does not cause vehicles to reduce their running speed. No maintenance work is required.

F (Fair) : Appreciable number of minor cracks and occasional transverse/longitudinal cracks are observed. Opening of some cracks are bit wide and cause passenger vehicles to reduce their running speed to maintain comfortable riding. Sealing of wide cracks are required. Maximum comfortable speed of cars being about 50 km/hr.

B (Bad) : Appreciable number of wide cracks are observed. Maximum comfortable travel speed of cars being about 30 km/hr. AC overlay or other rehabilitation is required.

V (Very Bad): Significantly deteriorated. Breaking up of slabs are prevalent, maximum comfortable travel speed of cars being about 20km/hr or less. Reconstruction of pavement is required.

AC pavement

G (Good) : No pot holes are observed, minor rutting/ravelling is observed. Vehicle does not reduce running speed. No maintenance work is required.

F (Fair) : Occasional minor pot holes are observed or progressive cracks are observed and passenger

vehicles reduce their running speed to maintain comfortable riding to about 50 km/hr.

Patching of pot holes, and sealing of cracks is required.

B (Bad) : Appreciable number of minor pot holes and minor cracks are observed, large size of pot holes and wide cracks are occasionally observed. Maximum comfortable travel speed of cars being about 30km/hr. AC overlay is required.

V (Very Bad): Significant number of large size of pot holes and wide cracks are observed. Maximum comfortable travel speed of cars being about 20 km/hr. or less. Reconstruction of pavement is required.

Gravel

G (Good) : Gravel surface is well graded and flat allowing vehicles to travel at about 50 km/hr or more.

F (Fair) : Gravel surface is not well graded and pot holes are occasionally observed and running speed of passenger car is reduced to about 40 km/hr.

B (Bad) : Gravel surface is very rough and travel speed is reduced to about 30 km/hr.

V (Very Bad): Gravel surface is terribly rough and the driver has to maneuver to avoid pot holes, etc. Surface material is close to earth surface.

Earth

G (Good) : N/A

F (Fair) : N/A

B (Bad) : N/A

V (Very Bad): Passable only during dry season

Impassable

- Impassable due to narrow roadway width.
- Impassable during rainy season due to bad condition of road surface.

Under Construction

- Do not classify a section under this category when carriageway construction is less than 500m.

(7) Median Width

(8) Shoulder Type

Either of:

C : Portland Cement Concrete Pavement

A : Asphalt Concrete Pavement, Bituminous Surface Treatment,
or Bituminous Penetration Macadam Pavement

G : Gravel surface road

E : Earth road

(9) Shoulder Width

For gravel or earth road in which border of carriageway and shoulder is not clear, total width may be entered in the column of carriageway width and zero in the column of shoulder width.

(10) Sidewalk

Check whether sidewalk is present or not. If presence of sidewalk is more than 30% of subsection length **either one side or both side** check W(ith), If sidewalk length is less than 30% check W/O.

(11) Terrain

Either of:

F (Flat) : Grade/alignment permitting heavy vehicles to maintain approximately the same speed as passenger cars.

R (Rolling) : Grade/alignment causing heavy vehicles to reduce their speed substantially below that of passenger car but not causing heavy vehicles to operate at crawl speed for any significant length of time.

M (Mountainous): Grade/alignment causing heavy vehicles to operate a crawl speed for significant distances or at frequent intervals.

(12) Land Use

Either of:

A : Agricultural/Cultivated Land

F : Forest/Bush

W : Waste/Idle Land

P : Pasture

S : Swampy area

U : Urbanized Area

If land use in leftside and rightside is different, encircle two types of land use and indicate wheather L or R beside landuse.

(13) Length of Substandard Alignment Section

H : Length of Substandard Horizontal Alignment Section

Curve radius less than 50m in Major Trunkline
Curve radius less than 30m in National Secondary

Enter the length required for realignment.

V : Length of Substandard Vertical Alignment Section

If steep gradient section extends more than specified length shown below, enter the length required for realignment.

Major Trunk Line	Vertical Gradient	Length
	6% ~ 7%	More than 400m
	8% ~ 9%	More than 200m
	10% or more	Any length
National Secondary	Vertical Gradient	Length
	6% ~ 7%	More than 600m
	8% ~ 9%	More than 400m
	10% or more	More than 200m

(14) Length of Disaster Potential Section

Enter the length of disaster potential section. Enter the length not only section where disaster already occurred but sections where disaster might occur anytime in the future.

Disaster Type classified as follows:

CS : Cut slope damage
ES : Embankment slope damage
DF : Debris Flow
SR : Scour/Washout of Roadbed
FR : Flooding

Several types of disasters may be observed in one section.

(15) Survey Method

Either of:

F : Field Survey

H : Hearing/Interview Survey

Basically you have to visit all road section to fill up the survey sheet but road condition data of road sections mentioned in Section 2.2 and road sections inaccessible to motorized vehicles shall be gathered by interviewing maintenance engineers in District Offices or Provincial Engineer's Office who are familiar with those road sections.

(16) Remarks

Jot down name of municipalities and major barangays for your reference.

3.2 Bridge Condition Survey Sheet

Use new survey sheet for each road section

3.2.1 Header Data

- (1) Road Number
- (2) Road Name
- (3) Road Class
- (4) Length
- (5) (From _____ to _____)
- (6) Date
- (7) Weather
- (8) Surveyor

Header data of bridge condition survey sheet shall be same as Road Condition Survey Sheet

3.2.2 Individual Bridge Data

You should filled up survey sheet not only for existing bridges but location where bridges are not existent but needed.

- (1) Subsection Number

Subsection number in which the bridge is located.

- (2) Bridge Name

Enter the name shown in road straight line diagram, or name appeared in the approach railings. If name is not indicated in neither road straight line diagram nor bridge approach, use the name of river or name of nearby barangay.

(3) Odometer Reading

Set 0.00 at beginning of road section. Read up to second decimal place. The value of second decimal place will be rounded up to either 0 or 5.

(4) Bridge Type

Either of:

- P : Permanent bridge
(RC, PC, Steel I Beam, Steel Truss)
- B : Bailey bridge
- T : Timber bridge
- S : Spillway
- F : Ford Crossing
- N : No way of crossing for motorized vehicles

(5) Bridge Length

Enter proposed bridge length for spillway, ford crossing and location where no way of crossing.

(6) Span Length

Number of spans and span length

Number of spans shall be only one for temporary bridges except for temporary bridges with permanent substructures.

If combination of number of span and span length exceeds three, use next data line.

(7) Carriageway Width

(8) Sidewalk Width

(9) Bridge Damage

Evaluate condition of only permanent bridges. You do not need to enter condition of temporary bridges. If you find damaged spillways enter degree of damage in slab.

Either of:

- : No damage
- L : Needing minor repair
- M : Needing major repair
- H : Needing reconstruction
- U : Under construction/repair

for slab, Superstructure and Substructure.

(10) Approach Road Damage

1st approach: Approach near to beginning station

2nd approach: Approach near to beginning station

Either of:

- : No damage
- L : Not affecting carriageway
- M : Affecting one lane
- H : Affecting full carriageway
- U : Under repair

(11) Length

Damaged length in meter.

(12) Survey Method

Either of:

- F : Field Survey
- H : Hearing/Interview Survey

4. OTHERS

4.1 Pictures

At least three pictures which reflect the most representative road condition shall be taken per road section. **(e.g. three pictures for section 066-21A and three pictures for Section 066-21B and so on)**

4.2 Reporting

Report progress of work to Manila through telephone at least once a week.

4.3 Documents to be prepared

- Provincial Road Map indicating Survey Roads
Original (Field)
Xerox Copy (Office)
- Road List with Road Number
Original (Field)
Xerox Copy (Office)
- Road Map with Road Number
Mylar Paper (Office)
Blue Print (Field)
- Topo Map indicating Survey Roads NAMRIA 1/250,000)

BRIDGE CONDITION SURVEY SHEET

Sheet No. 1/2

Road No.: 066-21A

Road Name: Bacolod North Road

Road Class: N.P.C

Length: 28.85 Km

(From 130 + 15 Km to 208 + 60 Km)

Date: _____

Weather: _____

Surveyors: _____

Sub-Section No.	Bridge Name	Odometer Reading	Bridge Type	Bridge Length	Span Length	Width		Bridge Damage				Approach Road Damage				Survey Method	Remarks
						Carriageway	Side-Walk	Slab	Super-structure	Sub-structure	1st Approach		2nd Approach				
											Magnitude	Length	Magnitude	Length			
1	Takao 1	1.50Km	(P) S B F N	15 m	1 x 15 x x x	6.7 m	0.25 m	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(F) H	
1	Takao 2	2.00 Km	(P) S B F N	150 m	1 x 15 2 x 25 1 x 35	6.7 m	1.85 m	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) H	
		Km	P S B F N		1 x 50 x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
3	Takao 3	5.15 Km	(P) S B F N	17 m	1 x 17 x x x	3.5 m		(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(F) H	
3	Takao 4	6.00 Km	(P) S B F N	20 m	1 x 20 x x x	5.0 m		(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
4	Takao 5	8.20 Km	(P) S B F N	80 m	8 x 10 x x x	3.5 m		(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(F) H	
5	Takao 6	10.30 Km	(P) S B F N	25 m	1 x 25 x x x	6.7 m	0.25 m	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(F) H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	L H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	
		Km	P S B F N		x x x			(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	(L) M	F H	

FIELD DATA COMPILATION FOR DATABASE

Following works shall be done in the Office for preparation of database:

1. Compilation of Photographs (See Instruction-1).
2. Finalization of Road Map on the mylar paper (See Instruction-2).
 - Road Number/Section Number Map
 - Existing Kilometerage (or Station) Map
3. Finalization of Field Survey Data for Encoding.
 - Road Condition Survey Sheet (See Instruction-3)
 - Bridge Condition Survey Sheet (See Instruction-4)
4. Encoding of Road/Bridge Condition Survey data.
5. Checking and correction of Encoded Data.

Terminology To Be Used:

