

Table 5.4.9 Estimated Long-term Runoff in m³/sec
for Portoviejo River in El Ceibal

(Unit: m³/s)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	4.29	6.04	21.51	30.82	24.36	20.73	16.94	14.57	13.13	11.19	10.26	8.84	15.22
1965	7.92	8.30	23.79	30.39	30.61	25.82	20.47	17.21	15.25	12.84	11.66	10.00	17.86
1966	20.65	27.79	28.07	26.71	23.19	21.06	18.04	16.04	14.80	12.82	11.87	10.30	19.28
1967	34.64	67.04	57.94	45.16	33.69	27.62	21.89	18.40	16.30	13.72	12.46	10.67	30.01
1968	9.56	18.88	14.17	11.87	9.46	8.25	6.86	5.98	5.44	4.66	4.28	3.69	8.59
1969	3.72	3.67	9.99	13.46	19.17	17.29	14.20	12.26	11.07	9.45	8.67	7.48	10.87
1970	6.87	7.57	10.03	19.39	17.88	15.77	12.90	11.11	10.02	8.55	7.83	6.75	11.22
1971	6.07	9.25	34.16	31.43	23.19	18.92	14.92	12.48	11.02	9.26	8.39	7.18	15.52
1972	6.48	9.75	27.28	28.77	23.38	27.45	22.63	19.42	17.43	14.78	13.50	11.79	18.56
1973	20.98	39.59	50.82	51.38	43.90	37.37	30.12	25.65	22.94	19.44	17.74	15.25	31.27
1974	13.60	20.34	18.15	16.71	14.01	12.68	10.83	9.62	8.85	7.66	7.08	6.14	12.14
1975	20.68	57.27	71.01	70.12	51.11	40.12	30.54	24.84	21.45	17.72	15.88	13.48	36.19
1976	27.34	52.50	65.56	72.68	61.71	52.94	41.17	33.93	29.61	24.65	22.22	18.93	41.94
1977	18.32	28.32	37.55	39.17	31.02	26.78	22.09	19.14	17.33	14.81	13.59	11.73	23.32
1978	11.02	14.75	16.59	15.80	13.49	12.06	10.20	9.00	8.25	7.11	6.56	5.68	10.88
1979	5.16	7.40	7.93	7.86	6.39	5.57	4.62	4.02	3.65	3.12	2.87	2.47	5.09
1980	2.23	2.39	4.84	11.02	10.42	8.72	7.01	5.97	5.33	4.52	4.12	3.54	5.84
1981	3.19	12.78	14.40	15.81	13.07	11.26	9.29	8.04	7.28	6.23	5.72	4.93	9.33
1982	4.47	4.50	4.07	3.66	3.10	2.80	2.39	2.12	1.95	1.89	3.08	17.80	4.32
1983	44.48	73.30	85.14	109.22	120.42	123.78	120.43	101.21	87.06	64.98	53.52	42.61	85.51
1984	36.45	58.17	75.90	67.51	51.18	42.58	34.17	28.99	25.86	21.87	19.92	17.22	39.99
1985	15.59	17.09	18.89	21.80	18.37	16.31	13.69	12.00	10.96	9.42	8.67	7.51	14.19
1986	27.81	32.37	24.78	24.23	19.20	16.56	13.67	11.84	10.73	9.17	8.42	7.26	17.17
1987	8.27	41.45	49.10	64.48	56.43	44.33	33.55	27.21	23.41	19.28	17.23	14.60	33.28
1988	13.24	21.21	19.10	23.08	20.64	18.22	15.30	13.42	12.26	10.54	9.71	8.41	15.43
1989	27.51	56.54	61.02	61.00	45.64	36.61	28.41	23.48	20.54	17.13	15.45	13.18	33.88
1990	11.72	11.82	11.76	13.87	11.26	9.93	8.32	7.29	6.65	5.71	5.26	4.55	9.01
1991	4.35	5.76	10.50	9.86	7.88	6.68	5.42	4.64	4.16	3.53	3.23	2.78	5.73
1992	8.66	24.66	59.50	84.51	90.90	75.96	54.38	41.61	34.15	27.10	23.56	19.56	45.38
MAX	44.48	73.30	85.14	109.22	120.42	123.78	120.43	101.21	87.06	64.98	53.52	42.61	85.51
MEAN	14.66	25.56	32.19	35.23	30.86	27.04	22.22	18.67	16.44	13.56	12.16	10.84	21.62
MIN	2.23	2.39	4.07	3.66	3.10	2.80	2.39	2.12	1.95	1.89	2.87	2.47	4.32

Table 5.4.10 Estimated Long-term Runoff in m³/sec for Portoviejo River
(Confluent with Chico River)

YEAR	(Unit: m ³ /s)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	7.61	5.39	30.91	31.14	10.60	8.88	7.62	6.75	6.19	5.31	4.87	4.18	10.79
1965	3.74	4.41	33.66	26.89	21.13	10.74	8.35	7.38	6.76	5.80	5.32	4.58	11.56
1966	22.52	22.00	20.81	14.32	11.40	9.79	8.39	7.44	6.82	5.85	5.36	4.60	11.61
1967	46.86	75.14	35.68	14.36	11.18	9.89	8.49	7.53	6.90	5.92	5.42	4.65	19.34
1968	4.25	18.48	4.80	4.05	3.29	3.01	2.58	2.29	2.11	1.80	1.65	1.42	4.14
1969	1.92	1.48	12.87	13.80	20.74	9.56	6.99	6.18	5.66	4.86	4.45	3.82	7.69
1970	3.74	4.87	10.26	22.99	11.17	7.56	5.93	5.25	4.81	4.13	3.79	3.25	7.31
1971	2.96	8.89	49.36	17.18	7.71	6.97	5.93	5.26	4.82	4.13	3.79	3.25	10.02
1972	3.08	9.43	36.05	18.99	10.42	21.59	10.68	9.05	8.19	6.98	6.40	5.78	12.22
1973	21.57	40.79	49.03	34.01	23.25	16.09	12.90	11.43	10.47	8.99	8.23	7.07	20.32
1974	6.27	17.61	10.97	8.09	6.14	5.62	4.81	4.26	3.91	3.35	3.07	2.65	6.40
1975	28.20	72.04	68.50	45.32	16.72	12.97	10.91	9.67	8.87	7.61	6.97	5.99	24.48
1976	31.74	58.36	58.94	52.21	30.90	23.76	15.89	13.76	12.61	10.82	9.91	8.52	27.29
1977	10.11	25.75	35.62	24.90	12.22	10.92	9.32	8.26	7.57	6.50	5.95	5.11	13.52
1978	5.54	11.35	14.28	8.46	6.48	5.32	4.54	4.03	3.69	3.17	2.90	2.49	6.02
1979	2.33	6.09	6.25	4.80	2.70	2.29	1.95	1.73	1.59	1.36	1.25	1.07	2.78
1980	0.99	1.31	5.67	13.12	6.91	3.52	3.00	2.66	2.44	2.09	1.92	1.65	3.77
1981	1.51	16.65	13.63	12.23	6.38	5.05	4.33	3.84	3.52	3.02	2.77	2.37	6.28
1982	2.21	2.20	2.46	1.61	1.36	1.20	1.03	0.91	0.83	1.05	2.92	27.49	3.77
1983	57.79	74.75	78.00	94.67	96.36	83.00	79.57	47.13	38.17	21.77	19.62	16.85	58.97
1984	15.65	51.39	68.75	31.26	17.34	15.43	13.24	11.74	10.76	9.23	8.46	7.45	21.73
1985	6.99	9.54	15.25	15.89	8.17	6.88	5.80	5.14	4.71	4.04	3.71	3.19	7.44
1986	38.45	23.56	12.13	14.55	8.04	7.11	6.10	5.41	4.95	4.25	3.90	3.34	10.98
1987	6.56	58.30	43.36	56.48	31.91	14.65	11.95	10.71	9.71	8.33	7.64	6.56	22.18
1988	6.49	21.10	11.99	18.72	11.74	8.38	7.17	6.36	5.83	5.00	4.58	3.94	9.28
1989	34.75	60.04	49.67	38.18	16.46	12.79	10.79	9.56	8.76	7.52	6.89	5.91	21.78
1990	5.32	5.63	8.03	9.75	4.43	3.98	3.41	3.03	2.77	2.38	2.18	1.87	4.40
1991	2.09	4.12	11.36	4.90	3.00	2.41	2.03	1.80	1.65	1.41	1.29	1.11	3.10
1992	11.03	29.65	71.89	73.97	64.60	30.17	15.63	13.43	12.31	10.56	9.68	8.31	29.27
MAX	57.79	75.14	78.00	94.67	96.36	83.00	79.57	47.13	38.17	21.77	19.62	16.85	58.97
MEAN	13.53	25.53	30.01	25.06	16.65	12.40	9.98	8.00	7.15	5.77	5.34	4.66	13.74
MIN	0.99	1.31	2.46	1.61	1.36	1.20	1.03	0.91	0.83	1.05	2.92	27.49	2.78

Table 5.4.11 Estimated Long-term Runoff in m³/sec for Chico River
(Confluent with Portoviejo River)

YEAR	(Unit m ³ /s)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	2.99	2.57	13.69	11.99	4.67	4.09	3.51	3.11	2.85	2.44	2.24	1.92	4.67
1965	1.73	2.05	13.52	11.06	10.00	4.86	3.84	3.41	3.12	2.68	2.45	2.12	5.07
1966	12.79	11.60	10.16	7.15	5.92	4.92	4.22	3.74	3.43	2.94	2.69	2.31	5.99
1967	22.76	34.49	15.77	6.72	5.41	4.78	4.11	3.64	3.34	2.86	2.62	2.25	9.06
1968	2.05	11.76	2.71	2.21	1.81	1.66	1.42	1.26	1.17	0.99	0.91	0.78	2.39
1969	1.08	0.75	6.46	3.68	6.86	2.98	2.37	2.10	1.93	1.65	1.51	1.30	2.72
1970	1.27	1.63	3.70	8.99	4.37	3.01	2.31	2.05	1.88	1.61	1.48	1.27	2.80
1971	1.15	3.17	22.27	7.52	3.42	3.10	2.64	2.34	2.15	1.84	1.69	1.45	4.40
1972	1.32	3.47	17.25	9.43	5.03	9.31	4.51	3.94	3.60	3.06	2.81	2.58	5.53
1973	11.67	21.52	22.64	13.58	9.68	6.81	5.70	5.05	4.63	3.97	3.64	3.12	9.33
1974	2.77	8.45	4.92	3.59	2.76	2.54	2.17	1.93	1.76	1.51	1.39	1.20	2.92
1975	13.03	34.67	29.96	18.26	7.33	5.96	5.06	4.49	4.11	3.53	3.23	2.78	11.03
1976	14.52	26.70	28.97	25.61	15.39	10.11	7.31	6.41	5.88	5.04	4.62	3.97	12.88
1977	4.80	11.91	17.23	12.23	5.87	5.23	4.49	3.98	3.65	3.13	2.87	2.46	6.49
1978	2.52	5.22	5.47	3.53	2.61	2.23	1.91	1.70	1.55	1.33	1.22	1.05	2.53
1979	0.98	2.70	2.64	1.64	0.98	0.87	0.74	0.66	0.60	0.52	0.47	0.41	1.10
1980	0.37	0.58	2.65	6.46	2.65	1.51	1.29	1.15	1.05	0.90	0.83	0.71	1.68
1981	0.66	9.40	4.56	4.30	2.59	2.01	1.72	1.53	1.40	1.20	1.10	0.95	2.62
1982	0.89	0.89	1.01	0.63	0.53	0.48	0.41	0.36	0.33	0.47	1.48	12.16	1.64
1983	25.70	33.32	34.19	44.54	43.04	37.22	38.64	22.73	19.18	10.76	9.67	8.31	27.28
1984	7.94	31.38	35.63	16.08	8.76	7.76	6.66	5.90	5.41	4.64	4.25	3.73	11.51
1985	3.43	4.44	6.39	6.87	3.80	3.12	2.63	2.33	2.13	1.83	1.68	1.44	3.34
1986	18.30	9.62	4.39	5.91	3.15	2.84	2.44	2.16	1.98	1.70	1.56	1.34	4.62
1987	2.05	30.05	21.82	27.06	13.76	6.61	5.46	4.86	4.43	3.81	3.49	2.99	10.53
1988	2.84	8.78	4.21	7.51	4.51	3.27	2.80	2.48	2.27	1.95	1.79	1.54	3.66
1989	20.03	33.67	24.59	17.93	7.04	5.73	4.91	4.35	3.99	3.42	3.14	2.69	10.96
1990	2.40	2.54	3.75	5.09	2.10	1.90	1.63	1.44	1.32	1.14	1.04	0.89	2.10
1991	1.07	2.13	6.28	2.64	1.60	1.29	1.09	0.97	0.89	0.76	0.70	0.60	1.67
1992	5.94	17.46	40.74	43.48	38.68	17.11	7.98	6.81	6.24	5.36	4.91	4.21	16.58
MAX	25.70	34.67	40.74	44.54	43.04	37.22	38.64	22.73	19.18	10.76	9.67	12.16	27.28
MEAN	6.52	12.65	14.05	11.58	7.74	5.63	4.62	3.69	3.32	2.66	2.46	2.50	6.45
MIN	0.37	0.58	1.01	0.63	0.53	0.48	0.41	0.36	0.33	0.47	0.47	0.41	1.10

Table 5.4.12 Estimated Long-term Runoff in m³/sec
at Estuary of Portoviejo River

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	4.66	6.58	23.67	32.03	25.16	21.47	17.57	15.13	13.65	11.63	10.66	9.19	15.95
1965	8.23	8.61	24.25	30.81	30.82	26.01	20.63	17.35	15.37	12.94	11.76	10.08	18.07
1966	20.77	28.28	28.48	26.90	23.32	21.18	18.14	16.13	14.88	12.89	11.93	10.35	19.44
1967	34.71	68.86	58.76	45.67	34.10	28.00	22.22	18.69	16.57	13.95	12.67	10.85	30.42
1968	9.72	19.08	14.30	11.98	9.56	8.34	6.94	6.04	5.50	4.71	4.33	3.73	8.69
1969	3.86	3.71	10.11	13.49	19.20	17.31	14.22	12.28	11.09	9.47	8.68	7.49	10.91
1970	6.89	7.58	10.04	19.45	18.01	15.77	12.91	11.12	10.03	8.55	7.83	6.75	11.24
1971	6.07	9.29	35.94	31.57	23.28	19.00	14.99	12.55	11.08	9.31	8.44	7.22	15.73
1972	6.51	10.07	28.71	29.99	23.83	27.93	22.98	19.73	17.71	15.02	13.72	11.98	19.02
1973	21.36	40.42	51.21	51.65	44.11	37.55	30.28	25.79	23.07	19.55	17.84	15.34	31.51
1974	13.68	20.45	18.29	16.78	14.05	12.73	10.87	9.65	8.89	7.68	7.10	6.16	12.19
1975	21.18	62.07	74.17	71.75	52.31	41.22	31.48	25.68	22.22	18.38	16.49	14.00	37.58
1976	28.13	55.46	69.08	74.82	63.12	54.18	42.23	34.87	30.48	25.40	22.90	19.52	43.35
1977	18.87	29.09	39.40	40.21	31.57	27.28	22.53	19.52	17.68	15.11	13.87	11.97	23.93
1978	11.24	15.03	16.81	15.95	13.62	12.18	10.31	9.09	8.33	7.18	6.63	5.74	11.01
1979	5.21	7.66	7.98	7.90	6.42	5.59	4.64	4.04	3.67	3.14	2.88	2.49	5.14
1980	2.24	2.44	4.90	11.04	10.43	8.72	7.02	5.97	5.34	4.52	4.12	3.54	5.86
1981	3.20	13.19	14.43	15.81	13.08	11.26	9.29	8.05	7.28	6.23	5.72	4.94	9.37
1982	4.48	4.50	4.07	3.66	3.10	2.80	2.39	2.12	1.95	1.89	3.08	17.82	4.32
1983	47.15	77.44	88.71	113.58	130.24	132.19	129.24	104.98	90.31	67.68	55.99	44.73	90.19
1984	38.33	62.24	79.47	69.71	53.03	44.28	35.63	30.28	27.04	22.89	20.86	18.16	41.83
1985	16.34	17.85	19.45	22.31	18.82	16.72	14.04	12.31	11.24	9.66	8.90	7.70	14.61
1986	28.38	32.54	24.91	24.43	19.31	16.66	13.75	11.92	10.79	9.23	8.47	7.31	17.31
1987	8.31	42.78	50.43	65.11	56.88	44.71	33.88	27.51	23.68	19.51	17.45	14.79	33.75
1988	13.40	21.38	19.23	23.20	20.74	18.31	15.37	13.49	12.32	10.59	9.76	8.45	15.52
1989	27.61	58.99	62.93	61.87	46.32	37.22	28.94	23.95	20.97	17.50	15.79	13.47	34.63
1990	11.98	12.08	11.97	14.06	11.42	10.07	8.45	7.40	6.75	5.80	5.34	4.62	9.16
1991	4.41	5.83	10.55	9.90	7.92	6.72	5.45	4.66	4.18	3.55	3.25	2.79	5.77
1992	8.68	24.98	63.70	89.90	93.51	77.44	55.64	42.72	35.17	27.97	24.36	20.25	47.03
MAX	47.15	77.44	88.71	113.58	130.24	132.19	129.24	104.98	90.31	67.68	55.99	44.73	90.19
MEAN	15.02	26.50	33.31	36.05	31.63	27.68	22.83	19.07	16.80	13.86	12.44	11.08	22.19
MIN	2.24	2.44	4.07	3.66	3.10	2.80	2.39	2.12	1.95	1.89	2.88	2.49	4.32

Table 5.4.13 Estimated Long-term Runoff in m³/sec for Carrizal River
(Confluent with Chone River)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	31.94	44.10	101.34	105.04	38.56	18.38	8.66	3.80	1.68	0.70	0.31	0.13	29.55
1965	1.35	12.51	93.12	100.09	85.05	38.59	18.41	9.20	4.12	1.72	0.76	0.68	30.47
1966	49.83	79.45	83.66	62.13	42.13	22.72	12.38	5.88	3.09	1.19	0.52	0.36	30.28
1967	82.97	127.19	80.15	40.20	25.67	13.51	5.96	2.56	1.17	0.47	0.21	0.09	31.68
1968	1.22	47.83	22.71	22.95	10.72	5.24	2.19	0.94	0.59	0.18	0.08	0.03	9.56
1969	2.94	2.60	52.47	50.49	66.36	36.82	18.36	9.29	4.15	1.72	0.80	0.32	20.53
1970	2.79	7.10	24.79	73.34	61.06	27.45	15.78	7.88	3.51	1.46	0.65	0.34	18.85
1971	1.35	29.27	126.02	67.31	25.85	14.05	6.46	2.78	1.31	0.52	0.23	0.11	22.94
1972	1.11	51.97	88.11	73.63	38.85	77.54	47.06	28.21	15.04	6.51	2.89	5.11	36.34
1973	67.85	51.46	91.64	74.10	65.61	30.84	16.00	7.83	3.51	1.45	0.65	0.29	34.27
1974	0.31	28.32	23.87	23.76	13.67	7.24	3.10	1.33	0.59	0.24	0.12	0.40	8.58
1975	46.39	139.43	152.27	100.19	39.90	20.09	10.30	4.69	2.17	1.03	0.39	1.50	43.20
1976	79.09	81.71	104.45	84.15	52.25	31.28	16.04	7.75	3.48	1.44	0.64	0.31	38.55
1977	28.31	83.44	115.57	68.79	26.04	13.15	5.78	2.47	1.12	0.45	0.20	0.10	28.79
1978	5.07	36.27	61.81	35.27	34.55	16.09	7.57	3.27	1.45	0.60	0.26	0.11	16.86
1979	5.54	24.54	27.26	36.22	33.36	18.39	9.22	4.04	1.79	0.74	0.33	0.14	13.46
1980	0.83	17.10	40.55	63.58	27.83	13.93	6.28	2.69	1.19	0.50	0.22	0.16	14.57
1981	1.06	59.83	69.75	76.76	25.02	12.43	5.61	2.35	1.05	0.43	0.19	0.13	21.22
1982	0.95	7.68	16.41	24.73	12.33	6.76	2.92	1.25	0.56	2.62	23.65	78.29	14.85
1983	135.99	159.58	176.29	167.83	156.89	138.07	144.29	96.76	68.12	26.64	14.98	10.39	107.99
1984	4.95	78.89	103.92	93.19	40.18	18.99	9.44	4.11	1.82	0.76	0.33	0.85	29.79
1985	3.06	20.55	41.46	40.75	17.40	9.31	4.02	1.72	0.76	0.31	0.14	0.50	11.67
1986	33.38	50.86	55.66	78.33	29.68	15.74	7.31	3.17	1.40	0.69	0.26	0.27	23.06
1987	17.45	138.57	154.82	161.49	98.74	41.04	19.35	11.58	5.80	2.44	1.08	0.83	54.43
1988	12.12	82.76	49.58	48.88	43.26	22.22	12.07	5.66	2.51	1.07	0.47	0.30	23.41
1989	39.61	99.05	73.93	91.94	40.57	22.57	12.01	5.55	2.53	1.04	0.45	0.33	32.47
1990	1.03	8.72	15.09	19.17	9.39	4.59	1.91	0.82	0.36	0.15	0.06	0.03	5.11
1991	1.33	22.60	47.07	35.55	15.96	10.01	4.36	1.87	0.83	0.34	0.15	0.08	11.68
1992	1.86	13.55	63.27	81.69	47.70	24.09	12.87	6.00	2.69	1.12	0.49	0.28	21.30
MAX	135.99	159.58	176.29	167.83	156.89	138.07	144.29	96.76	68.12	26.64	23.65	78.29	107.99
MEAN	22.82	55.41	74.38	69.02	42.23	25.21	15.37	8.46	4.77	2.02	1.78	3.53	27.08
MIN	0.31	2.60	15.09	19.17	9.39	4.59	1.91	0.82	0.36	0.15	0.06	0.03	5.11

Table 5.4.14 Estimated Long-term Runoff in m³/sec for Chone River
(Confluent with Carrizal River)

YEAR	(Unit m ³ /s)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	50.24	39.16	56.30	66.93	14.73	5.26	3.79	3.08	2.60	2.06	1.74	1.38	20.61
1965	1.65	6.36	37.11	53.22	19.82	5.87	2.06	1.06	0.84	0.67	0.56	0.45	10.81
1966	13.02	51.59	52.85	25.90	8.00	2.83	1.69	1.41	1.20	0.94	0.78	0.63	13.40
1967	26.99	70.03	25.04	6.46	3.37	1.64	1.29	1.05	0.90	0.70	0.59	0.47	11.54
1968	0.83	5.03	3.53	2.65	0.24	0.19	0.14	0.11	0.09	0.08	0.06	0.05	1.08
1969	0.66	0.44	13.58	16.05	9.37	10.57	4.19	1.08	0.90	0.71	0.60	0.48	4.89
1970	2.12	3.16	17.61	51.11	16.97	2.86	0.94	0.72	0.61	0.48	0.41	0.33	8.11
1971	0.41	12.32	82.58	26.20	2.71	1.02	0.71	0.58	0.49	0.39	0.33	0.26	10.67
1972	0.25	22.32	39.33	20.70	4.15	33.97	9.17	6.27	1.58	1.21	1.02	3.63	11.97
1973	30.29	21.42	46.48	33.23	19.66	3.52	1.82	1.29	1.09	0.86	0.72	0.58	13.41
1974	0.74	50.34	10.99	16.05	1.95	0.85	0.61	0.50	0.42	0.33	0.28	0.36	6.95
1975	38.07	80.44	95.21	57.86	9.48	3.34	1.63	1.23	1.04	0.82	0.69	0.62	24.20
1976	40.61	51.61	52.07	45.30	25.34	25.96	3.43	1.63	1.37	1.08	0.92	0.76	20.84
1977	27.54	78.55	66.32	33.69	2.96	1.54	0.94	0.77	0.65	0.51	0.43	0.35	17.85
1978	6.38	32.96	30.14	6.75	2.69	0.83	0.65	0.53	0.45	0.36	0.30	0.24	6.86
1979	1.91	22.52	10.24	4.12	0.66	0.82	0.34	0.28	0.24	0.19	0.16	0.13	3.47
1980	1.25	16.00	41.75	30.20	8.14	1.03	0.65	0.53	0.45	0.36	0.30	0.24	8.41
1981	2.20	28.12	31.01	30.27	2.22	0.78	0.62	0.50	0.43	0.33	0.28	0.23	8.08
1982	1.52	1.29	5.91	2.47	0.60	0.11	0.08	0.06	0.05	3.76	15.72	45.21	6.40
1983	84.50	116.77	112.95	81.94	122.10	94.52	71.05	33.09	16.92	2.84	1.92	1.75	61.70
1984	1.35	30.91	61.23	45.57	7.73	2.19	1.23	0.99	0.84	0.66	0.56	1.08	12.86
1985	4.11	21.94	18.55	10.09	1.95	0.77	0.58	0.47	0.40	0.32	0.27	0.36	4.98
1986	25.47	14.83	17.16	28.44	3.62	1.05	0.81	0.67	0.56	0.45	0.38	0.44	7.82
1987	9.83	95.72	80.42	92.34	39.19	5.91	1.59	1.61	0.98	0.76	0.64	0.58	27.46
1988	4.72	25.78	7.01	6.98	2.85	0.85	0.52	0.42	0.35	0.28	0.23	0.19	4.18
1989	12.07	59.06	30.19	32.72	7.78	2.07	1.15	0.92	0.78	0.62	0.52	0.42	12.36
1990	1.29	8.18	16.27	22.94	1.88	0.62	0.46	0.38	0.32	0.25	0.21	0.17	4.41
1991	0.60	14.63	10.25	3.08	0.44	0.32	0.24	0.20	0.17	0.13	0.11	0.09	2.52
1992	4.98	16.53	31.56	39.63	25.10	3.75	1.43	1.06	0.89	0.71	0.60	0.47	10.56
MAX	84.50	116.77	112.95	92.34	122.10	94.52	71.05	33.09	16.92	3.76	15.72	45.21	61.70
MEAN	13.64	34.41	38.06	30.79	12.61	7.42	3.92	2.15	1.30	0.79	1.08	2.14	12.36
MIN	0.25	0.44	3.53	2.47	0.24	0.11	0.08	0.06	0.05	0.08	0.06	0.05	1.08

Table 5.4.15 Estimated Long-term Runoff in m³/sec at Estuary of Chone River

YEAR	(Unit: m ³ /s)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
1964	68.76	90.97	138.94	166.69	98.91	58.40	33.24	20.23	13.46	8.98	6.82	5.11	59.21
1965	5.35	16.66	94.90	141.73	117.70	76.28	43.54	25.33	15.02	8.54	5.44	3.70	46.18
1966	40.82	102.21	134.43	110.31	73.66	47.71	29.05	17.92	11.68	7.20	4.98	3.52	48.62
1967	70.89	167.01	122.21	79.69	51.33	31.90	18.48	11.09	7.18	4.59	3.34	2.42	47.51
1968	3.05	43.71	31.56	29.78	18.38	11.73	6.62	3.86	2.51	1.52	1.05	0.73	12.88
1969	2.70	3.24	44.55	61.48	70.59	58.51	37.36	22.49	13.55	7.72	4.92	3.11	27.52
1970	5.58	9.60	33.84	108.78	87.77	53.81	32.25	19.44	11.75	6.72	4.29	2.78	31.38
1971	2.78	30.67	150.67	115.11	62.30	36.28	19.58	10.93	6.54	3.85	2.59	1.77	36.92
1972	2.01	50.39	104.96	102.56	64.98	99.73	72.88	51.71	33.43	19.37	11.94	11.23	52.10
1973	71.18	84.41	122.53	119.02	100.40	63.43	37.56	22.61	13.98	8.33	5.60	3.78	54.40
1974	3.18	59.11	42.34	43.15	26.67	17.03	9.81	5.87	3.78	2.41	1.77	1.58	18.06
1975	64.69	189.66	237.57	196.34	103.09	58.35	31.70	17.92	10.84	6.54	4.44	3.87	77.08
1976	82.21	119.79	143.07	141.01	103.60	79.00	44.32	25.38	15.21	8.90	5.92	4.02	64.37
1977	37.64	127.73	165.08	132.55	68.11	40.02	20.70	11.54	7.02	4.28	2.97	2.10	51.65
1978	9.97	52.02	76.71	56.72	45.54	30.46	18.07	10.66	6.55	3.94	2.67	1.82	26.26
1979	5.97	40.32	36.33	39.82	36.77	28.03	17.79	10.76	6.58	3.84	2.51	1.64	19.20
1980	2.37	22.98	65.24	82.63	54.63	32.45	17.79	9.98	5.92	3.46	2.32	1.60	25.11
1981	3.60	60.29	89.52	103.40	55.79	32.25	17.36	9.63	5.80	3.36	2.27	1.58	32.07
1982	2.68	6.94	19.36	24.21	17.50	11.99	7.00	4.05	2.44	5.13	26.94	85.87	17.84
1983	177.01	255.24	292.24	295.25	309.96	274.93	249.58	178.57	128.14	69.39	41.70	25.92	191.49
1984	17.34	87.50	140.97	145.01	86.01	50.42	27.98	16.07	9.84	5.97	4.13	3.69	49.58
1985	8.07	37.21	59.01	58.17	34.32	21.35	12.14	7.15	4.52	2.83	2.02	1.81	20.72
1986	36.55	56.45	65.22	92.15	56.96	35.11	19.81	11.39	6.91	4.19	2.84	2.11	32.47
1987	21.28	168.84	220.27	252.01	181.58	104.67	54.83	31.69	18.97	10.73	6.74	4.57	89.68
1988	13.62	74.84	67.07	63.14	53.08	37.39	23.60	14.48	8.93	5.25	3.44	2.31	30.60
1989	32.96	112.83	108.16	121.56	77.15	48.43	28.36	16.77	10.28	6.09	4.07	2.82	47.46
1990	3.45	13.71	26.32	37.00	21.58	12.81	7.05	4.11	2.61	1.66	1.21	0.89	11.03
1991	2.03	25.20	46.24	42.98	26.93	18.15	10.53	6.10	3.68	2.15	1.44	0.97	15.53
1992	6.04	28.48	77.48	108.50	85.93	53.55	30.81	17.98	10.87	6.36	4.21	2.86	36.09
MAX	177.01	255.24	292.24	295.25	309.96	274.93	249.58	178.57	128.14	69.39	41.70	85.87	191.49
MEAN	27.72	73.72	101.96	105.89	75.56	52.56	33.79	21.23	13.72	8.04	6.02	6.56	43.98
MIN	2.01	3.24	19.36	24.21	17.50	11.73	6.62	3.86	2.44	1.52	1.05	0.73	11.03

Table 5.4.16 Estimated Long-term Runoff in MCM for Chico River in Alajuela

(Unit : MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	3.86	2.81	17.68	17.50	5.38	3.99	3.54	3.13	2.77	2.46	2.18	1.93	67.22
1965	1.79	2.52	23.70	19.62	20.20	6.89	4.53	4.02	3.55	3.16	2.80	2.52	95.30
1966	26.33	19.40	16.58	9.75	8.09	5.91	5.20	4.61	4.10	3.62	3.21	2.84	109.62
1967	39.45	43.71	25.23	8.89	6.51	5.11	4.53	4.02	3.58	3.16	2.80	2.49	149.48
1968	2.30	22.12	6.05	3.50	2.76	2.41	2.14	1.90	1.76	1.50	1.32	1.18	48.96
1969	1.45	1.04	13.15	7.88	13.93	5.24	3.91	3.48	3.08	2.73	2.41	2.14	60.44
1970	2.20	2.98	8.12	17.18	7.98	5.44	3.94	3.48	3.08	2.73	2.44	2.17	61.74
1971	1.98	5.71	30.88	13.06	4.71	3.89	3.37	3.00	2.64	2.36	2.07	1.85	75.54
1972	1.71	3.81	22.04	12.00	7.50	14.83	6.40	5.28	4.69	4.04	3.58	3.96	89.85
1973	19.58	27.65	36.85	24.11	17.81	9.23	7.07	6.27	5.55	4.93	4.35	3.86	167.25
1974	3.43	14.76	9.05	5.31	3.94	3.53	3.11	2.76	2.44	2.17	1.92	1.71	54.12
1975	20.95	38.59	38.78	26.98	10.61	6.48	5.46	4.85	4.30	3.80	3.37	3.00	167.17
1976	22.77	33.95	39.96	37.66	26.86	16.10	8.49	6.88	6.09	5.41	4.80	4.26	213.23
1977	7.66	18.10	25.02	17.94	7.23	5.70	5.04	4.47	3.97	3.51	3.11	2.79	104.52
1978	3.56	8.39	9.96	5.52	4.42	3.42	3.03	2.71	2.38	2.12	1.87	1.66	49.04
1979	1.63	3.80	6.00	4.10	2.44	2.02	1.79	1.58	1.40	1.23	1.11	0.99	28.10
1980	0.88	1.25	6.08	14.39	7.18	3.06	2.65	2.33	2.07	1.85	1.63	1.45	44.82
1981	1.34	16.18	10.42	9.72	6.08	3.78	3.35	2.95	2.62	2.33	2.07	1.82	62.66
1982	1.85	1.77	2.89	1.35	1.12	0.96	0.83	0.75	0.67	1.34	3.65	23.57	40.76
1983	33.75	40.76	45.13	55.21	49.12	37.32	41.14	29.27	26.62	11.60	8.97	7.95	386.85
1984	9.70	39.31	48.00	24.91	10.55	7.88	6.96	6.19	5.47	4.85	4.30	3.86	171.97
1985	3.64	5.30	11.41	13.43	6.13	4.61	3.86	3.40	3.03	2.68	2.38	2.12	61.99
1986	27.94	16.86	6.94	9.15	4.58	3.89	3.46	3.05	2.72	2.41	2.13	1.90	85.02
1987	5.06	36.00	29.65	40.85	25.77	9.12	6.11	5.46	4.77	4.23	3.76	3.35	174.13
1988	3.59	16.06	8.12	14.52	9.08	5.31	4.63	4.12	3.65	3.24	2.88	2.54	77.75
1989	34.04	41.76	33.72	28.62	10.95	6.35	5.49	4.87	4.33	3.83	3.40	3.00	180.36
1990	2.73	2.66	7.29	11.25	3.72	3.03	2.68	2.38	2.10	1.87	1.66	1.47	42.85
1991	2.12	4.39	15.24	6.87	4.07	2.90	2.49	2.20	1.94	1.74	1.53	1.37	46.65
1992	14.20	28.21	53.94	53.19	52.01	27.45	10.31	7.04	6.22	5.52	4.90	4.34	267.34
MAX	39.45	43.71	53.94	55.21	52.01	37.32	41.14	29.27	26.62	11.60	8.97	23.57	386.85
MEAN	10.40	17.33	20.96	17.74	11.75	7.44	5.71	4.71	4.19	3.32	2.99	3.38	109.82
MIN	0.88	1.04	2.89	1.35	1.12	0.96	0.83	0.75	0.67	1.23	1.11	0.99	28.10

Table 5.4.17 Estimated Long-term Runoff in MCM for Grande River in A. J. Mosquito

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	34.79	24.08	41.01	50.05	10.93	3.34	2.52	2.06	1.68	1.37	1.11	0.91	173.86
1965	1.12	4.06	26.94	37.90	15.29	4.69	1.77	0.78	0.57	0.46	0.39	0.32	94.29
1966	11.52	37.05	37.87	18.25	6.03	2.05	1.18	0.99	0.83	0.67	0.52	0.46	117.42
1967	22.42	46.71	19.50	4.92	2.12	1.09	0.88	0.72	0.60	0.48	0.39	0.32	100.16
1968	0.56	1.70	2.01	1.53	0.16	0.10	0.08	0.08	0.05	0.05	0.03	0.03	6.39
1969	0.64	0.36	10.18	11.59	7.07	8.97	4.02	0.86	0.67	0.56	0.47	0.37	45.76
1970	1.45	2.15	13.07	33.54	11.87	2.13	0.87	0.51	0.41	0.35	0.29	0.24	66.67
1971	0.32	7.98	53.00	20.92	2.52	0.67	0.51	0.40	0.34	0.27	0.23	0.19	97.35
1972	0.16	16.05	28.66	14.45	3.32	25.74	7.98	6.13	1.17	0.94	0.75	3.62	108.99
1973	22.36	12.36	34.34	24.29	15.21	2.70	1.34	0.91	0.75	0.62	0.49	0.40	115.77
1974	0.51	34.59	8.17	12.80	1.61	0.62	0.43	0.35	0.29	0.24	0.18	0.29	60.09
1975	26.84	49.06	67.36	41.08	7.47	2.72	1.18	0.88	0.73	0.59	0.47	0.46	198.84
1976	30.94	37.58	41.11	34.71	20.57	22.08	3.11	1.12	0.91	0.75	0.62	0.54	194.04
1977	23.89	54.24	50.03	24.55	2.33	0.86	0.64	0.51	0.41	0.35	0.29	0.24	158.33
1978	4.71	22.72	23.60	5.75	2.68	0.62	0.48	0.40	0.31	0.27	0.21	0.19	61.94
1979	1.53	13.89	7.98	3.32	0.54	0.73	0.27	0.21	0.18	0.13	0.13	0.11	29.01
1980	1.18	12.68	31.82	24.34	6.94	0.80	0.48	0.40	0.31	0.27	0.21	0.19	79.61
1981	1.61	19.35	22.47	22.68	1.87	0.52	0.43	0.35	0.29	0.24	0.18	0.16	70.15
1982	1.29	1.09	3.72	1.74	0.51	0.08	0.05	0.05	0.03	4.12	13.66	37.90	64.24
1983	66.13	82.71	82.71	53.34	86.78	68.27	51.64	25.12	12.73	2.06	1.24	1.26	534.00
1984	0.83	19.27	46.34	34.27	5.95	1.48	0.86	0.70	0.57	0.46	0.39	0.39	112.08
1985	2.73	13.86	11.17	5.73	1.10	0.47	0.37	0.32	0.26	0.21	0.18	0.27	36.68
1986	24.80	12.72	15.51	24.83	3.62	0.73	0.59	0.48	0.39	0.32	0.26	0.40	84.65
1987	6.80	65.29	57.88	67.99	30.16	3.86	1.02	1.18	0.62	0.51	0.41	0.37	236.10
1988	3.67	19.27	3.91	4.51	2.12	0.54	0.35	0.27	0.23	0.19	0.16	0.13	35.34
1989	11.14	43.59	23.06	25.61	6.70	1.56	0.83	0.67	0.54	0.46	0.36	0.29	114.81
1990	0.96	5.83	13.04	19.03	1.55	0.44	0.35	0.27	0.23	0.19	0.16	0.13	42.18
1991	0.37	10.86	7.42	1.97	0.29	0.23	0.19	0.16	0.13	0.11	0.08	0.08	21.90
1992	3.72	10.05	21.61	28.95	20.54	2.75	0.96	0.72	0.60	0.48	0.39	0.32	91.10
MAX	66.13	82.71	82.71	67.99	86.78	68.27	51.64	25.12	12.73	4.12	13.66	37.90	534.00
MEAN	10.66	23.49	28.12	22.57	9.58	5.55	2.94	1.64	0.93	0.61	0.84	1.76	108.68
MIN	0.16	0.36	2.01	1.53	0.16	0.08	0.05	0.05	0.03	0.05	0.03	0.03	6.39

Table 5.4.18 Estimated Long-term Runoff in MCM for Carrizal River in Calcutta

(Unit : MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	67.92	68.30	140.03	128.20	49.04	22.01	10.79	4.74	2.05	0.88	0.36	0.16	494.49
1965	2.54	26.39	137.51	134.19	136.06	57.57	23.25	11.60	5.00	2.14	0.93	1.50	538.69
1966	100.17	103.95	112.81	82.71	62.92	29.42	17.68	8.68	4.74	1.79	0.78	0.72	526.38
1967	141.74	173.19	124.63	61.07	41.84	19.83	9.54	4.10	1.76	0.75	0.31	0.13	578.88
1968	3.62	114.46	59.30	40.64	18.80	9.20	3.99	1.71	1.43	0.32	0.13	0.05	253.68
1969	5.49	7.31	98.22	78.67	113.32	50.23	22.71	11.44	4.95	2.14	1.01	0.40	395.89
1970	5.33	12.14	37.36	83.38	92.14	36.88	23.03	11.87	5.13	2.20	0.96	0.64	311.07
1971	3.91	49.47	164.13	86.00	34.58	17.76	8.57	3.70	1.79	0.67	0.29	0.19	371.05
1972	2.81	85.47	144.02	109.02	63.80	111.09	77.70	40.26	19.75	9.05	3.89	8.04	674.89
1973	113.72	62.15	134.46	107.13	101.54	46.89	22.20	11.20	4.87	2.09	0.91	0.46	607.61
1974	0.43	25.26	31.95	25.25	16.69	8.58	3.80	1.63	0.70	0.29	0.13	0.51	115.22
1975	60.02	176.75	189.74	110.26	46.93	22.03	11.30	5.09	2.44	1.39	0.41	3.21	629.58
1976	150.12	118.04	118.63	90.20	57.83	25.82	13.37	5.81	2.49	1.07	0.47	0.24	584.08
1977	37.10	94.74	162.85	86.31	36.40	16.67	7.61	3.24	1.43	0.59	0.26	0.13	447.31
1978	6.99	39.14	88.82	54.54	59.86	23.22	11.92	5.17	2.23	0.94	0.41	0.19	293.43
1979	15.56	35.95	44.41	61.79	65.09	29.21	15.45	7.04	3.03	1.29	0.54	0.24	279.61
1980	1.79	28.16	44.30	82.76	35.19	16.64	7.71	3.29	1.43	0.62	0.26	0.24	222.41
1981	1.98	95.46	103.25	105.62	35.97	16.28	8.17	3.43	1.48	0.64	0.26	0.37	372.92
1982	2.38	17.81	36.19	40.33	19.36	10.34	4.71	2.01	0.88	4.77	47.85	122.88	309.52
1983	175.49	171.93	241.14	226.90	193.49	156.32	171.39	128.24	89.89	36.32	19.44	14.81	1625.37
1984	7.50	116.13	138.47	134.03	66.48	26.02	13.82	6.11	2.62	1.12	0.47	0.78	513.55
1985	3.11	21.72	65.54	61.43	23.52	12.67	5.84	2.49	1.06	0.46	0.21	1.23	199.28
1986	63.77	68.66	68.08	106.92	38.01	18.20	8.41	3.62	1.56	0.88	0.29	0.29	378.68
1987	29.41	184.17	222.63	223.79	147.58	56.79	23.81	14.78	7.18	3.08	1.32	0.99	915.54
1988	24.45	138.96	79.47	75.76	79.25	34.29	19.02	9.29	3.99	1.77	0.78	0.59	467.63
1989	82.66	132.98	90.61	124.18	53.73	26.75	14.17	6.24	2.75	1.15	0.49	0.40	536.11
1990	1.37	13.31	20.33	22.08	10.95	4.95	2.12	0.91	0.39	0.16	0.08	0.03	76.67
1991	3.46	43.69	89.30	65.03	27.45	19.13	9.05	3.91	1.68	0.72	0.31	0.19	263.93
1992	2.01	13.43	92.51	117.78	68.81	31.31	16.47	7.50	3.24	1.39	0.60	0.37	355.43
MAX	175.49	184.17	241.14	226.90	193.49	156.32	171.39	128.24	89.89	36.32	47.85	112.88	1625.37
MEAN	38.51	77.21	106.23	94.00	61.95	32.97	20.26	11.35	6.27	2.78	2.90	5.52	459.96
MIN	0.43	7.31	20.33	22.08	10.95	4.95	2.12	0.91	0.39	0.16	0.08	0.03	76.67

Table 5.4.19 Estimated Long-term Runoff in MCM at Proposed La Esperanza Dam site

(Unit : MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	57.77	58.10	119.14	109.10	41.73	18.74	9.19	4.04	1.74	0.75	0.31	0.13	420.74
1965	2.17	22.45	116.99	114.18	115.76	48.99	19.77	9.86	4.28	1.82	0.78	1.29	458.32
1966	85.25	88.45	95.99	70.37	53.54	25.04	15.05	7.39	4.04	1.53	0.65	0.62	447.93
1967	120.61	147.35	106.04	51.94	35.60	16.87	8.12	3.48	1.50	0.64	0.29	0.13	492.58
1968	3.08	97.39	50.46	34.58	15.99	7.83	3.40	1.45	1.22	0.27	0.10	0.05	215.82
1969	4.69	6.22	83.57	66.93	96.42	42.74	19.31	9.72	4.20	1.82	0.86	0.35	336.82
1970	4.53	10.33	31.79	70.97	78.40	31.39	19.61	10.10	4.38	1.87	0.80	0.54	264.70
1971	3.32	42.09	139.65	73.17	29.41	15.11	7.29	3.13	1.53	0.59	0.26	0.16	315.72
1972	2.38	72.74	122.54	92.77	54.29	94.53	66.10	34.26	16.82	7.71	3.32	6.83	574.29
1973	96.77	52.86	114.39	91.16	86.41	39.92	18.88	9.54	4.15	1.77	0.75	0.37	516.97
1974	0.37	21.48	27.19	21.46	14.20	7.31	3.21	1.39	0.60	0.27	0.10	0.43	98.01
1975	51.08	150.38	161.43	93.83	39.93	18.74	9.62	4.34	2.07	1.18	0.36	2.73	535.69
1976	127.73	100.45	100.95	76.75	49.20	21.95	11.36	4.96	2.13	0.91	0.39	0.21	496.99
1977	31.55	80.61	138.55	73.43	30.99	14.18	6.45	2.76	1.22	0.51	0.21	0.13	380.59
1978	5.95	33.31	75.56	46.42	50.94	19.78	10.15	4.39	1.89	0.80	0.34	0.16	249.70
1979	13.23	30.60	37.79	52.57	55.36	24.86	13.15	6.00	2.57	1.10	0.47	0.19	237.88
1980	1.53	23.95	37.71	70.42	29.94	14.15	6.56	2.81	1.22	0.51	0.23	0.21	189.26
1981	1.69	81.24	87.85	89.86	30.59	13.84	6.94	2.92	1.24	0.54	0.23	0.32	317.26
1982	2.04	15.14	30.77	34.32	16.47	8.79	3.99	1.71	0.75	4.04	40.72	104.56	263.32
1983	149.32	146.29	205.19	193.05	164.64	133.00	145.84	109.12	76.49	30.91	16.54	12.59	1,382.97
1984	6.37	98.82	117.82	114.05	56.54	22.14	11.76	5.20	2.23	0.96	0.41	0.67	436.97
1985	2.65	18.48	55.76	52.28	20.01	10.78	4.96	2.12	0.91	0.40	0.18	1.07	169.60
1986	54.26	58.42	57.93	90.95	32.36	15.47	7.15	3.08	1.32	0.75	0.23	0.27	322.21
1987	25.02	156.72	189.42	190.41	125.56	48.31	20.28	12.59	6.09	2.62	1.14	0.83	778.99
1988	20.81	118.24	67.60	64.46	67.42	29.19	16.18	7.90	3.40	1.50	0.65	0.48	397.82
1989	70.33	113.15	77.11	105.65	45.72	22.76	12.05	5.30	2.33	0.99	0.41	0.35	456.16
1990	1.18	11.32	17.30	18.79	9.32	4.20	1.79	0.78	0.34	0.13	0.05	0.03	65.24
1991	2.95	37.16	75.99	55.34	23.36	16.28	7.71	3.35	1.43	0.62	0.26	0.16	224.59
1992	1.71	11.43	78.72	100.21	58.55	26.62	14.01	6.37	2.75	1.18	0.52	0.32	302.38
MAX.	149.32	156.72	205.19	193.05	164.64	133.00	145.84	109.12	76.49	30.91	40.72	104.56	1,382.97
MEAN	32.77	65.70	90.39	79.98	52.71	28.05	17.24	9.66	5.34	2.37	2.47	4.70	391.36
MIN.	0.37	6.22	17.30	18.79	9.32	4.20	1.79	0.78	0.34	0.13	0.05	0.03	65.24

Table 5.4.20 Estimated Long-term Runoff in MCM
at Poza Honda Dam site

(Unit: MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	3.59	2.61	16.42	16.25	5.01	3.71	3.29	2.92	2.59	2.30	2.02	1.79	62.51
1965	1.66	2.32	22.02	18.22	18.78	6.40	4.21	3.72	3.29	2.92	2.59	2.36	88.49
1966	24.45	18.02	15.40	9.05	7.53	5.47	4.82	4.29	3.81	3.35	2.98	2.65	101.82
1967	36.67	40.62	23.44	8.27	6.05	4.74	4.21	3.72	3.32	2.95	2.62	2.30	138.90
1968	2.14	20.55	5.62	3.27	2.54	2.26	1.98	1.77	1.63	1.39	1.24	1.10	45.50
1969	1.34	0.97	12.21	7.31	12.94	4.87	3.64	3.21	2.85	2.54	2.26	1.98	56.13
1970	2.04	2.76	7.53	15.97	7.39	5.05	3.67	3.24	2.88	2.54	2.26	2.01	57.33
1971	1.85	5.32	28.69	12.13	4.39	3.60	3.13	2.79	2.46	2.20	1.94	1.71	70.22
1972	1.61	3.53	20.49	11.15	6.96	13.76	5.95	4.90	4.35	3.75	3.32	3.70	83.47
1973	18.19	25.67	34.26	22.39	16.53	8.58	6.59	5.81	5.16	4.58	4.04	3.59	155.38
1974	3.19	13.69	8.41	4.92	3.67	3.27	2.87	2.54	2.26	2.01	1.79	1.58	50.19
1975	19.47	35.83	36.02	25.06	9.86	6.01	5.09	4.50	3.99	3.54	3.14	2.79	155.30
1976	21.16	31.55	37.12	34.97	24.96	14.96	7.87	6.40	5.65	5.01	4.46	3.96	198.07
1977	7.12	16.81	23.25	16.67	6.70	5.31	4.69	4.15	3.68	3.27	2.90	2.57	97.12
1978	3.32	7.81	9.27	5.13	4.10	3.19	2.81	2.49	2.23	1.96	1.74	1.55	45.60
1979	1.50	3.53	5.57	3.81	2.25	1.89	1.66	1.47	1.30	1.15	1.04	0.91	26.08
1980	0.83	1.15	5.65	13.35	6.67	2.85	2.46	2.17	1.92	1.71	1.53	1.34	41.64
1981	1.26	15.02	9.70	9.05	5.65	3.50	3.11	2.76	2.44	2.17	1.92	1.69	58.25
1982	1.71	1.65	2.68	1.24	1.04	0.88	0.78	0.70	0.62	1.26	3.40	21.88	37.84
1983	31.36	37.86	41.92	51.30	45.61	34.68	38.22	27.19	24.73	10.77	8.32	7.39	359.35
1984	9.03	36.53	44.57	23.15	9.80	7.31	6.48	5.73	5.08	4.50	3.99	3.59	159.76
1985	3.37	4.91	10.61	12.47	5.70	4.28	3.56	3.16	2.80	2.49	2.20	1.98	57.54
1986	25.95	15.68	6.43	8.50	4.26	3.60	3.21	2.84	2.51	2.22	1.97	1.77	78.95
1987	4.71	33.43	27.53	37.95	23.92	8.48	5.68	5.09	4.43	3.94	3.47	3.11	161.74
1988	3.35	14.91	7.55	13.50	8.44	4.92	4.31	3.83	3.40	3.00	2.67	2.36	72.24
1989	31.63	38.78	31.31	26.57	10.18	5.88	5.09	4.53	4.02	3.56	3.16	2.79	167.50
1990	2.54	2.47	6.78	10.45	3.46	2.80	2.49	2.22	1.97	1.74	1.53	1.37	39.81
1991	1.98	3.89	14.17	6.38	3.78	2.70	2.30	2.04	1.81	1.61	1.43	1.26	43.34
1992	13.18	26.21	50.11	49.40	48.32	25.48	9.59	6.54	5.78	5.12	4.54	4.02	248.27
MAX	36.67	40.62	50.11	51.30	48.32	34.68	38.22	27.19	24.73	10.77	8.32	21.88	359.35
MEAN	9.66	16.00	19.47	16.48	10.91	6.91	5.50	4.37	3.90	3.09	2.77	3.14	102.01
MIN	0.83	0.97	2.68	1.24	1.04	0.88	0.78	0.70	0.62	1.15	1.04	0.91	26.08

Table 5.4.21 Estimated Long-term Runoff in MCM at Santa Ana New Diversion Dam Site

(Unit : MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	9.78	6.39	41.41	43.10	13.50	10.13	8.97	7.95	7.05	6.27	5.55	4.93	165.03
1965	4.47	5.32	52.90	42.53	36.72	14.70	10.87	9.62	8.53	7.55	6.71	5.97	205.90
1966	43.34	35.56	32.17	19.47	16.02	12.83	11.36	10.04	8.94	7.90	7.02	6.21	210.86
1967	75.45	95.97	55.23	19.67	14.54	11.98	10.61	9.40	8.35	7.39	6.56	5.81	320.96
1968	5.36	33.32	8.81	6.45	5.36	4.74	4.21	3.72	3.34	2.92	2.59	2.30	83.13
1969	2.84	2.15	23.17	20.94	32.54	13.40	9.78	8.62	7.65	6.78	6.01	5.33	139.21
1970	5.41	6.89	16.47	35.98	17.46	11.46	8.87	7.85	6.97	6.19	5.47	4.85	133.86
1971	4.47	12.58	69.18	26.54	10.58	9.02	7.87	6.99	6.19	5.49	4.87	4.31	168.11
1972	4.10	10.37	46.76	24.68	14.84	31.54	14.95	12.35	10.81	9.45	8.40	8.30	196.55
1973	34.31	53.15	75.64	52.15	37.07	21.98	17.17	15.19	13.45	11.95	10.58	9.37	352.00
1974	8.33	26.90	17.97	11.69	9.00	7.98	7.04	6.27	5.55	4.93	4.35	3.88	113.90
1975	42.93	86.80	91.74	63.17	23.78	15.84	13.50	11.95	10.60	9.40	8.35	7.39	385.45
1976	47.25	77.55	86.35	78.38	51.16	35.07	20.54	17.17	15.22	13.50	11.98	10.63	464.79
1977	15.70	36.68	52.93	35.87	16.45	13.82	12.16	10.79	9.56	8.49	7.52	6.70	226.65
1978	8.01	16.91	22.95	11.79	9.88	7.70	6.80	6.03	5.34	4.74	4.20	3.72	108.08
1979	3.56	8.13	11.44	8.71	5.14	4.20	3.67	3.27	2.90	2.57	2.28	2.01	57.88
1980	1.85	2.41	10.77	24.39	13.71	6.30	5.49	4.85	4.30	3.83	3.40	3.00	84.29
1981	2.76	28.04	24.32	21.51	11.78	8.22	7.29	6.45	5.73	5.09	4.51	3.99	129.69
1982	3.80	3.48	4.90	2.75	2.33	1.97	1.74	1.55	1.37	2.09	5.31	46.04	77.35
1983	77.83	94.30	105.90	122.96	122.00	93.93	96.32	63.40	52.80	26.19	22.06	19.58	897.28
1984	19.69	73.66	99.69	46.97	22.36	18.43	16.34	14.49	12.86	11.38	10.11	9.11	355.08
1985	8.70	11.88	23.22	25.53	12.24	9.69	8.33	7.39	6.56	5.81	5.16	4.58	129.10
1986	56.09	33.65	16.85	20.45	11.06	9.33	8.28	7.34	6.51	5.76	5.11	4.53	184.94
1987	11.22	72.31	60.51	82.22	52.23	19.47	14.81	13.39	11.64	10.31	9.15	8.12	365.37
1988	8.57	32.25	19.04	29.70	19.23	12.21	10.74	9.54	8.45	7.50	6.64	5.92	169.78
1989	57.02	80.08	69.93	57.18	23.97	15.84	13.61	12.05	10.70	9.48	8.40	7.47	365.74
1990	6.78	6.51	13.15	17.55	7.29	6.19	5.49	4.87	4.30	3.83	3.40	3.03	82.38
1991	3.64	6.53	23.36	10.19	6.35	4.82	4.15	3.70	3.27	2.89	2.57	2.28	73.73
1992	21.99	48.48	103.23	100.41	94.25	46.47	20.41	16.47	14.59	12.94	11.48	10.18	500.91
MAX	77.83	95.97	105.90	122.96	122.00	93.93	96.32	63.40	52.80	26.19	22.06	46.84	897.28
MEAN	20.53	34.77	44.14	36.65	24.58	16.53	13.15	10.78	9.43	7.68	6.89	7.57	232.69
MIN	1.85	2.15	4.90	2.75	2.33	1.97	1.74	1.55	1.37	2.09	2.28	2.01	57.88

Table 5.4.22 Estimated Long-term Runoff in MCM for Carrizal River in La Estancilla

(Unit: MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	53.65	77.77	158.19	173.43	107.81	67.11	40.63	23.14	12.70	6.80	3.58	1.85	726.65
1965	3.03	21.39	133.30	163.11	175.27	116.04	72.10	43.74	24.86	13.63	7.28	4.63	778.40
1966	83.00	118.83	144.42	127.63	106.47	71.67	48.08	29.62	17.78	9.83	5.31	3.11	765.75
1967	122.43	189.40	173.10	119.67	87.85	56.82	34.47	19.69	10.83	5.81	3.06	1.61	824.74
1968	3.32	88.72	74.22	65.81	44.25	28.10	16.53	9.27	5.52	2.84	1.48	0.78	340.83
1969	5.14	6.89	84.96	96.55	133.55	94.97	61.68	38.44	22.19	12.29	6.69	3.54	566.89
1970	5.97	12.39	37.34	95.33	112.33	75.19	53.46	34.60	20.45	11.49	6.25	3.48	468.29
1971	4.50	43.18	167.91	130.69	81.83	52.72	31.93	18.16	10.11	5.38	2.83	1.50	550.73
1972	2.97	73.46	146.86	146.76	110.46	145.18	120.80	85.95	56.04	33.69	19.13	15.43	956.72
1973	103.17	91.57	153.98	147.98	145.89	98.16	63.64	39.16	22.50	12.43	6.69	3.56	888.72
1974	2.09	25.47	36.85	57.45	30.48	21.00	12.83	7.37	4.04	2.17	1.17	1.04	181.97
1975	57.26	177.74	235.46	186.81	115.76	71.33	43.39	24.78	13.79	7.69	3.99	4.50	942.49
1976	122.43	140.69	171.15	149.20	112.63	72.94	46.01	26.70	14.67	7.85	4.12	2.20	870.58
1977	34.34	96.65	176.45	138.75	87.02	54.12	31.87	17.84	9.69	5.14	2.70	1.42	655.99
1978	6.99	40.13	92.08	77.63	82.71	54.61	35.14	20.73	11.64	6.32	3.37	1.77	433.13
1979	12.13	35.32	51.13	72.39	82.60	58.81	39.69	24.27	13.92	7.69	4.12	2.17	404.25
1980	2.36	23.75	51.13	92.92	64.76	42.98	26.46	15.16	8.37	4.50	2.36	1.34	336.10
1981	2.14	81.02	118.06	136.42	82.01	51.24	30.86	17.41	9.51	5.09	2.67	1.55	537.99
1982	2.38	14.54	33.77	49.20	36.16	25.12	15.53	8.95	4.95	5.92	38.80	118.68	354.00
1983	203.24	229.87	296.82	309.69	50.97	257.31	264.28	214.19	165.99	100.81	63.58	42.88	2199.64
1984	26.03	113.65	164.29	172.42	120.15	75.01	46.68	27.13	15.09	8.14	4.30	2.92	775.83
1985	4.50	22.26	63.96	76.15	50.68	33.85	20.57	11.76	6.45	3.46	1.81	1.79	297.24
1986	50.51	79.06	94.74	130.84	82.95	53.52	32.36	18.27	9.95	5.46	2.83	1.63	562.13
1987	26.11	170.12	252.41	283.31	230.82	142.27	85.87	53.38	31.26	17.44	9.43	5.44	1307.87
1988	21.96	123.93	111.53	110.00	110.06	74.88	50.49	31.28	18.04	10.02	5.39	3.05	670.64
1989	67.01	138.93	134.94	162.88	109.28	72.11	46.07	27.00	15.06	8.12	4.28	2.44	788.11
1990	2.36	11.95	21.96	27.73	21.21	13.87	8.20	4.61	2.51	1.34	0.70	0.37	116.82
1991	2.79	34.69	86.16	84.68	57.75	41.94	26.68	15.78	8.86	4.82	2.57	1.39	368.10
1992	2.57	14.73	87.91	130.97	105.66	71.95	47.41	28.52	16.15	8.81	4.72	2.60	522.01
MAX	203.24	229.87	296.82	309.69	230.82	257.31	264.28	214.19	165.99	100.81	63.58	118.68	2199.64
MEAN	35.74	79.25	122.59	127.46	94.46	72.24	50.13	32.31	20.10	11.55	7.77	8.23	661.81
MIN	2.09	6.89	21.96	27.73	21.21	13.87	8.20	4.61	2.51	1.34	0.70	0.37	116.82

Table 5.4.23 Estimated Long-term Runoff in MCM at Proposed La Ciénega Diversion Damsite

(Unit : MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	4.61	4.31	22.12	24.99	13.82	10.83	9.03	7.66	6.64	5.79	5.08	4.50	119.37
1965	4.07	4.55	28.23	28.43	30.67	18.27	13.69	11.09	9.23	7.85	6.77	5.95	168.79
1966	31.02	29.32	28.26	21.36	18.11	14.54	12.43	10.79	9.46	8.36	7.39	6.56	197.59
1967	47.73	62.46	46.12	27.03	20.25	15.60	12.64	10.55	8.97	7.74	6.77	5.95	271.82
1968	5.36	26.21	13.20	9.80	7.74	6.40	5.44	4.69	4.15	3.59	3.19	2.81	92.57
1969	3.00	2.44	15.35	12.49	19.71	12.16	9.72	8.28	7.15	6.24	5.50	4.87	106.92
1970	4.61	5.20	10.98	22.24	15.11	11.92	9.56	8.17	7.08	6.21	5.47	4.85	111.40
1971	4.39	8.25	38.78	23.61	14.33	11.25	9.16	7.66	6.53	5.65	4.95	4.34	138.91
1972	3.94	6.44	28.74	20.89	15.64	22.91	15.03	12.59	10.86	9.37	8.22	7.98	162.61
1973	25.31	39.34	53.09	42.56	35.03	24.65	19.53	16.20	13.76	11.87	10.34	9.11	300.78
1974	8.04	19.67	15.80	12.16	9.86	8.50	7.39	6.48	5.73	5.09	4.51	4.04	107.27
1975	25.61	52.28	59.22	48.57	29.33	21.02	16.45	13.39	11.20	9.54	8.24	7.20	302.04
1976	29.06	46.98	59.11	60.50	49.68	36.42	25.63	20.17	16.56	13.93	11.92	10.34	380.31
1977	12.80	24.80	36.02	31.16	19.79	15.81	13.20	11.25	9.72	8.49	7.49	6.62	197.16
1978	6.96	12.07	14.95	11.48	9.67	8.06	7.04	6.21	5.50	4.87	4.33	3.88	95.03
1979	3.59	5.95	8.41	7.13	5.44	4.64	4.02	3.54	3.14	2.79	2.46	2.20	53.29
1980	1.98	2.23	7.37	17.39	12.21	8.16	6.70	5.62	4.82	4.21	3.68	3.24	77.62
1981	2.95	18.75	15.72	15.71	12.21	9.31	7.87	6.78	5.88	5.17	4.56	4.04	108.95
1982	3.80	3.56	4.47	3.19	2.71	2.31	2.01	1.77	1.56	2.12	4.74	27.91	60.13
1983	46.42	59.68	70.33	86.96	85.55	74.52	76.79	60.59	53.55	34.58	26.83	21.94	697.73
1984	20.84	54.07	70.71	48.73	31.50	24.18	19.66	16.39	13.97	12.08	10.55	9.32	332.00
1985	8.49	9.80	16.63	20.04	13.71	11.20	9.45	8.20	7.18	6.32	5.60	4.98	121.60
1986	34.74	27.22	17.28	17.91	12.32	10.13	8.57	7.39	6.43	5.65	5.00	4.45	157.09
1987	7.31	45.36	45.32	60.70	46.76	27.71	20.38	16.18	13.17	11.01	9.38	8.14	311.43
1988	7.74	20.82	14.89	21.67	17.17	12.96	11.04	9.56	8.37	7.39	6.53	5.81	143.96
1989	41.57	58.74	55.95	50.80	30.35	21.44	16.79	13.63	11.35	9.64	8.35	7.29	325.90
1990	6.45	6.00	10.53	15.53	9.24	7.65	6.54	5.68	4.98	4.39	3.89	3.46	84.32
1991	3.88	6.19	18.29	12.23	9.21	7.26	6.05	5.17	4.48	3.94	3.47	3.08	83.27
1992	16.58	36.31	73.04	82.06	85.60	58.50	35.25	25.47	19.78	15.88	13.14	11.09	472.70
MAX	47.73	62.46	73.04	86.96	85.60	74.52	76.79	60.59	53.55	34.58	26.83	27.91	697.73
MEAN	14.58	24.10	31.00	29.56	23.54	17.87	14.38	11.76	10.04	8.27	7.18	7.10	199.40
MIN	1.98	2.23	4.47	3.19	2.71	2.31	2.01	1.77	1.56	2.12	2.46	2.20	53.29

Table 5.4.24 Estimated Long-term Runoff in MCM for Portoviejo River in El Ceibal

YEAR	(Unit: MCM)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	11.49	15.13	57.61	79.89	65.25	53.73	45.37	39.02	34.03	29.97	26.59	23.68	481.77
1965	21.21	20.08	63.72	78.77	81.99	66.93	54.83	46.10	39.53	34.39	30.22	26.78	564.54
1966	55.31	67.23	75.18	69.23	62.11	54.59	48.32	42.96	38.36	34.34	30.77	27.59	605.99
1967	92.78	165.63	155.19	117.05	90.24	71.59	58.63	49.28	42.25	36.75	32.30	28.58	938.27
1968	25.61	47.31	37.95	30.77	25.34	21.38	18.37	16.02	14.10	12.48	11.09	9.88	270.30
1969	9.96	8.88	26.76	34.89	51.34	44.82	38.03	32.84	28.69	25.31	22.47	20.03	344.03
1970	18.40	18.31	26.86	50.26	47.89	40.88	34.55	29.76	25.97	22.90	20.30	18.06	354.16
1971	16.26	22.38	91.49	81.47	62.11	49.04	39.96	33.43	28.56	24.80	21.75	19.23	490.48
1972	17.36	24.43	73.07	74.57	62.62	71.15	60.61	52.01	45.18	39.59	34.99	31.58	587.16
1973	56.19	95.78	136.12	133.18	117.58	96.86	80.67	68.70	59.46	52.07	45.98	40.85	983.44
1974	36.43	49.21	48.61	43.31	37.52	32.87	29.01	25.77	22.94	20.52	18.35	16.45	380.97
1975	55.39	138.55	190.19	181.75	136.89	103.99	81.80	66.53	55.60	47.46	41.16	36.10	1135.42
1976	73.23	131.54	175.60	188.39	165.28	137.22	110.27	90.88	76.75	66.02	57.59	50.70	1323.47
1977	49.07	68.51	100.57	101.53	83.08	69.41	59.17	51.26	44.92	39.67	35.23	31.42	733.84
1978	29.52	35.68	44.43	40.95	36.13	31.26	27.32	24.11	21.38	19.04	17.00	15.21	342.05
1979	13.82	17.90	21.24	20.37	17.11	14.44	12.37	10.77	9.46	8.36	7.44	6.62	159.90
1980	5.97	5.99	12.96	28.56	27.91	22.60	18.78	15.99	13.82	12.11	10.68	9.48	184.85
1981	8.54	30.92	38.57	40.98	35.01	29.19	24.88	21.53	18.87	16.69	14.83	13.20	293.21
1982	11.97	10.89	10.90	9.49	8.30	7.26	6.40	5.68	5.05	5.06	7.98	47.68	136.66
1983	119.14	177.33	228.04	283.10	322.53	320.84	322.56	271.08	225.66	174.04	138.72	114.13	2697.16
1984	97.63	145.75	203.29	174.99	137.08	110.37	91.52	77.65	67.03	58.58	51.63	46.12	1261.63
1985	41.76	41.34	50.59	56.51	49.20	42.28	36.67	32.14	28.41	25.23	22.47	20.11	446.71
1986	74.49	78.31	66.37	62.80	51.43	42.92	36.61	31.71	27.81	24.56	21.82	19.45	538.29
1987	22.15	100.28	131.51	167.13	151.14	114.90	89.86	72.88	60.68	51.64	44.66	39.10	1045.94
1988	35.46	53.14	51.16	59.82	55.28	47.23	40.98	35.94	31.78	28.23	25.17	22.53	486.72
1989	73.68	136.78	163.44	158.11	122.24	94.89	76.09	62.89	53.24	45.88	40.05	35.30	1062.60
1990	31.39	28.59	31.50	35.95	30.16	25.74	22.28	19.53	17.24	15.29	13.63	12.19	283.49
1991	11.65	13.93	28.12	25.56	21.11	17.31	14.52	12.43	10.78	9.45	8.37	7.45	160.69
1992	23.19	61.79	159.36	219.05	243.47	196.89	145.65	111.45	88.52	72.58	61.07	52.39	1435.41
MAX	119.14	177.33	228.04	283.10	322.53	320.84	322.56	271.08	225.66	174.04	138.72	114.13	2697.16
MED	39.28	61.40	86.32	91.33	82.67	70.09	59.52	50.01	42.62	36.31	31.53	29.03	681.01
MIN	5.97	5.99	10.90	9.49	8.30	7.26	6.40	5.68	5.05	5.06	7.44	6.62	136.66

Table 5.4.25 Estimated Long-term Runoff in MCM for Portoviejo River
(Confluent with Chico River)

YEAR	(Unit: MCM)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	20.38	13.51	82.79	80.71	28.39	23.02	20.41	18.08	16.04	14.22	12.62	11.20	341.37
1965	10.02	10.67	90.15	69.70	56.59	27.84	22.36	19.77	17.52	15.53	13.79	12.27	366.22
1966	60.32	53.22	55.74	37.12	30.53	25.38	22.47	19.93	17.68	15.67	13.89	12.32	364.26
1967	125.51	181.78	95.57	37.22	29.94	25.63	22.74	20.17	17.88	15.86	14.05	12.45	598.81
1968	11.38	46.30	12.86	10.50	8.81	7.80	6.91	6.13	5.47	4.82	4.28	3.80	129.07
1969	5.14	3.58	34.47	35.77	55.55	24.78	18.72	16.55	14.67	13.02	11.53	10.23	244.02
1970	10.02	11.78	27.48	59.59	29.92	19.60	15.88	14.06	12.47	11.06	9.82	8.70	230.38
1971	7.93	21.51	132.21	44.53	20.65	18.07	15.88	14.09	12.49	11.06	9.82	8.70	316.94
1972	8.25	23.63	96.56	49.22	27.91	55.96	28.61	24.24	21.23	18.70	16.59	15.48	386.36
1973	57.77	98.68	131.32	88.15	62.27	41.71	34.55	30.61	27.14	24.08	21.33	18.94	636.56
1974	16.79	42.60	29.38	20.97	16.45	14.57	12.88	11.41	10.13	8.97	7.96	7.10	199.22
1975	75.53	174.28	183.47	117.47	44.78	33.62	29.22	25.90	22.99	20.38	18.07	16.04	761.76
1976	85.01	146.23	157.86	135.33	82.76	61.59	42.56	36.85	32.69	28.98	25.69	22.82	858.37
1977	27.08	62.29	95.40	64.54	32.73	28.30	24.96	22.12	19.62	17.41	15.42	13.69	423.58
1978	14.84	27.46	38.25	21.93	17.36	13.79	12.16	10.79	9.56	8.49	7.52	6.67	188.81
1979	6.24	14.73	16.74	12.44	7.23	5.94	5.22	4.63	4.12	3.64	3.24	2.87	87.05
1980	2.65	3.28	15.19	34.01	18.51	9.12	8.04	7.12	6.32	5.60	4.98	4.42	119.24
1981	4.04	40.28	36.51	31.70	17.09	13.09	11.60	10.29	9.12	8.09	7.18	6.35	195.33
1982	5.92	5.32	6.59	4.17	3.64	3.11	2.76	2.44	2.15	2.81	2.57	2.81	120.11
1983	154.78	180.84	208.92	245.38	258.09	215.14	213.12	126.23	98.94	58.31	50.86	45.13	1,855.73
1984	41.92	128.76	184.14	81.03	46.44	39.99	35.46	31.44	27.89	24.72	21.93	19.95	683.68
1985	18.72	23.08	40.85	41.19	21.88	17.83	15.53	13.77	12.21	10.82	9.62	8.54	234.04
1986	102.98	57.00	52.49	37.71	21.53	18.43	16.34	14.49	12.83	11.38	10.11	8.95	344.24
1987	17.57	141.04	116.14	146.40	85.47	37.97	32.01	28.69	25.17	22.31	19.80	17.57	690.13
1988	17.38	52.87	32.11	48.52	31.44	21.72	19.20	17.03	15.11	13.39	11.87	10.55	291.22
1989	93.07	145.25	133.04	98.96	44.09	33.15	28.90	25.61	22.71	20.14	17.86	15.83	678.60
1990	14.25	13.62	21.51	25.27	11.87	10.32	9.13	8.12	7.18	6.37	5.65	5.01	138.29
1991	5.60	9.97	30.43	12.70	8.04	6.25	5.44	4.82	4.28	3.78	3.34	2.97	97.60
1992	29.54	74.29	192.55	191.73	173.02	78.20	41.86	35.97	31.91	28.28	25.09	22.26	924.71
MAX	154.78	181.78	208.92	245.38	258.09	215.14	213.12	126.23	98.94	58.31	50.86	45.13	1,855.73
MEAN	36.23	62.34	80.37	64.96	44.59	32.13	26.72	21.43	18.54	15.45	13.84	14.64	431.23
MIN	2.65	3.28	6.59	4.17	3.64	3.11	2.76	2.44	2.15	2.81	2.57	2.87	87.05

Table 5.4.26 Estimated Long-term Runoff in MCM for Chico River
(Confluent with Portoviejo River)

YEAR	(Unit MCM)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	8.01	6.44	36.67	31.08	12.51	10.60	9.40	8.33	7.39	6.54	5.81	5.14	147.90
1965	4.63	4.96	36.21	28.67	26.78	12.60	10.29	9.13	8.09	7.18	6.35	5.68	160.57
1966	34.26	28.06	27.21	18.53	15.86	12.75	11.30	10.02	8.89	7.87	6.97	6.19	187.92
1967	60.96	83.44	42.24	17.42	14.49	12.39	11.01	9.75	8.66	7.66	6.79	6.03	280.83
1968	5.49	29.47	7.26	5.73	4.85	4.30	3.80	3.37	3.03	2.65	2.36	2.09	74.40
1969	2.89	1.81	17.30	9.54	18.37	7.72	6.35	5.62	5.00	4.42	3.91	3.48	86.44
1970	3.40	3.94	9.91	23.30	11.70	7.80	6.19	5.49	4.87	4.31	3.84	3.40	88.16
1971	3.08	7.67	59.65	19.49	9.16	8.04	7.07	6.27	5.57	4.93	4.38	3.88	139.19
1972	3.54	8.69	46.20	24.44	13.47	24.13	12.08	10.55	9.33	8.20	7.28	6.91	174.83
1973	31.26	52.06	60.64	35.20	25.93	17.65	15.27	13.53	12.00	10.63	9.43	8.36	291.95
1974	7.42	20.44	13.18	9.31	7.39	6.58	5.81	5.17	4.56	4.04	3.60	3.21	90.73
1975	34.90	83.87	80.24	47.33	19.63	15.45	13.55	12.03	10.65	9.45	8.37	7.45	342.93
1976	38.89	66.90	77.59	66.38	41.22	26.21	19.58	17.17	15.24	13.50	11.98	10.63	405.29
1977	12.86	28.81	46.15	31.70	15.72	13.56	12.03	10.66	9.46	8.38	7.44	6.59	203.35
1978	6.75	12.63	14.65	9.15	6.99	5.78	5.12	4.55	4.02	3.56	3.16	2.81	79.17
1979	2.62	6.53	7.07	4.25	2.62	2.26	1.98	1.77	1.56	1.39	1.22	1.10	34.37
1980	0.99	1.45	7.10	16.74	7.10	3.91	3.46	3.08	2.72	2.41	2.15	1.90	53.02
1981	1.77	22.74	12.21	11.15	6.94	5.21	4.61	4.10	3.63	3.21	2.85	2.54	80.96
1982	2.38	2.15	2.71	1.63	1.42	1.24	1.10	0.96	0.86	1.26	3.84	32.57	52.12
1983	68.83	80.61	91.57	115.45	115.28	96.47	103.49	60.88	49.71	28.92	25.06	22.26	858.45
1984	21.27	78.63	95.43	41.68	23.46	20.11	17.84	15.80	14.02	12.43	11.02	9.99	361.68
1985	9.19	10.74	17.11	17.81	10.18	8.09	7.04	6.24	5.52	4.90	4.35	3.86	105.03
1986	49.01	23.27	11.76	15.32	8.44	7.36	6.54	5.79	5.13	4.55	4.04	3.59	144.80
1987	5.49	72.70	58.44	70.14	36.85	17.13	14.62	13.02	11.48	10.20	9.05	8.01	327.14
1988	7.61	22.00	11.28	19.47	12.08	8.48	7.50	6.64	5.88	5.22	4.64	4.12	114.92
1989	53.65	81.45	65.86	46.47	18.86	14.85	13.15	11.65	10.34	9.16	8.14	7.20	340.80
1990	6.43	6.14	10.04	13.19	5.62	4.92	4.37	3.86	3.42	3.05	2.70	2.38	66.14
1991	2.87	5.15	16.82	6.84	4.29	3.34	2.92	2.60	2.31	2.04	1.81	1.61	52.59
1992	15.91	43.75	109.12	112.70	103.60	44.35	21.37	18.24	16.17	14.36	12.73	11.28	523.57
MAX	68.83	83.87	109.12	115.45	115.28	96.47	103.49	60.88	49.71	28.92	25.06	22.26	858.45
MEAN	17.46	30.91	37.64	30.00	20.72	14.60	12.37	9.87	8.60	7.12	6.39	6.70	202.39
MIN	0.99	1.45	2.71	1.63	1.42	1.24	1.10	0.96	0.86	1.26	1.22	1.10	34.37

Table 5.4.27 Estimated Long-term Runoff in MCM at Estuary of Portoviejo River

(Unit: MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	12.48	16.49	63.40	83.02	67.39	55.65	47.06	40.52	35.38	31.15	27.63	24.61	504.79
1965	22.04	20.83	64.95	79.86	82.55	67.42	55.26	46.47	39.84	34.66	30.48	27.00	571.35
1966	55.63	68.41	76.28	69.72	62.46	54.90	48.59	43.20	38.57	34.52	30.92	27.72	610.94
1967	92.97	166.59	157.38	118.38	91.33	72.58	59.51	50.06	42.95	37.36	32.84	29.06	951.01
1968	26.03	47.81	38.30	31.05	25.61	21.62	18.59	16.18	14.26	12.62	11.22	9.99	273.27
1969	10.34	8.98	27.08	34.97	51.43	44.87	38.09	32.89	28.75	25.36	22.50	20.06	345.30
1970	18.45	18.34	26.89	50.41	48.24	40.88	34.58	29.78	26.00	22.90	20.30	18.08	354.85
1971	16.26	22.47	96.26	81.83	62.35	49.25	40.15	33.61	28.72	24.94	21.88	19.34	497.06
1972	17.44	25.23	76.90	77.73	63.83	72.39	61.55	52.84	45.90	40.23	35.56	32.09	601.70
1973	57.21	97.78	137.16	133.88	118.14	97.33	81.10	69.08	59.80	52.36	46.24	41.09	991.17
1974	36.64	49.47	48.99	43.49	37.63	33.00	29.11	25.85	23.04	20.57	18.40	16.50	382.70
1975	56.73	150.16	198.66	185.98	140.11	106.84	84.32	68.78	57.59	49.23	42.74	37.50	1,178.63
1976	75.34	138.96	185.02	193.93	169.06	140.43	113.11	93.40	79.00	68.03	59.36	52.28	1,367.94
1977	50.54	70.37	105.53	104.22	84.56	70.71	60.34	52.28	45.83	40.47	35.95	32.06	752.87
1978	30.11	36.36	45.02	41.34	36.48	31.57	27.61	24.35	21.59	19.23	17.18	15.37	346.22
1979	13.95	18.53	21.37	20.48	17.20	14.49	12.43	10.82	9.51	8.41	7.46	6.67	161.33
1980	6.00	6.11	13.12	28.62	27.94	22.60	18.80	15.99	13.84	12.11	10.68	9.48	185.29
1981	8.57	31.91	38.65	40.98	35.03	29.19	24.88	21.56	18.87	16.69	14.83	13.23	294.39
1982	12.00	10.89	10.90	9.49	8.30	7.26	6.40	5.68	5.05	5.06	7.98	47.73	136.74
1983	126.29	187.34	237.60	294.40	348.83	342.64	346.16	281.18	234.08	181.27	145.13	119.80	2,844.72
1984	102.66	155.95	212.85	180.69	142.04	114.77	95.43	81.10	70.09	61.31	54.07	48.64	1,319.60
1985	43.77	43.18	52.09	57.83	50.41	43.34	37.60	32.97	29.13	25.87	23.07	20.62	459.89
1986	76.01	78.72	66.72	63.32	51.72	43.18	36.83	31.93	27.97	24.72	21.95	19.58	542.66
1987	22.26	103.49	135.07	168.77	152.35	115.89	90.74	73.68	61.38	52.26	45.23	39.61	1,060.73
1988	35.89	53.57	51.51	60.13	55.55	47.46	41.17	36.13	31.93	28.36	25.30	22.63	489.64
1989	73.95	142.71	168.55	160.37	124.06	96.47	77.51	64.15	54.35	46.87	40.93	36.08	1,086.01
1990	32.09	29.22	32.06	36.44	30.59	26.10	22.63	19.82	17.50	15.53	13.84	12.37	288.20
1991	11.81	14.10	28.26	25.66	21.21	17.42	14.60	12.48	10.83	9.51	8.42	7.47	181.78
1992	23.25	62.59	170.61	233.02	250.46	200.72	149.03	114.42	91.16	74.91	63.14	54.24	1,487.56
MAX	126.29	187.34	237.60	294.40	348.83	342.64	346.16	281.18	234.08	181.27	145.13	119.80	2,844.72
MEAN	40.23	64.71	89.21	93.45	84.72	71.76	61.14	51.08	43.55	37.12	32.25	29.69	698.91
MIN	6.00	6.11	10.90	9.49	8.30	7.26	6.40	5.68	5.05	5.06	7.46	6.67	136.74

Table 5.4.28 Estimated Long-term Runoff in MCM for Carrizal River
(Confluent with Chone River)

(Unit: MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	85.55	110.50	271.43	272.26	103.28	47.64	23.19	10.18	4.35	1.87	0.80	0.35	931.41
1965	3.62	30.26	249.41	259.43	227.80	100.03	49.31	24.64	10.68	4.61	1.97	1.82	963.58
1966	133.46	192.21	224.07	161.04	112.84	58.89	33.16	15.75	8.01	3.19	1.35	0.96	944.93
1967	222.23	307.70	214.67	104.20	68.75	35.02	15.96	6.86	3.03	1.26	0.54	0.24	980.47
1968	3.27	119.84	60.83	59.49	28.71	13.58	5.87	2.52	1.53	0.48	0.21	0.08	296.40
1969	7.87	6.29	140.54	130.87	177.74	95.44	49.18	24.88	10.76	4.61	2.07	0.86	651.10
1970	7.47	17.18	66.40	190.10	163.54	71.15	42.27	21.11	9.10	3.91	1.68	0.91	594.81
1971	3.62	70.81	337.53	174.47	69.24	36.42	17.30	7.45	3.40	1.39	0.60	0.29	722.51
1972	2.97	130.22	235.99	190.85	104.06	200.98	126.05	75.56	38.98	17.44	7.49	13.69	1,144.27
1973	181.73	124.49	245.45	192.07	175.73	79.94	42.85	20.97	9.10	3.88	1.68	0.78	1,078.67
1974	0.83	68.51	63.93	61.59	36.61	18.77	8.30	3.56	1.53	0.64	0.31	1.07	265.66
1975	124.25	337.31	407.84	259.69	106.87	52.07	27.59	12.56	5.62	2.76	1.01	4.02	1,341.60
1976	211.83	204.73	279.76	218.12	139.95	81.08	42.96	20.76	9.02	3.86	1.66	0.83	1,214.55
1977	75.83	201.86	309.54	178.30	69.75	34.08	15.48	6.62	2.90	1.21	0.52	0.27	896.35
1978	13.58	87.74	165.55	91.42	92.54	41.71	20.28	8.76	3.76	1.61	0.67	0.29	527.91
1979	14.84	59.37	73.01	93.88	89.35	47.67	24.69	10.82	4.64	1.98	0.86	0.37	421.49
1980	2.22	42.85	108.61	164.80	74.54	36.11	16.82	7.20	3.08	1.34	0.57	0.43	458.57
1981	2.84	144.74	186.82	198.96	67.01	32.22	15.03	6.29	2.72	1.15	0.49	0.35	658.63
1982	2.54	18.58	43.95	64.10	33.02	17.52	7.82	3.35	1.45	7.02	61.30	209.69	470.35
1983	364.24	386.06	472.18	435.02	420.21	357.88	386.47	259.16	176.57	71.35	38.83	27.83	3,395.78
1984	13.26	197.67	278.34	241.55	107.62	49.22	25.28	11.01	4.72	2.04	0.86	2.28	933.83
1985	8.20	49.71	111.05	105.62	46.60	24.13	10.77	4.61	1.97	0.83	0.36	1.34	365.19
1986	89.40	123.04	149.08	203.03	79.49	40.80	19.58	8.49	3.63	1.85	0.67	0.72	719.79
1987	46.74	335.23	414.67	418.58	264.47	106.38	51.83	31.02	15.03	6.54	2.80	2.22	1,695.49
1988	32.46	207.36	132.80	126.70	115.87	57.59	32.33	15.16	6.51	2.87	1.22	0.80	731.66
1989	106.09	239.62	198.01	238.31	108.66	58.50	32.17	14.87	6.56	2.79	1.17	0.88	1,007.63
1990	2.76	21.10	40.42	49.69	25.15	11.90	5.12	2.20	0.93	0.40	0.16	0.08	159.89
1991	3.56	54.67	126.07	92.15	42.75	25.95	11.68	5.01	2.15	0.91	0.39	0.21	365.50
1992	4.98	33.95	169.46	211.74	127.76	62.44	34.47	16.07	6.97	3.00	1.27	0.75	672.87
MAX	364.24	386.06	472.18	435.02	420.21	357.88	386.47	259.16	176.57	71.35	61.30	209.69	3,395.78
MEAN	61.11	135.30	199.22	178.90	113.10	65.35	41.17	22.67	12.37	5.41	4.60	9.46	848.65
MIN	0.83	6.29	40.42	49.69	25.15	11.90	5.12	2.20	0.93	0.40	0.16	0.08	159.89

Table 5.4.29 Estimated Long-term Runoff in MCM for Chone River
(Confluent with Carrizal River)

YEAR	(Unit: MCM)												
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	134.56	98.12	150.79	173.48	39.45	13.63	10.15	8.25	6.74	5.52	4.51	3.70	648.91
1965	4.42	15.39	99.40	137.95	53.09	15.22	5.52	2.84	2.18	1.79	1.45	1.21	340.43
1966	34.87	124.81	141.55	67.13	21.43	7.34	4.53	3.78	3.11	2.52	2.02	1.69	414.77
1967	72.29	169.42	67.07	16.74	9.03	4.25	3.46	2.81	2.33	1.87	1.53	1.26	352.06
1968	2.22	12.60	9.45	6.87	0.64	0.49	0.37	0.29	0.23	0.21	0.16	0.13	33.69
1969	1.77	1.06	36.37	41.60	25.10	27.40	11.22	2.89	2.33	1.90	1.56	1.29	154.49
1970	5.68	7.64	47.17	132.48	45.45	7.41	2.52	1.93	1.58	1.29	1.06	0.88	255.09
1971	1.10	29.80	221.18	67.91	7.26	2.64	1.90	1.55	1.27	1.04	0.86	0.70	337.22
1972	0.67	55.92	105.34	53.65	11.12	88.05	24.56	16.79	4.10	3.24	2.64	9.72	375.81
1973	81.13	51.82	124.49	86.13	52.66	9.12	4.87	3.46	2.83	2.30	1.87	1.55	422.23
1974	1.98	121.78	29.44	41.60	5.22	2.20	1.63	1.34	1.09	0.88	0.73	0.96	208.86
1975	101.97	194.60	255.01	149.97	25.39	8.66	4.37	3.29	2.70	2.20	1.79	1.66	751.60
1976	108.77	129.31	139.46	117.42	67.87	67.29	9.19	4.37	3.55	2.89	2.38	2.04	654.54
1977	73.76	190.03	177.63	87.32	7.93	3.99	2.52	2.06	1.68	1.37	1.11	0.94	550.35
1978	17.09	79.74	80.73	17.50	7.20	2.15	1.74	1.42	1.17	0.96	0.78	0.64	211.12
1979	5.12	54.48	27.43	10.68	1.77	2.13	0.91	0.75	0.62	0.51	0.41	0.35	105.15
1980	3.35	40.09	111.82	78.28	21.80	2.67	1.74	1.42	1.17	0.96	0.78	0.64	264.72
1981	5.89	68.03	83.06	78.46	5.95	2.02	1.66	1.34	1.11	0.88	0.73	0.62	249.75
1982	4.07	3.12	15.83	6.40	1.61	0.29	0.21	0.16	0.13	10.07	40.75	121.09	203.73
1983	226.32	282.49	302.53	212.39	327.03	245.00	190.30	88.63	43.86	7.61	4.98	4.69	1,935.81
1984	3.62	77.45	164.00	118.12	20.70	5.68	3.29	2.65	2.18	1.77	1.45	2.89	403.80
1985	11.01	53.08	49.68	26.15	5.22	2.00	1.55	1.26	1.04	0.86	0.70	0.96	153.51
1986	68.22	35.88	45.96	73.72	9.70	2.72	2.17	1.79	1.45	1.21	0.98	1.18	244.98
1987	26.33	231.57	215.40	239.35	104.97	15.32	4.26	4.31	2.54	2.04	1.66	1.55	849.28
1988	12.64	64.59	18.78	18.09	7.63	2.20	1.39	1.12	0.91	0.75	0.60	0.51	129.22
1989	32.33	142.88	80.86	84.81	20.84	5.37	3.08	2.46	2.02	1.66	1.35	1.12	378.78
1990	3.46	19.79	43.58	59.46	5.04	1.61	1.23	1.02	0.83	0.67	0.54	0.46	137.67
1991	1.61	35.39	27.45	7.98	1.18	0.83	0.64	0.54	0.44	0.35	0.29	0.24	76.94
1992	13.34	41.42	84.53	102.72	67.23	9.72	3.83	2.84	2.31	1.90	1.56	1.26	332.65
MAX	226.32	282.49	302.53	239.35	327.03	245.00	190.30	88.63	43.86	10.07	40.75	121.09	1,935.81
MEAN	36.54	83.87	101.93	79.81	33.78	19.22	10.51	5.77	3.36	2.11	2.80	5.72	385.42
MIN	0.67	1.06	9.45	6.40	0.64	0.29	0.21	0.16	0.13	0.21	0.16	0.13	33.69

Table 5.4.30 Estimated Long-term Runoff in MCM at Estuary of Chone River

(Unit: MCM)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1964	184.17	227.93	372.14	432.06	264.92	151.37	89.03	54.18	34.89	24.05	17.68	13.69	1,866.11
1965	14.33	40.30	254.18	367.36	315.25	197.72	116.62	67.84	38.93	22.87	14.10	9.91	1,459.42
1966	109.33	247.27	360.06	285.92	197.29	123.66	77.81	48.00	30.27	19.28	12.91	9.43	1,521.23
1967	189.87	404.03	327.33	206.56	137.48	82.68	49.50	29.70	18.61	12.29	8.66	6.48	1,473.20
1968	8.17	109.52	84.53	77.19	49.23	30.40	17.73	10.34	6.51	4.07	2.72	1.96	402.37
1969	7.23	7.84	119.32	159.36	189.07	151.66	100.07	60.24	35.12	20.68	12.75	8.33	871.66
1970	14.95	23.22	90.64	281.96	235.08	139.48	86.38	52.07	30.46	18.00	11.12	7.45	990.79
1971	7.45	74.20	403.55	298.37	166.86	94.04	52.44	29.27	16.95	10.31	6.71	4.74	1,164.90
1972	5.38	126.26	281.12	265.84	174.04	258.50	195.20	138.50	86.65	51.88	30.95	30.08	1,644.40
1973	190.65	204.20	328.18	308.50	268.91	164.41	100.60	60.56	36.24	22.31	14.52	10.12	1,709.21
1974	8.52	143.00	113.40	111.84	71.43	44.14	26.28	15.72	9.80	6.45	4.59	4.23	559.41
1975	173.27	458.83	636.31	508.91	276.12	151.24	84.91	48.00	28.10	17.52	11.51	10.37	2,405.06
1976	220.19	300.15	383.20	365.50	277.48	204.77	118.71	67.98	39.42	23.84	15.34	10.77	2,027.34
1977	100.81	309.00	442.15	343.57	182.43	103.73	55.44	30.91	18.20	11.46	7.70	5.62	1,611.03
1978	26.70	125.85	205.46	147.02	121.97	78.95	48.40	28.55	16.98	10.55	6.92	4.87	822.23
1979	15.99	97.54	97.31	103.21	98.48	72.65	47.65	28.82	17.06	10.29	6.51	4.39	599.90
1980	6.35	57.58	174.74	214.18	146.32	84.11	47.65	26.73	15.34	9.27	6.01	4.29	792.56
1981	9.64	145.85	239.77	268.01	149.43	83.59	46.50	25.79	15.03	9.00	5.88	4.23	1,002.74
1982	7.18	16.79	51.85	62.75	46.87	31.08	18.75	10.85	6.32	13.74	69.83	229.99	566.01
1983	474.10	617.48	782.74	765.29	830.20	712.62	668.48	478.28	332.14	185.85	108.09	69.42	6,024.68
1984	46.44	219.24	377.57	375.87	230.37	130.69	74.94	43.04	25.51	15.99	10.70	9.88	1,560.25
1985	21.61	90.02	158.05	150.78	91.92	55.34	32.52	19.15	11.72	7.58	5.24	4.85	648.77
1986	97.90	136.56	174.69	238.85	152.56	91.01	53.06	30.51	17.91	11.22	7.36	5.65	1,017.28
1987	57.00	408.46	589.97	653.21	486.34	271.30	146.86	84.88	49.17	28.74	17.47	12.24	2,805.64
1988	36.48	187.52	179.64	163.66	142.17	96.91	63.21	38.78	23.15	14.06	8.92	6.19	960.69
1989	88.28	272.96	289.70	315.08	206.64	125.53	75.96	44.92	26.65	16.31	10.55	7.55	1,480.12
1990	9.24	33.17	70.50	95.90	57.80	33.20	18.88	11.01	6.77	4.45	3.14	2.38	346.43
1991	5.44	60.96	123.85	111.40	72.13	47.04	28.20	16.34	9.54	5.76	3.73	2.60	487.00
1992	16.18	71.36	207.52	281.23	230.15	138.80	82.52	48.16	28.18	17.03	10.91	7.66	1,139.71
MAX	474.10	617.48	782.74	765.29	830.20	712.62	668.48	478.28	332.14	185.85	108.09	229.99	6,024.68
MEAN	74.24	179.90	273.09	274.46	202.38	136.23	90.49	56.87	35.57	21.55	15.60	17.56	1,377.94
MIN	5.38	7.84	51.85	62.75	46.87	30.40	17.73	10.34	6.32	4.07	2.72	1.96	346.43

Table 6.3.1 SEDIMENT DEPOSITION STUDY, POZA HONDA RESERVOIR

SEDIMENT INFLOW - 30 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (a.s.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
106.5	33.5	6.2000	97.9260	1.0000	0.0000	0.00000		29.9931	6.2000	67.9329
106.0	33.0	6.1300	93.9860	0.9850	0.0010	0.00089	0.000223	29.9929	6.1291	63.9931
104.0	31.0	5.9000	84.4990	0.9250	0.0380	0.03400	0.034890	29.9580	5.8660	54.5410
102.0	29.0	5.6800	75.0120	0.8650	0.1380	0.12300	0.157000	29.8010	5.5570	45.2110
100.0	27.0	5.3000	62.9960	0.8060	0.2950	0.26400	0.387000	29.4140	5.0360	33.5820
98.0	25.0	4.9200	50.9850	0.7460	0.5040	0.45100	0.715000	28.6990	4.4690	22.2860
96.0	23.0	4.6100	41.9900	0.6860	0.7490	0.67000	1.121000	27.5780	3.9400	14.4120
94.0	21.0	4.3000	32.9960	0.6270	1.0060	0.90000	1.570000	26.0080	3.4000	6.9880
92.0	19.0	3.8600	25.7380	0.5670	1.2870	1.13400	2.034000	23.9740	2.7260	1.7640
90.0	17.0	3.4200	18.5070	0.5070	1.5060	1.34800	2.482000	21.4920	2.0720	0.0000
88.0	15.0	2.6100	13.5040	0.4480	1.6980	1.52000	2.868000	18.6240	1.0900	0.0000
87.0	14.0	2.2050	10.9900	0.4180	1.7720	1.58700	1.553500	17.0705	0.6180	0.0000
86.0	13.0	1.8000	8.5020	0.3880	1.8280	1.63700	1.612000	15.4585	0.1630	0.0000
85.0	12.0	1.5350	7.1640	0.3580	1.8620	1.66700	1.652000	13.8065	0.0000	0.0000
84.0	11.0	1.2700	5.7360	0.3280	1.8720	1.67600	1.671500	12.1350	0.0000	0.0000
83.0	10.0	1.0050	4.6500	0.2980	1.8550	1.66100	1.668500	10.4665	0.0000	0.0000
82.0	9.0	0.7400	3.9000	0.2680	1.8120	1.62200	1.641500	8.8250	0.0000	0.0000
81.0	8.0	0.6300	2.5300	0.2390	1.7360	1.55400	1.588000	7.2370	0.0000	0.0000
80.0	7.0	0.5200	2.0610	0.2090	1.6270	1.45700	1.505500	5.7315	0.0000	0.0000
79.0	6.0	0.4100	1.6350	0.1790	1.4850	1.32800	1.393000	4.3385	0.0000	0.0000
78.0	5.0	0.3000	1.1920	0.1490	1.3070	1.17000	1.249500	3.0890	0.0000	0.0000
77.0	4.0	0.2400	0.9540	0.1190	1.0940	0.97900	1.074500	2.0145	0.0000	0.0000
76.0	3.0	0.1800	0.7150	0.0890	0.8460	0.75700	0.868000	1.1465	0.0000	0.0000
75.0	2.0	0.1200	0.4770	0.0600	0.5780	0.51800	0.637500	0.5090	0.0000	0.0000
74.0	1.0	0.0600	0.2380	0.0300	0.2800	0.25000	0.384000	0.1250	0.0000	0.0000
73.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.125000	0.0000	0.0000	0.0000

**Table 6.3.2 SEDIMENT DEPOSITION STUDY
POZA HONDA RESERVOIR**

1	2	3	4	5	6
Elevation above (e.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h'(P)
73.00	0.0000	0.0000	30.0000	0.0000	∞
74.00	0.0300	0.2380	29.7620	2.0100	14.8070
75.00	0.0600	0.4770	29.5230	4.0200	7.3440
76.00	0.0890	0.7150	29.2850	6.0300	4.8566
77.00	0.1190	0.9540	29.0460	8.0400	3.6127
78.00	0.1490	1.1920	28.8080	10.0500	2.8665
79.00	0.1790	1.6350	28.3650	13.7350	2.0652
80.00	0.2090	2.0810	27.9190	17.4200	1.6027
81.00	0.2390	2.5300	27.4700	21.1050	1.3016
82.00	0.2680	3.9000	26.1000	24.7900	1.0528
83.00	0.2980	4.6500	25.3500	33.6675	0.7530
84.00	0.3280	5.7360	24.2640	42.5450	0.5703
85.00	0.3580	7.1640	22.8360	51.4225	0.4441
86.00	0.3880	8.5020	21.4080	60.3000	0.3565
87.00	0.4180	10.9900	19.0100	73.8675	0.2574
88.00	0.4480	13.5040	16.4080	87.4350	0.1887
89.00	0.5070	18.5070	11.4030	114.5700	0.1003

$$h'(P) = \frac{S - V(PH)}{H * A(PH)}$$

h'(P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (30 m.c.m.)

H = Original depth of reservoir (33.5 m)

A(PH) = Reservoir area at a given elevation PH.

Table 6.3.3 SEDIMENT DEPOSITION STUDY POZA HONDA RESERVOIR

SEDIMENT INFLOW = 13 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (a.s.m.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
106.5	33.5	6.2000	97.9260	1.0000	0.0000	0.00000		12.9922	6.2000	84.9338
106.0	33.0	6.1300	93.9860	0.9850	0.0010	0.00040	0.000100	12.9921	6.1296	80.9939
104.0	31.0	5.9000	84.4090	0.9250	0.0380	0.01470	0.015100	12.9770	5.8853	71.5220
102.0	29.0	5.6800	75.0120	0.8650	0.1380	0.05350	0.068200	12.9088	5.6265	62.1032
100.0	27.0	5.3000	62.9960	0.8060	0.2950	0.11400	0.167500	12.7413	5.1860	50.2547
98.0	25.0	4.9200	50.9850	0.7460	0.5040	0.19500	0.309000	12.4323	4.7250	38.5527
96.0	23.0	4.6100	41.9900	0.6860	0.7490	0.29060	0.485600	11.9467	4.3194	30.0433
94.0	21.0	4.3000	32.9960	0.6270	1.0060	0.39030	0.680900	11.2658	3.9097	21.7302
92.0	19.0	3.8600	25.7380	0.5670	1.2670	0.49100	0.881300	10.3845	3.3690	15.3535
90.0	17.0	3.4200	18.5070	0.5070	1.5060	0.58400	1.075000	9.3095	2.8360	9.1975
88.0	15.0	2.6100	13.5040	0.4460	1.6980	0.65900	1.243000	8.0665	1.9510	5.4375
87.0	14.0	2.2050	10.9900	0.4180	1.7720	0.68700	0.673000	7.3935	1.5180	3.5965
86.0	13.0	1.8000	8.5020	0.3880	1.8280	0.70900	0.698000	6.6955	1.0910	1.8065
85.0	12.0	1.5350	7.1640	0.3580	1.8620	0.72200	0.715500	5.9800	0.8130	1.1840
84.0	11.0	1.2700	5.7360	0.3280	1.8720	0.72600	0.724000	5.2560	0.5440	0.4800
83.0	10.0	1.0050	4.6500	0.2980	1.8550	0.71900	0.722500	4.5335	0.2860	0.1165
82.0	9.0	0.7400	3.9000	0.2680	1.8120	0.70300	0.711000	3.8225	0.0370	0.0775
81.0	8.0	0.6300	2.5300	0.2390	1.7360	0.67300	0.688000	3.1345	0.0000	0.0000
80.0	7.0	0.5200	2.0810	0.2090	1.6270	0.63100	0.652000	2.4825	0.0000	0.0000
79.0	6.0	0.4100	1.6350	0.1790	1.4850	0.57600	0.603500	1.8790	0.0000	0.0000
78.0	5.0	0.3000	1.1920	0.1490	1.3070	0.50700	0.541500	1.3375	0.0000	0.0000
77.0	4.0	0.2400	0.9540	0.1190	1.0940	0.42400	0.465500	0.8720	0.0000	0.0000
76.0	3.0	0.1800	0.7150	0.0890	0.8460	0.32800	0.376000	0.4960	0.0000	0.0000
75.0	2.0	0.1200	0.4770	0.0600	0.5780	0.22400	0.276000	0.2200	0.0000	0.0000
74.0	1.0	0.0600	0.2380	0.0300	0.2800	0.10800	0.166000	0.0540	0.0000	0.0000
73.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.054000	0.0000	0.0000	0.0000

Table 6.3.4 SEDIMENT DEPOSITION STUDY
POZA HONDA RESERVOIR

1	2	3	4	5	6
Elevation above (e.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
73.00	0.0000	0.0000	13.0000	0.0000	∞
74.00	0.0300	0.2380	12.7620	2.0100	6.3403
75.00	0.0600	0.4770	12.5230	4.0200	3.1152
76.00	0.0890	0.7150	12.2850	6.0300	2.0373
77.00	0.1190	0.9540	12.0460	8.0400	1.4963
78.00	0.1490	1.1920	11.8080	10.0500	1.1749
79.00	0.1790	1.6350	11.3650	13.7350	0.8274
80.00	0.2090	2.0810	10.9190	17.4200	0.6268
81.00	0.2390	2.5300	10.4700	21.1050	0.4961
82.00	0.2680	3.9000	9.1000	24.7900	0.3671
83.00	0.2960	4.6500	8.3500	33.6675	0.2480
84.00	0.3280	5.7360	7.2640	42.5450	0.1707
85.00	0.3580	7.1640	5.8360	51.4225	0.1135
86.00	0.3880	8.5020	4.4080	60.3000	0.0746
87.00	0.4180	10.9900	2.0100	73.8675	0.0272
88.00	0.4480	13.5040	0.0000	0.0000	0.0000

$$h'(P) = \frac{S - V(PH)}{H * A(PH)}$$

h'(P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (13 m.c.m.)

H = Original depth of reservoir (33.5 m)

A(PH) = Reservoir area at a given elevation PH.

Table 6.3.5 SEDIMENT DEPOSITION STUDY POZA HONDA RESERVOIR

SEDIMENT INFLOW - 7.5 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (a.s.m.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
106.5	33.5	6.2000	97.9260	1.0000	0.0000	0.00000		7.4806	6.2000	90.4454
106.0	33.0	6.1300	93.9860	0.9850	0.0010	0.00022	0.000055	7.4805	6.1298	86.5055
104.0	31.0	5.9000	84.4990	0.9250	0.0380	0.00085	0.001070	7.4795	5.8992	77.0196
102.0	29.0	5.6800	75.0120	0.8650	0.1380	0.03080	0.031650	7.4478	5.6492	67.5642
100.0	27.0	5.3000	62.9960	0.8060	0.2950	0.06660	0.066800	7.3510	5.2340	55.6450
98.0	25.0	4.9200	50.9850	0.7460	0.5040	0.11300	0.179000	7.1720	4.8070	43.8130
96.0	23.0	4.6100	41.9900	0.6860	0.7490	0.16800	0.281000	6.8910	4.4420	35.0990
94.0	21.0	4.3000	32.9960	0.6270	1.0060	0.22500	0.393000	6.4980	4.0750	26.4980
92.0	19.0	3.8600	25.7380	0.5670	1.2670	0.28300	0.508000	5.9900	3.5770	19.7480
90.0	17.0	3.4200	18.5070	0.5070	1.5660	0.33700	0.620000	5.3700	3.0830	13.1370
88.0	15.0	2.6100	13.5040	0.4480	1.6980	0.38000	0.717000	4.6530	2.2300	8.8510
87.0	14.0	2.2050	10.9900	0.4180	1.7720	0.39700	0.388500	4.2645	1.8080	6.7255
86.0	13.0	1.8000	8.5020	0.3880	1.8280	0.40900	0.403000	3.8615	1.3910	4.6405
85.0	12.0	1.5350	7.1640	0.3580	1.8620	0.41700	0.413000	3.4485	1.1180	3.7155
84.0	11.0	1.2700	5.7360	0.3280	1.8720	0.41900	0.418000	3.0305	0.8510	2.7055
83.0	10.0	1.0050	4.6500	0.2980	1.8550	0.41500	0.417000	2.6135	0.5900	2.0365
82.0	9.0	0.7400	3.9000	0.2680	1.8120	0.40600	0.410500	2.2030	0.3340	1.6970
81.0	8.0	0.6300	2.5300	0.2390	1.7360	0.38900	0.397500	1.8055	0.2410	0.7245
80.0	7.0	0.5200	2.0810	0.2090	1.6270	0.36400	0.376500	1.4290	0.1560	0.6520
79.0	6.0	0.4100	1.6350	0.1790	1.4850	0.33200	0.348000	1.0810	0.0780	0.5540
78.0	5.0	0.3000	1.1920	0.1490	1.3070	0.29200	0.312000	0.7690	0.0080	0.4230
77.0	4.0	0.2400	0.9540	0.1190	1.0940	0.24500	0.268500	0.5005	0.0000	0.4535
76.0	3.0	0.1800	0.7150	0.0890	0.8460	0.18900	0.217000	0.2835	0.0000	0.4315
75.0	2.0	0.1200	0.4770	0.0600	0.5780	0.12900	0.159000	0.1245	0.0000	0.3525
74.0	1.0	0.0600	0.2380	0.0300	0.2800	0.06000	0.094500	0.0300	0.0000	0.2080
73.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.030000	0.0000	0.0000	0.0000

Table 6.3.6 SEDIMENT DEPOSITION STUDY
POZA HONDA RESERVOIR

1	2	3	4	5	6
Elevation above (o.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
73.00	0.0000	0.0000	7.5000	0.0000	∞
74.00	0.0300	0.2380	7.2620	2.0100	3.6129
75.00	0.0600	0.4770	7.0230	4.0200	1.7470
76.00	0.0890	0.7150	6.7850	6.0300	1.1252
77.00	0.1190	0.9540	6.5460	8.0400	0.8142
78.00	0.1490	1.1920	6.3080	10.0500	0.6277
79.00	0.1790	1.6350	5.8650	13.7350	0.4270
80.00	0.2090	2.0810	5.4190	17.4200	0.3111
81.00	0.2390	2.5300	4.9700	21.1050	0.2355
82.00	0.2680	3.9000	3.6000	24.7900	0.1452
83.00	0.2980	4.6500	2.8500	33.6675	0.0847
84.00	0.3280	5.7360	1.7640	42.5450	0.0415
85.00	0.3580	7.1640	0.3360	51.4225	0.0085
86.00	0.3880	8.5020	0.0000	60.3000	0.0000
87.00	0.4180	10.9900	0.0000	73.8675	0.0000
88.00	0.4480	13.5040	0.0000	0.0000	0.0000

$$h'(P) = \frac{S - V(PH)}{H * A(PH)}$$

h'(P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (7.5 m.c.m.)

H = Original depth of reservoir (33.5 m)

A (PH) = Reservoir area at a given elevation PH.

Table 6.3.7 SEDIMENT DEPOSITION STUDY LA ESPERANZA RESERVOIR

SEDIMENT INFLOW = 64.0 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (e.s.m.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
66.0	43.0	22.7900	450.4500	1.0000	0.0000	0.00000		63.9976	22.7900	386.4524
65.0	42.0	22.1100	424.9500	0.9770	0.0260	0.00380	0.001900	63.9957	22.1062	360.9543
62.0	39.0	20.2900	367.7000	0.9070	0.0610	0.09000	0.140700	63.8550	20.2000	303.8450
55.0	32.0	16.0500	234.1300	0.7440	0.5120	0.75900	2.971500	60.8835	15.2910	173.2465
45.0	22.0	10.3900	101.9700	0.5110	1.4910	2.21300	14.860000	46.0235	8.1770	55.9465
40.0	17.0	7.6000	66.0000	0.3950	1.8170	2.69600	12.272500	33.7510	4.9040	32.2490
39.0	16.0	7.0440	58.8000	0.3720	1.8490	2.74400	2.720000	31.0310	4.3000	27.7690
38.0	15.0	6.4880	51.6000	0.3490	1.8680	2.77200	2.758000	28.2730	3.7160	23.3270
37.0	14.0	5.9320	44.4000	0.3260	1.8720	2.77800	2.775000	25.4980	3.1540	18.9020
36.0	13.0	5.3760	37.2000	0.3020	1.8590	2.75900	2.768500	22.7295	2.6170	14.4705
35.0	12.0	4.8200	30.0000	0.2790	1.8300	2.71600	2.737500	19.9920	2.1040	10.0080
34.0	11.0	4.3690	25.0400	0.2560	1.7830	2.64600	2.681000	17.3110	1.7230	7.7290
33.0	10.0	3.9180	20.0700	0.2330	1.7170	2.54800	2.597000	14.7140	1.3700	5.3560
32.0	9.0	3.4670	17.0000	0.2090	1.6270	2.41400	2.481000	12.2330	1.0530	4.7670
31.0	8.0	3.0160	14.0000	0.1860	1.5210	2.25700	2.335500	9.8975	0.7590	4.1025
30.0	7.0	2.5650	11.0000	0.1630	1.3940	2.06900	2.163000	7.7345	0.4960	3.2655
29.0	6.0	2.1140	8.0000	0.1390	1.2400	1.84000	1.954500	5.7800	0.2740	2.2200
28.0	5.0	1.6630	5.0000	0.1160	1.0700	1.58800	1.714000	4.0660	0.0750	0.9340
27.0	4.0	1.2120	2.5000	0.0930	0.8810	1.30700	1.447500	2.6185	0.0000	0.0000
26.0	3.0	0.7610	0.7000	0.0700	0.6730	0.99900	1.153000	1.4655	0.0000	0.0000
25.0	2.0	0.3100	0.3110	0.0460	0.4410	0.65400	0.826500	0.6390	0.0000	0.0000
24.0	1.0	0.1500	0.1500	0.0230	0.2100	0.31200	0.483000	0.1560	0.0000	0.0000
23.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.156000	0.0000	0.0000	0.0000

**Table 6.3.8 SEDIMENT DEPOSITION STUDY
LA ESPERANZA RESERVOIR**

1	2	3	4	5	6
Elevation above (o.m.s.l.)	Relative depth (P)	V(PH)	S-V(PH)	H*A(PH)	h'(P)
23.00	0.0000	0.0000	64.0000	0.0000	∞
24.00	0.0230	0.1500	63.8500	6.4500	9.899
25.00	0.0460	0.3110	63.6890	13.3300	4.778
26.00	0.0700	0.7000	63.3000	32.7230	1.934
27.00	0.0930	2.5000	61.5000	52.1160	1.180
28.00	0.1160	5.0000	59.0000	71.5090	0.825
29.00	0.1390	8.0000	56.0000	90.9020	0.616
30.00	0.1630	11.0000	53.0000	110.2950	0.481
31.00	0.1860	14.0000	50.0000	129.6880	0.386
32.00	0.2090	17.0000	47.0000	149.0810	0.315
33.00	0.2330	20.0700	43.9300	168.4740	0.261
34.00	0.2560	25.0400	38.9600	187.8670	0.207
35.00	0.2790	30.0000	34.0000	207.2600	0.164
36.00	0.3020	37.2000	26.8000	231.1680	0.116
37.00	0.3260	44.4000	19.6000	255.0760	0.077
38.00	0.3490	51.6000	12.4000	278.9840	0.044
39.00	0.3720	58.8000	5.2000	302.8920	0.017
40.00	0.3950	66.0000	0.0000	326.8000	0.000

$$h'(P) = \frac{S - V(PH)}{H \cdot A(PH)}$$

h'(P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V(PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (64.0 m.c.m.)

H = Original depth of reservoir (43.0 m)

A(PH) = Reservoir area at a given elevation PH

Table 6.3.9 SEDIMENT DEPOSITION STUDY LA ESPERANZA RESERVOIR

SEDIMENT INFLOW = 32 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (o.s.m.l.)		Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
66.0	43.0	22.7900	450.4500	1.0000	0.0000	0.00000		31.9968	22.7900	418.4532
65.0	42.0	22.1100	424.9500	0.9770	0.0260	0.60190	0.000950	31.9959	22.1081	392.9542
62.0	39.0	20.2900	367.7000	0.9070	0.0610	0.04500	0.070350	31.9255	20.2450	335.7745
55.0	32.0	16.0500	234.1300	0.7440	0.5120	0.38000	1.487500	30.4380	15.6700	203.6920
45.0	22.0	10.3900	101.9700	0.5110	1.4910	1.10600	7.430000	23.0080	9.2840	78.9620
40.0	17.0	7.6000	66.0000	0.3950	1.8170	1.34800	6.135000	16.8730	6.2520	49.1270
39.0	16.0	7.0440	58.8000	0.3720	1.8490	1.37200	1.360000	15.5130	5.6720	43.2870
38.0	15.0	6.4880	51.6000	0.3490	1.8680	1.38600	1.379000	14.1340	5.1020	37.4660
37.0	14.0	5.9320	44.4000	0.3260	1.8720	1.38900	1.387500	12.7465	4.5430	31.6535
36.0	13.0	5.3760	37.2000	0.3020	1.8590	1.37900	1.384000	11.3625	3.9970	25.8375
35.0	12.0	4.8200	30.0000	0.2790	1.8300	1.35800	1.368500	9.9940	3.4620	20.0060
34.0	11.0	4.3690	25.0400	0.2560	1.7830	1.32300	1.340500	8.6535	3.0460	16.3865
33.0	10.0	3.9180	20.0700	0.2330	1.7170	1.27400	1.298500	7.3550	2.6440	12.7150
32.0	9.0	3.4670	17.0000	0.2090	1.6270	1.20700	1.240500	6.1145	2.2600	10.8855
31.0	8.0	3.0160	14.0000	0.1860	1.5210	1.12800	1.167500	4.9470	1.8880	9.0530
30.0	7.0	2.5650	11.0000	0.1630	1.3940	1.03400	1.081000	3.8660	1.5310	7.1340
29.0	6.0	2.1140	8.0000	0.1390	1.2400	0.92000	0.977000	2.8890	1.1940	5.1110
28.0	5.0	1.6630	5.0000	0.1160	1.0700	0.79400	0.857000	2.0320	0.8690	2.9680
27.0	4.0	1.2120	2.5000	0.0930	0.8810	0.65300	0.723500	1.3085	0.5590	1.1915
26.0	3.0	0.7610	0.7000	0.0700	0.6730	0.49900	0.576000	0.7325	0.2620	0.0000
25.0	2.0	0.3100	0.3110	0.0460	0.4410	0.32700	0.413000	0.3195	0.0000	0.0000
24.0	1.0	0.1500	0.1500	0.0230	0.2100	0.15600	0.241500	0.0780	0.0000	0.0000
23.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.078000	0.0000	0.0000	0.0000

**Table 6.3.10. SEDIMENT DEPOSITION STUDY
LA ESPERANZA RESERVOIR**

1	2	3	4	5	6
Elevation above (a.m.s.l.)	Relative depth (F)	V(PH)	S-V(PH)	H*A(PH)	h'(P)
23.00	0.0000	0.0000	32.0000	0.0000	∞
24.00	0.0230	0.1500	31.8500	6.4500	4.938
25.00	0.0460	0.3110	31.6890	13.3300	2.377
26.00	0.0700	0.7000	31.3000	32.7230	0.957
27.00	0.0930	2.5000	29.5000	52.1160	0.566
28.00	0.1160	5.0000	27.0000	71.5090	0.378
29.00	0.1390	8.0000	24.0000	90.9020	0.264
30.00	0.1630	11.0000	21.0000	110.2950	0.190
31.00	0.1860	14.0000	18.0000	129.6880	0.139
32.00	0.2090	17.0000	15.0000	149.0810	0.101
33.00	0.2330	20.0700	11.9300	168.4740	0.071
34.00	0.2560	25.0400	6.9600	187.8670	0.037
35.00	0.2790	30.0000	2.0000	207.2600	0.010
36.00	0.3020	37.2000	0.0000	231.1680	0.000
37.00	0.3260	44.4000	0.0000	255.0760	0.000
38.00	0.3490	51.6000	0.0000	278.9840	0.000
39.00	0.3720	58.8000	0.0000	302.8920	0.000
40.00	0.3950	66.0000	0.0000	326.8000	0.000

$$h'(P) = \frac{S - V(PH)}{H * A(PH)}$$

h'(P)= Dimensionless function of total sediment deposition, capacity, depth, and area.

V(PH)= Reservoir capacity at a given elevation PH

S= Total sediment deposition (32.0 m.c.m.)

H= Original depth of reservoir (43.0 m)

A(PH)= Reservoir area at a given elevation PH

Table 6.3.11 SEDIMENT DEPOSITION STUDY LA ESPERANZA RESERVOIR

SEDIMENT INFLOW = 16 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (o.s.m.l.)	Depth (m)	Area (Ksq ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
66.0	43.0	22.7900	450.4500	1.0000	0.0000	0.00000		16.0034	22.7900	434.4466
65.0	42.0	22.1100	424.9500	0.9770	0.0260	0.00096	0.000480	16.0029	22.1090	408.9471
62.0	39.0	20.2900	367.7000	0.9070	0.0610	0.02300	0.035940	15.9670	20.2670	351.7330
55.0	32.0	16.0500	234.1300	0.7440	0.5120	0.19000	0.745500	15.2215	15.8600	218.9085
45.0	22.0	10.3900	101.9700	0.5110	1.4910	0.55300	3.715000	11.5065	9.8370	90.4635
40.0	17.0	7.6000	66.0000	0.3950	1.8170	0.67400	3.067500	8.4090	6.9260	57.5610
39.0	16.0	7.0440	58.8000	0.3720	1.8490	0.68600	0.680000	7.7590	6.3580	51.0410
38.0	15.0	6.4880	51.6000	0.3490	1.8680	0.69300	0.689500	7.0695	5.7950	44.5305
37.0	14.0	5.9320	44.4000	0.3260	1.8720	0.69500	0.694000	6.3755	5.2370	38.0245
36.0	13.0	5.3760	37.2000	0.3020	1.8590	0.69000	0.692500	5.6830	4.6860	31.5170
35.0	12.0	4.8200	30.0000	0.2790	1.8300	0.67900	0.684500	4.9985	4.1410	25.0015
34.0	11.0	4.3690	25.0400	0.2560	1.7830	0.66100	0.670000	4.3285	3.7080	20.7115
33.0	10.0	3.9180	20.0700	0.2330	1.7170	0.63700	0.649000	3.6795	3.2810	16.3905
32.0	9.0	3.4670	17.0000	0.2090	1.6270	0.60400	0.620500	3.0590	2.8630	13.9410
31.0	8.0	3.0160	14.0000	0.1860	1.5210	0.56400	0.584000	2.4750	2.4520	11.5250
30.0	7.0	2.5650	11.0000	0.1630	1.3940	0.51700	0.540500	1.9345	2.0480	9.0655
29.0	6.0	2.1140	8.0000	0.1390	1.2400	0.46000	0.488500	1.4460	1.6540	6.5540
28.0	5.0	1.6630	5.0000	0.1160	1.0700	0.39700	0.428500	1.0175	1.2660	3.9825
27.0	4.0	1.2120	2.5000	0.0930	0.8810	0.32700	0.362000	0.6555	0.8850	1.8445
26.0	3.0	0.7610	0.7000	0.0700	0.6730	0.25000	0.288500	0.3670	0.5110	0.3330
25.0	2.0	0.3100	0.3110	0.0460	0.4410	0.16400	0.207000	0.1600	0.1460	0.1510
24.0	1.0	0.1500	0.1500	0.0230	0.2100	0.07800	0.121000	0.0390	0.0720	0.1110
23.0	0.0	0.0000	0.0000	0.0000	0.0000	0.00000	0.039000	0.0000	0.0000	0.0000

**Table 6.3.12 SEDIMENT DEPOSITION STUDY
LA ESPERANZA RESERVOIR**

1	2	3	4	5	6
Elevation above (o.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
23.00	0.0000	0.0000	16.0000	0.0000	∞
24.00	0.0230	0.1500	15.8500	6.4500	2.457
25.00	0.0460	0.3110	15.6890	13.3300	1.177
26.00	0.0700	0.7000	15.3000	32.7230	0.468
27.00	0.0930	2.5000	13.5000	52.1160	0.259
28.00	0.1160	5.0000	11.0000	71.5090	0.154
29.00	0.1390	8.0000	8.0000	90.9020	0.088
30.00	0.1630	11.0000	5.0000	110.2950	0.045
31.00	0.1860	14.0000	2.0000	129.6880	0.015
32.00	0.2090	17.0000	0.0000	149.0810	0.000
33.00	0.2330	20.0700	0.0000	168.4740	0.000
34.00	0.2560	25.0400	0.0000	187.8670	0.000
35.00	0.2790	30.0000	0.0000	207.2600	0.000
36.00	0.3020	37.2000	0.0000	231.1680	0.000
37.00	0.3260	44.4000	0.0000	255.0760	0.000
38.00	0.3490	51.6000	0.0000	278.9840	0.000
39.00	0.3720	58.8000	0.0000	302.8920	0.000
40.00	0.3950	66.0000	0.0000	326.8000	0.000

$$h'(P) = \frac{S - V(PH)}{H * A(PH)}$$

h' (P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (16.0 m.c.m.)

H = Original depth of reservoir (43.0 m)

A (PH) = Reservoir area at a given elevation PH

Table 6.3.13 SEDIMENT DEPOSITION STUDY DAULE PERIPA RESERVOIR

SEDIMENT INFLOW = 260 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (a.s.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
85.0	99.0	270.00	5400.00	1.0000	0.0000	0.00000		260.0000	270.0000	5140.0000
80.0	64.0	229.00	4280.00	0.9300	0.8000	3.06000	7.6500	252.3500	225.9400	4027.6500
77.0	61.0	202.00	3600.00	0.8800	0.9700	3.72000	10.1700	242.1800	198.2800	3357.8200
75.0	59.0	185.00	3160.00	0.8600	1.0200	3.91000	7.6300	234.5500	181.0900	2925.4500
70.0	54.0	145.00	2240.00	0.7800	1.1600	4.44000	20.8750	213.6750	140.5600	2026.3250
65.0	49.0	114.00	1600.00	0.7100	1.2300	4.71000	22.8750	190.8000	109.2900	1409.2000
60.0	44.0	88.00	1110.00	0.6400	1.2700	4.86000	23.9250	166.8750	83.1400	943.1250
55.0	39.0	63.00	770.00	0.5700	1.2800	4.90000	24.4000	142.4750	58.1000	627.5250
50.0	34.0	45.00	510.00	0.4900	1.2600	4.83000	24.3250	118.1500	40.1700	391.8500
48.0	32.0	39.40	410.00	0.4600	1.2400	4.75000	9.5800	108.5700	34.6500	301.4300
46.0	30.0	33.80	325.00	0.4300	1.2200	4.67000	9.4200	99.1500	29.1300	225.8500
44.0	28.0	29.00	260.00	0.4000	1.2000	4.60000	9.2700	89.8800	24.4000	170.1200
42.0	26.0	25.00	210.00	0.3800	1.1800	4.52000	9.1200	80.7600	20.4800	129.2400
40.0	24.0	21.00	170.00	0.3500	1.1400	4.37000	8.8900	71.8700	16.6300	98.1300
38.0	22.0	17.80	134.00	0.3200	1.1100	4.25000	8.6200	63.2500	13.5500	70.7500
36.0	20.0	14.60	100.00	0.2900	1.0700	4.10000	8.3500	54.9000	10.5000	45.1000
34.0	18.0	12.00	75.30	0.2600	1.0200	3.91000	8.0100	46.8900	8.0900	28.4100
32.0	16.0	10.00	56.00	0.2300	0.9700	3.72000	7.6300	39.2600	6.2800	16.7400
30.0	14.0	8.00	40.00	0.2000	0.9100	3.49000	7.2100	32.0500	4.5100	7.9500
28.0	12.0	6.40	30.00	0.1700	0.8400	3.22000	6.7100	25.3400	3.1800	4.6600
26.0	10.0	4.80	22.00	0.1400	0.7600	2.91000	6.1300	19.2100	1.8900	2.7900
24.0	8.0	3.55	15.00	0.1200	0.7000	2.68000	5.5900	13.6200	0.8700	1.3800
22.0	6.0	2.66	9.00	0.0900	0.6100	2.33000	5.0100	8.6100	0.3300	0.3900
20.0	4.0	1.78	4.00	0.0600	0.4900	1.88000	4.2100	4.4000	0.0000	0.0000
18.0	2.0	0.88	1.00	0.0300	0.3300	1.26000	3.1400	1.2600	0.0000	0.0000
16.0	0.0	0.00	0.00	0.0000	0.0000	0.00000	1.2600	0.0000	0.0000	0.0000

**Table 6.3.14 SEDIMENT DEPOSITION STUDY
DAULE PERIPA RESERVOIR**

1	2	3	4	5	6
Elevation above (e.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
16.00	0.0000	0.0000	260.0000	0.0000	∞
18.00	0.0300	1.0000	259.0000	60.7200	4.265
20.00	0.0600	4.0000	256.0000	122.8200	2.084
22.00	0.0900	9.0000	251.0000	183.5400	1.368
24.00	0.1200	15.0000	245.0000	244.9500	1.000
26.00	0.1400	22.0000	238.0000	331.2000	0.719
28.00	0.1700	30.0000	230.0000	441.6000	0.521
30.00	0.2000	40.0000	220.0000	552.0000	0.399
32.00	0.2300	56.0000	204.0000	690.0000	0.296
34.00	0.2600	75.0000	184.7000	828.0000	0.223
36.00	0.2900	100.0000	160.0000	1007.4000	0.159
38.00	0.3200	134.0000	126.0000	1228.2000	0.103
40.00	0.3500	179.0000	90.0000	1449.0000	0.082
42.00	0.3800	210.0000	50.0000	1725.0000	0.029
44.00	0.4000	260.0000	0.0000	2001.0000	0.000
46.00	0.4300	325.0000	0.0000	2332.2000	0.000
48.00	0.4600	410.0000	0.0000	2718.6000	0.000
50.00	0.4900	510.0000	0.0000	3105.0000	0.000

$$h' (P) = \frac{S - V (PH)}{H * A (PH)}$$

h' (P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (260.0 m.c.m.)

H = Original depth of reservoir (69.0 m)

A (PH) = Reservoir area at a given elevation PH

Table 6.3.15 SEDIMENT DEPOSITION STUDY DAULE PERIPA RESERVOIR

SEDIMENT INFLOW - 130 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (e.s.m.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
85.0	69.0	270.00	5400.00	1.0000	0.0000	0.00000		130.0380	270.0000	5269.9620
80.0	64.0	229.00	4280.00	0.9300	0.8000	1.53200	3.830000	126.2080	227.4680	4153.7920
77.0	61.0	202.00	3600.00	0.8800	0.9700	1.85800	5.085000	121.1230	200.1420	3478.8770
75.0	59.0	185.00	3160.00	0.8600	1.0200	1.95400	3.812000	117.3110	183.0460	3042.6890
70.0	54.0	145.00	2240.00	0.7800	1.1600	2.22200	10.440000	106.8710	142.7780	2133.1290
65.0	49.0	114.00	1600.00	0.7100	1.2300	2.35600	11.445000	95.4260	111.6440	1504.5740
60.0	44.0	88.00	1110.00	0.6400	1.2700	2.43300	11.972500	83.4535	85.5670	1026.5465
55.0	39.0	63.00	770.00	0.5700	1.2800	2.45200	12.212500	71.2410	60.5480	698.7590
50.0	34.0	45.00	510.00	0.4900	1.2600	2.41400	12.165000	59.0760	42.5860	450.9240
48.0	32.0	39.40	410.00	0.4600	1.2400	2.37500	4.789000	54.2870	37.0250	355.7130
46.0	30.0	33.80	325.00	0.4300	1.2200	2.33700	4.712000	49.5750	31.4630	275.4250
44.0	28.0	29.00	260.00	0.4000	1.2000	2.29900	4.636000	44.9390	26.7010	215.0610
42.0	26.0	25.00	210.00	0.3800	1.1800	2.26000	4.559000	40.3800	22.7400	169.6200
40.0	24.0	21.00	170.00	0.3500	1.1400	2.18400	4.444000	35.9360	18.8160	134.0640
38.0	22.0	17.80	134.00	0.3200	1.1100	2.12600	4.310000	31.6260	15.6740	102.3740
36.0	20.0	14.60	100.00	0.2900	1.0700	2.05000	4.176000	27.4500	12.5500	72.5500
34.0	18.0	12.00	75.30	0.2600	1.0200	1.95400	4.004000	23.4460	10.0460	51.8540
32.0	16.0	10.00	56.00	0.2300	0.9700	1.85800	3.812000	19.6340	8.1420	36.3660
30.0	14.0	8.00	40.00	0.2000	0.9100	1.74300	3.601000	16.0330	6.2570	23.9670
28.0	12.0	6.40	30.00	0.1700	0.8400	1.60900	3.352000	12.6810	4.7910	17.3190
26.0	10.0	4.80	22.00	0.1400	0.7600	1.45600	3.065000	9.6160	3.3440	12.3840
24.0	8.0	3.55	15.00	0.1200	0.7000	1.34100	2.797000	6.8190	2.2090	8.1810
22.0	6.0	2.66	9.00	0.0900	0.6100	1.16800	2.509000	4.3100	1.4920	4.6900
20.0	4.0	1.78	4.00	0.0600	0.4900	0.93000	2.107000	2.2030	0.8410	1.7970
18.0	2.0	0.88	1.00	0.0300	0.3300	0.63200	1.571000	0.6320	0.2480	0.3680
16.0	0.0	0.00	0.00	0.0000	0.0000	0.00000	0.632000	0.0000	0.0000	0.0000

Table 6.3.16 SEDIMENT DEPOSITION STUDY
DAULE PERIPA RESERVOIR

1	2	3	4	5	6
Elevation above (a.m.s.l.)	Relative depth (F)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
16.00	0.0000	0.0000	130.0000	0.0000	∞
18.00	0.0300	1.0000	129.0000	60.7200	2.125
20.00	0.0600	4.0000	126.0000	122.8200	1.026
22.00	0.0900	9.0000	121.0000	183.5400	0.659
24.00	0.1200	15.0000	115.0000	244.9500	0.469
26.00	0.1400	22.0000	108.0000	331.2000	0.326
28.00	0.1700	30.0000	100.0000	441.6000	0.226
30.00	0.2000	40.0000	90.0000	552.0000	0.163
32.00	0.2300	56.0000	74.0000	690.0000	0.107
34.00	0.2600	75.0000	54.7000	828.0000	0.066
36.00	0.2900	100.0000	30.0000	1007.4000	0.030
38.00	0.3200	134.0000	0.0000	1228.2000	0.000
40.00	0.3500	170.0000	0.0000	1449.0000	0.000
42.00	0.3800	210.0000	0.0000	1725.0000	0.000
44.00	0.4000	260.0000	0.0000	2001.0000	0.000
46.00	0.4300	325.0000	0.0000	2332.2000	0.000
48.00	0.4600	410.0000	0.0000	2718.6000	0.000
50.00	0.4900	510.0000	0.0000	3105.0000	0.000

$$h' (P) = \frac{S - V (PH)}{H * A (PH)}$$

h' (P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (130 m.c.m.)

H = Original depth of reservoir (69.0 m)

A (PH) = Reservoir area at a given elevation PH

Table 6.3.17 SEDIMENT DEPOSITION STUDY DAULE PERIPA RESERVOIR

SEDIMENT INFLOW - 65 MCM

1	2	3	4	5	6	7	8	9	10	11
Elevation (a.s.l.)	Depth (m)	Area (Km ²)	Volume (MCM)	Relative Depth	Relative Area	Sediment Area (km ²)	Sediment Volume (MCM)	Accumulated Sediment Volume (MCM)	Corrected Area (km ²)	Corrected Volume (MCM)
85.0	69.0	270.00	5400.00	1.0000	0.0000	0.00000		65.0135	270.0000	5334.9865
80.0	64.0	229.00	4280.00	0.9300	0.8000	0.76600	1.915000	63.0985	228.2340	4216.9015
77.0	61.0	202.00	3600.00	0.8800	0.9700	0.92900	2.542500	60.5560	201.0710	3539.4440
75.0	59.0	185.00	3160.00	0.8600	1.0200	0.97700	1.906000	58.6500	184.0230	3101.3500
70.0	54.0	145.00	2240.00	0.7800	1.1600	1.11100	5.220000	53.4300	143.8890	2186.5700
65.0	49.0	114.00	1600.00	0.7100	1.2300	1.17800	5.722500	47.7075	112.8220	1552.2925
60.0	44.0	88.00	1110.00	0.6400	1.2700	1.21600	5.985000	41.7225	86.7840	1068.2775
55.0	39.0	63.00	770.00	0.5700	1.2800	1.22600	6.103000	35.6175	61.7140	734.3825
50.0	34.0	45.00	510.00	0.4900	1.2600	1.20700	6.082500	29.5350	43.7930	480.4650
48.0	32.0	39.40	410.00	0.4600	1.2400	1.18800	2.395000	27.1400	38.2120	382.8600
46.0	30.0	33.80	325.00	0.4300	1.2200	1.16800	2.356000	24.7840	32.6320	300.2160
44.0	28.0	29.00	260.00	0.4000	1.2000	1.14900	2.317000	22.4670	27.8510	237.5330
42.0	26.0	25.00	210.00	0.3800	1.1800	1.13000	2.279000	20.1880	23.8700	189.8120
40.0	24.0	21.00	170.00	0.3500	1.1400	1.09200	2.222000	17.9660	19.9080	152.0340
38.0	22.0	17.80	134.00	0.3200	1.1100	1.06300	2.155000	15.8110	16.7370	118.1890
36.0	20.0	14.60	100.00	0.2900	1.0700	1.02500	2.088000	13.7230	13.5750	86.2770
34.0	18.0	12.00	75.30	0.2600	1.0200	0.97700	2.002000	11.7210	11.0230	63.5790
32.0	16.0	10.00	56.00	0.2300	0.9700	0.92900	1.906000	9.8150	9.0710	46.1850
30.0	14.0	8.00	40.00	0.2000	0.9100	0.87100	1.800000	8.0150	7.1290	31.9850
28.0	12.0	6.40	30.00	0.1700	0.8400	0.80500	1.676000	6.3390	5.5950	23.6610
26.0	10.0	4.80	22.00	0.1400	0.7600	0.72800	1.533000	4.8060	4.0720	17.1940
24.0	8.0	3.55	15.00	0.1200	0.7000	0.67000	1.398000	3.4080	2.8800	11.5920
22.0	6.0	2.66	9.00	0.0900	0.6100	0.58400	1.254000	2.1540	2.0760	6.8460
20.0	4.0	1.78	4.00	0.0600	0.4900	0.46900	1.053000	1.1010	1.3110	2.8990
18.0	2.0	0.88	1.00	0.0300	0.3300	0.31600	0.785000	0.3160	0.5640	0.6840
14.0	0.0	0.00	0.00	0.0000	0.0000	0.00000	0.316000	0.0000	0.0000	0.0000

**Table 6.3.18 SEDIMENT DEPOSITION STUDY
DAULE PERIPA RESERVOIR**

1	2	3	4	5	6
Elevation above (o.m.s.l.)	Relative depth (P)	V (PH)	S-V (PH)	H*A (PH)	h' (P)
16.00	0.0000	0.0000	65.0000	0.0000	∞
18.00	0.0300	1.0000	64.0000	60.7200	1.054
20.00	0.0600	4.0000	61.0000	122.8200	0.497
22.00	0.0900	9.0000	56.0000	183.5400	0.305
24.00	0.1200	15.0000	50.0000	244.9500	0.204
26.00	0.1400	22.0000	43.0000	331.2000	0.130
28.00	0.1700	30.0000	35.0000	441.6000	0.079
30.00	0.2000	40.0000	25.0000	552.0000	0.045
32.00	0.2300	56.0000	9.0000	690.0000	0.013
34.00	0.2600	75.3000	0.0000	828.0000	0.000
36.00	0.2900	100.0000	0.0000	1007.4000	0.000
38.00	0.3200	134.0000	0.0000	1228.2000	0.000
40.00	0.3500	170.0000	0.0000	1449.0000	0.000
42.00	0.3800	210.0000	0.0000	1725.0000	0.000
44.00	0.4000	260.0000	0.0000	2001.0000	0.000
46.00	0.4300	325.0000	0.0000	2332.2000	0.000
48.00	0.4600	410.0000	0.0000	2718.6000	0.000
50.00	0.4900	510.0000	0.0000	3105.0000	0.000

$$h' (P) = \frac{S - V (PH)}{H * A (PH)}$$

h' (P) = Dimensionless function of total sediment deposition, capacity, depth, and area.

V (PH) = Reservoir capacity at a given elevation PH.

S = Total sediment deposition (65.0 m.c.m.)

H = Original depth of reservoir (69.0 m)

A (PH) = Reservoir area at a given elevation PH