

Table F-16 TOTAL IRRIGATED AREA BY MAJOR RIVER BASIN (High Economic Growth Scenario)

WATER RESOURCES REGION/BASIN	1998		2000		2005		2010		2015		2020		2025		Total	
	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry	Wet	Dry		
	Total		Total		Total		Total		Total		Total		Total			
I	11,739	9,037	20,775	13,208	10,506	12,160	14,861	15,340	12,639	27,979	15,910	10,111	29,021	16,130	13,307	76,473
ABRA	18,783	6,775	25,557	19,104	11,056	17,474	24,459	27,081	20,086	47,177	28,099	22,043	50,142	29,975	23,919	53,894
II	5,892	6,136	12,029	16,892	14,961	15,114	17,380	19,680	17,414	37,094	22,889	20,834	43,724	29,825	27,770	57,596
AGAYAN	130,467	135,173	265,639	214,211	192,764	277,692	248,186	287,934	262,640	550,574	347,046	320,757	667,803	446,592	420,303	996,896
III	80,545	42,478	123,023	114,949	92,306	133,112	157,194	174,759	150,677	305,437	201,779	179,428	381,206	245,301	222,850	468,250
PAMPANCA	111,119	91,916	203,035	192,570	161,823	210,233	244,092	255,746	222,387	478,133	272,110	241,071	513,181	297,254	256,215	543,460
IV	2,790	2,129	4,919	5,724	4,749	5,544	6,503	11,008	10,049	21,057	17,839	16,923	34,762	24,413	23,497	61,050
PASIG-LAGUNA BAY	9,659	8,832	18,491	16,755	14,900	16,188	18,376	19,741	17,533	37,294	21,931	19,942	41,973	25,161	23,192	48,373
V	44,455	33,682	78,137	56,544	43,693	55,861	68,407	78,673	65,927	144,600	91,986	79,582	171,557	112,518	100,114	212,631
VI	10,492	7,764	18,257	14,435	12,287	17,754	20,287	25,982	23,449	49,431	32,166	29,871	69,038	40,090	40,795	89,886
PANAY	2,434	1,964	4,398	7,100	6,167	9,177	10,653	11,043	10,167	21,210	11,815	10,967	22,782	12,899	12,051	24,960
ILOG-HILABANGAN	85	85	169	115	85	3,620	3,620	9,248	9,218	18,466	14,122	14,092	28,213	23,854	23,824	47,677
VII	16,613	14,746	30,359	25,291	22,950	40,999	43,181	55,029	52,847	107,876	71,041	68,539	139,580	101,611	99,110	200,721
AGUSAN	139	154	294	2214	2,143	4,091	4,152	5,359	5,298	10,658	6,864	6,803	13,666	9,842	9,781	19,623
CAGAYAN DE ORO	437	408	845	2,545	2,065	3,132	3,539	4,169	3,762	7,931	4,466	4,466	9,379	6,138	5,731	11,868
XI	1,667	1,440	3,107	1,906	1,440	1,757	2,204	4,602	4,155	8,757	8,238	7,795	16,033	15,272	14,829	30,101
DAVAO	828	794	1,622	2,607	2,313	4,305	4,589	6,255	5,971	12,226	8,206	7,973	16,130	11,968	11,695	23,654
TAGUMALISUGANON	14,810	13,701	27,811	15,108	13,440	13,840	15,638	23,286	21,498	44,774	34,900	32,899	67,798	57,720	55,719	113,440
XII	2,929	1,948	4,877	11,510	10,197	18,369	19,683	25,256	23,942	49,198	32,278	31,014	63,293	45,628	44,384	89,993
MINDANAO	69,459	60,558	130,017	119,525	102,801	160,461	177,486	215,927	199,902	414,828	271,470	254,834	526,304	375,026	354,366	730,368

(UNIT: ha)

Table F-17 TOTAL IRRIGATED AREA BY MAJOR RIVER BASIN (Low Economic Growth Scenario)

(UNIT: ha)

WATER RESOURCES REGION/BASIN	1996			2000			2005			2010			2015			2020			2025			
	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total	Wet	Dry	Total	
	I																					
ABRA	11,739	9,037	20,775	13,208	10,506	23,713	14,863	12,160	27,021	15,340	12,639	27,979	16,722	12,923	29,645	16,722	12,923	29,645	16,722	12,923	29,645	
LAOAG	16,783	6,775	23,557	19,154	11,056	30,251	24,459	17,474	41,933	27,081	20,996	47,177	26,539	20,483	47,022	26,539	20,483	47,022	26,539	20,483	47,022	
II																						
ABULOG	2,892	6,136	12,029	16,862	14,961	31,844	17,360	15,114	32,494	19,680	17,414	37,094	18,025	15,970	33,995	18,025	15,970	33,995	18,025	15,970	33,995	
CAGAYAN	130,467	135,173	265,639	214,211	197,764	406,975	248,186	222,892	471,070	247,934	267,640	515,574	268,598	240,269	508,827	268,598	240,269	508,827	268,598	240,269	508,827	
III																						
AGNO	80,546	42,478	123,023	114,949	92,308	207,257	157,194	133,112	290,307	174,759	150,677	325,437	165,584	143,233	308,816	165,584	143,233	308,816	165,584	143,233	308,816	
PAMPANGA	111,119	91,916	203,035	192,570	161,823	354,393	244,092	210,733	454,825	255,746	222,387	478,133	249,516	228,477	477,993	249,516	228,477	477,993	249,516	228,477	477,993	
IV																						
ANNAY PATRICK	2,790	2,129	4,919	5,724	4,749	10,473	6,503	5,444	12,047	11,008	10,049	21,057	6,904	5,988	12,892	6,904	5,988	12,892	6,904	5,988	12,892	
PASIG-LAGUNA BAY	9,659	8,832	18,491	16,795	14,900	31,634	18,376	16,185	34,564	19,741	17,553	37,294	19,229	17,240	36,469	19,229	17,240	36,469	19,229	17,240	36,469	
V																						
BIGLON	44,455	33,682	78,137	56,544	43,493	100,037	68,407	55,161	124,068	78,673	65,927	144,600	77,530	65,126	142,655	77,530	65,126	142,655	77,530	65,126	142,655	
VI																						
JALAJUR	10,492	7,764	18,257	14,435	12,287	26,722	20,287	17,754	38,041	25,982	23,449	49,431	26,704	24,409	51,114	26,704	24,409	51,114	26,704	24,409	51,114	
PANAY	2,434	1,964	4,398	7,100	6,167	13,268	10,063	9,177	19,230	11,043	10,167	21,210	10,914	10,066	20,980	10,914	10,066	20,980	10,914	10,066	20,980	
LOG-HILARANGAN	85	85	169	115	85	200	3,520	3,490	7,010	9,248	9,218	18,465	6,028	5,998	12,025	6,028	5,998	12,025	6,028	5,998	12,025	
X																						
AGUSAN	15,613	14,746	30,359	25,291	22,950	48,241	43,181	40,999	84,180	55,029	52,847	107,876	45,616	43,115	88,731	45,616	43,115	88,731	45,616	43,115	88,731	
CAGAYAN DE ORO	139	154	294	2,214	2,143	4,357	4,152	4,091	8,244	5,259	5,298	10,558	4,386	4,320	8,712	4,386	4,320	8,712	4,386	4,320	8,712	
TACOLOAN	437	408	845	2,545	2,095	4,610	3,539	3,132	6,671	4,169	3,762	7,931	3,659	3,452	7,311	3,659	3,452	7,311	3,659	3,452	7,311	
XI																						
BUAYANHALUNCON	1,687	1,440	3,127	1,906	1,440	3,346	2,204	1,757	3,961	4,602	4,155	8,757	2,358	1,915	4,273	2,358	1,915	4,273	2,358	1,915	4,273	
DAVAO	828	794	1,622	2,807	2,313	4,920	4,589	4,305	8,894	6,255	5,971	12,226	5,077	4,794	9,872	5,077	4,794	9,872	5,077	4,794	9,872	
TAGUM-LUBCANON	14,610	13,201	27,811	15,108	13,440	28,548	15,638	13,840	29,476	23,286	21,488	44,774	15,921	13,920	29,841	15,921	13,920	29,841	15,921	13,920	29,841	
XII																						
AGUS	2,929	1,948	4,877	11,510	10,137	21,648	16,663	16,369	38,052	25,266	23,942	49,198	21,176	19,912	41,089	21,176	19,912	41,089	21,176	19,912	41,089	
MINDANAO	69,459	60,558	130,017	119,505	102,801	222,306	177,486	160,461	337,946	215,927	188,902	414,829	185,367	168,731	354,098	185,367	168,731	354,098	185,367	168,731	354,098	

Table F-19a IRRIGATION WATER DEMAND IN 1996 BY BASIN (High Economic Growth Scenario)

(UNIT: MCM)

Water Resources Region/Province	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		TOTAL		
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2			
	Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area		Irrigable Area			Irrigable Area	
ABRA	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	11738.54	9032.72	215.42
BUA	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	10782.58	6774.88	402.10
ABULOG	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	5952.08	6135.45	153.37
CAGAYAN	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	130455.58	135172.53	4317.39
AGNO	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	89544.54	42478.24	1200.81
PAMPANGA	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	111118.89	91816.23	2795.27
AMAY-PATRICK	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	2790.79	2128.86	53.19
PASIG-LAGUNA BAY	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	8650.87	8832.16	148.93
BUCOL	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	44455.38	33681.54	618.41
JALAJUR	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	10492.18	7764.49	216.35
PANAY	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	4334.45	1953.94	1.90
LOG-PILABANGAN	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	64.02	64.94	0.94
AGUSAN	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	15613.12	14745.96	309.84
CAGAYAN DE ORO	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	139.37	154.11	2.60
TAGOLOAN	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	436.97	407.97	7.45
BUAYAN-MALUNGO	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	1666.65	1439.89	57.04
DAVAO	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	858.27	794.22	10.84
TAGUM-LIBUANON	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	14609.80	13201.20	273.74
AGUS	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	2929.17	1949.05	71.15
MINDANAO	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	69459.13	62457.74	2387.09

Table F-19h IRRIGATION WATER DEMAND IN 2010 BY BASIN (Low Economic Growth Scenario)

Water Resources Region/Province	Irrigated Area		JAN			FEB			MAR			APR			MAY			JUN			JUL			AUG			SEPT			OCT			NOV			DEC			TOTAL
	WET	DRY	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3				
			(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)	(MCM)					
ABRA	1504.68	12583.91	13.24	6.84	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	203.21			
LADAC	26458.61	19473.95	29.44	20.53	10.36	1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	739.32			
ABULOG	17579.90	15174.38	19.20	19.70	12.67	7.31	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	526.41			
CAGAYAN	217718.98	231925.19	300.50	304.50	290.50	228.44	117.42	12.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7998.44			
AGNO	16025.30	136243.84	182.46	177.25	121.24	67.10	5.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3342.84				
PAMPANGA	250724.28	217365.08	313.63	302.30	208.58	112.80	11.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5171.24				
AMNAY-PATRICK	6047.30	5687.68	8.85	8.60	5.85	3.84	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	137.34				
PASIG-LAGUNA BAY	18664.36	16475.94	17.51	12.24	5.84	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	280.06				
V																																							
BICOL	7482.96	61736.78	73.08	70.06	73.01	76.81	53.87	30.40	7.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1089.21				
N																																							
JALAJUR	25981.92	23448.94	29.50	30.19	28.57	22.08	10.74	1.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	583.19				
PANAY	10643.90	6807.69	11.19	10.51	7.12	3.98	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.85				
ILOC-ILABANGAN	6020.00	5990.00	6.21	6.57	3.93	2.12	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	175.23				
X																																							
AGUSAN	4490.21	42708.03	11.07	27.31	4.06	2.85	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	892.30				
CAGAYAN DE ORO	4371.20	4310.40	5.14	3.31	1.71	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.06				
TACOLAN	3757.00	3350.00	3.99	2.58	1.33	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62.24					
XI																																							
BUAYAN-MALUNDO	2238.60	1792.20	2.91	2.80	2.74	2.73	2.09	1.16	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.06				
DAYAO	5008.60	4733.20	2.90	1.51	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	99.27					
TAGUM-LUBIGANON	35718.03	13920.29	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	238.63				
XII																																							
AGUS	20059.00	19515.00	23.71	23.71	24.11	25.48	17.70	9.78	2.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	586.96				
MINDANAO	181589.62	164564.73	267.31	257.35	251.67	250.44	191.70	108.05	26.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6333.74				

Table F-19i IRRIGATION WATER DEMAND IN 2015 BY BASIN (Low Economic Growth Scenario)

(UNIT: MCM)

Water Resources Region/Province	Irrigated Area		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		TOTAL	
	WET	DRY	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
I	15722.00	12923.41	13.62	7.03	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	301.77
ABRA	26538.86	20483.08	30.97	21.59	10.80	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	758.10	
LAOAG																												
II	18225.30	15970.45	20.28	20.28	13.38	7.73	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	552.10	
ADUOG	266658.18	246299.19	311.39	315.54	301.01	296.66	171.85	127.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6285.66	
CAGAYAN																												
III	165883.50	143232.86	191.82	196.87	127.47	70.54	6.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3491.46	
AGNO	259516.04	238477.38	329.87	317.82	217.14	118.44	11.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5351.89	
PAMPANGA																												
IV	6803.80	5988.45	9.31	9.05	6.16	3.83	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	144.06	
AMMAN PATRICK	18229.13	17240.31	18.52	12.81	8.11	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	293.76	
PASIG-LAGUNA BAY																												
V	77629.57	65125.05	77.09	77.09	77.65	61.03	56.83	32.07	7.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1154.52	
BICOL																												
VI	26704.42	24409.44	30.79	31.42	29.74	22.99	11.18	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	913.88	
JALAJUR	10913.83	10063.69	11.46	10.78	7.31	4.09	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	248.34	
PANAY	6027.50	5997.50	8.22	6.58	3.94	2.12	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	175.36	
LOG-RIBANGAN																												
X	45016.16	43114.86	11.18	27.57	4.10	2.86	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	905.78	
AGUSAN	4388.46	4325.60	5.16	3.33	1.22	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	77.33	
CAGAYAN DE ORO	3868.75	3451.75	4.12	2.65	1.27	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	64.04	
TAGOLOAN																												
XI	2350.45	1914.55	3.11	2.09	2.93	2.91	2.23	1.26	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	78.49	
SUAYAN-MALUNOG	5077.45	4784.05	2.94	1.53	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.66	
DAVAO	15971.21	13920.29	2.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	240.88	
TAGUM-LUBIGANON																												
XII	21170.25	19912.25	24.28	24.28	24.60	25.98	18.06	9.98	2.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	597.47	
AGUS	183566.80	168731.44	274.07	263.87	266.04	258.50	196.81	110.80	26.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6499.29	
MINDANAO																												

Table F-20 APPROVED WATER RIGHTS FOR GROUNDWATER IRRIGATION USE AS OF APRIL 1997 (1/2)

WATER RESOURCES REGION/PROVINCE	NO. OF GRANTEES	APPROVED WATER RIGHTS (LPS)	ESTIMATED SERVICE AREA (ha)
I			
ABRA	0	0	0
BENGUET ***	11	350.41	239.657
ILOCOS NORTE	30	1209.25	906.833
ILOCOS SUR	2	65	49.333
LA UNION	45	82.9	55.267
TOTAL	163	1837.56	1261.04
II			
BATANES	0	0	0.000
CAGAYAN	6	67.5	46.333
IPILETAO	2	2.6	1.733
ISABELA	45	324	272.667
KALINGA-APAYAO	6	29.7	19.800
Mt. PROVINCE	24	113.93	95.267
NUOVA VIZCAYA	30	98.6	65.733
QUINTO	5	60.6	40.400
TOTAL	119	738.93	497.62
III			
AURORA	0	0	0.000
BATAAN	27	915.3	610.200
BENGUET ***	3	25.6	17.067
BULACAN	5	13.6	9.067
NUOVA ECUIA	32	601.6	401.067
PAMPANGA	151	637.16	424.773
PANGASINAN	111	1228.52	1152.317
TARLAC	78	2410.45	1606.967
ZAMBALES	5	121.87	83.213
TOTAL	372	6457.09	4304.7
IV			
BATANGAS	68	620.1	413.400
CAVITE	15	113.27	79.513
LAGUNA	28	1272.31	846.207
MARINDUQUE	7	65.15	43.633
MANGRO OCC.	22	93.4	62.267
MINDORO OR.	17	56.9	37.933
PALAWAN	5	50	20.000
QUEZON	14	102.8	68.533
RIZAL	11	171.92	114.213
ROMBLON	1	67	44.667
TOTAL	158	2538.55	1732.367
V			
ALBAY	3	52.8	35.200
CAMARINES NORTE	2	11	7.333
CAMARINES SUR	53	556.56	371.013
CATANDUANES	0	0	0.000
MASBATE	5	39.4	20.267
SORSOGON	2	73.3	48.867
TOTAL	65	724.06	482.407
VI			
AKLAN	1	2.6	1.733
ANTIQUE	11	323.85	215.900
CAPIZ	0	0	0.000
GUIMARAS and	3	17.67	11.780
ILOILO	7	182.22	121.480
NEGROS OCC. ***	48	1565.96	1043.973
NEGROS OR. ***	0	0	0.000
TOTAL	70	2092.3	1334.867

Table F-20 APPROVED WATER RIGHTS FOR GROUNDWATER IRRIGATION USE AS OF APRIL 1997 (2/2)

WATER RESOURCES REGION: PROVINCE	NO. OF GRANTEES	APPROVED WATER RIGHTS (LPS)	*ESTIMATED SERVICE AREA (ha)
VII			
BOHOL	86	1226.76	617.810
CEBU	34	715.72	477.147
NEGROS OCC.***	0	0	0.000
NEGROS OR.***	8	123	66.000
SIOUJOR	0	0	0.000
TOTAL	128	2071.48	1380.937
VIII			
BILIRAN and	1	5	3.333
NORTHERN LEYTE	8	74	49.333
SOUTHERN LEYTE	15	150.35	100.233
EASTERN SAMAR	3	61	40.667
NORTHERN SAMAR		0	0.000
WESTERN SAMAR	4	32.4	21.600
TOTAL	31	322.75	215.167
IX			
BASILAN	1	150	100.000
MISAMIS OCC.	1	11.25	7.500
SULU	0	0	0.000
TAWI-TAWI	0	0	0.000
ZAMBOANGA NORTE	1	5	3.333
ZAMBOANGA SUR	1	7.22	4.813
TOTAL	4	173.47	115.647
X			
AGUSAN NORTE	0	0	0.000
AGUSAN SUR	0	0	0.000
BUKIDNON***	2	97	6.467
CAMIGUIN	2	53.1	35.400
MISAMIS OR.	9	257.8	171.867
DAVAO NORTE***	0	0	0.000
SURIGAO DEL NORTE	5	89.02	59.347
TOTAL	18	409.62	273.08
XI			
DAVAO NORTE***	11	205.6	137.067
DAVAO ORIENTAL	2	64.9	43.267
DAVAO SUR and	6	158.23	105.437
SARANGANI	0	0	0.000
SOUTH COTABATO***	11	145.1	96.733
SURIGAO SUR	0	2	1.333
TOTAL	30	575.83	383.887
XII			
BUKIDNON***	6	242.8	161.867
LANAO DEL NORTE	4	1362	1308.000
LANAO DEL SUR	0	0	0.000
MAGUINDANAO	9	314.58	229.720
NORTH COTABATO	6	43	28.667
SOUTH COTABATO***	48	366	214.000
SULTAN KUDARAT	21	198.23	132.153
TOTAL	94	3156.61	2104.407
GRAND TOTAL	1382	21218.21	14145.473

* Estimated service area is based on the water duty of 1.5 lps/ha per NWRB evaluation for water rights

*** Province divided by Water Resources Region

Source : NWRB Masterlist of Approved Water Rights (as of April 1997)

Table F-21C IRRIGATION WATER DEMAND SHARED BY GROUNDWATER IN 2005 (2/2)

(UNIT: MCM)

Water Resources Region/Province	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC		TOTAL
	WET		DRY		WET		DRY		WET		DRY		WET		DRY		WET		DRY		WET		DRY		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
VII	678.70	670.90																							
BOHOL	1038.00	1038.00																							
CEBU	44.00	44.00																							
NEGROS OCC.	539.90	539.00																							
NEGROS ORIENTAL	2299.20	2291.90																							
Sub-Total	860.36	858.19																							
VIII																									
N. LEYTE (MILARAN)	310.00	310.00																							
SOUTHERN LEYTE	553.00	553.00																							
EASTERN SAMAR	628.00	628.00																							
NORTHERN SAMAR	527.00	527.00																							
WESTERN SAMAR	2483.90	2461.10																							
Sub-Total	0.00	0.00																							
IX																									
DASULAN	310.00	310.00																							
MISAMIS OCC.	0.00	0.00																							
SULU	0.00	0.00																							
TAWI-TAWI	1193.00	1193.00																							
ZAMBONGA NORTE	1240.40	1210.30																							
ZAMBONGA SUR	2743.40	2713.30																							
Sub-Total	2458.00	2458.00																							
X																									
AGUSAN DEL N.	2337.00	2337.00																							
AGUSAN DEL S.	222.16	166.69																							
BUKIDNON	1958.40	1958.40																							
MISAMIS ORIENTAL	1203.40	1201.00																							
DAVAO DEL NORTE	2234.00	2234.00																							
SURIGAO DEL NORTE	10070.99	9961.44																							
Sub-Total	14.40	12.37																							
XI																									
DAVAO DEL NORTE	1371.00	1371.00																							
DAVAO ORIENTAL	1560.40	1579.80																							
DAVAO SUR	33.20	74.90																							
SO. COTABATO (SAR)	2329.00	2329.00																							
SURIGAO DEL SUR	5310.00	5308.07																							
Sub-Total	0.00	0.00																							
XII																									
BUKIDNON	0.00	0.00																							
LANAO DEL NORTE	5812.00	5012.00																							
LANAO DEL SUR	5617.16	5077.09																							
MAGUINDAHO	6997.88	6993.16																							
NORTH COTABATO	1593.00	1593.00																							
SOUTH COTABATO	1400.20	1407.90																							
SULTAN KUDIRAT	20040.24	19945.68																							
Sub-Total	140465.27	139880.76																							
Total	726555.58	723544.86																							