STREAMFLOW DATA

2. MEAN MONTHLY DISCHARGE DATA

STATION NAME: LAMAG RIVER, POBLACION, LAMAG, ILOCOS NORTE
DRAINAGE AREA: 1355 sq.kms.
FERIOD OF TARGET YEARS: 1958 to 1996

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	EEB	MAR	APR	. MAY	JUN	JUL	AUG	SEP	00т	NOV	DEC	ANNUAL
1958	ļ			İ		1	ļ 		ļ		25 22	22 51	
1959	17 51	19.17	7.72	7.38	1.45		118 01		189 63	40-01	362.29		j ,
1963	1	11 50	10 61	7 t2	7 22			818 35				15 50	į
1961	15 68	11.43	9 95	9.12	68 80	83 93	1286 42	893 90	295 54	139 13	30 52	18 18	241 84
1962	18 09	11 53	9 84		9 43	93 82	530 96	568 92	216 14	110 52	58 31	32 05	
1983	19 95	11 94	7 01	684	668	379 20	323 79	171 42	451 69	48 95	19 54	21.42	125.56
1964	19 80	9 19	7 93	7 05	44 35	115 43	83.71	499 79	568 96	112 92	80 63	97.17	135 15
1965	33 97	9 14	6 73	B 24	22 56	208 83	191 25	113 22	268 32	44 95	41 82	16 68	60 87
1986	13 15	8 62	8 01	6 97	16 95	32 85	56 06]		33 58	57 29	33 67	
1967	20 42	12 74	874	19 68	19 34	235 34	142 30	199 32	195 65	541 57	35 01	17 58	129 58
1968	14.42	11 52	1215	10 56	786	17.68	332 85	484 07	410.32	94 55	25 27	16 50	120 56
1909	15.57	15 57	951	15.51	9476	134 94	378 40	158 01	195 62	109 05	33 29	2\$ 93	108.47
1970	15 80	10 32	8 90	5 54	14.10	82 87	32 20	95 20	151 6 5	92 20	56 41	49 65	52 82
1971	22 34	12 96	11.43	9.45	10 59	54 33	325 00	336 88	454 35	313 99	61 35	39 27	138 51
1972	17.70	7 33	5 2 5	4 85	13 20	59 11	1297.03	233 09	35 01	17.63	13 20	12:45	144 93
1973	11 58	5 89	5 08		8 86	36 95	46 53	123.76	215 92	874 35	25 24	19 02	
1974	16 84	15 72					107.79	471.93	659.13	1195 52	585 23	399 68	
1975	151 38	33 72	15 00	14 87	2432	107.42	53.71	1	42 78	30 98	19 85	1173	
1978	2 17	9.78	Ø 35	0,19	13.56	268	65 57	139 27	103 37	52 41	32 25	17.15	36 02
1977	12 08	7.95	6.47	5.82	15 04	95 88	1349.26	į	427.43	24 20	11 83		
1978	i					Ì							
1979	i						ļ	ĺ	İ	ļ			
1980	ŀ						ļ	Ì	İ	i			
1951	į												
1982	į							[į			
1983	l							ì		į			
1984	15 03		7 05	5.79	93 38	135 14	159 39	448 89	208 68	42 36	33 E9	19 44	
1985	9 74	6 93	5 13	3 91	15.45	149 25	186.77	4:4 84	200 00	160 91	56 06		
1986	10 37	5 24	4 87	8.54	18 11	34 62	388 48	723.42	858 52	96 27	109 79	29 99	191 38
1987	11.14	654	7.73	4 65	4 61	64 38	109 87	88 69	537 26	106 02	107 93		
1988	}				,		331 36	259 08	96 67	118 33	25 55	13 30	
1959	11.72	7.10	4 75	431	534	38 90	269 42	355 45	498 70	491.41	8.74	3.99	143 26
1990	8 54	5.42	1.58	1,10	192	728 77	332 23	636 27	917 57	49 56	21 79	16 99	225 37
1903	7.99	5 61	3 7 5	16 88	22 87	708 01	711 03	606.74	594 93	550 20	151,14	22 57	236 3?
1992	20 81	16 53	31.61	7.23	30 89	70 21	57.17	į			İ	l	
1993	14 83	9 32	8 5 5	7.43	13 37	58 20	198 37	236 05	294 07	112 47	20 99	17.63	79 38
1794	9 90	7.42	5 25	454	12 50	55 12	445 17	326.78	313 99	30 81	10.48	7.59	103 31
1995	5 4 3	4 01	3 31	2 60	675	9.87	57 94	177.40	147.10	19 59	15 68	8,40	37 90
1995	470	3 22	231	2 79	7.52	11.42	338 98	120 39	137.77	44 67	63 81 ¹	5 27	62 29
MEAN	18 68	9 94	7.12	7.43	21 14	114.44	328 58	361 35	335 74	189 31	72.23		125 93



NATIONAL WATER RESOURCES BOARD

MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME : BONGA RIVER, BANGAY, DINGRAS, ILOCOS NORTE

DRAINAGE AREA : 534 sq.kms.

PERIOD OF TARGET YEARS : 1957 to 1980

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	£E8	MAR	AFR	MAY	JUN	JUI.	AUG	SEP	ост	NOV	DEC	ANNUAL
1957	6 35	5 06	3 86	251	2 62	65.09	48 48	78 56	150 20	29 83	19.49	8 32	35 01
1958	4.74	3 51	2 52	217	3 29	42 61	51 80	49 34	77 39	43 30	1 22	4.17	24.33
1959	3 37	294	2 65	200	2 59	4 92	24 67	7154	56 95	9 23	25 56	3 72	17.50
1900	2 82	3 40	3.48	3.06	474	11 50	13 83	77.63	\$1.51	1803	5 89	5 10	1521
1961	3 95	3 19	2 94	2 64	371	17 36	152 95	139.48	47.74	20 56	8 35	4.99	34.41
1962	353	2.76	2 15	1.84	1 57	25 63	170.49	128 71	78 95	47.72	27.09	21.44	43 06
1963	14 95	8.95	5 26	158	1 62	114 21	143-81	80.19	108 20	8 75	3,79	4 05	41.37
1964	4 36	392	3 92	2 27	6.58	33 38	27.55	196-75	196 09	31 94	21,40	26 83	46.29
1965	11 07	8.71	4.48	200	15 29	72 22	68 60	31.46	76.34	42 53	16 90	6.74	29 58
1956	5 35	361	2 85	241	451	761	18 53	126 81	45 02	9 69	14.17	6 87	20.88
1967	2 26	3 22	2.29	3.68	9.60	124.46	93 70	116 39	146 00	96 44	9.27	7.33	50.82
1988	4 85	274	2.19	2 36	2 24	6.19	26.91	61 33	79 50	20 91	5 72	3 76	10 24
1909	2 84	2 76	2 95	1 89	4 06	21.18	85 81	37 24	39 97	40 34	12 20	7.35	21.73
1970	521	4.16	2 90	1,54	1.65	20.49	12 52	24.40	24 79	24.75	22 97	8 83	1289
1971	1.72	1 58	1,13	0 86	0 56	198	45 87	30 88	14.75	24.99	5.40	2 66	10 89
1972	1.72	1 09	1 38	0.90	1.71	2 12	147.77	15 55	6.B5	4.90	3.43	3 07	18.16
1973	2 98	2 85	2 68	2 56	2 36	2 09	4 08	5 50	11 99	53 59	3 29	2 42	5.11
1974	1 87	1.84	1 38	121	121	3 68	2 88	27.07	41.60	78.48	30.59	1 58	16 21
1975	1 32	1.10	9 01	0 94	098	4 6 5	5 25	43 Z?	5 58	5.29	3.60	2.68	6 33
1976	2.28	2 08	1.61	1 57	16.12	18.70	27.66	e 02	6 03	4.68	3.46	2.39	7.94
1977	1 93	177	1 57	1 25	1.78		1	12-86				9.15	
1978		0 13	013	į		ĺ					1		
1979		1								1		!	Ì
1980			0.23			0.29	2.13	0.49	3 05	l			
MEAN	4 25	3 19	2 39	1 98	3 93	28 57	55 77	81 85	59 49	30 81	12 59	8.42	23 85

STATION NAME: GASGAS RIVER, MANALPAC, SOISONA, ILOCOS NORTE
DRAINAGE AREA: 73 sq.kms.

FERIOD OF TARGET YEARS: 1958 to 1988

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

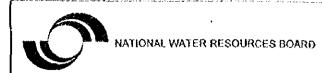
YEAR	JAN	EEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	2 10	1.19	0.85	6 70	120	10 33	9-38	7 61	14 99	7 52	3 90	2 30	5 21
1959	134	a 88	181	0.68	1.55	4 59	6 77	19 20	10 33	4 87	10 7t	4 90	5 8 2
1960	3 34	3 49	1.22	9 86	1 50	8 30	5 02	13 23	5 5 3	8.89	2 33	2 30	4 3 3
1951	1 81	0 93	0.84	0.58	2 72	5 09	21 83	15 84	13.12	9 26	3 81	2 69	8 50
1962	1 82	1 22	061	072	3 45	7.85	17.22	18 57	17 21	5 54	4 39	5 99	674
1963	191	1.74	0 62	0.60	0 54	13.09	13 13	10 07	14.15	4.42	2 25	3 05	5.47
1964	165	1 62	1 06	0.60	4.48	13 60	7 57	21.13	24.49	9 10	13.47	11 22	9 16
1965	4 02	199	0 59	157	4 52	18.04	11 73	7 95	10.82	4.97	3 69	2 36	5 97
1986	1.08	072	0.34	0.25	4 86	8.49	5 24	17,48	12.08	3 (0	11 47	4 62	5.70
1967	6.23	4.19	2 40	2 63	2 05	2181	32 99	8 59	8 75	7.26	6 65	8 64	a 85
1968	3 30 ¢	164		1 30	3 55	10,42	13.41	12.15	10 83	412	2 21	8.08	j
1969	1.45	0 99	0.45	0 52	1 65	5.48	10.46	4 33	9 34	7.46	4.10	2 92	4.12
1970	1.52	1 27	1.43	2.15	4 36	5 61	3 57	502	541	4.63	6 18	6 11	3 9:
1971	5 36	2 36	1 75	107	1 37	191	11.45	6 66	4 20	5 8 3	2 52	\$ 38	36
1972	169	1 25	1 23	1.43	2,48	3 22	10 52	4.44	2 23	208	2 24	2 42	29
1973	1.35	1.36	1.10	1 08	171	2 16	1 72	2 82	3 48	9 95	170	0 99	2 5
1974	0.50	0.26	0.1\$	0.51	0.46	0 87	1.48	2.70	3 08	5 65	5 92	1.47	19
1975	3.72	3 06	210	184	2 83	4 85	4 05	7 89	4.27	4.13	3 52		
1978	277	1.91	0.89	101	3 67	4 92	B.41	5 39	4 58	3 90	4.15	2 62	3 5
1977		2 04	1.34	129	1 05	3.86	8.14					2 27	
1978	1.77	1,43	1 29	1.49]
1979				1 27	2.43	4 20	4 58	6.47	266	3 88	3 26	2.48	
1980	2.10	1 85	1.42	1 32	5 93	2 73	5.48	4.17	5 15	3 2 8	8 47		Ì
1981			ļ	1	3 37	4 97	4 26	4.44	6 37				1
1982							3 56	4,42	4.72		}	Ì	
1953	1 53	1.15	0.99	064	0 81	311	6 91	8 21	8 84	6 83	1 85	1.48	3 9
1984			1.18	1 20	3 83	4.95	8.48	9 73	1 80	6 29	10 01	B 94	ļ
1985	1.43	1 23	094	1.75	174	9.41	3.71	4.89	15.73	3 97	1.47	1	
1986	2 21	0.96	0.03	0 58	2.11	4.15	15 85	15.76	23 80	6 60	9-80	5 00	7.5
1987	4 56	2 54	0 81	1 06	2 83	7.90	6.65	4.70	23 56	26 53	13.28)	
1988		_					29 22	13 68	034	0 38	0 26	0.54	
MEAN	2 36	1.86	109	1.11	244	6.85	9.76	9.10	931	6 27	5 29	3 50	5 1



STATION NAME: ABRA RIVER, BUMAGCAT, TAYUM, ABRA
URAINAGE ABFA: 2575 sq.kms.
FERIOD OF TARGET YEARS: 1958 to 1988

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

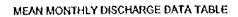
YEAR	JAN	FEB	мая	APR	MAY	JUN	JUL.	AUG	SEP	OCT	NOV	DEC	ANNUAL
1958	:					1					83.95	49 14	
1959	32 30	21.19	21.12	13 45	\$5 67	109 63	199 82	288 95	268 82	93 89	202 67	85 16	116.96
1960	39 52	30 67	26 53	38 72	79.13	106 66	93 93	724 68	288 08	242.40	6272	30 99	147.13
1961	18 21	14 59	18 16	19.01				;	377 25	215 64	65 63	45 64	
1962	30 94	26 75	27 44	29 15	36 57	118 63	732 37	483 50	548.46	125,11	52 10	34 56	188 28
1953	24 56	79 17	15 93	15.06	25 05	199 93	317.47	203.18	552 76	120 36	54 67	41 90	13272
1954	29 87	26 31	25 14	33 38	63 64	147 82	107 99	475 20	545.71	168 97	11901	107 97	154 61
1965	51 32 ·	31 80	24 50	3167	66 81	153 20	245 72	174 54	222 81	101.19	52 28	34.72	99 24
1965	26 73	23 91	23 53	27 27	8102	84 61	97,42	258 83	20171	60 00	55 81	44 08	82 46
1967	30 72	25 33	23 58	32 91	32 70	489 15	225 92	309 00	331 29	423 24	86 53	40.26	167 27
1968	28 65	19 82	17.20	13 10	29 50	77.63	336.72	633.41	664.41	209.03	45 86	36 89	585 55
1969	32 79	29 43	26.10	30 85	58 47	129 21	397 37	175 77	185 62	196 07	53.06	45 61	514.44
1970	43 69	36.76	37.45	45 75	134.46	202.72	123 30	243 56	295 24	115 50	78 37	52 95	11781
1975	42.43	38.76	30 59	24 73	33 24	82 15	475.46	300 11	230.45	308 97	75 65	59 94	142 91
1972	45 34	33 27	30 02	38 54	77 96	98 45		437 52	104 68	51 84	39 01	31 78	
1973	15 93	15 93	10.93	15 95	20 30	21 86	21 54	28 03	45 90	190 51	20 63	18 67	38 54
1974	18 60	18 63	18 68	15.76	18 76	1954		187 97	103 82	354 31	192 06	20 58	
1975	17.64	!	17 38	17 69	21 82	29 22	32 07	97.08	32 53	26.10	17.54	17.63	
1976	17 33	17.38	17.80	1761	105.77	171 28	279 33		40 01	33 33	20 75	19.14	
1977	18 60	18 11	17.43	17.45	18 56	20 67	27.15		277 93	42 81	19.43	18 20	ļ
1978		!	i	i	į				į		! [
1979	 -	:	,	!					 				<u> </u>
1980	!	i		i		į	! !			•			
1951		i	}	i									<u> </u>
1982		i			:		i						į
1983		İ	Ì		1		! !		l L				
1984		1				ļ							
1985	51 30	37 00	26 11	46 54	161 57	862.10	454 70	840 09	524 90	269.44	135 99		
1986	266 € 4	13 52	86:	8 94	47 93	117.64	585.48	731.93	88 888		141.45	56 84	[
1587	38 69	23 51	21 35	29 63	94.70	180 03	127.45	225 35	490 84	451 36	214 59	87.14	185 94
1955	45 93	25 89	15 99	39 31	125 03	320 00	466.08	432 30	305.43	302 58	164 78	78 76	193 53
MEAN	42 22	24.84	21 95	29 11	80.49	150 54	257 52	362 61	330 39	187 22	84 85	46 25	138.11



STATION NAME : PINACANAUAN RIVER, LARION ALTO, TUGUEGARAO, CACAYAN DRAINAGE AREA : 655 sq.kms.
FERIOD OF TARGET YEARS : 1957 to 1996

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	CCT	иол	DEC	ANNUAL
1957	52 17	24.04	2072	15.47	14 07	24.51	41 70	24,42	68 64	50 79	187.73	35 44	46 45
1958	20 99	19 88	14.17	9 5 1	931	12 15	1168	24 02	78 35	87.56	115 11	34.06	3618
1959	18 33	30 13	76.21	14 88	13 05	11.71	10.89	33.40	23 61	57.72	132 75	114 59	44 86
1960	58 79	85 50	17.19	9 23	8 13	8.44	7.29	11.30	23 09	120.52	38 94	37.83	35 84
1961	21 60	11 33	16 34	13 80	7.95	614	51.44	43 10	35 94	\$7.53	164,14	56.48	84.75
1962	26 64	20 70	12 80	12 61	8 83	12 03	20 61	18 65	24.77	87 85	104 57	54 32	3210
1963	20 69	19 54	10 63	10 83	6.90	25.19	56 07	22 63	21.71	20.27	18 05	92 93	27.28
1954	32.11	27.32	17.04	10.45	9 91	19 00	18 75	50 66	60 91	105.48	466.42	101.13	76 27
1965	54 20	53 38	21 15	11 68	7.80	16 90	34 25	17.86	29 45	44 03	92 58	69.12	37 68
1968	61 87	1872	47.58	B.44	77.75	14 05	20 56	13 84	7 89	33 30	67.08	147 88	45 34
1967	154 21	27 63	20.46	18 42	9 54	33 69	75 85	88.43	18 80	169.85		160 26	
1968	124.76	73 86	56 to	46.76	50 18	66 95	40.06	\$38.06	120 19	79-35	92 57	61 9 ;	50 13
1969	40 51	13 60	12.75	6.64	5 41	20 68	64 55	26.13	45 84	60 94	121 31	148.17	47 82
1970	73 19	20.71	35 20	21.44	23 27	12 79	8 07	25 57	51.36	221 59	296 82	172 61	80 63
1971	59 95	45.14	38.59	3.47	8.10	10 34	79 48	38 23	26.47	112 62	131 80	204 89	63 37
1972	57.17	16 48	10 93	17.45	13 19	9 36	13 83	17.11	20 88	15-01	62 91	62 69	26 41
1973	29.41	15 38	9.40	6 30	4.40	9 25	63 53	38.19	26.44	131 63	440 01	253 97	85.15
1974	93 23	21.55	980	12 05	5.54	6 54							
1975							6 66	5 58	6.17	9 54	16 80	48 36	
1976	24 08	5.97	5 90	3 88	34.24	13.55	32.48			21 26	108 15		
1977										ļ			
1978								25.71	8 68				
1979							17.43	2 65	1.15	10 90	10 49		
1980													
1981													
1982													
1983	107.65	17.09	6 31	5 24	4 57	4 05	5 33	5.92	20 24	11801	63 51	36 55	34 92
1984	21 50	14.20	24 97	6 91	19.19	15.99	21 13	92 57	24 80	97.72	115 98	108 51	48 68
1965	19.70	11.63	15 33	26 90	7.77	65 27	30 65	39 81	93.08	265 99	182 60	78 99	70 05
1965	40 27	32 75	23 80	14 58	2 9 0	\$ 50	139 99	22€.14	27.10	315 89	273 75	174 80	137 88
1987	29.41	15.45	8 08	4 30	4 60	14 26	978	68 11	33 6 3	53 45	82 90	113.73	36 53
1988	52 14	57 38	1162	7.49	4 45	4 23	57.77	18 80	14 50	235 48	278 85	68 26	67 51
1989	129.15	27.34	15 66	10 66		·		'		158 71	82 95	14 79	ı
1990			1.18	0 54	0.95	44.13	22.18	29 75	17.49	73 01	79.45	142 35	
1991	5.08	18 20	131	17 67	0 93	0 54	21 00	53 29	5 97	120 13	112 52	34 26	32 67
1992	27.35	5.17	4 29	2 13	2 47	3 56	5 57	9.75	102 41	198 45	104.47		
1993	5 90	7.64	. 4.68	2.44	0.85	7.62	1.45	10.73	50 80	152 41	22717	333 39	67.57
1994	17.20	3 56	2 10	1 59	2 10	2 05	4 55	11 68	53 24		32 27	20 15	
1995	6 87	6 23	090	9.55	2 86	2.11	25.17	10 39	25 43	\$1.59	421 92	522 39	\$1 23
1995	14 55	8 56	3 19	\$ 76	35 30	20.43	112 35	38 57	124.46	199-08	535.85		
MEAN	47.59	24 25	17.73	11.06	12 88	18 23	34 00	35 69	39.05	105.75	150 00	117.16	54 69





NATIONAL WATER RESOURCES BOARD

STATION NAME: ABULOG RIVER, BULU, KABUGAO, KALINGA APAYAO DRAINAGE AREA: 1609 sq.kms.

<u>EERIOD OF TARGET YEARS:</u> 1967 to 1994

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

EAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1987	156 50	120 91	89 33	317.08	85.78	358.08	214 98	276 00	268 85	658 59	264 78	284 32	260 67
1988	199 07	127 27	82 67	62 58	59 17	118 99	211 86	838.10	533 60	326.47	249 74	125 72	223 52
1969		74.12	35.09	23 21	100 38	155 04	331.16	195.16	142 90	531 78	336.11	708 92	
1970	311 80	96 14	35 20	17.41	1732	18 57	17.44	107.14	276 38	340 15	887.50	426 77	2126
1971	137 53	121.46	199.15	101 72	73 07	138 61	322 50	249 27	324 30	544.13			
1972	178.46	137.48	133 24	167 85	128 26	146 84	593 23	162 47	137.05	130 34	181 51	210 37	193 1
1973		53 20	44 26	26 16	41 72	43 85	82 82	82 07	168 27	593 41	758.47	420 82	
1974	223 18	167.05	93 89	64 60	48 28	174 02	44.45	148.40	197.92	2072 39	2005.08	823.09	506.8
1975	275 17	158 81	102 88	69 70	317 60	358 84	373-03		153 61	99 70	271.95		
1976	275.17	158 81	102 88	59.70	317 64	359.46	350 83		222.76	99.70	278 33	171.61	
1977	135,17	95 8 1		55 36	85 94	48 98	195.12	139 56	305 52	108.81	195.46	112 83	
1976	74 57	57 78	49.73	47.69	44.93	58 87	72.59	202 69	166.43	350 54	337.73	297.81	139 6
1979	85 80	60 50	51 38	49 54	55.43		80.44	103.16		235 23	235.15	142 27	
1960				39 95	102.41	45.15	148.08	95 90	96 34	201 96	568 97	205.45	\
1961	143-31	82 51	58 87	50 53	96 04	125 25	93.56	94.90	251.78	240.41	277.73	224 25	142:
1982	131.42	į	82 85	05 51	67.36	87.60	163 40	134 72	194.15	220.18	126 07	188.63	ļ
1983	483.73	96 48	51 54	41.79	36 14	41.97	49.44	73.42	129,47	127 20	220 17	124,47	122
1984	65.48	44 39	49 20	33 05	75 63	56 45	53.47			İ		159.30	
1965	386 48	i	1			477.20				ļ	358 01	247.72	
1986	202.08	190.76	123 50	75 39	87.48	84.70	383.93	262 63	454 24	420 50	413 82	207.57	244.
1987	177.45	145 82	60 80	19 53	38 85	160 07	29.14		202 95	355.47			
1968	176 95	335 96	84 61	}	26.62	86 39	484.04		1	254.49	315.27		
1989	502 05	140.16	335 04	156 37	29-27	130.89	136.48	154 26	306 87	433 84	179 08	223.77	231.
1990	342 82	226 07	28.44	25.28	31.94	222 85	501.17	268 00	322.74	561 20	278 37	310 84	259
1891	163 16	100 54	86 26	55 12	43 88	33 67	87.06	98.15	84.50	289.30	283,47	226 35	127
1992	144 91	86.85	48 23	53 80	58 70	56 63	63.49	121 25	588 78	495 05	443 83	227.51	199.
1993	198 89	124 55	73 65	59 24	63 25	85 35	72.26	109.85	174.67	420 56	452 01	500 91	198
1994	261 99	125,14	103 53	92 62	102 55	109.47	228.95	200.89	212.14	157.58	150 36	95 26	158
MEAN	213 63	125.43	56 66	72 38	80.85	140 78	198 73	179.45	247.38	402.82	404.61	274.03	214

STATION NAME: AMERAYCAN RIVER, SANTA MARIA, SAN NICOLAS, PANGASINAN BRAINAGE ARFA: 281 sq.kms.

FERIOD OF TARGET YEARS: 1958 to 1972

MEAN MONTBLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	833	MAR	AFR	MAY	JUN	JUL	AUG	SEP	ocr	NOV	DEC	ANNUAL
1958					261	21 05	20 22	58 85	37.31	17.05	7.75	6.97	
1959	5.06	3 98	3 74	3,11	5.15	2 94	9 55	19 14	20 83	13 03	14 05	7,12	9 50
1980	3 34	2 70	2 53	1 87	2 37	5.49	8 99	109.06	26 25	27.02	12 43	7 39	17.43
1961	4 58	3.17	3 64	274	3 42	24.13	135 03	26 89	23 54	15 97	615	3.24	21 27
1962	3.00	2 92	2.67	2 97	284	5 54	82.25	38.14	58.78	27 64	12.18	7.12	20 48
1963	4 58	364	3 23	3 28	3 56	58 16	43 54	39 43	60.73	15.15	11 29	6.74	20 08
1984	6 38	5.44	3 86	3 35	8 95	10.70	9 83	72.41	40 85	45 24	23 10	15 93	20 50
1965	7.45	4.03	3 58	3.95	8 26	15 84	53 97	26.56	33 53	19 82	10.05	6 94	16 02
1986	4 32	3 10	2 75	2 31	37.81	32 80	44 \$1	87.34	92 85	20 85	28.11	12 86	28 65
1967	7.50	7.78	6 80	973	6 67	51.41	24 73	82 40	61 80	71 51	26 12	12.48	30 84
1958	1.44	7.00	5 04	3 88	6 66	5.48	19.72	82 20	119.13	34.71	13 05	6 54	25.31
1969	3 51	4 32	3 92	3 38	2 52	4 97	33.60	73 30	55.40	25.18	3.70	3 29	18 55
1970	3.12	5 08	2.16	3.77	2 42	12 56	14 97	34.70	53.76	30 03	13.45	8 27	14 99
1971	5.74	5 07	6.48	3 69	4 64	14 32	36 33	41.96	31 24	56 69	14 19	7.31	15 96
1972	7.0?	7.48	5 23	4 26	6 96	12.14	279 31	124.68	31 39	B 33	3 65	3.40	25 55
MEAN	5 30	€,49	3 80	3 58	6 73	15 37	54 24	57 68	49 08	28 59	13 08	7.71	20 61



STATION NAME: AGNO RIVER, FOBLACION, BAYRAMBANG, FANCASINAN DRAINAGE AREA: 2284 sq.kms.

EERIOD OF TARGET YEARS : 1957 to 1976

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MVS	AFR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957								224 35					
1958	41 44	36 22	28 36	26 64	29 93	87 50	158 97	201 73	335 51	144 54	6175	43 56	99 58
1959	29 74	1877	21 30	21.41	26 31	27.49	29 55	89 97	140 61	67 50	55 33	37 34	47 20
1960	34 60	23 72	12 78	15 54	25 09	73 00	67.87	561.62	285 73	157 89	61 18	45 84	114 37
1961	2377	17.57	13 03	13 22	14.17	53 42	324 54	227.64	302.25	166 16	76 31	45 54	107.17
1582	29 47	16 07	16 93	15 88	20 99	29.16	268 20	301 26	353 35	149 45	49 38	51 92	109 23
1963	37.71	2930	22 23	22 17	29 85	197 35	245 66	227 87	373 70	198 71	32 90	54 97	114 78
1954	35.76	18 02	11 37	13 06	26 83	76 37	70 68	369 00	234 75	222 51	143 00	122 35	11256
1965	61.13	37 07	26.65	34 20	46 31	119 03	213 85	186 06	198 58	114 94	41.70	30 85	9291
1966	22 45	20.20	1331	14 92	115 86	13247	132 10	189 52	305 53	11076	107 00	113 37	105 11
1957	52 88	39 45	37 65	53 53	58 92	16761	159.45	338 86	282 32	261 79	147 23	65 22	139 07
1968	49.35	32 82	22 24	23 47	35 35	34 13	84 74	339.12	311.41	141 93	47 02	37.11	96 \$1
1969	23 29	18 07	17 38	20 5 1	42 38	82 52	122 93	179.27	163 80	106 84	36.76	37.30	71 29
1970	33 18	20 90	20.45	33 80	48 61	SO 59	87 58	145 08	175 22	149.74	51 54	44 00	75 22
1971	34 33	43 95	26 18	31 03	26 32	61 28	137.00	157 98	122 57	196 81	65 75	34.16	78 49
1872	80 58	45 90	29 52	29 70	35 23	87.07	774.18	390 95	148 66	103 11	56 13	38.16	149 57
1973	49 86	18 51	11 85	B #2	12 75	36 97	61 39	115.10	147 51	207.77	103 41	54 17	59 31
1974	į			1			123 98	342 83	179 64	397 28	190 45	52 12	
1975	20 00	5 84	4.15	4 26		i	38 02	103 71	117.32	304.14	25 69	7.70	
1976	8 67	5 29	5 66	4 86	5 9 23	355 51	265 \$1			!		İ	
MEAN	35 51	24 98	18 95	21 47	38 91	99 48	177 57	245 83	232 17	161 33	75 14	50 88	98 94

STATION NAME: ANGAT RIVER, LONGOS, EULIUAN, BULACAN PRAINAGE AREA: 959 sq.kms.

FERIOD OF TARGET YEARS : 1959 to 1979

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	EEB	MAR	APR	MAY	JUN	JUL	AUG (SEP	ост	NOV	tec.	ANNUAL
1958			,		:							3 38	
1959	5 15	15.74	28 91	4 60	4 93	3.06	749	73 17	75 23	22 40	118 02	74.73	36 33
1960	54.48	43 58	671	9 00	10 32	48 BS	26 91	433 15	132 51	244 02	25 70	12 88	. 8813
1961	13 05	15 07	15 33	4 26	12 18	88 50	127.72	79.65	161 59	99 86	57 92	8.70	57 22
1962	15 43	20 78	15.25	7 23	2 38	151 -	261 42	127.79	247 16	45 22	102.75	35 28	73.77
1963	12 68	42 51	10 42	4 34	4.17	127.71	107 55	97.17	195 QG	25 63	1321	29 15	55.54
1964	11 56	26 66	24.76	10 66	7 02	7.83	43.82	108 79	68 99	56 07	130 79	122 63	51 58
1965	22 03	23 09	6 03	3 97	3 78	15 24	117.76	40 14	61 64	29 71	78 61	56 84	40 84
1956	15 05	15 77	10.25	7 53	94 20	20 72	22 49	42 55	63 89	22 65	15.19	112 98	38 96
1967	51 F 04	15 55	28 19	27 88	50 98	49 08	20 23	157 86	58 95	34 58	72 54	32 48	55 49
1968	12 90	16 09	33 04	36 09	25.41 -	1971	2792	86 53	109 79	69 90	3 72	3 99	37.15
1969	159	1 07	1.00	2 49	8 28	5 89	28 45	161 90	50 73	26 09	1 66	3.96	24 80
1970	175	1 73	40 69	41 43	77.15	:	57 73	55 73	75 70	45 09	43 22	69 81	
1971	58 35	41 13	64 52	:			85 38	69 89	48 04	138 15	69 52	181 51	!
1972	7472	25 95	47 39	30 66	14 80	26 55		331 24	95 61	60 55	59 05	62 17	:
1973	:		1	:			17 58	23 99	20 91	122 13	29 ₽2	36 0≮	į
1974	917	12 56	15 40	15 68	6 83	43.49	33.61	178 61	42 38	64 63	189.11	126 24	61 53
1375	33 34	24 99	26 61	33 53	33 25	30 92	19 88	43 36	43 23	43.58	3163	31 86	33 07
1976	12 56	15 28	15 92	38 05	182 14	122 29	132 49	104 68	108.49	49 62	30 57		
1977	23 05	46 87	9-86	8 86	11.44	9 76	32 36	37.74	28 30	7 05	47 43	4 34	22 C4
1978	4 20	5 92	6 07	17.67	13.55	21 42	17.48	104 32	97 66	201 75	135 30	16 86	5341
1979	12 22	2164	:	12 48	17 87	36 52	47 00	98 04	14 70	59 38	9 60	7 04	-
MEAN	23 89	21.55	21 85	17 02	30 56	37 87	61 66	115 95	87.45	89 93	80 27	43 56	48 66



NATIONAL WATER RESOURCES BOARD

MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME: PAMTANGA RIVER, PASIG, CANDARA, PAMPANGA DRAINAGE ARRA: 7468 sq.kms. PERIOD OF TARGET YEARS: 1958 to 1972

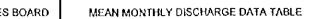
MEAN MONTHLY DISCHARGE, IN CUBIC NETER FER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	МОЛ	DEC	ANNUAL
1958 ;	:	i	ļ	į		İ		•		341 89	151 23	53 69	
1959	45 93	47 69	87 51	58 26	68 44	79 47	88.07	296 27	535 58	242 39	293 69	141 53	163 75
1960	82 65	77 68	62 72	66 09	70 90	150,44	326 47	1002 90	792 64	803 26	143 63	64 28	308 20
1951	54 53	38 72	43 15	53.35	87 51	195 91	919-31	878 43	857.79	513 00	145 83	71 25	306 59
1952	58 80	49.55	50 90	57.83	72 25	87 89	459 59	E54 57	843 91	379-01	167.47	82 16	250 84
1963	49 66	50 86	52 73	58 69	69 07	391 75	822 43	607.23	895.18	180 44	28 26	83 35	258 22
1964	45 53	47.13	49 52	58 62	74.64	85 62	345.59	717.74	495 SQ	61274	661 49	537 12	312.49
1965	114 45	09 32	63.26	6879	88 39	189 33	803 38	457.42	587.35	314 83	214 80	50 54	254 71
1966	25 58	24 20	. 25 83	29.76	447 68	259 59	277 81	453 94	€98 85 ;	115 11	461 78	360 94	266 09
1987	109.76	25 14	: . 27.25	32.08	39 45	142 98	251 55	962 43	91974	642 81	412 47	31.44	301 25
1968	22 35	21 54	22 91	28 62	32 72	: 41 27	134 93	547.34	643 67	420 40	42 55	92 71	187 93
1969	; . 50 47	50 17	58 77	77.91	87 59	104 99	200 26	677.49	451.18	284 21	58 12	89 64	185 18
1970	44 49	47.54	50 93	6175	75 35	150 58	194 03	335 12	905 93	593 47	610 51	217 34	274 27
1971		59 37	82 22	51 03	45 28	!	811 75	836 16	167 99	793 01	256 06	330 05	İ
1972	31255	94.48	1		68 92	85 67	989 69	1141 10	824 67	§1 54	104 78	68 02	315 45
MEAN	17 80	51 09	53 72	56 98	54 69	153 75	446 77	655 CB	687.15	421 95	252 51	150 27	260 35

STATION NAME: PAMPANGA RIVER, SAN AGUSTIN, ARAYAT, PAMPANGA BRAINAGE AREA: 6487 sq.kms. FERIOD OF TARGET YEARS: 1957 to 1996

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR:	JAN	FEB	MAR	AFR	MAY	JUN	Jul	AUG	SEP	ocr	NOV	DEC	ANNUAL
1957	120 33	54 31	3394	27 59	17 59	95 14	337 85	+26.79	51759	298 78	455.55	75 03	213 74
1958	55 04	37.18	27.62	13 15	17 79	151 73	245 23	292 81	760 19	354 64	132 55	51.85	178 82
1559	43.97	40-36	61 93	31 \$1	36 17	35 27	35 80	264.75	471 85	232 87	263 49	13243	139 90
1960	75 31	82 15	36 43 -	23 66	26 98	183 15	260 82	1370 71	726-03	798 11	126.27	55 80	314 34
1961	51 92	30 21	31.19	17.13	68 95	177 15	905 92	633 11	771 92	421 49	116 07	55 €5	275.42
1962	47 31	29 70	19 65	13 04	15 20	23 64	585 06	530 28	802 17	434 35	155 27	56 54	235 71
1963	50 95	56 06	28 59	20 63	17 08	357 13	820 00	607 72	912.48	185 21	54.71	100 92	252 44
1954	56 55	45 69	34 75	22 25	33.36	66 97	291.42 ,	585 40	451 87	\$89.65	613 34	478 94	282 19
1965	102.48	84 58	39 32	27.33	39 37	158 29	815 23	416 57	553 64	265 70	22381	88 02	243 93
1968	50 65	43 04	24.42	11 14	558 87	252 10	275 13	443 50 '	750 69	108 10	480 16	371 41	281 82
1967	135 52	55 19	25 11	17.00	13.68	228 93	279 70	984 €4	887 93	589 47	427.60	6208	310 44
1968	42.84	26 63	35 83	32 19	37 99 -	57 30	163 90	598 16	906 90	396 10	45 03	87 03	202 84
1969	33 48	15 91	10.79 :	11.48	42.58 ·	40.90	172.23	86 96	422 84	260 42	99.28	85 92	155 87
1970	42 61	26 52	10.75	26 54	17 56	118 15	189 681	418 35	877 01	627,54	399.58	203 27	247.75
1971	66 82	43 01	44 01	23 78	74 80	454 65	691 62	437.74	312 65	1835 18	372 32	388 77	490 14
1972	368 96	122 21	E9 33	52 17	58 99	124.76	1620.95	1395 79	592 55	129 71	141 91	83 46	431 18
1973	772	8 00	3 90	3 35	403	7 57	16 65	161 87	203 31	96\$ 54	157 57	18 23	128 93
1974	9 15	6 99	6.62	5 31	5 88	112.21	176 56	905 95	95 52	591 88	749 92	137 65	234.77
1975	76.72	£4 65	59 62	75 73	122 54	134 56	161 83	694 75	167 36	268 96	304.75		
1975	121.43	68 89	45 81	51,17	51 74	68 96	57 87	149 65	209 31	363 63	76 19	168 94	121 75
1977													
1978	55 30	23 60	5 23	\$ 19	052 94 ·	808 85							
1979											216 95	104.39	
1980	:		•	·			:						
1981 -	:						,		*	:		137 02	
1992	109 33	97 84	79 10	131 71	81 49	87.91	499.06	E40 11 ¹	465 36	181 98	152 62	102 24	213 40
1983	99 21	61 52	5261	35 10	4074	42 26 1	114 17	232 41	114 5)	370 11	144 73	43 72	113.28
1984	38 45	34.57	29 09	33 86	127.77	129 87	23951	479 54	51148	360 27	33791	65 10	200 25
1985	51 35	52 55	52.42 1	51,10	48 11	443 44	844 97	530 \$6	142 27	474.24	121 50	101 45	230 53
1985	:			64 93	93 89	128 93	405.81	570 73	822 12	727 00	273 85	17267	
1987	88 70	64 44	52 79	52 10	43.57	55.75	97.57	424 97	431 75	107 39	114 24		
1988	62 51		34,45	!			165 93	254.11 -	117 38	509. 93 ,	765 57	76 47	
1989	43 78	45 87	52 34	91 62	138 69	į	332 22	773 20	578 75	472 04	296.43	75 32	
1990	55 84	49 92	38.34	44 90	52 45	436 00	696,01	728 09	1641 63	310.91	:		
1951	\$7.75	50 10	47 93	43 47	59 58	395.09	68 11	459 24	877 21	453 79	130 15	47.22	210 77
1992	63.79	63 14	51 69	83 52	54 14	61 73	420 99	558 39	972.62	416 24	181 95	9371	250.42
1993	79 75	57 28	63 31	70 49	54.76	105 06	212 33	428 41	259 89		427 30	243 99	
1994	106 94	77 15	72.96	72 07	73 01	79.45	559 17	519 74	543 85	257 71	87 53	111.45	222 95
1995	95 34	79 87	66 84	\$6.38	72 75	93 28	178 66	303 90	740 97	814.64	525 17	275 00	27 8 06
1995	95 80	63 32	65 72	91.42	109 10	93 33	267 68	:	1	193 03			
MEAN	77 25	\$1.34	40.72	40.83	89 26	172 91	370.74	560 33	553 £4	457.13	263 77	132.81	235 02





STATION DAME : CAMAYSAYAN RIVER, FALUBLUBAN, GEN. TRIAS, CAMITE

DRAINAGE AREA: 29 sq.kms.

FERIOD OF TARGET YEARS : 1957 to 1995

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	F.F.B	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	Nov	DEC 1	ANNUAL
1957						0 19	G 67	1 28	Q 87	238	0 22	0 14	
1958	0 15	0 13	0 10	011	0.11	0.57	284	2 60	175	D 78	031	Q 17	0 79
1959	6 11	0 12	0.13	0 11 1	0 13	0.15	0 29	074	0 27	D 20	0 26	0 17	0 22
1960	0.26	0.15	0.15	0 20 1	0.54	2.24	8 43	5 0 9	1 62	4.71	0.34 ;	0.21	1 34
1961	0.21	0 20	0 20	ā 25	0 29	2 65	1 22	1 96	1 27	0 80	0 95	8 24	0.85
1982	9 50	0 14	0.14	0 17	0 17	0.23	5 20	7.71	9.44	0.43	0 25	0.21	2 03
1963	0 20	0 20	0.24	0 36	0.45	1 76 ,	1 19	1 50	9 53	0 55	0 21	0.21	1 37
1954	0 13	0.11	0-17	018	0 21	872	9 64	211	2 58 .	0.59	0 52	0.73	2 04
1965	0.21	0 15	0 14	0 10	0 27	0.41	1.71	061	0.79	0.87	0.25	0 20	0.48
1956	0.18	0 16	9 17	0 13	2 47	9 55	1.13	0 72	3 27	0.39	1.76	2 98	1 19
1967	067	0.33	0.18	0.14	0 12	1 69	2 62 1	2 24	1.42	0.75	1 32	0.42	0 98
1968	0.20	0.18	0 13	0 15	0 33	0 59	1.42	2 44	2 05	0.85	0 17	6 50	0 73
1969	Ø 19		0.65	0 42	0 17	0 24	\$.17	9.27	0 85	0.75	0 23	0 19	
1970	D 14	0 14	0 14	0 14	0 15 ¹	101	0 90	1 04	3 05 -	4 54 3	461	0 26	1 35
1971	0 14	D 13	9 17	9 13	0 27	3 09	474	1.46	0 97	4.18	0 55	1 34	1 44
1972	0 73	0 21	0 10	0.08	0 50	179 -	6 17	2 90	1 CB	0 23	0.29	0.22	1 17
1973								:		1	:		
1974										i			
1975													
1976												,	
1977											;		
1975										÷	:		
1979											:		
1980							:	•				!	
1981										:		:	
1982 ;										:	i	0 26	
1983	0.20	024	0 19	0 15	0 19	0.27	1.10	1 25	0:44	:	:	,	
1984	0 18	0 18	0 11	0.08	0.65	272	0 51	4 29	0.54	163	944	0.24	0 97
1985	0 18	0.22	0 23	0 22	0.22	574		* 32	0.58	1 53	0 33	0 25	
1985	0 25	0 25	0 21	9 18	0.25	0.25	1 56	2 99	2 35	2 78	1 35	6 41	1 68
1987	0 31	0.24	0 14	0 10	0 16	021	0 25	0 93	2 58	0.38	0 52	0.38	0 51
1988	0.29	0.22	5 16	8.16	0 21	2 21	1,10	0 89	0.41	4.48	2.14	0 28	1 65
1989	B 27	8 27	0 30	0 22	69.0	0.57	1.40	\$ 81	8 82	1,77	0 27	0 24	0.61
1990	0 23	0 19	0.14	ā 12	0 19	1.05	0.61	3 47	1.78	0.88	0 89	0 26	0 83
1951	0.17	6 09	0.14	9 06	0 12	0-18	1.16	6 56	1 31	674	1 00	0 25	1 00
1992	0 20	0 23	0 25	9 56	0 18	0.13	0 55	1 30	1 36	G 26	0 44	0.23	0.48
1993	ŭ 17	0 13	0 09	0 07	0.06	0 32	0.33	1.76	081	0 93	0 54	3 56	0.74
1994	Q 32	0 21	0 25	0.27	0 29	0 72	3 93	121	034	1 33	0 34	9 24	9 80
1995	a ce	a 06	0.18	0.20	0.21	0.29	0 40	0.63	2 38	1 75	2 46	0.44	0 76
MEAN	02#	0 10	0 19	017	0 34	1 33	194	2 23	1 96	1 50	580	0.52	1 00

STATION NAME: CASURAY RIVER, OTOYAN, SAN JOSE, OCCIDENTAL MINDOSO

TRAINAGE AREA: 136 sq.kms.

FERIOD OF TARGET YEARS: 1956 to 1969

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR 1	JAN	FEB	MAR !	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOA	DEC	ANTEJAL
1956	i	:		75 07	101.45	140 B8	177 83	350 75	356 00	277 93	149.52	121 10	
1957	12 79	201	1 12	0 60	D71	2 43	82 58	71.19	67.28	49 50	28 65	2 58	27 06
1958	1.13	1 12	0.73	0 57	3 57	3 02	25 46 ·	27.43	55 53	42 28	13 70	1.45	14.72
1959	1 09	1 25	0 86 :	0.76	0.73	0.82	34 54	22 50	12 90	3 78	1377	25 00	8 92
1960	35 61	10 58	7.45	5 78	4 97	35 81		25 34	130 61	28 85	5 06		
1961	2 43	0 87	1 04	1 15	10.54	15 63	36.45	59 58	24 31	7.13	8.09	1 93	14 08
1962	0.78	0.71	0.88	0.76	2 75	5 21 ·	35.51	38 35 ,	68 64	6 82	30.96	3 68	15 50
1963	105	0.73	0 64	0.49	0.43	13 51	6 48	12 87	12 34	7.45	5 37		:
1964	1 29	89.0	0.59	0 54									
1965	2 23	1 25	0.68	0.63	100	3 70	14.49	7 31	20 10	8 50	4 93	374	\$ 73
1956	2 35	1 91	1 52	107	17 38	8 59	15 63	13 87	12 83	7.15	9.05	8.72	
1967	8 63	6 67	4 93	4 37	4 18	9 57	13 79	26 37	9 45	!		0 93	1
1968	0 45	0 38	0 34	0 25	0.40 -	0 72	5 25	i	9 27	6 96		•	
1969	0.27	927	i	:	•	1					,		1
MEAN	5 34	214	1.74	7.10	12 34	19 67	40 65	56 02	E2 46	37 56	22 97	18 27	13 00



STATION NAME: BICOL RIVER, STO. DOMINGO, NABUA, CAMARINES SUR
DRAINAGE AREA: 905 sq.kms.
FERIOD OF TARGET YEARS: 1960 to 1995

REAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FFB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	юч	DEC	ANNUAL
1960	117 88	35 75	16 58	16 79	23 88	58 52	74.76	41 03	24 50	123 66	69 14	33.73	53 26
1951	26 70	12 77	1167	11.17	12 68	19 85	50 63	58.49	68 75	64 50	42 81	57 60	35 15
1962	30 66	15 82	15 13	14.46	2498	43.75	59 98	53 71	66 74	60 38	44 70	38 56	39 23
1963	15 12	12 94	11 34	10 85	10 71	13 69	37 29	98 36	80 30	45.85	27.13	23 06	32 63
1964	21 55	14 31	12 35	1151	11 93	12:34	27.13	28.94	38 57	102 04	67 91	105 02	38 00
1965	56 30	38 45	21 03	18 02	24 11	58 14	122 08	72:41	63 71	43 89	35 78	41 96	49 67
1968	45.01	15 47	1184	9 39	8.97	9 38	23 22	44.78	35 17	20 37	2031	37 21	23 18
1967	19 28	43.71	27 63	12 64	10 10	872	1761	60 31	85 35	60 70	120 78	29 59	41 67
1968	1545	22 14	11 61	8 16	8.75	6 90	10 81	45 60	29 66	45 89	14,19	7 85	18 99
1969	4.48	3 87	310	2 09	2 49	5 81	20 29	21 63	18 49	18.45	15 85	51 20	14 09
1970	39 51	17.72	1216	18 61	6 65	4 94	23 81	59.67	57 23	140 60	152 10	110 22	53.14
1971	47 32	35 43	53.75	23 05	45.79	80 39	94 98	35 80			33 56	70 68	!
1972	132 69	73 72	į į	i	:		ĺ	44 90	87 90	37 66	23 59	22 99	į
1973	17.48	10 52			!		7.81	15 99	37 70	12273	7372	125 82	
1974	66 B6	19 56	12 47	19 02	8 20	59 87	51 58	41.58	18 15	30 10	74 05	6201	38 00
1975	47 05	15 B6	10 58		11 25	12 13	19 45	31.74	!	, ,	59.33	39 19	
1976	95 25	26 41	15 58	9 19	20 16	45.47	70 64	58.12	58 38	50 17	49 13	123 05	5193
1977	74.11	26 62	50 52	45 13	47.81	45 09	61 83	61 55	80 58	54 44	72 57	55 95	57 04
1978	11 55	7 22	8 37	7 67	7 35	13 38	1	:	:	94 13	65 17	26 18	:
1979				i		•			i :		•		İ
1953	ì	7	,		!	:			:	:	-		i
1991	(i	:	:	1			-	;	1		1	
1982	52 18	39 49	20 53	20 97	15 17	17.14	54 28	73 66	121 45	77.06	32 21	34 66	48.40
1993	21 55	12 53	7 07	3 93	3 17	3 30	48 70	39 37	24 95	56 59	1		
1954	36 58	31 79	26 49	1845	20 05	25 12		50 88	63 03	74 22	54 64	60 26	:
1955	39 54	39.78	11 73	12.00	10 25	11 63	60 25	51 70	34 26	101 18	83.75	63 42	42 22
1988	İ	23 42	11 65	19 20	11 33	!	33 75	72 24	37 20				į
1987	1	8 54	8 53	i i	3 19	6 25	36 38	55 44	6973	36 27	72 66	154 20	ì
1588	1	į	:			1	29 11	23.07	26 16	123 16	•	88 21	i
1989			80 73	36 34	33 82	59 83	67.87	38 01	42 92	64 02	32 75	48 48	59 56
1990	F	1	1			1	20.12	55 26	22 85	i	}	}	
1991	21 53	15 21	11 92	E 26	7.61	42 38	١	55.42	58 03	21 64	25 82	35 54	1
1992	1	1	:	!	!				52 84	44.10	24 35	İ	•
1993	i		í	3 20	2 05	2 20	14.10	36 76	88 82	35.73	45 41	169 26	35 69
1934	126 75	56 88	14 97	15 63		34 96	154.15	63,77	-	49.43	1		•
1995	51.45	19 21	975	5 : 9 & (14 61	29 32	34 11	63 65	93 29	57 78	115 93	188 18	54 32
MEAN	44 53	26 9	17.54	13.30	3 14 32	25 96	48 66	50 69	54.09	63 03	59 30	68 (41.44

STATION NAME: PAYO RIVER, SAN MIGUEL, PANGANIBAN, CATANDUANES

DRAINAGE AREA: 29 sq.kms.

FERIOD OF TARGET YEARS: 1957 to 1995

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

EAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	NOV :	DEC	ANNUAL
1957	11 92	2 82	1 51			0 41	9.89	1 15	2 22			472	6 12
1958	4 80: :	4 10	144	127	4 67	137	1 01	2 30	1 45	20 76		7.85	4 50
1959	\$ 15	275	4 92	0.79	3 70	0.23	8 73	0 38	0 21	0 36		9 31	3 41
1960	3.42	1 26	1 65	103	0.54	136	5 90	1.17	2 67	867		5 10	3 65
1961	1962	0 58	275	174	1 65	1.52	0.79	1 55		'		23 68	5 02
1962	2 88	2 88	2 15	1 35	3 89	269	1 69	0 15	131		1 07	3 03	1 \$6
1963	6 43	5 6 7	061	0 25	1 06	7 62	3 61	13 18	3 20	2 35	4,10	8 50	4.74
1954	3.60	1 80	1.15	1.05	0.99	0 95	5.27	1.19	1 68	7 92	B 44	17 57	4 35
1965	6 89	2 01	2.09	0.79	4 86	1 51	5 32	3 50	1 37	3 45	814	8 59	4.05
1966	7.16	3 60	2 65	0 94	1 22	073	3 55	1 25	0.38	2 87	5 24	12 65	3 52
1967	6 04	272	153	3 32	0.78	079	2 15	2 68	2 29	3 87	4,45	11 43	3 52
1958	10 89	\$ 67	4 68	168	1 30	165	1 68	\$ 4 1	2 66	2 99	171	4 83	3 3 3
1969	0.49	0.33	D 14	0.75	108	0.73	1 20	2 07	1 53	3 89	22 74	7 21	3 5 1
1970	7 28	5 0?	11 87		0.51	0 69			6.53	27 35	23.07	0.69	
1971	0.80	3 37	1 77	0.79	9 64	4 97	6.74	0 63	0.82	B 13	2 32		
1972	}				•								
1973			:		0.26	0 25					2 04	2 7 8	
1974	:	3 41	1 04	0.83	1 13	2 29	0 93	0.72	0.54	1 79	2 52	3 31	
1975	2 18 1										1 77	4.43	
1976	1 24	0 57						0 42					
1977					975	0.74			1.17				
1978									!				
1979						:		;					
1980			:							:			
1981						l					:		
1982	;		: ;		1		1 52	0.41	1 04	1 12	4.09	411	
1983	9.47	0 99	0.53	0 34	0 27	9 23	0 63	0 90	0 96	1 86	8 93	7 54	2 t
1954	476	3 64	2 69	6 98	0 52	0 53	0 55	0 37	0 75	\$ 27	4 65	5 6-0	2 20
1985	7.17	2 62	1 39	074	1 29	1 02	0 92	0 33	1 159	6.60			
1966 i	3 98	241	150	į		!		! •	i	i	i i		
1987	1.48	1 06	0 68	0 38	9 19	0.15	177	106	0 34	0 32	3 80	7 64	15
1965				1	:	;		931	0.39	3 93	297	7 09	:
1989	494	474	3 20	1.45	0 92	•	0.52	0 17	014	1 36	2 2 \$		•
1990	171	0 82	0 24	0 13	0.13	;		! !					1
1991	3 70		0.58	0 25	0.50	1 29	0 53	9.18	0 05	İ	:		
1992	3 23	0.89	0.14	0 07	0.06	0.05	0 36	0 22	6 14	1 68	1 63	1 23	. 08
1993	1.10	1 51	1 13	0 17	0.06	0.68	0.41	6 06	0.50	2 64	4 08 :	4 12	13
1994	1 36	0 54	0 15	0 13	0.04	14 18	1266	4 63	8 30	45.71	38 14	49 85	14.4
199\$	45 63	4701	25 99	0.96	103	3 09	4 58	5 01	6 68	1			
(EAN)	8 64	4.15	296	0.96	151	1 87	2 69	169	197	6 62	8 17	8 95	3 \$1



STATION NAME: PANAY RIVER, STA. RITA, CUARTERO, CAPIZ TRAINAGE AREA: 880 sq.kms. PERIOD OF TARGET YEARS: 1957 to 1995

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	AFR '	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1957	156 15	30 37	13 87	35 Q9	11 35	25 ê4	76.06	87 95	45 37	63 37	44 16	19 30	50 20
1958	24 14	12 36	10 43	15.79	18 15	37.08	50 71	84 02	31.14	156 17	137.49	\$1.70	5103
1959	19 12	9 97	24 60	7 20	37.63	29 78 :	126 03	58 84	105 07	106 39	119.39	75 62	60 32
1969	2161	26 15	12 55	58 31	27 58	67.88	80 15	54.96	39 65	194 04	157.55	59 64	59 54
1961	36 99	2195	12 82	6 38	24 39	45.96	59 19	46 23	59 30	101 03	68 26	32 11	42.82
1962	35 31	27 ā1 ¹	28 44	9 59	8 50	51.11	102 91	312.11	198 94	43.07	122 00	101 94	. 70 21
1963	60 65	29 63	14.68	9 11	755	7 96	21 43	90 39	\$1 08	58 85	44 26	77 80	39 68
1964	25 03	14 79	6 8 9	6 57	25.95	9 04		!	104 62	\$1.51	145 63	101 99	
1965	85 11	27 67	44 83	22 78	13.55	43 59	62 53	51 35	49.45	€6 10	24 77	90 26	52 71
1966 .	32 08	10.15	8 21	6 5 ?	53 91	5199	92 68	100 93	130 97	168 30	194 31	64 58	78 19
1967	245 99	93 75	41 73	11 64	9 97	14.52	33 15	27.10	47 45	57.11	113 58 .	31.13	60 52
1968	25 59	24.14	39 01	48 62	47.79	45 01	57 51	47.49	37 38	103 98	131 64	21 74	46 85
1969		5 87	3 64	2 06	3 62	26 21	102 11	39 99	54 86	44 75	55 05	153 72	
1970	14 00	35 02	33 95	16 01	3 45	25 98	127.68	25 57	36 89	54 03	111 78	101 56	49 55
1971	47.71	58 50	23 84	6 27	45 31	176 88	55 93	24 02			89 94	55 98	
1972													
1973	33 47	31.13	25 22	20 45	9 73	14 33	22 09	39 23	149 77	91 76	470 22	247 58	125 12
1974	103 45	137 87	68 17	14 72	19 32	29 74	:	29 95	36 54	56 37	46 63	47 04	
1975	45 31	84 65	27 &1	16 37	8 20	85 16	58 76	88 71	122 50	73 75	60 81	133.03	56 90
1976	82 45	67 13	18 68	37-84	52 39	67.67	40 32	233 63	47.48	1698	99 20	85 83	71.54
1977	38 79	21 06	29 97	5 44	13 02	66 69	62 30	49 54	50 92	49 29	69 32	44 15	41 82
1975	25 60	37 44	7 05	27 55	53 35	76.21		12 37	29.62	58 48	87.44	93 14	:
1979	24 99	2 95	1 58		34 30	205 90	129 58	94 01	54 70	75 43	220 54		1
1960											į		!
1981									i		1		
1982						,							
1983						;							!
1954	13 54	7 29	49 80	21 65	55 22	65 24	44,21	23 24	97 33	106 30	127.39	85 94	60 52
1965	72 20	55 61	34 25	26 42	53 03	45 78	75.42	47.47	123 09	87 99	11431	98 28	69 60
1958	194 81	47.45	37.44	18.80	17 92	61.74	60 27	39 57	42 30	99 37	102 55	37 51	55 87
1997	38 63	25 96	6 38	3 03	3 24	10 93	27.54	41,97	36 15	33 56	85 80	61 52	31 24
1958	14 15	5 57	2 89	537	3.87	37 22	55 B4	32 22	37 23	85 65	203 53	74 68	46 54
1989	64 55	54 99	53 52	26 81	37.68	63 81	69 54	39.10	120 81	<u>;</u>			
1990	20 79	20 05	12 35	184	67,70	86 62	81 60	115.83	7572	108 09	160.75	56 47	68 96
1991	29 23	45 97	69 76	63 89	70 29	79 52	115 83	87.52	98 07	122 00	133 59	106 25	65 63
1992	69 65	44 93	31.10	35 96	63 32	84.07	120.24	119 87	76 35	87.77	156 36	102 44	82 82
1993	77 42	78 04	76 65	55 73	45 10	83 05	108 62	139 55	137.62	120 67	135 20	203 43	102.81
1994	128 00	88 02	73 68	91 03	117.74	179 81	118 64	117 50	145 63	127 71	98 87	139 17	118 63
1995	121 33	67.73	48 76	38 83	80 15	130 31	112 42	145 65	154.70	175 23	135.71	231 00	125.18
MEAN .	59.06	49 33	29 24	23 69	33 68	62 23	75 76	71.45	80 03	86 38	123.18	90 87	67.12

STATION NAME : JALAUR RIVER, CALLAN, POTOTAN, ILOILO

DRAINAGE AREA: 1499 sq.kms.

FERIOD OF TARGET YEARS : 1957 to 1995

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

				_									
YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	oer	NOV	DEC	ANNUAL
1957	131 07	24 03	7.41	22 39	5 59	11.41	95 30	136 53	77 02	58 CB	37 30	16.06	53 34
1956	27 21	21.12	13 G1	12 12	14.45	24 88	66 32	75 59	34 44	157.77	102 93	35 44	43 90
1959	19 23	11 27	25 29	5 93	21 40	43 43	127 48	107.04	73 71	136 64	131 00	8193	65 74
1960	38 79	30 74	1493	48 15	32 68	127 35	120 78	118 60	99 53	206 74	175.76	54.78	89 13
1961	21 24	14 59	4.51	261	27 67	71,40	108 34	109-34	54 83	69 49	165 49	133 \$1	65 60
1952	111 55	129.91	14 15	2 37	197	31 21	147.68	152 29	224 90	104 37	68 28	39 92	85 70
1953	22 63	18 90	18 04	17 24	18 75	16 69	16.63	70 50	169 13	81 87	38.47	54.43	45.18
1964	28 45	24 63	3 30	5 88	48 38	20.82	155 84	59.42	77.18	92 85	308 45	55 11	72 95
1965	33 94	14 63	45 82	59 14	4 59	51 22	11071	84.73	66.43	237 35	47.25	157 86	76 88
1966	17.67	3 65	1.41	22 98	122 89	72 29	192 87	95 45	18 65	103 95	133 08	97 90	74 22
1967	197 79	192 26	22 16	3 66	0.79	15 69	71 29	65.21	64.75	140 30	11957	9 20	67.62
1968	8 30	3 43	2 47	121	153	13 17	57 68	63 59	37 23	42 26	35 78	18 90	23 93
1969	5 09	0.66	0 39	0 42	0.65	2 36	124 05	45 51	86 C4	82 74	32 64	i 5 54 11	39 21
1976	16 85	4 57	1 22	2.40	168	33.58	122 95	20 61	38 32	187 80	267 79	202.70	75 50
1971	74 12	113 35	39.13	1969	140 51	258 66	200 82	40 57	104.42	269 59	176 47	79 79	126 22
1972	141 38	12 33	41.74	12 45	36 65	70 94		60 50	303 82	91 6 5	165 17		
1973	13 58	18 26	1,49	469	2.14	10 77	60 40	62 67		93 10	310.18	91 05	
1974	59 25	11 09	5.08	179 02	213 26	137.76	61 29	54.96	68 43	407.95	85.25	57.61	11251
1975	41.48	50 34	3 86	50 81	40 94	64 38	58 50	17.87	112 50	78 60	34 85	37 34	49 10
1976 ;	10 36	29 00	6 89	7 28	25 81	105 81	45 80	93 05	62 89	18 36	56 35	121 51	49.78
1977	9 87	28 09	16 30	171	9 03	37 87	32 61	6 6 32	91.79	24 59	15 56	662	25 27
1978	1 59	2 34	5 24	3.44	2 42	132.45							İ
1979	[
1980										; i			İ
1981	!			j			j ·						†
1982	i												
1983													
1954	ļ	33 58	54,07	13 00	25 45	45 28	53 95	29.02	92 32	121 31	124 50	33.84	İ
1985	25 57	11 95	4 35	5 \$ 5	22 78	12 65	57 59	23 15	80 81	89 33	56 19	74 69	38 94
1986	6101	24 69	10 34	11 84	7.92	55 72	79 54	103.44	5398	89 50	81 54	23 03	50 45
1987	22 75	9 32	2 52	192	3 31	381	1243	63.70	7131	42 50	83.74	25 66	28 38
1988	5 86	285	2 79	8 47	5 3 3	35 30	61 22	22 18	47 94	158 35	245.97	27.42	\$1 89
1989	17 56	17.54	23 28	4.62			6911	40 92	25 14	30.70	20 18	8 03	
1990	8 74	3 43	391	2 51	71 85	9 1 25	58 25	124 24	30 51	99 58	147.37	13 26	54 69
1991	4 06	8 42	6 9-5	3 83	2 59	14 25	\$1.28	37 22	11.81	29 03	21,14	671	16 53
1992	3 57	192	1 35	2 67	2 15	1202	41 35	34.45	0.99	6.47	İ	0.83	
1993	0 24	0 17	2 79	1.73	1.08	2 24	54 £1	15 53	12 71	20 17	\$1.80	197 65	30 49
1994	12 17	5 84	1 27		14 65	69 98	46 70	31 07	26 12	43 68	2 54	1234	
	1						ا			213 18			
1995	672	1 28	15.0	0 22	5.06	10.09	16 65	53 74	55 02	21310	23 90	8850	40 10



STATION NAME: CALAUR RIVER, SIMSIMAN, CALINOG, ILOILO ERAINAGE AREA: 169 sq.kms.

FERIOD OF TARGET YEARS : 1957 to 1979

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL !	AUG	SEP	ост	МОЛ	DEC	ANNUAL
1957	42 27	12 57	5 90	9 58	5 17	5 64	24 24	21 85	18 29	11 29	12 07	7 22	14.75
1958	10 47	951	8 54	88.0	5 35	5 97	10 58	8 84	8 44	20 30	22 68	10 95	10.80
1959	9 9 8	4 17	12 38	3.76	8 82	12 60	23 27	12 72	20 77	1262	3292	22 31	14 80
1960	15 26	23 07	8 49	27 95	13 \$4	25 30	17 33	2677	20 85	35 25	41 06	14 81	22 44
1261	11 42	13 24	3 78	472	9 58	20 19	25 58	42 45	18 50	27 11	25 93	27 70	19-25
1962	12 23	14 18	10 95	7 95	8 35	28 94	39 67	29 19	29 17	15 93	35 06	33 98	22 25
1961	26.19	15 94	5 82	8.06	15 38	18 58	21 66	34 37	23 69	14 68	12 88	32 57	19.06
1964	12 87	23 43	8 26	619	19.45	29 43	36 17	24 75	15 55	26 40	74 64	16 44	23.74
1965	17.35	9 89	14 34	6.26	3 13	9 16	19.40	21 83	13.53	33 10	10 08	43 45	16 91
1966	11.34	2 45	1 93	2 46	972	15.18	22 61	15 19	8 14	29 18	18 21	21 96	13 22
1967	45 69	27 33	18 09	3 58	225	6 86	18 61	15 02	1167	24 52	29 02	977	17.47
1968	10 09	5 35	3 15	1 230	3 34	8 70	20 42	19 36	8 02	8 66	25 31	10 72	10 47
1969	3 92	1 65		:	:	: !	8,43	B 72	14 84	1191	1160	27 67	
1970	9.58	6.26	2 99	2 71	4 00	10 64	24 27	5.54	7.97	59 27	73 42	32 27	20 00
1971	35 24	33 28	0.85	1 03	12 29	18 58	25 41	17.42	12 10	47 20	33 54	20 69	21 38
1972	38 79	8 26	25 20	114 57	ð 24	15 49	18 35	12 85	45 58	20 87	14 01		
1973	20 94	13 53	9 77	19 12	1283	13 05	9 55	20 45	21 31	10 13	1571	4.14	14,18
1974	273	1 40	0.54	0.45	0 50	1 20	0.68	0 70	¢ 65	138	1 06	1.67	1 08
1975	!	1 29	0.53	24 64	0.95	1 04	0.81	15 54	17.40	24 22	8 10	21.51	1
1376	19 53	9 38	9 33	5 45	39 56	16 18	15 73	:			!		•
1977			2 24	1 24	1 29	7 18	10 23	2 59	9 69	5 58	2 90	2 63	:
1978	2 43	0 99	0 73	0 57	:	10 36	9 81	9 40	13 93	9 51	20.26		:
1979	5 33	5 33	1 03	0.59					1	:	1		i
MEAN	1732	11.09	7.00	11 85	879	1288	18 28	17.45	1614	21 30	24 78	19 05	16 36

STATION NAME: 110G RIVER, MANGAN GRONG, KARANKALAN, NEGROS OCCIDENTAL URAINAGE AREA: 1453 sq.kms.

EFRIOD OF TARGET YEARS: 1957 to 1979

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	££B	MAR	AFR	мау	JUN	JUI.	AUG	SEP	oct	NOV	DEC	ANNUAL
1957	64 31	16.92	10 82	8 30	11:31	30 88	85 29	130 25	150 68	64 37	32 45	12 25	51 73
1958	8 34	6 79	5 9 2	8 83	15 64	24 93	33 51	62 27	97 €4	75 43	104 59	26 21	39 06
1959	13 59	9 81	9 8 1	11 68	16 65	37 68	214 12	157 76	105 25	199.72	51 64	25 72	72 65
1960	12 85	11 21	9 00	14 28	32 11 -	129 58	105 84	113.49	122 38	208 72	50 92	16 21	68 34
1981 .	11 95	9.40	8 72	7 52	14 07	110 96	108 65	155.04	84 97	101 83	48 17	20 43	56 97
1962	13 11	10.57	9 85	24.43 ,	12 54	45 80	175 48	211 37	107 98	56 76	53 27	35 56	63 79
1953	11 27	9 89	9 57	6.50	13 (2	64 02	58 02	182 93	119 10	139 51	26 84	52 67	58 44
1964	24 74	23 87	15 3‡	23 82	79 98	100 15	141 34	90 61	145 \$8	11370	258 63	99 47	92 99
1965	50 65	30 86	28 39	23 M2	45.73	123 34	27253	176 55	132 21	87 77	38 49	20 50	87 27
1968	12 16	10 30	7 10	992	¢1 55	92 29	165 49	117.16	99 59	130.79	106 43	54 43	75 26
1967	84 22	57 54	70 41	47.76	67 34	25.05	243 €4	194.72	155 83	270 19	220 39	73 11	131 54
1968	60 71	58 99	54 10	50.64	8784	112 87	174 36	194 52	194 31	135 99	170 82	45 50	11173
1959	31 60	25 74	21 71	20 05	34 75	69.05	126 70	85 83	128 16	91 57	39 34	39 51	59 83
1970	25 58	22.76	1877	15.98	23 72	71.70	143 58	93 65	72 87	216 37	69 04	32 62	68 14
1971	30 99	33 24	!	19 86	65 29	124 28	136 12	153 42	90 10	373 98	112 60	64.78	
1972	55 43	31.42	15 76	27 €8	67 58	114 87		72 05	206 80	74.13	33 36	43 03	
1973	11.44	9 43	7.16	5.51	7.17	15 85	45 63	73 80	61 20	60 47	194 27	17 62	44 17
1974	15 87	15 25	12 30	10.58	24.43	71.44	85.27	37.66	28 95	61081			
1975						15 51	25 88	93 25	16 43	36 96	8 90	8 28	
1976	7 65	7 33	. 6 59	6 76	79 16	17 87	68 26	74 02	89 90	172 20	7.81	6 65	45 66
1977	8.49	8 15	7 20	5.47	6 19	11 45	8 97	244 25	268 65	15 95	16 33	6 49	45 96
1978	6 70	5 63	5 30	5.00	10.06	20 21	47.75	42 39	91 58	131 29	65 \$5	17 21	37 13
1979	5 76	5 25	5 60	5 37	20 57	100 31	212 92	101 69	43 39				
MEAN	26 28	19 12	16 21	16.31	35 83	6e 39	122 28	124.70	112 45	153 07	81 58	35 12	67 25



STATION NAME: MAMBUSAO RIVER, TUKALAND, MAMBUSAO, CAPIZ PRAINAGE AREA: 307 sq.kms.

REBIOD OF MARGET YEARS: 1957 to 1972

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	NOV :	DEC	ANNUAL
1957	41 48	14 76	811	23 77	6 19	945	22 51	16 84	11 31	23 71	19 53	88 8	17 21
1958	12.82	8 02	9 43	6.22	8.09	10 76	12 53	25 73	3.05	39 17	35 87	16 37	15 72
1959	6 87	4 21	10 95	3 51	8.04	13 32	28 73	14 84 1	a 10	21 31	30 27	24 09	14 68
1950 .	12.04	8 38	69i [']	17 93	9 17	21 00	28.75	9 23	17 56	33.44	43 88	19 00	15 93
1961	8 21	3 89	265	2 24	4 63	17.58	13 57	10 52	15 78	53 25	20 41	7 57	10.05
1962	18 17	1274	13.11	4 07	5 10 -	26 26	24 56	23 84	45 60	11.18	24 69	41 33	20 87
1963	24 62	5 07				179	5 54	18 80	25 21	15.71	18 08	27 68	:
1964		7.41	4.41	6.45	9 25	11 37	6.08	927.	23 30	26 30	57 71	19 43	15 70
1965	39 11	8 92			6 13	11 15	31.74	7.78	11 47	2373			
1966	25.18	4 02	3 47	318	22 39	10 35	27 59	12.64	4 59	30 85	7 52	34.43	1574
1967	69 87	14 64	9 55	272	241	4 73	4 25	3 62	3 35	16 53	51.14	391	12 24
1968	3 95	3 00	2 35	101	1 64	441	4.45	9 20	3 40	6 96	25 01	3 37	6 0 3
1369	2 15	1.63	1.17	: 0 54	0.84	9 12	25 99	5 39	22 35	16 11	15 59	18.48	10 08
1970	. 375	3 10	263	1 87	134	241	163	271	2 73	18 45		60 28	
1971	. 62 75	50 77	65 29	1 35	1 15	8.21	8 98	6 56	8 55	11 44	1961	12 95	19.29
1972	13.97	5 27	5 25	181	1 82	6 54		13 81	12 52			•	
MEAN	20 82	971	10 23	5 44	5 81	70 42	14 96	+2 01	14 06	23 19	25 52	21 27	14 75

STATION NAME: CARCAR RIVER, FOBLACION, CARCAR, CESU DRAINAGE ASSA: 31 sq.kma. PERIOD OF TARGET YEARS: 1957 to 1996

MEAN MONTBLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	E33	MAR	AFR	KAY	JUN	JUL	AUG :	SEP	OCT :	NOV	DEC	ANNUAL
1957	1 42	1.58	0 59	0.31	6 40	0.49	0.56	0.61	0.53	0.78	D 65)	0.39	069
1958	0 23	0 18	0 32	D 29	031	Ð 31	0 33	9.31	0 31	0.43	0 34	83.0	0.34
1959	031	0 37	0 37	0 27	0 3 6	0.23	0 34	1 21	0.82	0.50	0 57	0 45	047
1960	0.38	0 32	0 25	2 62	137	0.83	0 57	0 33	0.85	0.20	0 24	0.22	0.68
1561	0.20	0 18	D 18	0.19	019	5 23	8 20	019	0 17	0.22	0.23	0 22	0 20
1962	021	0 22	0 23	0 23	0 18	0.50	6 39	0.60	0 33	0 29	3 39	D 46	0 31
1963	0.37	0.28	0 29	0 26	0.27	0.23	0.55	0 24	Ø 26	0 23	0.21	0 35	0 27
1964	0:37	1 09	0.40	041	0.49	145	2 33	0.59	0 44	0 65	183 ;		
1965	0 92	0 29	118	658	. 044	0.59	0.39	0.44	0 44	0.88	0.76	0 33	0.60
1958	0.25	0 23	D 22	0 22	9 22	0 21	0.20	6 20	021	6 20	0.21	021	0.27
1967	037	0 65	1.12	0 74	0.68	9 60	0.52	0 37	0 27	8 25	1 37	0.55	, 058
1968	0.34	0 27	0.28	0 23	021	0 19	0 25	0 21	0.22	0.21	1 50	0 24	0.34
1969	0.24	9 22	0 23	0 25	0 26	0 26	0 27	0 19	0 21	0 27	0 2a [[]	0.19	0 23
1970	018	0.17	0.15	0 15	D 18	016	0.17	924	0.15	0.15	0 23	0.62	021
1971	861	D 19	0 19	0.10	013	0 62	0 78	0.22	0.46	1.45	0.75	Ø 45	051
1972	0.24	0.38	0 17	0 16	© 15	0 18	0 16	017	0 16	0 24	0 33	0 26	0 22
1973	,			;	:						,		l
1974													1
1975				•	:				ļ	1			!
1976	:												1
1977				į.	:					i	:		•
1978	!		:	i :	· :								:
1979					•								1
1980 .			· 1	! !	i l								
1961	:	:	İ					!					1
1982			1		İ								
1983	ļ		į	i	į								1
1984	:				ļ		0 14	Ø 13	0 32	9 20	027	0 34	1
1985	105	0 15	0 12	011	811	013	1 34	0 10	0 15	1 43	0.43	0.28	0 45
1986	0 30	0.15	1 39	D 12	1 82	0.11		011	0 10	0 17	0 19	0.17	0.41
1987	0.21	0 18	015	014	013	0 13	0 13	0.16	0.12	0 19	0.29	0.15	0 17
1968	0 17	019	014	013	014	0.15	0.15	0 16	0 22	031	2 12	0 39	035
1989	Đ 43	0 43	0.38	0 48	0 35	0 37	0.45	0 31	0 30	0 40	0 40	6.30	0 38
1990	0 33	0 27	0.17	012	0 13	013	013	0 12	Q 13	0 18	0 33		j
1991	!	0.58	051	0 36	0 27	0.21	0 27	0 20	0 16	0.08	9.08	D 08	
1992	0.08	80.0	6 08	0.07	0 07	0.05	0.65	0 15	306	006	0.06	0.06	0.07
1993	9.06	0.67		0 05	0.04	0 02	0.02	903	0 02	0 03	0.06	9.17	0 05
1994	0.14	0.07	i	612	0.08	0.09	0 10	806	0.09	0,08	83.0	9 08	0.09
1995	0.07	0.05	0 0%	0.07	0.06	0.05	0.06	0.17	015	5 28	018	019	0 12
1996	0.52	0 56	0 48	P 38	0 32	0 35	0 38	638	0 32	0 32	0 37	0.37	0 39
MEAN	0 38	0 34	0 35	0 33	0 33	0 31	0 39	023	8 2 7	0 37	D 51	0-30	0.34



STATION NAME: LOBOC RIVER, TIGEAO, LOBOC, BOHOL TRAINAGE AREA: 618 sq.kms.

FERIOD OF TAKGET YEARS: 1957 to 1972

MEAN MONIBLY DISCHARGE, IN CUBIC METER FEW SECOND

YEAR	JAN	FEB !	MAR	AFR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
									** * †				
1957	25 26	55.35	13 34	1921	10 91	15 99	23 26	23 55	973	15 50	17.77	8 80	15 97
1958	9 26	9 73	8 04	7 92	8.07	10.73	17 80	18 74	15.96	14.74	18 87	9 28	12 37
1959	1771	5 00	14 28	8 26	7 21	8 32	36 18	26 28	17 53	18 87	8 99	13.06	15.28
1960	18 30	12 57	10 22	13.67	13 88	19 92	25.82	9.58	29 09	27 51	27 54	19.47	19 04
1961	22 26	1879	B 03	9.40	14 54	26 90	17.41	a 52	14 51	27 65	15 B0	1371	18 33
1962	1478	28 52	23 97	9.63	9.40	24 74	29 13	20 94	41 54	27 37	31 11	17 84	23 86
1963	38 25	19 43	23 23	9 30	8 37	7 25	8 51	27.71	. 11 22	36 66	24 73	13 14	19 13
1954	608	24 15	9 29	8 13	26 63	15 93	30 34	8 30	18 89	24 59	66 50	29 62	22 48
1965	4D 22	21 95	20.58	17 38	11 27	21 73	20 47	23 57	21 86	45 45	10 74	18 09	23 49
1966	9 40	7 71	7.06	7.12	11 21	21 81	48 87	28 67	14.17	30 57	26 60	25 23	1994
1967	45 25	35.17	34 00	11 88	10 61	13 25	18.80	B 60	9 92	17.49	24 50	22 18	. 50 E5
1968	19 88	16 88	8.78	784	11 20	16 83	18 85	13 16	15.44	19 13	20 26		!
1969	10 70	9 12	8 95	8 45	8 8 8	13.74	20 75	12 79	12 92	17.10	11.48	15 76	1 12 59
1970	1100	17.56	10 00	8 95	9.41	12 02	16 49	11 91	11 55	21 55	16 63	13 56	13 37
1971	1451	18 76	13 37	10 69	21,47	24.45	19 06	14 24	21.53	27 8-8	25.40	13.49	18 68
1972	28 77	12 27	18 08	13 34	13 57	21 78		15 60	24 95	18 32	1271	14 56	
MEAN	7 20 88	17.15	14 29	10 72	12 29	17 22	25.52	17.68	18 23	24 37	22 58	1853	16.16

STATION NAME: PITOGO RIVER, PITOGO, CONSOLACION, CEBU DRAINAGE AREA: 40 sq.kms. FERIOD OF TARGET YEARS: 1957 to 1977

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JüL	Aug	SEP	OCT	VOV	DEC	ANNUAL
1957	0 27	0 31	0 18	0 17	014	55.0	D 15	Ø 13	0.08	0.24	0.08	0.08	C 18
1358	0 10	8 09	014	0.26	0.20	0.09	0 15	0 11	0.11	0.13	0 11	5 09	0 13
1959	9 07	0.08	0.08	0.67	0.07	0 10	0 14	131	6 83	ə 52	0 12	0 17	0 30
1955	9 16	0 16	0 36	2 18	0 11	2 11	0 64	0.41	6 7Q	1 95	3 36	0 16	102
1961	017	0 14	G 12	611	6.21	012	0 33	0.34	0 65	Q 84	0 12	0 14	0.28
1362	0 15	83.0	0 15	0.10	0 10	0.47	3 29	3 59	5 57	2 34	0 44	0.18	143
1963	0 42	0 12	011	0 11	0 11	0 11	0.23	7 2 3	0 35	3 83	2 25	0.10	1 26
1964	0 11	0 59	0 42	0 10	3 82	1.71	3 77	0 67	1 28	1 53	2 33	D 32	1 35
1965	G 25	6 39	105	0 15	0 17	0 93	0 18	2 85	0.56	0.26	0.25	1 03	0.68
1966	0.33	0.28	0 24	0 13	0.47	0 17	0 70	0 95	0.15	0.30	0 33	0 36	0 37
1987	4 22	0 32	0.15	0 16	6 15	0 13	0.54	0.15	0 42	0-19	0 18	6 20	0 58
1955	0 12	0 10	0 10	0 10	0.05	0.04	0 03	9 58	0 05	0.06	1.46	9 22	0 24
1963	0 13	0.09	0.06	0.07	0 04	0.05	0.05	0.35	0.06	0.06	0 65	9 04	0.06
1970	9.04	0 05	0.04	0.65	0.05	0.05	0 09	0 10	0 12	0 15	D 15	0.19	0.09
1971	014	9 10	0.07	0 02	0.09	0 42	0.24	0.06	0.06	1.13	0 52	1 32	0.35
1972	1 20	0.55	0 17	0 13	0.35	172	0 35	0.05	0 10	0 09	0.90	C 17	0 45
1573	0 04	0 60	0 00	0 01	0.00	0 61	0.02	0.05	0 03	0.02	163	0.64	0.55
1974	3.45	2 22	0 16	a 65	0 03	0 93	0 12	0 13	0.03	0.08	0 13	0 12	0.54
1975	0 12	0.10	0.09	0.05	0 07	6.08	0.08	0.09	0 12	0 12	0.12	0 13	0 10
15.6	0.28	0.73	0.69	0.73	0.83	0.84	0 96	0 90	0.90	1.09 -	124	1 60	0 89
1977	171	271											
MEAN	0 64	0 45	0 22	0 24	0 35	0 43	0.60	0 96	960	0.75	0.79	0 37	0 52



STATION NAME : WARIS-PAWASSALAN RIVER, PILAR, , BOEGL

PRAINAGE AREA : 141 sq.kms.

FERIOD OF TARGET YEARS : 1377 to 1990

MEAN MONIBLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	วบท	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977												2 36	
1978	15 24	14 59	1 93	2 53	2 16	5 57	5 93	1.42	12 43	12 88	2 92	6.05	8 73
1979	4 11	1 43	0 96	0.74	1.41	8 10	5 24	1 88	1 54	2 96	2 30	4 36	2 97
1580	10 04	7 35	111	0.64	0 46	13 22	6 07	12 31	4 45	9 23	12 99		
1981	26 43	7 77	2 02	1 10	0.47	0.75	1 82	0.48	074	5 55	4 5 5	17.87	5 83
1982	5 33	13 25	6 38	1 60	6.79	151	4.45	7.71	1 28	3 31	2 5 9	1 85	4 13
1953	1 31	0 26	0.08	0 63	0.04	013	4 94	7 33	6 63	6 \$4	2 95	11 38	3 50
1984	517	8 25	265	1 34	1 54	0 88	1.45	0 92	24 18	7 01	10 34	18 18	6 43
1355	12 28	4.43	231	2 53	2 90	1 83	672	265	9 35	11 54	4 39 1	6 5 1	5 64
1956	29 41	4.75	3 51	2 97	2 90	\$ 26	6 55	3 25	5 92	7.52	6 38	6 75	6.41
1997	+ 27	4 90	2 45	0 90	0.60	0 93	2 56	6 65	1 52	3 41	7 54	4,12	3 34
1588	1 17	1 92	0.75	1 10	063	1 69	3 16	3,47	2 78	5 33	12 74	10 24	3 79
1989	8 64	7 03	3 04	3 20	1 45	1 95	3 38	3.48	2 43	4 53	4 80	2 24	3 84
1990	13 42	2 05	0 64	0 35	0 85	1 68	260	577	4.50				
MEAN	9 91	5 85	2 15	1,49	1 24	3 36	4 03	4.41	6 03	6.64	6 21	7.43	4 79



STATION NAME: DAGUITAN RIVER, POBLACION, MURAUEN, LETTE ERAINAGE AREA : 135 sq.kms. FERIOD OF TARGET YEARS: 1957 to 1996

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	E83	MAR	APR	MAY	JUN	JUL	A9G	SEP	ОСТ	VCM	030	ANNUAL
1957	,				•			:	5.00	7 86	7 39	5 43	
1958	10 15	14 19	12 04	8.74	16 38	7.14	7.57	7 52	a 23	18 45	15 21	11 98	11.70
1959	11 10	12 15	14 18	9 51	12 36	9 29	1081	8 22	7.31	6 73	15.74	21.41	11 58
1960	1921	25 26	11.48	38 74	9.71	11 23	19.52	9 42	9 97	29 40	23.11	13.90	37.84
1981	12 89	17.91	9 28	7 62	1112	7.16	8 32	7 83	5 27	6.60	18 53		
1962	20 50	22 01	25 85	12 43	30 54	19 04	21 69 ,	34 09		18 76	20 95	24 19	
1963	37 53	32 11	17 99	10 14	6 47	7.90	8 32	12 85	3 03	8 61	9 82	8 43	13 87
1964	9 96	17.76	14 27	16 27	15 34	10 30	12.22	8 67	8 02	7.32	21 63	15 41	12 54
1965	18 41	20 29	23 51	15 31	11 95	9 77	10 12	8.74	8 60	9 63	1927	33 65	15 03
1966	13 17	10.90	11 68	7.11	17 51	10 83	15 33	11.17	8 95	963	1013	16 53	1195
1967	49 19	28 63	29 43	12 50	10.26	8 49	8.89	8 60	8 32	12.19	29 05	12.24	17 36
1968	12 14	8 71	B 31	5 50	4 93	4.31	4 57	4 63	6.95	6.04	12 84	6 4 9	7.10
1969	8 43	₹.14	6 35	8 04	5 75	5 44	7 30	6 85	6 22	7 23	9 25	1911	8 31
1970	17 21	20 37	9 91	7.36	7.59	9.59	15 89	9.46	8.45	14 02	18 26	17.77	12 93
1971	13 54	10 32	9 26	9 48	13 55	17 50	9 06	4.15	617	9 35	7 63	877	a 94
1372 :	20 09	S €1	8 32	6 23	4,12	3 28	ļ	3 64	464	4 02	5 50	5 52	
1973	4 66	4 29	2 92	4.45	4 03	3.10	2 95	3 97	8 5 4	7 52	18 57	10 36	6 14
1974 :	8 51	9.11	4 91	4 02	4.10	5 15	2 06	2.18	3 87	18 76	9 73	6 65	6 58
1975	7 53	13 46	7 29	6 57	7.37	7 30	8 47	6 97	5 93	5 34	13 35	14 62	8 25
1976							,	i					
1977		:		:		,	:	!					
1978		!	:	(:	(
1979		,		:		į.							
1980			į	:		1			1				
1981	i	!		i			1	•					
1982	,			į		. !	j					5 13	
1983	10 28	4 56	4.16	3 65	3 02	4.40	7.70	7.12	6 56	9 94	7.66		-
1984	26 68	49 82	14.40	10 01	7.32	10 02	4 33	5.74	10 29	7.70	16 77	14 68	14 80
1985	25 00	1941	8 27	7.44	18 08	13.49	10 38	İ	14.36	21 19	17 51	10 54	: I
1988	23 71	1207	12 48	16 31			8 47	10.49	8 83	1278	13 19	9 7 3	:
1987				5 48	4.10	4.79	9 52	13 92	9 08	6.54	20 95	32 09	
1988	28 81	1189	12 15	10 50	12 20	15 49	7.70	ļ		ì	;	15.71	
1989	26 80	24 59	15 23	12 46	981	10 34	6 56	4 32	3.76	8 86 °	š		
1990	17 38	6 89	1,43	2 96	15.43	12.40	7.18	5 43	3 48	8.31	27 84	15 02	10 14
1991	14 12	14 03	25 10	13 56	9 30	15 38	11 63	9 90	888	10 48	ļ		!
1992				ļ			į	ļ	l	l	i		:
1693				3 09	2 26	2 20	2 45	3 64	2 50	3 17	20 59	49 27	:
1994							13 63	12 51	17.38	13 36	14 78	35 07	:
1995			į	051	0 36	0 36	041	0 35	88 0	263	1,46	3 06	
1996	\$ 70	1012	13 68	3 69	+0.48	4 03	0 44	i			ļ		
MEAN	17 63	16 12	12.44	9 33	971	8.44	B 35	8 32	7.45	10.35	14 52	15 56	11.47





STATION NAME : TENANE RIVER, TENANE, WRIGHT, SAMAR

ERAINAGE AREA : 392 sq.kms.

FERIOD OF TARGET YEARS : 1959 to 1996

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

EAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
1959					:		11.71	12 75	10.06	9 45	24 32	100 19	
1960	25 58	14.44	11 79	15.45	12 13	25,48	16 37	15 13	10.01	61 61	45 52	43 17	25 03
1961	17.07	19 25	10 39	8 67	13 22	9 02	961	23 30	11 24	17.19	21 80	16 92	15 49
1962	25.63	18 23	19 07	774	12 01	14 51	20.28	21.90	33 58	25 02	33 47	25 65	22 02
1963	37.96	11 53	8 %3 :	7 85	6.53	13 55	15 87	58 67	22 24	29 74	32.75	27,40	22 88
1904	14.08	21 02)1 45	10 19	13 88	8 09	18 38	10 54	18 60	1975	69 10	41,44	21.33
1965	41.22	25 45	32 04	15 24	28 53	33 14	65.61	18 61	13 77	17 16	12 85	106 39	34 41
1968	19 49	10.79	B 45	6 33		į				:		!	
1967			:		7 59	5 57	9 82	15 09	9 53	14 87	93 80	23 75	
1968	30 01	20 19	12 59	6.75	5 44 .	5 83	10 39	11 64	6 16	11 97	38 25 1	27.12	15.45
1959	857	5 33	4 49	4 19	3 99	7.11	12 83	10 07	16 58	18 81	15.85	33 21	11 64
1970	28.61	17 45	7 92	5 3 4	3 97	5.40	19 30	10 72	: 10 63	; 30.56	45 37	35 94	38 14
1971	20 89	37.24		•		36 09	31 32	7 92	- 613	34 02	18 03	15 76	•
1972	87.45	11 86	9 00	8 55	3 98	11 23		4.45	17 98	4 87	25 85	30.14	:
1973	10 37	7.77	6 e9	8 49	5.04	6 13	5 93	7 22	18 02	24.26	99.43	38 01	14.74
1974	18 20	13 20	10 38		•	31 27	10 92	11 95	6.98	34 29	45.60	41 54	
1975	65 70		10 50	15.51	9-76	12 31	12 83	10 65	14.95	11 77	9 69	81 64	22 93
1976	61 83		19.85	9 30	19 57	44 93		•		12 80	24.42	•	
1977			-	:	:					1	:	! !	
1978	12 93	21 01	13.80	1181	10 52	10 82	10 96	10 83	27 67	2160	20 85	: 37 68	: 17.45
1979	14.32	11 17	7.78	:			11.59	9 83	13 22	15 19	į		
1950	1430		,		•	:						;	:
1935								i		i	:	:	
1982		!											
1983		:								1		1	
			,				!	1			:	39 21	İ
1984		80.77	14 91	12 60	17.75	22 75	90 39	12 11	16 66		;) 2950	19 29	[
1985							17.71			1	•	[1
1566			:	500			;			. •	i	i	
1987	14 09			1		1				:	111 36	i	į
1985	:	11 31	:			1	i	:	18 9	2 33 2			1
1989								•	İ	,		24 7:	25 4
1930				*							,	1	1
1991	29 16					:			:		ļ	1	
1992		13 68	9 5 6	69	5 2 72	, ,	j		·		į	<u> </u>	ļ
1993		:				.	169	1			1		
1994	. 31 22			:		:			5	1		1	i
1995				į		1			1				1
1996	74.45	39 11	3 916	\$2.5	5 19 54	5 16 4	13.0	2 98	2 134	3 10 3	43.58	101.7	5 40.7
MEAN	37 38	22 4	2 17.7	156	8 125	1 ; 178	191	5 17.5	5 170	6 227	70 38 6.	46 2	1 22 7

STATION NAME: LINGAYON RIVER, LINGAYON, ALANGALANG, LEYTE

DRAINAGE AREA: 10 sq.kms.

EERIOD OF TARGET YEARS: 1957 to 1992

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	oct	NOV	PEC	ANNUA
1957	2 64	204	68.0	0.67	0 59	0.5?	0.79	0.67 ±	0 32	0 59	1.13	88.0	0.9
1958	1.14	1 27	3.53	0 98	1 04 .	1 01	6.93	1.37	1 66	1 31	5 55	2 12	13
1959	1 12	0.82	1 54	1.12	1 25	69 0	106	0.66 ,	9.86	080	1 11	162	10
1960	1.19	174	101	1 17	a 67	0.71	0.56	0.70	0.24	1.21	1 52	1 39	16
1961	1 12	1 79	0 55	9 37	107	8 87	0.58 ₁	0.58	0 43	5 50	1 10	1 20	ā
1962	1 49	213	1.63	0 94	1 55	0.03	0 99	1 09	1 12	0.83	1 38	117	. 12
1963	2 10	2 2 7	1 08	0.84	Ø 87 ·	0 69	080	169	6 90	0.70	1 95	1 22	1 :
1964	1.06	418	3 44	1 13	1.12	1 03	1 65	0 87	C 68 1	0.09	2 66	1 32	1 (
t565	2 55	1 36	200	1 35	G 84	0.78	0.72	0.64	0.72	96 €	1 25	3 75	1
1965	0 92	0 94	0.77	0.73	1.70	0.54	2 03 -	1 02	0 77	3 88	104	3 9 7	1 3
1967	17 82	5 49	3 60	0 65	0.49	0 21	0 27	0.25	0 22	0.80	4 70	2 72	3 1
1968 ·	1 65	1 82	Q 81 ·	0 65	0.43	0.70	D 47	0.45	5 78	0 65	4 24	1 86	1 ;
1969	0.91	0 68	0.56	0 52	0.77	0 53	113	0.92	8 65	0 72	2 14	3 62	1
1970	1 59	2 25	0.89	@ 59	Ð 57	0 59	0.72	0.85 .	1 00	1 90	2 48	2 35	
1971			3 44	2 29	1 58	2 45	3 32	0.80	0.74	1.47	1 63	1 00	
1972	7.44	0 77	1.85	0 86	0.84	124	0.58	2 15	0.78	0 95	1 13	3 76	1
1973	0 56	9.45	0.55	0 43	0 47	0.53	0.69 :	0.65	0 62	0.64	4 83	3 10	Ó
2574	1.06	0.75	0.95	0.72	0.61	88 0	6.65	0.49	0 49	6 77	1,49	1 12	a
1975	0 96	9 76	0 e i	1 92	0.88	0 95	1 05	1 22	0 95	1 45	1 18	2 47	1
1976	4 51	1 55	1.44	0.64	0.49	0.54			•	0 84	104		
1977													
1978	0.90	0.87	1 27	2.41	0.85	0 97	G 66	6 68	:	0.86	0 99	3 29	
1979	0 96	0.84	854		:								
1990	3 9-3	199	1 10	0.94	0 59	0 92	104	1 31	0.67	104			
1981		-		i		!							
1992		,					1						
1583			:			:							
1984	:			:			i		-				
1985			:						1	0.89	1 07	164	
1986	5 95 ,	1 42	1 70				0.68	0 72	0 60 (3 35	2 5 2	1 45	
1987	1,10	0.85	i	0.55	0 37	0.47	:		1		1.43	0 95	•
1988	057	0 63	Ø 53	0 61	0.59 :	037	0.62	0.53	0.64		÷	5 75	
1969	4.17	3,19	251	1.12	3 10 :	111	1 06	0 55			1		
1990	1 99	0.58	0.45	0.41	1 38	0.58	0.65	0.47	0.43	0.79	2 30	1 05	C
1991	224	5 61	8.09	9.78	0.65	0 87	1 29	0.85	0 44	0.45	0.95	4 08	. 1
1992	1 87	:	:	0.34	0 35	0 37	0 64	0.43	0.41	0 60	0 65	0.60	
MEAN	261	1 62	163	0 93	0.93	0 ê2	0.96	0 B6	0 72	100	> 7)	217	



STATION NAME: ASUSAN RIVER, RALAW BRIDGE, MONKAYO, DAVAD DRAINAGE ASUA: 925 sq.kms.

EFRIOD OF TARGET YRARS: 1959 to 1933

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	RAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
1958			:	16 56	26 69	39 16	1	33.89	34 54	3139			
1959			:	i				:	38 60	50 00	54 17	41 29	
1963	59 58	75 53	38.74	42 80 -	37 34	49 34	63 15	57.48	52 71	55 18	97 33	182 67	63 48
1961	147.71	176 69	131 83	72 16	53 91	82 72	38 45	45 50	36 93			60.25	
1562	477 54	535 16	176 08	64 42	55 04	72 34 .	67.77	46 93	59 49	45 75	53 85	72 45	143 27
1963	258 15	548 69		61 04	58 26	47 13	63 84	65 63	61 75	59 65	43 15	38 75	
1964				108 10	106 82				63 59	58 23 :	83 11	51 52	:
1965	200-15	215.74	119.68	83 48	54 01	80.75	63 43	St BS	82 03	88 45	49 23	59 37	93 86
1966	83 76	44 43	33 67	25 40	40 19	47 07	£1 9€	56 24 :	44 45	44 33	35 70	41 89	45 96
1967	161 43	134 40	96 42	37 28	45.45	33 12	38 79	23 57	43 82	27 55	42 52	35 33	60 45
1958	69 70		82 51	;	37 50	38 17		İ			-		1
1969						46 03		:	36 95	34.14			
1970						:		43 62	31.18	35 t2			
1971	21397	209 49	84 59	65.23									
1972						:							:
1973											± .		
1974						;							
19:5													•
1976						-					į		
1977						:					ļ		:
1978						80 43	89 45	58 82	71 73	:		95.91	:
1979	114 59	115 35		54.71	80 55	76 15	72 63	46 69	57 CB		74.43		:
1980	265 99	188 41	67 51	67.37	59 91	1		96 35	65 68				
1981			91 75	98.67	83 52	97.45			:				-
1992	165 24	257 81	95 58	44 54	50 99			1	*				
1983	45 11	20 30		1195	9 33	17 85	28 21	70 90	89 61	129 83	52 06	114 21	i
MEAN	173 23	209 91	92 59	58 99	54 37	56 27	58 47	53 50	52 91	55 64	60,49	72.15	82 51

STATION NAME: TAGGLOAN RIVER, PINA-ANAN, ,

DRAINAGE AREA: 533 sq.kss.

PERIOD OF TARGET YEARS: 1974 to 1991

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YFAR	JAN	FEB	MAR	AFR	MAY	JUN :	JUL	AUG	SEP	OCT	voit	DEC	ANNUAL
1974								33 78	28 03	43 13	3195	35 66	•
1975	\$1.50	24.81	24 20	24 97	. 34 \$4	45.2⊋	47 05	33 65	37 57	53.09	22.88	22 44	35 30
1976	43 37	24 72	15 99	10 50	16.40	24 03	21 58	21 54	24 62	18 90	19 52	26 44	22 43
1977	17 37	29 93	20 59	19 31	15 20	18.06	42 78	47.54	24 87	27 34	10.07	15 34	25.42
1975	19.25	15 74	10 39	8 46	14.49	27.35	37.05	43 68	34 62	30.02	32.79	26 17	:
1979	\$5 35 °	13 51	11 61	8 16	13 92	3/51	39 53	27.61	33 14	32 15	27 88	27.26	23 68
1990	27 09	22 83	11 45	1107	997	38 55	31 63	37.97	34 94	\$1.55	21 69	24 51	27 02
1981	65 83	43 30 1	17.15	14.06	20 93	31 89	39 06	25 16	23 35	24 90	25 87	17.92	29 04
1982	49 55	47,43	30 23	17 50	23.44	26 09	23 82	29 17	29 83	34.21	23 99	16 06	29 10
1353	14.16	9 38	8.19	7 50	7.98	22 07	37 20	45 96	48 61	39 93	28 93	22 04	: 24 29
1954	24 25	29.45	27.50	22 24	46 74	45 90	31 93	22 85	39.06	38 00	19 52	14.05	30.02
1985	21 46	1292	11 32	13 12	23 00	18 42	22 37	24 59	37 27	35 87	23 77	25 30	22.78
1986	32 02	20 70	21 54	12 44	12 63	34 64	37,49	34 79	23 19	27 24	32 14	18 92	25 68
1987	15 94	24 26	14 34	80	9.12	13 26	23.81	33 99	27.42	34.71	35.71	25 22	: 22.55
1988	10 20	18.34	8 57	15 90	14 63	18 58	26 50	25 20	38 60	56 77	31.65	22 27	23 23
1989	18.55	17.83	19 48	13 87	31.57	43 46	41 28	47.71	34 25	33 04	24 50	11.99	27 94
1992	13 22	11.75	7 85	7 55	15 27	22 45	21 96	37 39	23 98	33.98	46.75	18 71	21 62
1991	21 09	519 85	19 38	12 89	14 55	20 88	30.78	22 57	18 21	:	j	:	:
MEAN	27 25	51 74	15 95	12 92	19 08	28 55	32 71	32 75	3121	36 00	28 74	21 92	25 97



NATIONAL WATER RESOURCES BOARD

MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME: CAGAYAN RIVER, UGUIARAN, MISAMIS ORIENTAL, CAGAYAN DE OBO DRAINAGE ARFA: 632 sq.kms. PERIOD OF TARGET YEASS: 1977 to 1990

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
1977	52 43	74 01	45 45	41.15	44 83	64 02	76 01	81 37	49 57	64.2€	68 22	46 05	59 13
1976	35 03	34 93	30 78	35.85	54 43	99 93	78 84	91 32	79 64	71 25	73 42	56 07	61 90
1979	43 65	37 62	29 27	26 12	40.40	95 89	7168	48 95	78 47	60 06	e2 78	72 90	57 35
1980	291 50	50.63	34 24	32 88	34 68	89 55	64 89	81 75	\$8 59	94 53	62 84	62 83	50.93
1951	93 99	57,45	34.51	30 31	52.10	60 72	67.18	39 6 6	49.13	51 32	86 04	45 13	55 57
1982	65 31	85 80	52 93	51 52	50 91	71 94	44.42	65 53	57 17	6136	59 36	49 59	59 43
1953	32 54	22 45	19 54	17 51	22 04	48 52	73 53	88 22	79.77	70 51	73 03	62 83	50 23
1954	61 83	5a 33	\$2 39	62 65	95-81	108 68	72 36	49 82	58 34	57 38	51 04	\$1.09	6454
1985	59 20	32 58	43 47	55 32	74 58	63 13	54 29	67 26	73.54	79 25	77 62	58 27	62 59
1986	90 80	58 92	45.75	37 88	47.55	80 43	74 65	56 70	79 51	79 85	72 23	54 28	65 15
1987	50 15	57.69	35.25	36 36	43 86	55 36	79 88	54 23	50 24	58.49	82 45	49 63	55.60
1958	33.63	34 45	26 85	; ; 45 13	54 24	52 92	73 93	76 19	80.06	75 68	6394	57.72	56 61
1999	45.39	50 70	55 73	57 85	80 24	80 15	76 56	57.14	56 12	67 35	58 90	39 55	61.40
1990	34 58	- 26 92	26 17	25 49	50 13	82 89	45 80	92 83	59 11	86 54	EB 33	44 87	51 85
MEAN	2073	49.75	38 55	39 01	53 61	73 84	68 51	5& 7Đ	66 26	69 64	69 91	54 36	60 31

STATION NAME: PANADA RIVER, LABULARAO, MAGONOY, DAVAO DEL SUR IPAINAGE ARRA: 821 sq.kms.

FERIOD OF TARGET YEARS: 1957 to 1978

MEAN MONTBLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL
1957	9 84	₽ 89	7.78	10.42	9 25	14 (3	23 67	15.44	f3 73	16 68	13 02	7 09	12 28
1958	6 36	5 65	8 14	5 51	5 84	9 35	5 97	12 14	14 83	12 21	10 33	6 56	8 41
1959	3 76	1 97	1 67	3 16	3 73	7.10	12 42	18 42	24 01	14 89	1153	8 63	9 14
1960	278	5 38	2 97	3 97	7 66	20.80	17 34	23 85	15 14	38 52	24 58	15 27	15 21
1961	845	15.52	.393	11 45	22 99	15 47	23 73	18.72	15.79	15 78	979	689	14 85
1962	12 80	38 75	30 30	2183	24 83	29 34	26 39	25 72	34 87	27 01	30 09	23 95	26 87
1963	22 31	22 57	24.53	18 56	23 97	20 37	33 31	38 81	24 29	28 75 .	15 81	13 69	24 17
1984	9.57	15 11	11 29	13 25	21 63	16 58	18 21	27 (03	22.83	28 87	34 86	18 61	50 61
1965	16 21	13 68		20 45	30 99	28 02	26 92	20 16	26 51	22 26	12 53	11 02	
1968	14.41	12 87	20 14	1233	20 68	20 10	27 70	26 13	19 98	25 29	22 83	15 50	19 90
1967	11 20	12 68		8.58	18 79	22 83	15 23	13 53	6 0 1	22 57	20 51	9 24	
1968	43	4 15		12 16	12 57	14 62	19 72	13 E3	13 75	17.53			
1969	:			-					13 34	7 52	13 45		
1970	23 18	25 87	1971	18 70	20 29	31.45	41 01	31 41 :	27 25	31 07	29 35	29 07	26 82
1971	15 80	19 30	7.72	19 26	19-88	35 36	35 03	36 19	30 12	35.48	36 92	22 43	25 82
1972	17 33	13 51	15 95	. 15 €2	20 71	24.43	1921	26 04	34 30		10 18	9 30	
1973	4.77	3 09	2 9:3	4 87	6 16	11 72	22 74	12 43	28 18	14 68	16 93	15 11	1159
1974	15-91	11 47	10.83	19 59	17.28	18.79 -	13.45	19.07	25 59	15 13	17 20	18 09	18 89
1975	13.47	7 32	20 09	18 44	793	10 93	12 70	19.90	26 35	19 82	23 19	22 54	15 54
1976	27 42	38 37	26 67	15 59	29 27	24 51	25.39	31 58	25 82				
1973	1			\$5.3 3	22 50	24.04	27 01	24.11	20.49				
1978	26 43	25 51	23.72	24 ≥9	25 60								
MEAN	13 41	15 19	14.45	13 74	17 73	20 15	21 96	22 61	22 61	2185	20 28	14 64	77.84

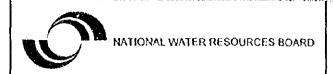


STATION NAME: ALLP RIVER, DATU, FAGLAS, MAGDINDANAO DRAINAGE ARFA: 380 sq.kms.

PERIOD OF TARGET YEARS : 1981 to 1989

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAS	ZAL	FFB	REM	AFR	MAY	300	JUL	AUG	SEP	OC P	NOA	DEC	ANNUAL
1961							:	2 89	10 11	18 89	12 06	3 93	
1382	3.10	24 98	Ð 61	0.77	3 26	15 55	3 01	28 62	9 62	3 89			
1983	0.13	0 06	1 65	0.47	1 31	27.19	11 99	19 42	4 69	35 05	14 72	13 61	10 89
1984	6 6 9	4 90	0 92	0.81	151	961	13.44	0 47	24 79	18 13	2 59	1 82	7.12
1935	0.22	0 36	1 45	9 7?	25 61	11 68	12 64	13 13 ;	45 55	10 22	58 08	61 45	21 18
1986		\$ 86		•	26 84			8 36	21 21	:	14 01	7 35	
1587	8 3 5	18.89	1.58	2 65	2 14	33.08	30 53	14 58		5.04	3 38		
1988	3 50	4 27	5 83	261	3 19	1.55	7 24 -	2 56	10 32	11.19	10 39	163	5 3 3
MEAN	3.87	861	191	2 85	9 58	18 44	13 14	11 32	18 04	14 63	15 45	15 00	1111



STATION NAME: ALLAH RIVER, KOLAMBOG, ISULAN, COTARATO
PRALMAGE ASEA: 936 sq.kms.
FERIOD OF TARGET YEARS: 1958 to 1933

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FFB	MAR	AFR	PAY	JEN	JUL.	AUG	SEP .	001	N⊙V	LEC	ANNUAL
1958	ì					,		i ·	42 36	42 54	44 44	41 65	
1959	39 67	39 85	32.85	35 43	68.90	\$8 27	75 58	74 07	72.87	75 45	71 20 ;	67 05	59 51
1960	10 73	15.45	13 41	14 02	34 87	43 79	35 29		:	47.45	48 17	39 48	
1961		21 48	25.75	22 68	41.45	53 04	49.31			:	:		•
1962		:	: ·			,	46 37	27.16	35 18	45 28	28 62	25 76	
1963						25 77	27 22	30 07	27 39	30.78	30 67	36 95	
1964	29.92	26 76	27 33	51 60	38 30	50 19	39 23	61.40	31 69	33 27	34 58	34 43	38.29
1965	19 24	19 72	27 22			:			:				
1966	:										:		:
1967	!		22.70	27.47	60 53	54 64	43.57	;		49.71	51 32	45.11	!
1966	40 45	58 14	19 10	32 63	40 58	32 03	41 82	39 79	54 47	15 37	55.46	44 58	44 38
1969	60 92	2477	15 61	10 33	85 15	133 31	192 21	104 69	57 80	38 04	41 06	48 21	6794
1970	47 51	46 87	43 82	37.13	50 81	127 75	33 29	24 27	29.91	74 30	66 99	57 00	: . 5323
1971	50 75	31.18	30.71	31 37	27 30	12 47	39 76	13 99	71 69	73.74	71 75	27.47	49.18
1972	24 29	48 57	61 50	45 66	37 22	33 56	26 S8 .	24 32	25 44	32 25	32 96	25 73	34 51
1973	29 59	1976	13 29	1272	25 24	58 13	61 32	63 04	:	55 05	67 32	58 41	
1974	54.75	\$8.65	57 03	56 54	70 21	70 20	62 51	52 50	52 61	49 87	45 64	55.71	58 32
1975	\$5.78	45 50	45 44			1	63 35	58 59	61 55	60 48	63 18 ₁	60 19	
1976	5887	58 47	61 43	60 30				:			:		
1977	;					1	;				•		
1978	!								:		:		1
1979	<i>i</i>					ļ				,			
1980				. :		1 98	0.55	0 90	0.47	1 00	077	1 33	:
1981	1 32	0 66	0 16	D 14	49 61	52 03	56 31	42 54	54 38	64 28	77.74	64 35	39 64
1982	60 22	74 22	3921	39 27	41.77	43 63	17 91	27 Gế	19 68 :	15 92	16 73	18 16	34.24
1983	15 36	9 87	4 69	3 92	4 72	35 17	23 32	23 77	23 92	17 05	1468	21.46	1489
1964								1	i		į		
1985	ļ	•			:		i		į	į			:
1986		26 26	15 17			!		37 09	33.58	40 54	38 26		1
1987	15.28	16 56	936	12 40	15 60	17.76	18 18	35 50	:	21 71	16 48		İ
1988	18.14	19 85	22 14	20 37	24 06	18 35	35 91	\$9.76	34 94	60 46	38 54	25 81	31 63
1989	8 68	16 97	30-37	39 32	77.92	83 88	79 25	ŧ	-		:		
MEAN	33 60	32 36	28 16	29 54	44.13	49.19	48 38	41 96	40.54	45 77	43 62	33 70	i 43 02



NATIONAL WATER RESOURCES BOARD

MEAN MONTHLY DISCHARGE DATA TABLE

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STATION NAME: BUBUNAMAN RIVER, KABLI IMPATUG, BAUNGON, BUKIUNON DRAINAGE AREA: 187 sq.kms.
EERIOD OF TARGET YEARS: 1891 to 1994

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	APR	PAY	JUN	JUL	AUG	SEP	ост	VON	DEC	ANNUAL
1991	11.01	12 70	11 00	12.31	1176	14 G8	1929	12 97	13.53	18 19	14 72	12 63	13 52
1992	10 58	10 22	9 59	9 79	11 00	13 63	14.17	14 58	12 88 ,	14 76	13.71	11 29	12 19
1993	10.72	14 19	12 68	11.22	11 35		18 02	15 77	21 64	15 55	13 35	17 30	!
1954	12 92	1161	11.00		15.56	16 81	13 (1	13 63	14 12	14 51	10 56	1076	!
MEAN	11 30	12 18	11.06	1111	12 42	15 51	15 65	14 24	15.54	15.25	13 08	1300	12 56

STATION NAME: NULETA RIVER, GRONAY (NO.3), DANULOG, BUKIENON PRAINAGE AREA: 1601 sq.kms.

FERIOD OF TARGET YEARS: 1977 to 1992

MEAN MONTALY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	YAM	JUN	วิขา	AUG	SEP	OCT	NOV	DEC	ANNUAL
1977					16 61	30 80	52.78	53.33	26 52	34 €9	36 91	23.45	
1978	17 86	15.41	14 62	13.51	13.81	18 75	24 50	23 54	26 40	27 60	23 57	14 12	1951
1979	9 83	961	8 95	12 10	33 10	80.09	35 98	14 97	25 98	27 60	26 62	17 69	25 29
1960	15 67	13 89	10 35	11 30	10.42	26 67	25.29	22 68	17.63	25 93	21 94	24 63	1891
1981	16 87	10.45	9 80	8 33	13 99	14 09	18 45	10 90	11 67	19.44	15-50	10 58	13.15
1952	11 47	15 03	10 38	11.51	17 38	32 61	12 21	15 01	15 68	18 92	18 20	15 94	16 08
1983	12 50	10 29	9 50	5 53	11 94	17.78	36.75	49 54	65.27	36 12	28.38	24 55	26.01
1954	20 86	22 78	20 67	26 69	36.76	49 95	49.93	30 47	37.05	30.57	19 43	19 25	\$0.38
1985	13 84	15 30	12 61	15 57	19 42	18 58	23 32	20 15	25 15	21 32	10.76	19 35	17.97
1955	21 51	42 61	31 47	17 38	26 73	40 95	25 43	9 11	12 73	15 05	19.75	963	20 68
1987	6 35	611 ,	5 98	6 44	6 12	13.26	38 86	83 62	61 30	83 89	6 8 75	55.45	36 02
1988	48 59	46 77	64.71	51 55	62 55	59 62	67 95	60 06	89 50	5974	60 95	5133	\$6.99
1983	45 16	44.96	47.16	48 67	65 12	78 38	73 10	58 74	57.49	56 19	\$2 57	37 35	\$5 37
1990	37.14	32 19	26 32	26 79	50 50	57.45	48 49	52 02	45 B7	64 30	63 93	38 66	45.41
1991	35 90	35 54	29 91	30 77	36 60	44 29	53 99	37 21	34 76	39 73	36 33	30 84	37.18
1392	25 55	27 06	27 81	33 33	33 69	45 54	41 85	45 30	40 51	40 43			
MEAN	22 53	23 21	19 35	21 57	28 38	39 38	33 16	36 72	35 89	37 52	22.80	26 15	29 98



MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME : FULANCE RIVER, BUSDI (NO.1), MALAYBALAY, BUXHEREN ERAINAGE AREA : 376 sq.kms.
FERIOD OF TARGET YEARS : 1991 to 1994

MEAN MONTELY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	APR	MAY	ว ียห	JUL	AUG	SEP	OCT	NOV	DEC	ANNOAL
1991	35 23	22.04	17 43		26 67	27 03		22 33	15 19	14 93	18 17	19 07	
1992	17.43	13 03	14 55	12 53	15 17	21.45	24 88	19 31	11 64	21 62	14 18	30 51	18 04
1993	25 89	29 17	26 63	19 57	15 80	17 58		12 99	22 59	21 74	19 75	24 03	
1994		27 89	27 85	21 23		30 00	24.48	30 66	22 43			24 96	
MEAN	26 19	23 03	21 63	17 76	19 15	24 02	24 67	21 35	15 56	19 13	17 37	24 64	18 04

MEAN MONTHLY DISCHARGE DATA TABLE

STATION DAME: POLANGE RIVER, MARAGOING (NO.2), CARANGEASER, SOKIERAN LEAINAGE AREA: 734 sq.kms.

EERIOD OF TARGET YEARS: 1975 to 1994

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR.	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	oct	807	I-EC	ANNUAL
1975	70 06	62.73	54 37	54 49	i	60.43 ;	52 41	35 14	48.93	58 49	30 38	37 33	
1976	52 35	43 93	37 12	20 76	27 80	27 23	23 68	29.76	30.14	35 24	24.45	45 45	
1977	35 12	70 80	57.45	22 08	90 6Q	29 76	45.71	43.54	27 64	30 30	30.66	21 22	
1978	47.93	42 (-6 :	28 28	18 53	40 14	37.94	47.42	41.41	38 39	45.21	42 16	55 50	
1979	32 20 :	28 81	27.15	15 31	27.89	39.25	39 85	25 p8	39 93	37 50	30.05	42 84	5
1580	72 23	60 42	19.76	23 76	17 75	44 55	27 95	33 37	22 58	45.45	29 17	41 55	36 57
1981	93.28	80 54 、	49 15	37.64	33 82	31 28	40 37	21 55	25 22	27.76	38 46	31 74	41 63
1982	44 99	77.05	54 02	33 38 -	28 93	33.31	22 32	32,40	25 47	33 93	30 50	25 75	36 57
1983 :	34 28	15.58	12 83	9 83 :	\$1.44	35 86	54.14	73 72	\$8 45	51 27	44 35	45 84	37 48
1984	53 09	78.75	58 96	53 59	55 42	57 65	37 52	24,68	49 19	\$8.20	27.12	35 53	: 45.95
1985	48 45	42 99	81 19	31-65	63 15	35 01	33 83	30 54	59.17	42 50	31.43	47.55	40.87
1988	77 89	\$1 00	65 93	33 75 [[]	39 31	58 28	48 03	39 08	43 56	42 80	55.49	4) 88	43.77
1907	45 02	62 13	49.45	118 03	25 39	34 50	39 44		39 34	\$7.02	57.87	315 99	:
1938	37.09	\$1.11	41.49	50 21	47.03	41 89 [44 \$\$		51 91	43,43	57 74	45 81	!
1989	49 29	39 27	53 94	50 47	51 85	67.13	55 2a	55 20	47 30	38.11	32 39	24.17	47 92
1990	45 52	45 95	28 83	20.58	33 53	48.61	30 29	50 64	28 47	36 05	54.76	42 37	34 63
1991	71 02	60 S3	41.41	34 84	42 34	50 63	45 74	40 34	31 21	29 11	33 93	35 12	42 93
1992	31 99	24 60	27,43	21.19	24 65	35 30	39 81	38 76	27 86	44.43	29 10	58 99	33.79
1993	54 87	64.45	48 54	45 18	33 64	28 83	45 35	31.45	47 66	37.49	39.45	63 17	44 98
1994	58 69	130 97	79 28	54 18	48 52	84 59	55 \$1	46 32	49.03	52 70	41 54	66 ¢5	61 58
MEAN	52 67	56 75	43 38	37 39	35 45	42.93	41 63	38 76	39 47	12 36	38 05	56 09	41.43



MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME : FULANGI RIVER, LUMPAYAO (NO.3), VALENCIA, BUKHNON

DRAINAGE AREA : 1398 sq.kms.

FERIOD OF TARGET YEARS : 1974 to 1992

MEAN MONTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR ;	JAN	FEB	MAR	AFR	RAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1974	•		i ·					61 04	49 58	64.45	6765	82 26	
1975	89.79	SS 37	81 64	94 31	89 59	91 96	88 72	59 18	84.33	!	62 59	71 05	
1976	27.58	60 65	49.15	33 \$5	49 55	51 95	48 64	285.17	50 €4	60 63	44 95	71 38	74 68
1977	63 30	91 75	81 05	35 27	46 52	53 76	68 72	88 23	56 99	71 52	67.82	55.71	66 57
1978	75.45	74.61	54 81	32 25	75.41	79 12	86 92	83 27	81 39	81 24	317 61	85 17	93 76
1979	63 85	58 20	51 55	36.05	55 95	89.02	80 68	55 87	74.40 ;	76 04	67 08	80 72	66 08
1980				•									
1581		:		37 78	30 12	48 60	64 39	29 31	3851	49 76	65 20		
1982	57 31	111 45	72 68	58.00	59 43	73 54	53 83	74.12	52 97	77.71	87.13	77.45	70.76
1983	84 96	57 63	53 17	50.2%	47.77	75 24	97.48	112 25	95 84		93 53		
1984		,		i					• •		:		:
1985	94 69	92 56	95 49	87.17	79 10	76 83	37.71	42 02	63 22 1	52 88	i	51 17	•
1986	42 45		63 30	€4 €8	45 57	60 12	46.00	39 10	52 82	55 43	58 37	35 07	
1987	47.05	45 24	45 43	37.74	39 58	49 62	57 29	69 59	49 15	€4 57	59 37	50 61	51.44
1988	47.65	45 69	57 43	59 56	45 04	42 18	47 37	50 65	65-61	59 61	59.98	45 21	52 15
1589	67.94	68 65	65 57	64 81	74 88	94 58	94 27	85 27	79 18	73 69	60 56	24 42	71 76
1990	52 86	68 63	54 04	57 31	71 30	77 55	69 33	81 03	87 58	82 73	84 10	67.83	71 09
1991	76 68	84 72	71 45	312 64	77 14	81 50	77 27	56 Bt	45 39	53 42	59 37	75 70	89 56
1992	72 98	56 12	63 41	\$5.43	61 34	68 26	63 26	72 18	55 22	77 04		1	
MEAN	67 85	72 17	€4.15	: 68 £4	59 36	63 63	68 58	79 68	63 54	66 67	83 55	62 48	70 72

STATION NAME: FULANCE RIVER, PANADTALAN (NO.4), MARAMAG, SUKIDION DEALNAGE AREA: 3100 sq.kms.

PERIOD OF TARGET YEARS: 1953 to 1983

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	OUN	JUL	AUG	SEP	OCT	VOV	DEC	AMNUAL
1953		:			114.12	159 55	160 19	206 85	269.96	188 10	154.24	192 65	
1954	158.55	113.96 ;	105 29	57 03	179 52	158 15	277 55	169 52	166 27	228 03	150 70	139 80	161 70
1955	242 03	68 86	66 13	59 27	102 71	241 47	187 52	243 10	209.93	177 90	117 53	159 29	156 30
1958	205 93	85 17	112 25	185 40	435 1 7	208.20	141 32	108 58	198 24	211 03	138 77	209 79	187.09
1957		158.21	151 61	95 60	114.42	497 50	209 68	245 45	200 00	154 87	110 10	94 18	
1956	92.28	106 94	126 72	68 78	132 76	129 47	155 76	139 94	196 00	175 41	147 71	111.82	131 33
1959	109-66	76 82 ;	80 35	51 67	113.77	147 13	180 32	229 49	37323	228 29	119 30	112 35	153 54
1960	97.06	110 48	71 65	54.07	118 32	163 03	219 94	89 13	235 11	155.42	217 60	130 65	138 69
1961	245 71	250 50	140.50	103 17	\$15.97 °	205 57	134 48	158 35	175 70	219 52	109 50	123.29	170 99
1362	235 51	345 75	255 29	10453	172 52	257 27	192 87	273 25	381 33	172 50	120 93	124 13	219 38
1963	248 55	262 57	267 53	77 83	131 68	107.63	197.71	302 03	267 03	286 52	129 26	90 65	193 97
1964	165 03	279.57	272.00	331 71	395 21	403 €4	345 \$2	261.19	466 48	425 11	527 38	319 93	333 43
1965	205 07	151 65	141 27	150 €4	96 53	178.52	148 35	227,41	233 36	225 52	132 59	116 49	187 34
1966 ,		84 66	76 27	81 49	160 47	155 73	250 51	211.79	129 55	129.10	126 22	102 02	
1967	140-64	142 60	11025	62 75	114 12	132 16	161.12	129 52	10593	150 39	E4 87	78 95	120 35
1968	137 03	\$4 5 1	125 87	46 57	53 31	71 45	141 82	149 57	130 83	119 00	105 23	119 50	107.45
1969	103 24	87 65	73 52	68 81	65 59	158 99	159 81	107 90	133 91	137 37	162 94	134 26	115 17
1970	53 12	135 34	91 10	52 64	59 56		154.43	207 93	96 82	103.28	124 79	143 57	
1971	95 99	203 45	89.74	67.79	185 59	313 45	155 36	219 41	280 87	231 03	144.85	149 13	177 30
1972													
1973	65 57	63 15 .	52 04	73 95	57 80	80 95	154 73	141.75	262 03	105 71	206 94	94 80	113 23
1974	168 35	212 95	114 30	135 54	183 92	121 70	150 82	137 63	118 73	200 45	169 24	156 89	155 12
1975	539 53	178 29	196 99 .	115 80	173 12	314 57	239 \$5	135 50	205.79	335 49	143 82	138 57	201 €9
1976													
1977	82 68	146 20	104 14	50 64	63 93	86 50	187,15	268 79	101 40	138 55	147.78	77 23	116 84
1976	96 61	89 45	59 07	44 38	92 73	120 87	151 99	171 83	161 77	144 34	175.01	123 57	119 GS
1979	76 09	64.86 -	54 84	49 23	78 38	179 50	153 00	94 65	139.08	126 93	113 25	115 00	102 82
1980 ;		:		;									
1981	229 12	189 89	79 74	91 76	72 93	119 95	174.08	71 68	88 75	95 #2	105.22	62 77	311.19
MEAN	151 57	145 82	121 13 ;	92 57	138 01	185.47	184,11	179 79	205.00	183 21	152.85	132 01	157 18



MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME : PULANSI KIVAR, TUMARAS (NO.5), KIRAME, BUKITNON IRANUAGE AREA : 3915 sq.kms.
RERIOQ OF TARGET YEARS : 1988 to 1994

MEAN MORTHLY DISCHARGE, IN CUBIC METER FER SECOND

YEAR	JAN	FEB	MAR	AFR	YΑY	JUN	301.	AUG	SEP	ост	NOV		AKNUAL
1985								:	i		:	104 63	
1999	121 87	99.41	113 20	149 02	230.05	393 17	363 50	323 05	263 52	255 04	121 52	68 63	210.05
1990	91 99	82 80	53.19	55 58	164 93	275 63	159 60	311 03	159 17	333 66	258 €4	73 29	158 37
1991	150 49	135 17	84 93	53 43	95 33	119 43	225 85	168 51	77 70	76 99	63.28	87 50	111 90
1992	€6 63	54 33	54 64	52 36	55 06		128 08	154 77	63 74	195 61	138 64	134 67	
1393	111 65		79 38	BS 54	71 44	94 43	190-01	170 39	313 32	179 63	109 68	155 14	
1994	149 41						177.43	169 51		161 83	82 16	151 85	
MEAN	115 18	93 68	77.07	77 39	123 55	220 65	219 74	216 04	175 49	199.96	127 02	107 79	163 44

MEAN MONTHLY DISCHARGE DATA TABLE

STATION NAME: TIGUA RIVER, MANAPITAN, SAN FERNANDO, BUKIDNON
IMANAGE AREA: 200 sq.kms.

FERIOD OF TARGET YEARS: 1980 to 1992

MEAN MONTHLY DISCHARGE, IN CUBIC METER PER SECOND

YEAR	JAN	FEB	MAR	AFR	MAY	JUN	JUL	AUG	SEP	007	NOV	DEC	ANNUAL
1980	}	7 26	3 85	5 27	731	1500	12 50	10 25	709	10 14	7 83	11 18	
1981	21 70	1949	15.73	18.51	15 21	15 52	809	162	5 22	3.78	7.47 :	4 26	121
1982	9 45	17.73	8 86	B 05	7 63	948,	4 87	8 90	3 28	4 93	5 99	2 84	7.4
1953	4 27	1 35	0 82	0 23	0.74	4 24	7 39	17 92	1672	15.86	9 52	4 71	7.5
1984	13 08	1475	11 30	16 35	5 29	12 17		7.72	8 9 9	10.58	7 82 1	6 04	:
1985	8 28	840	10 28	P 64	11 55	7.60	8,10	8 65	9 61	9.44	7 29	911	
1966	12 17	7.34	11 99	7 24	9.29	10.45 1	11 50	6 31	9 96	10 22	12 52	763	9.7
1987	9 29	10 90	7 08	5 37	7 22	14 20	10 62	14 61	934	12 76	11 72	11 00	10 3
1988	7,35	10.79	10 60	10 72	10 55	9 90	13-37	12 29	12 84	10 07	10.88	9 20	107
1989	11,45	10 69	9 65	11 20	11 81	13 14	12 44	12 10	1101	9.63	8 69	8 93	10 7
1990	10 00	10 13	7.62	8 80		12.50	641	10 44	11 55	13 68	11.63	9 59	
1991	12.72	12 84 (9 42	6 02	7 83	10.31	15 59	12.12	12 73	12 05	14,78	14 02	118
1992	14.91	13 76	13 45	1278	13.26	14 38	15 44	15 57	14,41	15 17		•	:
MEAN	11 23	11.19	9 30	9 2 9	5 97	11.45	10 65	10 65	10 26	10 59	969	B G5	; 9 \$

DATA BOOK

III IRRIGATION DATA

HI. IRRIGATION DATA

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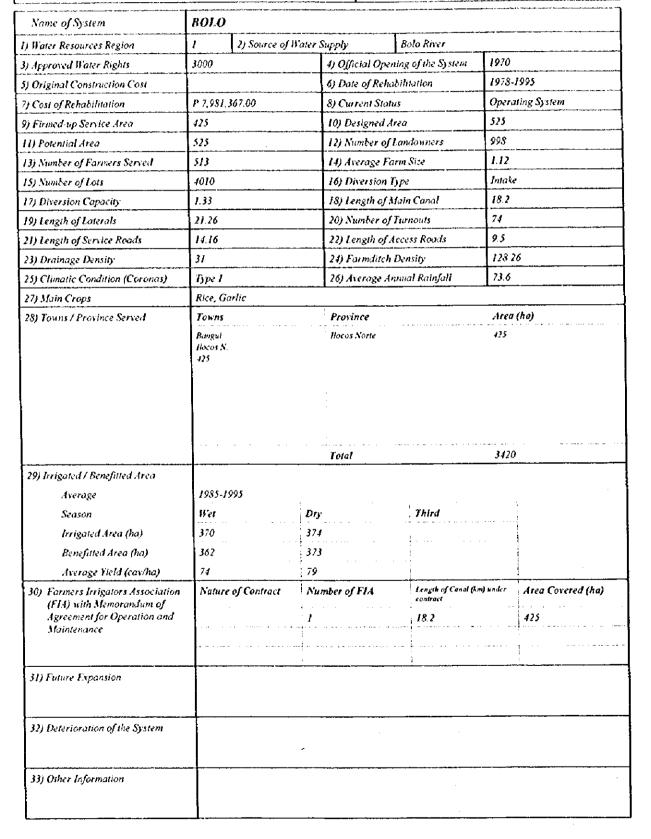
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1.1	Salient Features of National Irrigation System	111-1
1.2	Irrigation Water Requirement	. III-116

IRRIGATION DATA



Name of System	AMBURA	YAN				
I) Water Resources Region	1 2)	Source of	Water Supply	Amburayan River	,	
3) Approved Water Rights	9750			ening of the System	192	
5) Original Construction Cost	P 2.500,000.	00	6) Date of Rei			B NISIP
7) Cost of Rehabilitation	P 22,000,000	0.00	8) Current Ste		· • • • • • • • • • • • • • • • • • • •	ially Oper (1996 typhoc
9) Firmed-up Service Area	3420		10) Designed		3800	
II) Potential Area	5300		12) Number o		146.	
13) Number of Farmers Served	19000		14) Average 1		0.16	
15) Number of Lots	20041		16) Diversion		Intal	
17) Diversion Capacity	7.5		18) Length of		201	
19) Length of Laterals	63.054		20) Number o		260	
21) Length of Service Roads	20.42			Access Roads	13.3	51
23) Drainage Density	18.16		24) Farmditel		+	
25) Climatic Condition (Coronas)	Type I			Innual Rainfall	2190	· · · · · · · · · · · · · · · · · · ·
27) Main Crops	Rice		17		1.17	
28) Towns / Province Served	Towns		Province		4 = 0.0	(ha)
	Bangar		La Union	• • • • •	1550	
	Lima		La Union		1311	
	Sudipen Balaoen		La Union La Union		116 413	
			Total		3420)
29) Irrigated / Benefitted Area						
Average	1966-1986					
*						
Season	Wet		Dry	Third		1 B
Season Irrigated Area (ha)	Wet 3157		Dry 2348	Third		1 1
	}		∳ ` —	Third		
Irrigated Area (ha)	3157		2348	Third	· · · · ·	
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	3157 3132	ntract	2348 2307	Third Length of Canal fin	ı) under	Area Covered (ha)
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	3157 3132 89		2348 2307 91	Length of Canal (kn	a) under	Area Covered (ha)
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	3157 3132 89 Nature of Co		2348 2307 91 Number of FIA	Length of Canal (kn	s) under	1
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	3157 3132 89 Nature of Co		2348 2307 91 Number of FIA	Length of Canal (kn	s) under	1
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	3157 3132 89 Nature of Co Stage 1 & 11		2348 2307 91 Number of FIA	Length of Canal (kn contract 66.74	a) under	1
Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	3157 3132 89 Nature of Co Stage I & H Upper Ambur	rayan RIP (2348 2307 91 Number of FIA 10	Length of Canal (kn contract 66.74) under	1







Name of System	BONGA	PUMP #1		100 10 May on many all after a street on the constant.	
1) Water Resources Region	1	2) Source of	Water Supply	Bonga River	
3) Approved Water Rights			4) Official Of	ening of the System	1977
5) Original Construction Cost			6) Date of Re	habilitation	1988-1995
7) Cost of Rehabilitation	P 882,918.	00	8) Current Sta	itus	Operating System
9) Firmed-up Service Area	298		10) Designed	Area	298
11) Potential Area	298		12) Number o	flandowners	2875
13) Number of Farmers Served	272		14) Average I	arm Size	1.37
15) Number of Lots	2175		16) Diversion	Тург	Electric Pump
17) Diversion Capacity	0.4		18) Length of	Main Canol	3.38
19) Length of Laterals	7.24		20) Number o	Turnouts	33
21) Length of Service Roads	1.13	_	22) Length of	Access Roads	2
23) Drainage Density	6.04		24) Farmditei	Density	33.22
25) Climatic Condition (Coronas)	Type 1		26) Average.	Innual Rainfall	28.9
27) Main Crops	Rice, Garle	ic, Tomato, I	'egetables	_	
28) Towns / Province Served	Towns		Province		Arca (ha)
	Sarrai 8 Nicolas		Hocos Norie Hocos Norie		1 ⁷ 2 126
29) Irrigated/Benefitted Area			Total		3420
29) Irrigated/Benefitted Area Average	1935-1995		Total		3420
29) Irrigated / Benefitted Area Average Season	1935-1995 Wet			Third	3420
Average Season	H'et		Dry	Third	3420
Average Season Irrigated Area (ha)	Wet 146		Dr3:	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha)	H'et		Day 125 123	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wei 146 142		Dr3:	Third Length of Canal (kn	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wei 146 142 73		Dry 125 123 83		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (F1A) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (F1A) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (F1A) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wei 146 142 73		Dry 125 123 83	Length of Canal (kn contract	a) under Area Covered (ha)





Name of System	BONGA I	'UMIL' HZ				
) Water Resources Region	1 2,	Source of I	Water Supply	Bonga River		
) Approved Water Rights			4) Official Ope.	ning of the System	1977	
) Original Construction Cost			6) Date of Reha	abilitation	1978-	1995
) Cost of Rehabilitation	P 11,897,13.	3.00	8) Current Stat	us	Opera	iting System
) Firmed-up Service Area	655		10) Designed A	rea	699	
1) Potential Area	699		12) Number of	Landowners	2646	
3) Number of Farmers Served	503		14) Average Fo	ırın Size	1.118	
5) Number of Lots	6029		16) Diversion	Гуре	Electi	ric Pump
1) Diversion Copacity	1.8		18) Length of !	Ioin Canal	14.18	
9) Length of Laterals	23.74		20) Number of	Turnouts	216	
1) Length of Service Roads	21.87		22) Length of A	Access Roads	0.55	
3) Drainage Density	12.2		24) Farmditch	Density	100.4	6
25) Climatic Condition (Coronas)	Type I		26) Average A	nnual Rainfall	33.7	
27) Main Crops	Rice, Garlie	, Tomato, M				
28) Towns / Province Served	Towns		Province		Area	(ha)
	S. Nicolas		Hocos Norte		4 80	
29) Irrigated / Benefitted Area			Total		3420	
29) Irrigated / Benefitted Area Average	1985-1995		Total		3420	
	1985-1995 Wes	· · · .	Total Doy:	Third	3420	
Average				Third	3420	
Average Season	Wet		Dry	Third	3420	
Average Season Irrigated Area (ha)	Wet 344		Dry 147	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet	Contract	Dry: 147 144	Third I angih of Canal (k		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 344 336 78	Contract	Dry 147 144 85	Length of Canal (k contract		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 344 336 78	Contract	Dry 147 144 85 Number of FIA	Length of Canal (k contract		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 344 336 78	Contract	Dry: 147 144 85 Number of FIA	Length of Canal (k contract	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 344 336 78	Contract	Dry: 147 144 85 Number of FIA	Length of Canul (k. contract 23.74	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 344 336 78	Contract	Dry: 147 144 85 Number of FIA	Length of Canul (k. contract 23.74	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 344 336 78	Contract	Dry: 147 144 85 Number of FIA	Length of Canul (k. contract 23.74	m) under	Area Covered (ha)





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NATIONAL WATER RESOURCES BOARD

Name of System	BONGA	(PUMP #3				
1) Water Resources Region	[]	2) Source of	Water Supply	Bonga River		
3) Approved Water Rights		· · · · · · · · · · · · · · · · · · ·	4) Official Of	oening of the System	1977	7
5) Original Construction Cost	No availa	ble Data	6) Date of Re	habilitation	1983	3-1995
7) Cost of Rehabilitation	P 806,417	7.00	8) Current St	otus	Oper	rating System
9) Firmed-up Service Area	201		10) Designed	Area	202	
11) Potential Area	202		12) Number o	of Landowners	325	
13) Number of Farmers Served	207		14) Average	Farm Size	1.44	8
15) Number of Lots	1393		16) Diversion	1 Dpc	Elec	tric Pump
17) Diversion Capacity	0.38		18) Length of	f Main Canal	5.16	
19) Length of Laterals	7.79		20) Number o	of Turnotes	32	
21) Length of Service Roads			22) Length of	Access Roads		
23) Drainage Density	3.46		24) Farmdite	h Density	42.0	8
25) Climatic Condition (Coronas)	Type I		26) Average.	Annual Rainfall	33.4	
27f Main Crops	Rice, Gara	lic, Tomato, S	l onggo			
28) Towns / Province Served	Towns		Province		Area	ı (ha)
	Laong		llocas Norie		201	==
			Total	·· · · · · · · · · · · · · · · · · · ·	3420	· · ·
29) Irrigated / Benefitted Area	 					
Average	1985-199	5				
Season	Wet		Day	Third		
Irrigated Area (ha)	148		114			1
Benefitted Area (ha)	148		114	*		
Average Yield (cav/ha)	83		88			1
30) Farmers Irrigators Association (FIA) with Memorandum of	Nature of	Contract	Number of FIA	Length of Canal (k)	m) under	Area Covered (ha)
Agreement for Operation and Maintenance			1	7.786		201
sjamenince						**************************************
31) Future Expansion						
32) Deterioration of the System		· · · · · · · · · · · · · · · · · · ·				
33) Other Information		<u>.</u> .,,				

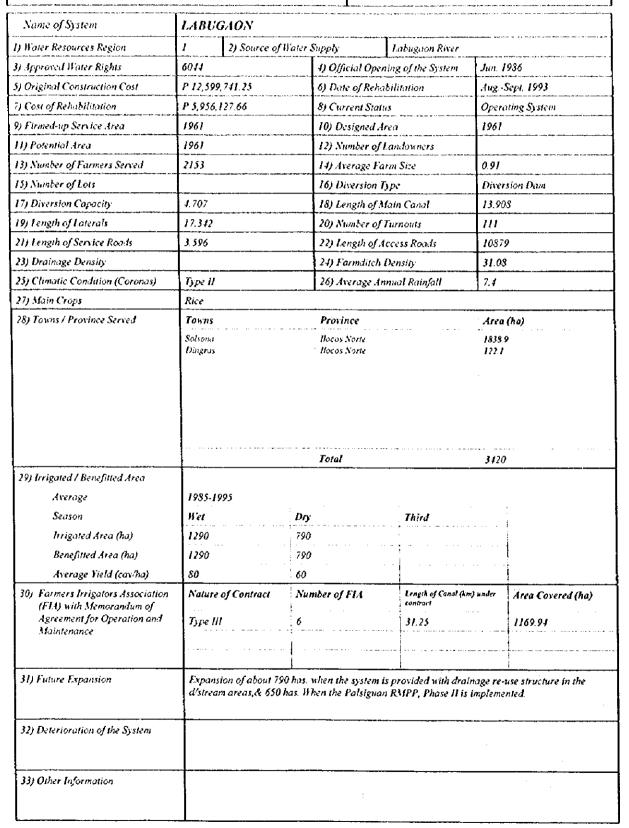


Name of System	CURA				· · · · · · · · · · · · · · · · · · ·	
) Water Resources Region	1	2) Source of I	Vater Supply	Barbequeza River		Andrew 19. sp
) Approved Water Rights			4) Official Op-	ening of the System	1972	
) Original Construction Cost			6) Date of Ref	abilitation	1977-	1995
) Cost of Rehabilitation	P 6,289,33	34.00	8) Current Sta	ntus	Opera	ting System
) Firmed-up Service Area	431		10) Designed	Area	676	
1) Potential Area	676		12) Number o	f Landowners	1086	
3) Number of Farmers Served	334		14) Average F	arm Size	1.49	
5) Number of Lots	2891		16) Diversion	Туре	Intake	
7) Diversion Capacity	1.72		18) Length of	Main Canal	13.13	
19) Length of Laterals	26 95		20) Number o	f Turnouts	125	
21) Length of Service Roads	22.29		22) Length of	Access Roads	6.43	
23) Drainage Density	32.72		24) Farmditei	h Density	141.4	I
25) Climatic Condition (Coronas)	Type I		26) Average .	Innual Rainfall	61.6	
27) Main Crops	Rice, Pear	nut, Corn				
28) Towns / Province Served	Towns		Province		Area	(ha)
	Carasi		Hocos Norte		: I 422	
	Solsona Pidlig		. Ilocos Norte Ilocos Norte		8	
			Total		3420	
20. Lainst d Pan Gud La			Total		3420	
29) Irrigated/Benefitted Area	1085.100		Total		3420	
Average	1985-199 Wes	25		Third	3420	· · · · · · · · · · · · · · · · · · ·
Average Season	Wet	>5	Dry	Third	3420	
Average Season Irrigated Area (ha)	Wet 429	25	Dry 317	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet 429 429	> 5	Dry 317 310	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 429 429 66	f Contract	Dry 317	Third Length of Canal (Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 429 429 66		Dry 317 310 64	Length of Canal (Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 429 429 66		Dry 317 310 64			
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95	m) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 429 429 66		Dry 317 310 64	Length of Canol (I contract 28.95	m) under	Area Covered (ha)



Name of System	DINGRA	IS				
I) Water Resources Region	1	2) Source of I	Vater Supply	Bonga River		
3) Approved Water Rights	3196		4) Official Op	ening of the System	1930	
5) Original Construction Cost			6) Date of Rei	habilitation	1978	1995
7) Cost of Rehabilitation	P 10,595,8	10.00	8) Current St.	itus	Oper	ating System
9) Firmed-up Service Area	1016		10) Designed	Area	1016	
II) Potential Area	1016		12) Number o	f Landowners	4148	
13) Number of Farmers Served	1186		14) Average 1	Farm Size	1728	
15) Number of Lots	5891		16) Diversion	Type	Intak	ê
17) Diversion Capacity	3.34		18) Length of	Main Canal	14.40	5
19) Length of Laterals	27.45		20) Number o	f Turnouts	91	
21) Length of Service Roads	21.29		22) Length of	Access Roads	1.48	
23) Drainage Density	1.48		24) Farmdite	h Density	70.0	!
25) Climatic Condition (Coronas)	Type 1		26) Average .	Innual Roinfall	43.8	
27) Main Crops	Rice, Toba	cco, Garlic, V	'egetables			
28) Towns / Province Served	Towns		Province		Area	(ha)
	Marcos		Hocos Norte		93	
	Dingras		Hocos Norte Total		921 3420	· ···· · · · · ·
29) Irrigaled / Benefitled Area	Dingras	· · · · · ·			3420	·
29) Irrigaled / Benefitted Area Average	Dingras					
		· · · ·		Third		
Average	1985-1995		Total	Third		
Average Season	1985-1995 Wet		Total Dry	Third		· · · · · · · · · · · · · · · · · · ·
Average Season Irrigoled Area (ha)	1985-1995 Wet 972		Total Dry 824	Third		
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	1985-1995 Wet 972 965		Total Dry 824 805	Third Length of Canal (km. Contract	3420	Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Vield (cav/ha) 30) Farmers Irrigotors Association (FIA) with Memorandum of Agreement for Operation and Maintenance	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Vield (cav/ha) 30) Farmers Irrigotors Association (FIA) with Memorandum of Agreement for Operation and Maintenance	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	1985-1995 Wei 972 965 81		Total Dry 824 805	Length of Canal (km. contract	3420	Area Covered (ho)











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NATIONAL WATER RESOURCES BOARD

LAOAG-	VINTAR		*** ** *** - ** ** ** ** ** ** ** ** **		
1	2) Source of	Voter Supply	Vintar River		e version de l'estre de l'acceptant
8800		4) Official Open	ing of the System	1952	
		6) Date of Rehab	ilitation	1977	-1995
P 55,586,0	30,00	8) Current Stotu	5	Oper	cating System
2377		10) Designed Ar	ea	2536	
2536		12) Number of L	andonners	1614	16
2206		14) Average Far	m Size	2102	8
21028		16) Diversion Ty	pe	Intak	e
5.1		18) Length of Me	in Canal	31.3	
72.98		20) Number of T	urnouts	388	
62.77		22) Length of Ac	cess Roads	2.62	
10.07		24) Farmditch D	ensity	87.4.	3
Type I		26) Average Ann	uol Rainfall	30.6	
Rice, Garli	c, Corn, Mon	ggo, Watermelon, Vegeto	ables		
Towns		Province		Area	(ha)
Laoug		Hocos Norte		1783	******
Vintar Bacarra		llocos Norte llocos Norte			
		Total		3420	· · · - · · · · · · · · · · · · · · · ·
†	-				
1985-1995					
B'et		Dry	Third		:
2272		1678			1
2251		1655		**	
81		81	•	•	[-
Nature of C	ontract	Number of FIA	contract	under	Area Covered (ha)
					1
		5	72.98		2377
		5	4		2377
		5	4		2377
		5	4		2377
		5	4		2377
			4		2377
			4		2377
	1 8800 P 55,586,0. 2377 2536 2206 21028 5.1 72.98 62.77 10.07 Type 1 Rice, Garli Towns Lawig Voitar Bacarra Sarrai 1985-1995 Wet 2272 2251 81	8500 P 55,586,030,00 2377 2536 2206 21028 5.1 72.98 62.77 10.07 Type 1 Rice, Garlic, Corn, Mon Towns Lawag Vintar Bacarra Sarrai 1985-1995 Wet 2272 2251	1 2) Source of Water Supply	1 2) Source of Water Supply Vintar River	1 27 Source of Water Supply Fintar River



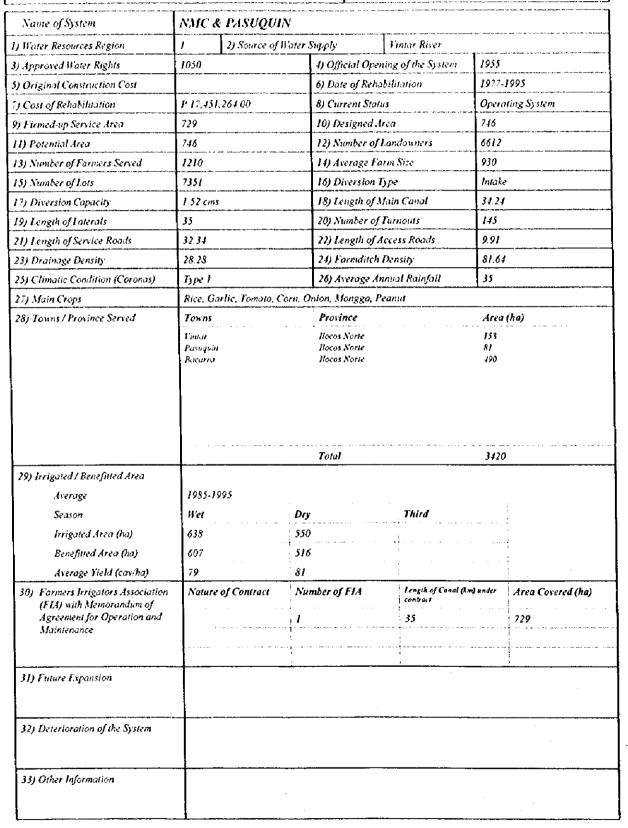


	MADONGAN				
l) Water Resources Region	1 2) Source of	Water Supply	Madongan River		
B) Approved Water Rights	6045	4) Official Ope	ning of the System	Jun. 1986	
5) Original Construction Cost	P 40,862,094.58	6) Date of Reh	abilitation	AugSept, 19	93
7) Cost of Rehabilitation	P 10,176,197.77	8) Current Sta	lus	Operating sys	tem
9) Firmed-up Service Area	3621	10) Designed .	lrea	3621	
l I) Potential Area	3621	12) Number of	Landowners		
13) Number of Farmers Served	2016	14) Average F	arm Size	1.8	
15) Number of Lots		16) Diversion	Туре	Diversion Da	m
17) Diversion Capacity	8.178	18) Length of .	Main Canal	15.39	
19) Length of Laterals	54.749	20) Number of	Turnouts	409	
21) Length of Service Roads	105.61	22) Length of .	Access Roads	47.61	
23) Drainage Density		24) Farmditch	Density	41	
25) Climatic Condition (Coronas)	Type II	26) Average A	nnual Rainfall	7.75	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area (ha)	
	Dingros Murcos	Hocos Norie Hocos Norie		2581.7 1039.3	
		•			
		Total		3120	
29) Irrigated / Benefitted Area		Total		3.120	
29) Irrigated / Benefitted Area Average	1985-1995	Total		3420	
	1985-1995 Wet	Total Dry	Third	3.120	
Average			Third	3120	
Average Season	Wet	Dry	Third	3120	
Average Season Irrigated Area (ha)	Wet 2802	Dry 1460	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 2802 2802	Dry 1460 , 1350	Third Length of Canal (km) contract		Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 2802 2802 85	Dry 1460 1350 70	l ength of Canal (km)		•
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 2802 2802 85 Nature of Contract	Dry 1460 , 1350 70 Number of FIA	Length of Canal (km)	under Area (•
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Field (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 2802 2802 85 Nature of Contract Type III	Dry 1460 , 1350 70 Number of FIA 3	Length of Canal (km) contract 70.139	under Area (1 7
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 2802 2802 85 Nature of Contract Type III Expansion of about 81	Dry 1460 , 1350 70 Number of FIA	Length of Canal (km) contract 70.139 is provided with drain	under Area (2802.4 age re-use struc	1 7
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Field (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 2802 2802 85 Nature of Contract Type III Expansion of about 81	Dry 1460 1350 70 Number of FIA 3	Length of Canal (km) contract 70.139 is provided with drain	under Area (2802.4 age re-use struc	1 7



Name of System	MASALI	P			
1) Water Resources Region	1 2) Source of	Woter Supply	Aringay River	
3) Approved Water Rights	5000		4) Official Op	ening of the System	Jun. 17, 1963
S) Original Construction Cost	P 5,550,000	.00	6) Date of Rel	abilitation	1978 NISIP, 1995 ERP
7) Cost of Rehabilitation	P 50,000,00	0.00	8) Current Sta	itus	Operating System
9) Firmed-up Service Area	1453		10) Designed	Area	1620
11) Potential Area	1600		12) Number o	Landowners	5707
13J Number of Farmers Served	2166		14) Average F		0.26
15) Number of Lots	6396		16) Diversion	Type	Ogee Dam
17) Diversion Capacity	2.5		18) Length of	Main Canal	14.5
19) Length of Laterals	30.6		20) Number o	f Turnouts	149
21) Length of Service Roads	35		22) Length of	Access Roads	
23) Drainage Density			24) Farmelitch	· 	
25) Climatic Condition (Coronas)	Type I			nnual Rainfall	
27) Main Crops	Rice			<u>-</u>	
28) Towns / Province Served	Towns		Province		Area (ho)
	Agoo		La Union		\$01
	Aringsy S.Tomas		l a Union La Union		13°
	Tubao		La Union		353 162
					· · · · · · · · · · · · · · · · · · ·
2011			T otal		3420
			Total		3420
Average	1985-1995		: ***		3420
Average Season	Wet		Dry	Third	3420
Average Season Irrigated Area (ha)	Wet 1400		: ***	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet		Dry	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)	Wet 1400		Dry 1345	Third	3120
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)	1400 1250	Contract	Dry 1345 1300	Third Length of Canal (kn contract	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	1400 1250 85	ontract	Dry 1345 1300 90	Length of Canst (kn	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 1400 1250 85 Nature of C	Contract	Dry 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1400 1250 85 Nature of C	Contract	Dry 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 1400 1250 85 Nature of C		Dry: 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 1400 1250 85 Nature of C Stage 1		Dry: 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 1400 1250 85 Nature of C Stage 1 150 has. Of	downstream	Dry: 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 1400 1250 85 Nature of C Stage 1	downstream	Dry: 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1400 1250 85 Nature of C Stage 1 150 has. Of	downstream	Dry: 1345 1300 90 Number of FIA	Length of Canal (kn	n) under Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 1400 1250 85 Nature of C Stage 1 150 has, Of	downstream	Dry 1345 1300 90 Number of FIA 6	Length of Canal (kn contract 34	n) under Area Covered (ha)





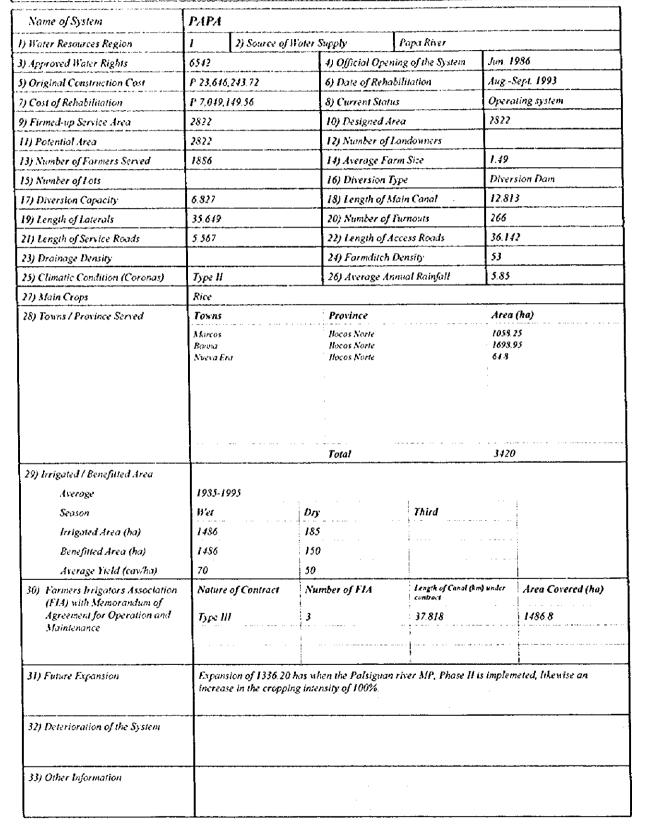


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NATIONAL WATER RESOURCES BOARD

Name of System	NUEVA E	RA				
1) Water Resources Region	1 2).	Source of W	ater Supply	Bongo River		يو اين پيونون ۱۰۰ که را به خو وي په پيونون يو درست د ۱۸۰۳ که درست
3) Approved Water Rights	6046		4) Official Op-	ening of the System	Jun.	1986
5) Original Construction Cost	P 7,626,733.2	24	6) Date of Rel		1	· · · · · · · · · · · · · · · · · · ·
7) Cost of Rehabilitation			8) Current Sta	tus	Oper	rating System
9) Firmed-up Service Area	680		10) Designed.		680	*·
11) Potential Area	680		12) Number of	Landowners		
13) Number of Farmers Served	626		14) Average F	arm Size	1.03	
15) Number of Lots			16) Diversion	Type	Dive	rsion Dam
17) Diversion Copacity	1.584		18) Length of	Main Canal	4.49	1
19) Length of Laterals	8.609		20) Number of	Turnouts	78	
21) Length of Service Roads	11,733		22) Length of .	Access Roads	12.8	9
23) Drainage Density			24) Farmditch	Density:	50.6	
25) Climatic Condition (Coronas)	Type II		26) Average A	nnual Rainfall	1.9	
27) Main Crops	Rice					
28) Towns / Province Served	Towns		Province		Area	(ho)
	N. Ero Bonna		Hocos Norte		601.3	
			*			
			f			
2004			Total	· · · · · · · · · · · · · · · · · · ·	3420)
•			Total		3420)
Average	1985-1995				3420)
Average Season	Wet .		Dry	Third	3420	
Average Season Irrigated Area (ha)	Wet 677			Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet 677 677	· · · · · · · · · · · · · · · · · · ·	Dry	Third	3426	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)	Wet 677 677 70		Dry 120	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 677 677 70 Nature of Cor		Dry 120 100	Third Length of Const (km) contract		Area Covered (ha)
Season Irrigated Area (ha) Benefitted Area (ha)	Wet 677 677 70		Dry 120 100 50	Length of Canal (km)		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 677 677 70 Nature of Cor		Dry 120 100 50	Length of Canal (km) contract		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 677 677 70 Nature of Cor	ntract 1	Dry 120 100 50 Number of FIA	Length of Canal (km) contract	under	Area Covered (ha) 258
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 677 677 70 Nature of Cor Type III Expansion of	ntract 1	Dry 120 100 50 Number of FIA	Length of Canal (km) contract 6.84	under	Area Covered (ha) 258







Name of System	SOLSONA RIVE	R			
I) Water Resources Region	1 2) Source o	f Water Supply	Solsona River		
3) Approved Water Rights	6048		ning of the System	Jun. 1	986
S) Original Construction Cost	P 19,519725.91	6) Date of Reha			Sept. 1993
7) Cost of Rehabilitation	P 4,006,367.53	8) Current State		 	Hing system
9) Firmed-up Service Area	1818	10) Designed A	lrea	1818	
II) Potential Area	1818	12) Number of		 	
13) Number of Farmers Served	1163	14) Average Fa		1.56	
15) Number of Lots		16) Diversion 7		Diver	sion Dam
17) Diversion Capacity	5.434	18) Length of 3		10.02	
19) Length of Laterals	13.244	20) Number of		115	
2i) Length of Service Roads	6918	22) Length of A		15.99	7
23) Drainage Density		24) Farmditch		42	
25) Climatic Condition (Coronas)	Type II	26) Average Ar		6.81	
27) Main Crops	Rice			-1	·
28) Towns / Province Served	Towns	Province		Area	(ha)
	Solsona Dingras	llocos Norte		1413.2	
		·			
20) Irrigated / Revestited Associated		Total		3420	
	loss loos	Total		3420	
Average	1935-1995			3420	
Season	Wet	Dīy	Third	3420	
Average Season Irrigated Area (ha)	Wet 397	<i>Dry</i> 250	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet 397 397	Dry 250 240	Third	3420	<u>.</u>
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)	Wet 397 397 80	Dry 250 240 70			
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 397 397 80 Nature of Contract	Dry 250 240 70 Number of FIA	Third Length of Canal (km) contract		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 397 397 80	Dry 250 240 70 Number of FIA	length of Coast (km)		Area Covered (ha) 397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 397 397 80 Nature of Contract	Dry 250 240 70 Number of FIA	Length of Canal (km) contract 11.849		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 397 397 80 Nature of Contract	Dry 250 240 70 Number of FIA	Length of Canal (km) contract 11.849		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 397 397 80 Nature of Contract Type II Expansion of about 78	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 397 397 80 Nature of Contract Type H	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 397 397 80 Nature of Contract Type II Expansion of about 78	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 397 397 80 Nature of Contract Type II Expansion of about 78	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 397 397 80 Nature of Contract Type II Expansion of about 78	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FLA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion	Wet 397 397 80 Nature of Contract Type II Expansion of about 78	Dry 250 240 70 Number of FIA 4	Length of Canal (km) contract 11.849	under	397.2

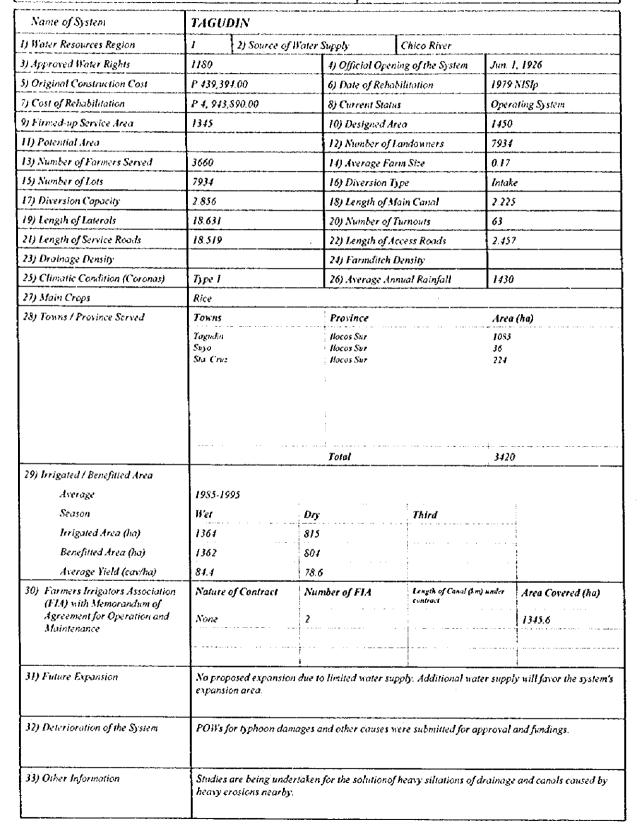


	STA. LUCIA-CA				
Water Resources Region	1 2) Source	of Water Supply	Buaya River	1	
Approved Water Rights	4300	4) Official Ope	ning of the System	1952	
) Original Construction Cost	P 1,319,045.00	6) Date of Reho	abilitation	1979 !	VISIP
) Cost of Rehabilitation	P 7,478,187.00	8) Current Stat	us	Opera	ting System
) Firmed-up Service Area	1542	10) Designed a	trea	1800	
1) Potential Area		12) Number of	Landowners	2579	~~~~
3) Number of Farmers Served	2503	14) Average Fa	orm Size	0.257	
5) Number of Lots	6001	16) Diversion	Туре	Intake	
7) Diversion Capacity	3534	18) Length of !	Main Canal	16.02	
19) Length of Laterals	30.865	20) Number of	Turnouts	157	
?1) Length of Service Roads	43.731	22) Length of a	Access Roads	3.809	
23) Drainage Density		24) Farmditch	Density		
25) Climatic Condition (Coronas)	Type I	26) Average A	nnual Rainfall	1487	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area	(ha)
	Sta Lucia	Hocos Sur		956 545	
	Candon Sta Cruz	Hocos Sur Hocos Sur		41	
		Total		3420	
200 Instant J / Para Guard Instant		Total		3420	
29) Irrigated / Benefitted Area	1095,1005	Total		3420	· · · · · · · · · · · · · · · · · · ·
Average	1985-1995 Wat		Third	3420	
Average Season	Wet	Dry	Third	3420	
Average Season Irrigated Area (ha)	Wet 1468	Dry 219	Third	3420	
Average Season Irrigated Area (ho) Benefitted Area (ha)	Wet 1468 1465	Dry 219 211	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 1468	Dry 219 211 70.4	Third Length of Conal (A. contract		Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)	Wet 1468 1465 78.2	Dry 219 211 70.4	Length of Canal (k.		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 1468 1465 78.2 Nature of Contract	Dry 219 211 70.4 1 Number of FIA	Length of Conal (k.		Atea Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1468 1465 78.2 Nature of Contract	Dry 219 211 70.4 1 Number of FIA	Length of Conal (k.		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1468 1465 78.2 Nature of Contract Type 1 Proposed area for	Dry 219 211 70.4 1 Number of FIA	Length of Const (b. contract 2.49 e available water sup	n) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 1468 1465 78.2 Nature of Contract Type 1 Proposed area for transbasin, the irre	Dry 219 211 70.4 Number of FIA 3 expansion is depend on the	Length of Conal (h. contract 2.49 2.49 e available water sup	n) under	Area Covered (ha)



	STA, MARIA-BUE	·	~	elektrikasis kuruluk alaktrikasis kalaktrikasis kalaktrikasis kalaktrikasis kalaktrikasis kalaktrikasis kalakt	
I) Water Resources Region		Water Supply	Sta. Maria River	g i distribuica de la constanta de la compania de la constanta de la constanta de la constanta de la constanta	
3) Approved Water Rights	1574	4) Official Ope	ning of the System	1963	
5) Original Construction Cost		6) Date of Reha	abilitation	1978 NISIP	
7) Cost of Rehabilitation	P 7,833,614.60	8) Current Stat	us	Operating System	
9) Firmed-up Service Area	919	10) Designed A	trea	1200	
11) Potential Area		12) Number of	Landouners	1913	
13) Number of Farmers Served	1465	14) Average Fo	arm Size	0.173	
15) Number of Lots	5310	16) Diversion (Type	Intake	
17) Diversion Capacity	2.388	18) Length of 3	Main Canal	12.02	
19) Length of Laterals	36.002	20) Number of	Turnouts	112	
21) Length of Service Roads	44.052	22) Length of A	iccess Roads	15.601	
23) Drainage Density		24) Farmditch	Density		
25) Climatic Condition (Coronas)	Type I	26) Average Ar	anua l Rainfall	1330	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area (ha)	
	Sta Maria Burgos	Hocos Sur Hocos Sur		~6~ 152	
	1				
29) Irrigated / Benefitted Area		Total		3420	
	1985-1995	Total		3420	
29) Irrigated / Benefitted Area Averoge Season	1935-1995 Wet	· · ·	Third	3420	
Averoge	ì	Total Dry 47	Third	3420	
Averoge Season	B'et	Dry:	Third	3420	
Averoge Season Irrigated Area (ha) Benefitted Area (ha)	Wet 847	<i>Dry</i> 47	Third	3120	
Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 847 784	Dry 47	Third Length of Canal (km) a contract		(ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 847 784 79.5	Dry 47 47 77.8			(ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 847 784 79.5 Nature of Contract	Dry 47 47 77.8	Length of Canal (km) u	onder Area Covered	(ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 847 784 79.5 Nature of Contract	Dry 47 47 77.8	Length of Canal (km) u	onder Area Covered	(ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 847 784 79.5 Nature of Contract Type 1	Dry 47 47 77.8 Number of FIA 1 area in this sylem con the system c	Length of Canal (km) a contract 3.74	Area Covered 488.938	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 847 784 79.5 Nature of Contract Type 1 Generation of irrigated Transbasin for addition	Dry 47 47 77.8 Number of FIA 1 area in this sylem con the system c	Length of Canal (km) we contract 3.74 3.74 be attained with the contract	Area Covered 488.938 nstruction of the Hocos	



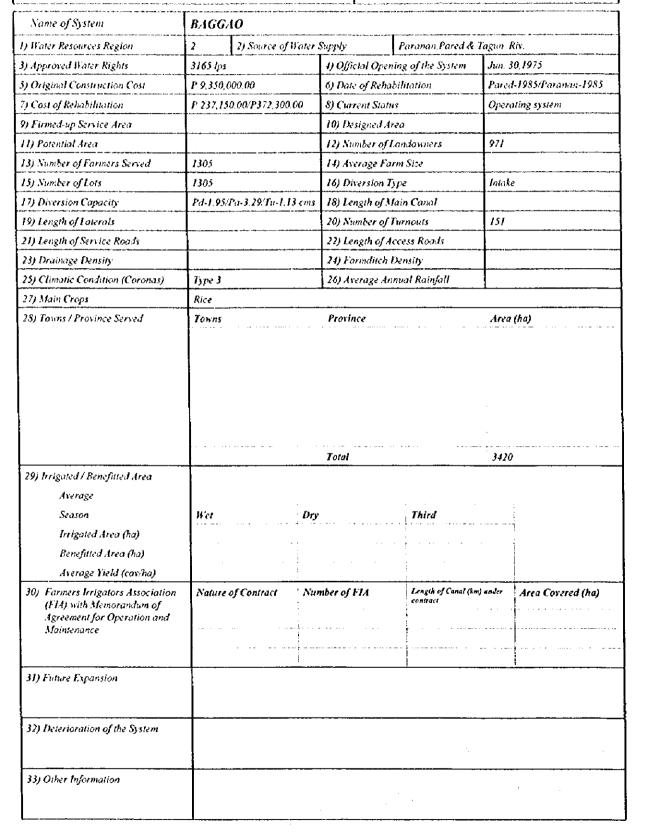




Name of System	APAYAO-ABULO	G		
1) Water Resources Region	2 2) Source o	Water Supply	Abulog River	And the state of t
3) Approved Water Rights	25,000 lps	4) Official Open	ning of the System	Jun. 1, 1968
5) Original Construction Cost	P 14,537,000.00	6) Date of Reho		Jan. 1977-Jun. 1987
7) Cost of Rehabilitation	P 46,608,970.00	8) Current Stat	้นร	Operating System
9) Firmed-up Service Area		10) Designed A	lrea	
11) Potential Area		12) Number of	Landowners	6990
13) Number of Farmers Served	4240	14) Average Fa	arm Size	
15) Number of Lots	8920	16) Diversion 1	T) pe	Diversion Dam
17) Diversion Capacity	W=14.25 cms/E=27.5	Tems 18) Length of A	Iain Canal	
19) Length of Laterals		20) Number of	Turnouts	394
21) Length of Service Roads		22) Length of A	lecess Roads	
23) Dealnage Density		24) Farmditch	Density	***************************************
25) Climatic Condition (Coronas)	Type 3	26) Average Ar	anua l Ra infall	
27) Main Crops	Rice			— <u>! </u>
28) Towns / Province Served	Towns	Province	·	Area (ha)

2011		Total		3420
		Total		3420
Average		:		3420
Average Season	B'et	Total Dry	Third	3420
Average Season Irrigoted Area (ha)	Wet	:	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha)	B'et	:	Third	3420
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet Nature of Contract	:	Third Length of Canal (km) contract	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry		
Season Irrigated Area (ha) Benefitted Area (ha) Average Vield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry		

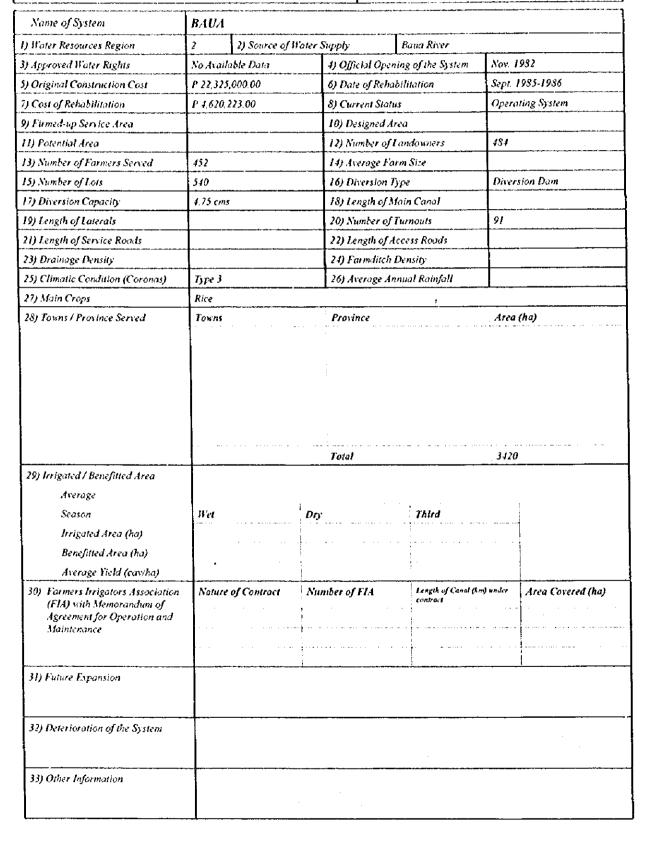






Name of System	BANURBUR				
l) Water Resources Region	2 2) Source o	f Water Supply	Banurbur Creek		eting geografia and the second second second second second second second second second second second second se
3) Approved Water Rights	1500 lps	4) Official Openi	ing of the System	Apr. I	1, 1968
5) Original Construction Cost	P 743,000.00	6) Date of Rehab	vilitation	1978-	1983
7) Cost of Rehabilitation	P 4,475,000.00	8) Current Status	5		tting system
9) Firmed-up Service Areo		10) Designed Ar.	ra	1	
l I) Potential Area		12) Number of L	andowners	628	** *** *** *** *** *** *** *** *** ***
13) Number of Farmers Served	732	14) Averoge Far	m Size	1	·
15) Number of Lots	1187	16) Diversion Ty	pe	Oger	Dam
17) Diversion Capacity	1.5 cms	18) Length of Me	in Conal		**************************************
19) Length of Laterals		20) Number of T	urnouls	63	
21) Length of Service Roads		22) Length of Ac	cess Roads	1	
23) Drainage Density		24) Farmditch D		1	
25) Climatic Condition (Coronas)	Type 3	26) Average Ann	wal Rainfall	1	
27) Main Crops	Rice			-	
28) Towns / Province Served	Towns	Province		Area	(ha)
				<u>.</u>	
		Total		3420	
29) Irrigated / Benefuted Area		Total		3420	
29) Irrigated / Benefuted Area Average		Total		3420	
	Wet	Total Dry	Third	3420	· · · · · · · · · · · · · · · · · · ·
Average	Wet		Third	3420	
Average Season	Wet		Third	3420	
Average Season Irrigated Area (ha)	Wet		Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet Nature of Contract		Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry			Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of		Dry	Length of Canal (km)		Arca Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry	Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance		Dry	Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance		Dry	Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry	Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry	Length of Canal (km)		Arca Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion		Dry	Length of Canal (km)		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) BO) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance B1) Future Expansion		Dry	Length of Canal (km)		Arca Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		Dry	Length of Canal (km)		Area Covered (ha)







Name of System	DUMM	fUN	سنونيس ويها مستقدري والمستق فالسنا		
1) Water Resources Region	2	2) Source of	Water Supply	Dummun River	
3) Approved Water Rights			4) Official Ope	ning of the System	Jul. 1, 1975
5) Original Construction Cost	P 13,028,	000.00	6) Date of Reho		No Available Data
7) Cost of Rehabilitation			8) Current Stat	ins	Operating System
9) Firmed-up Service Area			10) Designed a	trea .	
11) Potential Area	1		12) Number of	Landowners	1315
13) Number of Farmers Served	1676		14) Average Fa	arm Size	
15) Number of Lots	1318		16) Diversion	Type	Intake
17) Diversion Capacity	4.08 cms		18) Length of !	Main Canal	
19) Length of Laterals	1		20) Number of	Turnouts	67
21) Length of Service Roads			22) Length of	Access Roads	
23) Drainage Density			24) Farmditch	Density	
25) Climatic Condition (Coronas)	Type 3		26) Average A	nnual Rainfall	
27) Main Crops	Rice				
			Total		3120
29) Irrigated / Benefitted Area	 	- 	10.5.		3420
Average					
Season	Wet	•	Dry	Third	
Irrigated Area (ha)					
Benefitted Area (ha)	Ì			. !	e a de
Average Yield (cav/ha)	ł			;	•
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature o	f Contract	Number of FIA	Length of Conut (km) contract	under Area Covered (ha)
31) Future Expansion				1	
32) Deterioration of the System					
33) Other Information	 				





Name of System	IGUIG-	ALCALA-A	<i>MULONG</i>			
1) Water Resources Region	2	2) Source of	Water Supply	Cagayan River		
3) Approved Water Rights	20700 lps		1) Official Ope	ning of the System	May.	1983
5) Original Construction Cost	P 92,600.	000.00	6) Date of Reh	abilitation	1993-	1998
7) Cost of Rehabilitation	P 50,000,	000.00	8) Current Sta	tus	Opera	ating system
9) Firmed-up Service Area	2306		10) Designed.	Area .	3125	
11) Potential Area	3117		12) Number of	Landowners	3737	
13) Number of Farmers Served	2871		14) Average F	arm Size	0.5	
15) Number of Lots	4744		16) Diversion	Туре	Intak	e (Pump)
17) Diversion Capacity	291.5 & 1	12.50 cu.m/mi	in 18) Length of .	Main Canal	15.95	
19) Length of Laterals	30.19		20) Number of	Turnouts	77	
21) Length of Service Roads	31.84		22) Length of .	Access Roads	2.28	
23) Drainage Density	173.38		24) Farmditch	Density	13	
25) Climatic Condition (Coronas)	Type III		26) Average A	nnual Rainfall	1680	
27) Main Crops	Rice, Cor	n				
28) Towns / Province Served	Towns		Province	- 1.0	Area	(ha)
	Alcola Anulong Aguig		Cogayan Cogayan Cogayan		869 928 509	
			Total		3420	
29) Irrigated / Benefitted Area			Total		3420	
29) Irrigated / Benefitted Area Average	1985-199		Total		3420	
-	1985-199 Wet	25	Total Dry	Third	3420	
Average		95		Third	3420	
Average Season	Wet	25	Dry	Third	3420	
Average Season Irrigated Area (ha)	Wet 1150	25	Dry 1220	Third	3420	
Average Season Irrigated Area (ha) Benefitted Area (ho) Average Yield (cav/ha) 30) Farmers Irrigators Association	Wet 1150 1000 80	os G Contract	Dry 1220 1200	Third Iengih of Canal (km		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1150 1000 80	f Contract	Dry 1220 1200 85	iengih of Canal (km		
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 1150 1000 80 Nature o	f Contract	Dry 1220 1200 85	Langih of Canal (km		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1150 1000 80 Nature o	f Contract	Dry 1220 1200 85	Langih of Canal (km		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 1150 1000 80 Nature o	f Contract	Dry 1220 1200 85	Langih of Canal (km		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 1150 1000 80 Nature o Stage III	f Contract	Dry 1220 1200 85 Number of FIA 3	i angih of Canal (km contract 45.828	ı) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Wet 1150 1000 80 Nature of Stage III	f Contract	Dry 1220 1200 85 Number of FIA 3	i angih of Canal (km contract 45.828	ı) under	Area Covered (ha)



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NATIONAL WATER RESOURCES BOARD

1) Water Resources Region 1) Approved Water Rights 5) Original Construction Cost 7) Cost of Rehabilitation 9) Firmed-up Service Area 11) Potential Area	2 2) Source of 1 P 1,200,000.00 P 2,513,915.65	Water Supply 4) Official Openin 6) Date of Rehabi 8) Current Status		Jan 1,	
5) Original Construction Cost 7) Cost of Rehabilitation 8) Firmed-up Service Area 11) Potential Area	f	6) Date of Rehabi			
?) Cost of Rehabilitation ?) Firmed-up Service Area ! 1) Potential Area	f		litation	1977-1	979
i) Firmed-up Service Area 1) Potential Area	P 2,543,945.65	Si Chrysnet Status			
1) Potential Area		of Cartera States		Under	Operation
	j	10) Designed Area	a		
		12) Number of La	ndowners	1386	
3) Number of Farmers Served	2567	14) Average Farm	ı Size	†	
15) Number of Lots	1429	16) Diversion Typ	e	Gravit),
17) Diversion Capacity	4.75 cms	18) Length of Mar	in Canal	†	
19) Length of Laterals		20) Number of Tu	rnouls	1	
?}) Length of Service Roads		22) Length of Acc	ess Roads	<u> </u>	
?3) Drainage Density		24) Farmditch De	nsity		
25) Climatic Condition (Coronas)	Tropical and Monsoonal			1	
77) Main Crops	Rice, Corn				
28) Towns / Province Served	Towns	Province		Area (ha)
		Total		3420	
29) Irrigated / Benefitted Area					
Average		i		,	
Season	Wet	Dry	Third		
Irrigated Area (ha)					
Benefitted Area (ha)				1	
Average Yield (cav/ha)		1			
30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	Nature of Contract	Number of FIA	Length of Canal (km) contract	under	Area Cosered (ha)
31) Future Expansion					
32) Deterioration of the System					
· · · · · · · · · · · · · · · · · · ·	1				



Name of System	MAGAPIT PUMP	مند به بسور مستحدم من براید بازر به معید می موس			
Water Resources Region	2 2) Source of Wate	r Supply Co	gayan River	·	
Approved Water Rights	21081 lps	4) Official Opening	of the System	Apr. 19	35
Original Construction Cost	P 626,226,000.00	6) Date of Rehabilit	ation		
Cost of Rehabilitation		8) Current Status		Operat	ing system
Firmed-up Service Area	10914	10) Designed Area		10875	
1) Potential Area	11457	12) Number of Lan	louners	3226	
3) Number of Farmers Served	4510	14) Averoge Farm:	Size	1.07	
5) Number of Lots	8022	16) Diversion Type		Pump	уре
7) Diversion Copacity	340 cum/min for each 4 pu	m 18) Length of Main	Canal	28.77	
9) Length of Laterals	94.23	20) Number of Turi	nouls	277	
1) Length of Service Roads	141.1	22) Length of Acce	ss Roads	6.18	
3) Drainage Density	0.014	24) Farmditch Den	sity	0.063	
5) Climatic Condition (Coronas)	Type III	26) Average Annua		2300	
27) Main Crops	Rice				
28) Towns / Province Served	Towns	Province		Area ((ha)
o) 10mm / Frontice Serveu	Aporri Comalaniugan Buguey Lal-lo	Cogoyan Cogoyan Cogoyan Cogoyan		93* 3965 1218 1043	
20) Luis and (Paragual Inna		Tota!		0	
29) Irrigated / Benefitted Area	1095,1005	Tota!		0	
Average	1985-1995 West		Third		
Average Season	Wet .	Dry	Third	0	
Average Season Irrigoted Area (ha)	Wet 3260	Dry 6350	Third	0	
Average Season Irrigoted Area (ha) Benefitted Area (ha)	Wet 1 3260 1377	Dry 6350 5059	Third	0	
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cawha) 30) Farmers Irrigators Association	Wet 3260 1377 60	Dry 6350	Third Length of Canal (h		Area Covered (ha)
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cawha) 30) Farmers Irrigators Association (FIA) with Memorandum of	Wet 3260 1377 60 Nature of Contract	Dry 6350 5059 76	Length of Canal (h		Area Covered (ha)
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cawha) 30) Farmers Irrigators Association	Wet 3260 1377 60 Nature of Contract	Dry 6350 5059 76 Number of FIA	Length of Canal (k contract		
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 3260 1377 60 Nature of Contract	Dry 6350 5059 76 Number of FIA	Length of Canal (k contract		
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	Wet 3260 1377 60 Nature of Contract	Dry 6350 5059 76 Number of FIA	Length of Canal (k contract		
Average Season Irrigoted Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandium of Agreement for Operation and Maintenance	Wet 3260 1377 60 Nature of Contract Type I	Dry 6350 5059 76 Number of FIA 12 able area is 3751 has.	Length of Canal (h contract	m) under	7163



Name of System	MAGAT RIIS D	ISTRIC	r I			
) Water Resources Region	2 2) Source	of Water S	Supply:	Magat River		
) Approved Water Rights			4) Official Ope	ning of the System	Dec.	1986
) Original Construction Cost	P 4,200,000,000.00		6) Date of Rehi		†	
) Cost of Rehabilitation			8) Current Stat		Oper	oling system
) Firmed-up Service Area	21058		10) Designed A	lrea	2446	
1) Potential Area	24468		12) Number of		1292	
3) Number of Farmers Served	13868		14) Average Fo		1.48	
5) Number of Lots	14195		16) Diversion			rsion Dam
7) Diversion Capacity	MARIS Dam: \$MM(T=121.5	18) Length of !		136	
9) Length of Laterals	297.919		20) Number of	·····	930	
1) Length of Service Roads	376.951		22) Length of A		140.	
3) Drainage Density	9,3		24) Farmditch		110.	
5) Climatic Condition (Coronas)	Type IV	~	26) Average A		1916	
7) Main Crops	Rice		10) Alerage A)	rian mingui	Lixin	7. [
18) Towns / Province Served	Towns		Province		4	
oy round resource derveu	Alicia					(ha)
	Angoknan		Isobela Isobela		60 36	
	Cordon		Isabela		3661	
	Echague Ramon		Isobela Isobela		232 1 3321	
	S. Isidro		Isabela		1271	
	Santiago		Isabela		-604	
	Diffun Cobbaroguis		Quirino		1230	
	Soguday		Quirino Quirino		285 1269	
	A Manual Control of		Total		0	
19) Irrigated / Benefitted Area	<u> </u>					
Average	1985-1995					
Season	Wet	Dry		Third		
Irrigated Area (ha)	17415	1771				
Benefitted Area (ha)	15400	1597		.		•
Average Yield (cav/ha)	79	79	•			
80) Farmers Irrigators Association	Nature of Contract			Length of Canal (km)		
(FIA) with Memorandum of	Training of Contract	1416171	ber of FIA	contract	water	Area Covered (ha)
Agreement for Operation and	Stage 1	60		234.348		10110
Maintenance	Stage II	9		39.609	• .	2183
31) Future Expansion	Expansion of 320 ha	is from con	struction of dan	and upgrading of la	teral co	mals.
32) Deterioration of the System	Heavy siltation, scou systems.	ring/erosio	ons of canals. De	efective control gates	and un	maintained drainage
33) Other Information					······	



Value of Niclons	MAGAT RHS DIS	TDICTII		
Name of System	 		1	
I) B'aler Resources Region	2 2) Source of	Water Supply	Magat River	L
3) Approved Water Rights			ning of the System	Dec. 1986
5) Original Construction Cost	P 4,200,000,000.00	6) Date of Rehe		
7) Cost of Rehabilitation	<u> </u>	8) Current Stat		Operating system
9) Firmed-up Service Area	23101	10) Designed A		24054
11) Potential Area	23101	12) Number of		11060
13) Number of Farmers Served	17960	14) Average Fo	ırm Size	1691
15) Number of Lots	13665	16) Diversion 1	Туре	Diversion Dam
17) Diversion Capacity	MARIS Dam: SMMC=1	121.5 , 18) Length of !	Iain Canal	42.556
19) Length of Laterals	370.307	20) Number of	Turnouts	1485
21) Length of Service Roads	355681	22) Length of s	Iccess Roads	110.2
23) Drainage Density	9.85	24) Farmditch	Density:	49.24
25) Climatic Condition (Coronas)	Type II	26) Average A	nmal Rainfall	1149
27) Main Crops	Rice			
28) Towns / Province Served	Towns	Province		Area (ha)
	Alicio Angoskman Cabatvan Ramon S. Isidro	Isabela Isabela Isabela Isabela Isabela		5506 1410 209* 4050 2333
	S. Marco	Ivahela		⁻ 405
10. h.i. a. 1 (P Cu. 1 L	1			
29) brigated/Benefitted Area	S. Marco	Ivahela		⁻ 405
Average	5 Marco 1985-1995	Isabela Total		⁻ 405
Average Season	S. Marco 1985-1995 Wet	Ivohelo Total Dry	Third	⁻ 405
Average Season Irrigated Area (ha)	5 Marco 1985-1995 Wet 21139	Total Dry 21209	Third	⁻ 405
Average Season Irrigated Area (ha) Benefitted Area (ha)	5 Marco 1985-1995 Wea 21139 19646	Ivahela Total Dry 21209 15979	Third	⁻ 405
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association	5 Marco 1985-1995 Wet 21139	Total Dry 21209	Third Length of Canal (km) contract	-405 O
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	\$ Marco 1985-1995 Wet 21139 19646 86	Total Dry: 21209 15979 89	Length of Canal (km)	-105 O
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of	\$ Marco 1985-1995 Wet 21139 19646 86 Nature of Contract	Total Dry 21209 15979 89 Number of FIA	Length of Canal (km)	0 Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	\$ Marco 1985-1995 Wet 21139 19646 86 Nature of Contract Stage 1	Number of FIA 28	Length of Canal (km) contract 115	O Area Covered (ha) 8288
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and	\$ Marco 1985-1995 Wet 21139 19646 86 Nature of Contract Stage 1 Stage II	Number of FIA 28	Length of Canal (km) controct 115	105 0 Nunder Area Covered (ha) 8288 1616
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance	\$ Marco 1985-1995 Wet 21139 19646 86 Nature of Contract Stage 1 Stage II	Number of FIA 28 7	Length of Canal (km) controct 115	105 0 Nunder Area Covered (ha) 8288 1616

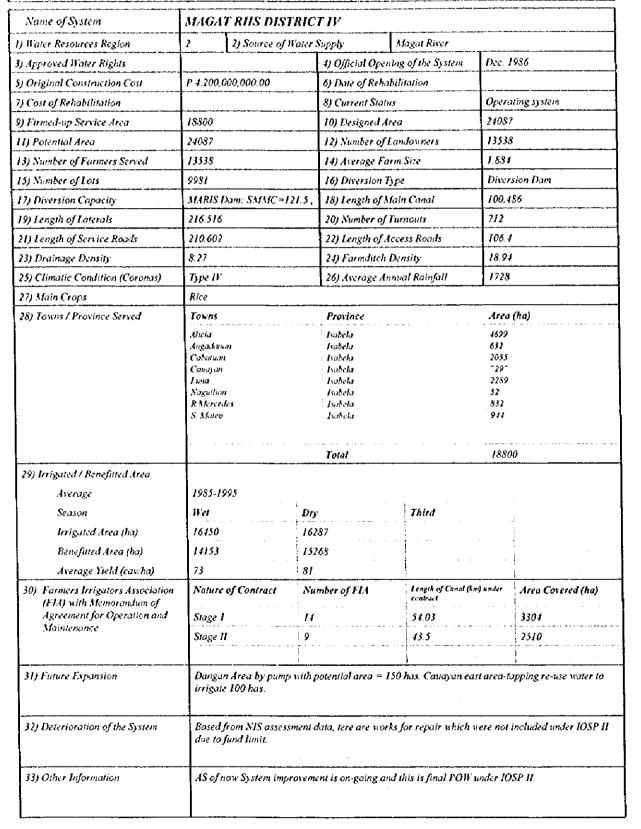


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				-+	
11) Potential Area 13) Number of Farmers Served	9311	12) Number 14) Average	of Landowners	6653 2 332	
15) Number of Lots	8010	16) Diversi	on Type	Divers	ion Dam
17) Diversion Capacity	MARIS Dam: SMMC=	121.5 , 18) Length	of Main Canal	106.42	•
19) Length of Laterals	253.2	20) Number	of Turnouts	500	
21) Length of Service Roads	284	22) Length	of Access Roads	67	
23) Drainage Density	7.74	24) Farmdi	tch Density	19.17	
25) Climatic Condition (Coronas)	Type II	26) Average	Annual Rainfall	1728	
27) Main Crops	Rice	······································			The second section of the section of the section of the second section of the section of t
28) Towns / Province Served	Towns	Province		Area (ha)
	Gamu Quirino Roxas S.Manuel S. Mateo Potia	Isabela Isabela Isabela Isabela Isabela Ifugao		795 1206 3940 705" 144 575	
20) Invitated / Paus Gue J. Augus		Total			
29) Irrigated / Benefitted Area	700¢ 100¢				
Average	1985-1995	1_			
Season	Wet	Dry	Third		
Irrigated Area (ha)	15883	16172			
Benefitted Area (ha)	14018	14278			
Average Yield (cav/ha)	76	89			
30) Farmers Irrigators Association (FIA) with Memorandum of	Nature of Contract	Number of FIA	Length of Canol (km)	under	Area Covered (ha)
Agreement for Operation and	Stage 1	26	96.808		5633
Maintenance	Stage II	 	17.954		1191
		- 		· · · · • • • • • • • • • • • • • • •	
31) Future Expansion	There will 2148 has to	be expanded Intake g	ates, sluice gates and p	итрѕ.	
32) Deterioration of the System					
33) Other Information			· .		







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Name of System	MAGA	KIYEKINI	DALIER REPORT	RIGATION SYST	ear (174-arkore)
1) Water Resources Region	2	2) Source of Wa	ter Supply	Magat River and S	Siffu River
3) Approved Water Rights			4) Official Op	ening of the System	Aug. 1957 and Sept. 1968
5) Original Construction Cost	P 13,642,	101,00 and P 4,70	00. 6) Date of Rel	nAllitation	Mar. 15, 1987
7) Cost of Rehabilitation	P 4,463,4	97,640	8) Current Sta	lus	Operating System
9) Firmed-up Service Area			10) Designed	Area	
11) Potential Area			12) Number of	Landowners	35109
13) Number of Farmers Served	49897		14) Average F	arm Size	
15) Number of Lots	38422		16) Diversion	Туре	Reservoir
17) Diversion Capacity	30000 cm	2.	18) Length of	Main Canal	
19) Length of Laterals			20) Number o	Turnouts	3014
21) Length of Service Roads			22) Length of	Access Roads	
23) Drainage Density	<u> </u>		24) Farmditch	Density.	
25) Climatic Condition (Coronas)	Type 3		26) Average A	nnual Rainfall	
27) Main Crops	Rice				
	l		Total		3420
29) Irrigated / Benefitted Area			To(al		3420
29) Irrigated / Benefuted Area Average			Total		3120
	Wet		To(al	Third	3420
Average	Wet	· · · · · · · · · · · · · · · · · · ·		Third	3420
Average Season	Wet			Third	3420
Average Season Irrigated Area (ha)	Wet	E		Third	3120
Average Season Irrigated Area (ha) Benefitted Area (ha)				Third Length of Canal (kay contract	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and			77	length of Canal (km	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Vield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance			77	length of Canal (km	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion			77	length of Canal (km	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance 31) Future Expansion			77	length of Canal (km	



Name of System	MAGA	T RIVER INT	EGRATED IRR	RIGATION SYST	EM (2)	(4-Baligatan)
1) Water Resources Region	2	2) Source of Wa	iter Supply	Magat River and S	iffu Rive	r
3) Approved Water Rights			1) Official Ope	ening of the System	Aug	1957 and Sept. 1968
5) Original Construction Cost	P 13,642	101.00 and P 4,7	00, 6) Date of Reh	abilitation	Mar.	15, 1987
7) Cost of Rehabilitation	P 4,463,4	197,640	8) Current Stat	tus	Opera	iting System
9) Firmed-up Service Area			10) Designed a	Area		
11) Potential Area			12) Number of	Landowners	35409)
13) Number of Farmers Served	19897		14) Average F	arm Size		
15) Number of Lots	38422		16) Diversion	Type	Ogee	Dam
17) Diversion Capacity	Rigth Int	ake = 26 cms / Le	ft 1 18) Length of :	Main Canal		
19) Length of Laterals			20) Number of	Turnouts		
21) Length of Service Roads			22) Length of .	Access Roads		
23) Drainage Density			24) Farmditch	Density		
25) Climatic Condition (Coronas)			26) Average A	Innual Rainfall		
27) Main Crops						
28) Towns / Province Served	Towns		Province		Area	(he)
			Total		3420	
	-		Total		3420	
29) Irrigated / Benefitted Area Average						
Season	Wet		Dry	Third		
Irrigated Area (ha)	78					i
Benefitted Area (ha)		1		i		
Average Yield (cav/ha)		1				
30) Farmers Irrigators Association	Nature	of Contract	Number of FIA	Length of Canal Am) under	Area Covered (ha)
(FIA) with Memorandum of				contract	r	
Agreement for Operation and Maintenance		- · · · · · · · · · · · · · · · · · · ·				*
				t		1
31) Future Expansion						
32) Deterioration of the System						
33) Other Information			· · · · · · · · · · · · · · · · · · ·			



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11) Potential Area	1		12) Number of		35409	n
1) Cost of Rehabilitation 9) Firmed-up Service Area	P 4,463,49	7,640	S) Current Sto		Opera	ating System
			10) Designed.			n
13) Number of Farmers Served	49897		14) Average Fi		3340	· · · · · · · · · · · · · · · · · · ·
15) Number of Lots	38422	 .	16) Diversion		Ogee	D.m.
17) Diversion Capacity		e = 121.5 cms.			1030	ram.
19) Length of Laterals	1.18		20) Number of	······		
21) Length of Service Roads	 		22) Length of .			
23) Drainage Density	+		24) Farmditch			
25) Climatic Condition (Coronas)				nnual Roinfall	╂	
27) Main Crops	 		20) .tterage X		L	
					:	
20) Insignated / Paus Site 4 Aven			T ota l		: 0	
			Total		: : : : : : : :	
Average			·		: : : : : : :	
Average Season	Wet		Total Dry	Third		
Average Season Irrigated Area (ha)	Wet		·	Third	o	
Season Irrigated Area (ha) Benefitted Area (ha)	Wet		·	Third	0	
Average Season Irrigated Area (ha)	Wet Nature of 4		·	Third Length of Canal (km contract		Area Covered (ho)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance			Dry:	Length of Canal (Am		Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and			Dry:	Length of Canal (Am		Area Covered (ho)



Name of System	MAGAT RIVER INT	EGRATED IRRIG	ATION SYST	EM (4/4-SYJW)
I) Water Resources Region	2 2) Source of Wa	ter Supply 3	Jagat River and S	Siffu River
3) Approved Water Rights		4) Official Openin	g of the System	Aug. 1957 and Sept. 1968
5) Original Construction Cost	P 13,642,101.00 and P 4,70	00, 6) Date of Rehabil	itation	Mar. 15, 1987
7) Cost of Rehabilitation	P 4,463,497,640	8) Current Status		Operating System
9) Firmed-up Service Area		10) Designed Area	1	
11) Potential Area		12) Number of Lar	tdowners	35409
13) Number of Farmers Served	49897	14) Average Farm	Size	
15) Number of Lots	38422	16) Diversion Typ	€	Ogee Dam
17) Diversion Capacity	Rigth Intake = 13.6 cms/1	eft 18) Length of Mai	n Canol	
19) Length of Laterals		20) Number of Tu	rnouls	
21) Length of Service Roads		22) Length of Acc	ess Roads	
23) Drainage Density		24) Farmditch De	nsity	
25) Climatic Condition (Coronas)		26) Average Annu	al Rainfall	
27) Main Crops				
28) Towns / Province Served	Towns	Province		Area (ha)
		Total	· · · · ·	0
29) Irrigated / Benefitted Area		Total		0
		Total		0
29) Irrigated / Benefitted Area Average Season	Wet	Total Dry	; Third	0
Average	Wet		Third	0
Average Season	Wet		Third	0
Average Season Irrigated Area (ha)	Wet		Third	0
Average Season Irrigated Area (ha) Benefitted Area (ha)			Third Length of Canal (k) contract	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandian of Agreement for Operation and		Dry	Length of Canal (h)	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandian of Agreement for Operation and		Dry	Length of Canal (h)	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandian of Agreement for Operation and Maintenance 31) Future Expansion		Dry	Length of Canal (h)	
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandium of Agreement for Operation and Maintenance		Dry	Length of Canal (h)	



Name of System	MALLIG				
I) Water Resources Region	2 2)	Source of Wat	ter Supply	Mallig River	
3) Approved Water Rights			4) Official Open	ing of the System	Jan. 1, 1986
5) Original Construction Cost	P 27,733,220	.00	6) Date of Rehal	bilitation	1989-1996
7) Cost of Rehabilitation	P 3,282,338.0	00	8) Current Statu	J	Operating System
9) Firmed-up Service Area	2427		10) Designed Ar	ea	2950
II) Potential Area	2427		12) Number of I	andowners	742
13) Number of Farmers Served	1368		14) Average Fai	rm Size	1.85
15) Number of Lots	1086		16) Diversion Ty	pe	Ogee Type
17) Diversion Capacity	1.43 cms		18) Length of M	ain Canal	13.748
19) Length of Laterals	13.748		20) Number of I	urnouts	40.091
21) Length of Service Roads	115		22) Length of Ac	cess Roads	6.218
23) Drainage Density	47.186		24) Farmditch L	Density:	0.0097
25) Climatic Condition (Coronas)	Туре 3		26) Average Ani	wol Rainfall	2190
27) Main Crops	Rice, Corn				
28) Towns / Province Served	Towns		Province		Area (ha)
			Total		••••••••••••••••••••••••••••••••••••••
29) Irrigated / Benefitted Area	 				
Average	1985-1995				
Season	B'et	D	rs	Third	
Irrigated Area (ha)	1340		300		
Benefitted Area (ha)	1202	90	62		
Average Yield (cav/ha)	70	7.	 5		
20. 5	Nature of Co			Length of Canal (km	under Area Covered (ha)
30) Farmers Irrigators Association (FIA) with Memorandum of	1		umber of FIA	contract	Area Coresta (na)
(FIA) with Memorandum of Agreement for Operation and	Stage 1 and s		umber of FIA		2086.12
(FIA) with Memorandum of			umber of FIA	contract	
(FIA) with Memorandum of Agreement for Operation and				contract	
(FIA) with Memorandum of Agreement for Operation and Maintenance	Stage 1 and s	tage II 5		contract 44,453	2086.12





Name of System	PAMP	LONA				
1) Water Resources Region	2	2) Source of	Woter Supply	Gatto Creek		
I) Approved Water Rights	750 lps		4) Official Op	ening of the System	Sept.	7, 1969
) Original Construction Cost	P 240,00	0.00	6) Date of Rel		Mar.	
) Cost of Rehabilitation	P 5,719.5	20.00	8) Current Sta		Opera	nting system
) Firmed-up Service Area			10) Designed	Area	·	
1) Potential Area		·	12) Number o		305	
3) Number of Farmers Served			14) Average F			nymetrien i zee ny maaalaadi ka heedlaan yori mirimbiy namaa i s
5) Number of Lots		·	16) Diversion		Fump	
17) Diversion Capacity			18) Length of	Moin Cana!	<u>-</u> -	
19) Length of Laterals			20) Number o,		4 7	- <u> </u>
21) Length of Service Roads			22) Length of		1	
3) Drainage Density			24) Farmditel			
25) Climatic Condition (Coronas)	Type 3	·	26) Average A	Innual Rainfall	1	
27) Main Crops	Rice				- 	
28) Towns / Province Served	Towns		Province		Area	(ha)
20 Julia at J. / Para Const. Lang			Total		0	
			Total		0	
Average	Har				0	······································
Average Season	B'et .		Total Dry	Third	. 0	
Average Season Irrigated Area (ha)	Wet			Third	0	
Average Season Irrigated Area (ha) Benefitted Area (ha)	Wet			Third	0	
Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)			Dry			
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha)		of Contract		Third Length of Canal (hm, contract		Atea Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		of Contract	Dry	Length of Canal (hm) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and Maintenance		of Contract	Dry	Length of Canal firm, contract) under	Area Covered (ha)
Average Season Irrigated Area (ha) Benefitted Area (ha) Average Yield (cav/ha) 30) Farmers Irrigators Association (FIA) with Memorandum of Agreement for Operation and		of Contract	Dry	Length of Canal firm, contract) under	Area Covered (ha)