

# **ANEXO 1. ESTACIONES HIDROMÉTRICAS**

## A1 Estaciones hidrométricas

La estaciones hidrométricas que miden los escurrimientos por cuenca propia para la presa la Yesca son La Yesca (Clave 12438, Coordenadas: 21° 11'35" de Latitud y 104°05'25" de Longitud) y El Caimán (Clave 12514, Coordenadas: 21° 12'05" de Latitud y 104°04'50" de Longitud), mientras que para la presa Aguamilpa son las estaciones Huaynamota I (Clave 12470, Coordenadas: 21° 50' 35" de Latitud y 104°42' 55" de Longitud) y Huaynamota II (Clave 12520, Coordenadas: 21° 51' 35" de Latitud y 104° 42'40" de Longitud), (del Banco nacional de Datos de Aguas Superficiales, BANDAS, CNA, 2007). Ver Figura A1.1. A partir de los gastos medios diarios se determinaron los volúmenes de escurrimiento mensual de ingreso por cuenca propia (Tablas A1.1 Y A1.2).

En forma adicional, la Comisión Federal de Electricidad (CFE) proporcionó el registro histórico de los escurrimientos mensuales por cuenca propia a las presas Santa Rosa, El Cajón (antes de la construcción de la Yesca) y Aguamilpa. Debido a la construcción de la presa La Yesca, se puede considerar que los ingresos que por cuenca propia que tiene esta presa son los correspondientes a los de Santa Rosa (que casi no tiene capacidad de regulación) más El Cajón y que una vez operando la presa La Yesca, la presa El Cajón prácticamente no tendrá escurrimientos por cuenca propia. En las Tablas 7 y 8 se presentan las Tablas de los volumen de escurrimiento por cuenca propia de las presas El Cajón+Santa Rosa y de Aguamilpa, para el periodo común con los datos de las hidrométricas, de 1981 a a 1988 y de 1991 a 1999 en el primer caso y los periodos de 1952 a 1991 para el segundo caso.

Para las presas La Yesca y Aguamilpa, se compararon los escurrimientos reportados por las hidrométricas con respecto a los datos de la CFE, encontrándose algunos valores dudosos o con discrepancias al obtenerse en ellos factores de proporción (Volumen mensual hidrométrica/Volumen mensual cuenca propia) considerablemente mayores que uno. Tablas A1.6 Y A1.7.

También se elaboraron gráficas para observa las correlaciones entre los datos en algunos meses con información dudosa, también de los datos anuales. (Figuras A1.1 y A1.2)

**Tabla A1.1 La Yesca + El Caimán. Volumen de escurrimiento mensual millones de m<sup>3</sup>  
(BANDAS)**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Total
1981	60.27	50.99	55.64	56.69	82.23	198.46	931.66	500.21	434.70	120.57	103.03	135.60	2730.04
1982	67.71	50.33	46.44	58.87	64.03	65.57	508.73	366.77	130.33	75.64	57.91	54.83	1547.16
1984	69.87	43.67	47.40	45.82	34.09	309.19	1195.98	1107.52	596.75	138.27	76.36	76.40	3741.31
1985	80.85	69.36	99.91	85.86	70.43	208.80	554.91	760.25	336.98	188.28	113.96	96.38	2665.98
1986	76.56	60.94	64.36	88.81	119.92	243.34	906.56	380.48	501.21	343.65	156.68	119.53	3062.02
1987	166.85	171.10	187.21	146.10	126.30	145.73	399.89	620.44	634.35	399.17	184.61	188.96	3370.72
1988	163.46	137.75	173.62	150.39	156.61	142.32	714.07	1594.21	587.74	165.88	112.78	118.92	4217.74
1991	4.46	6.66	3.47	2.97	3.27	108.28	4497.60	790.97	803.19	220.75	78.62	81.92	6602.17
1992	2298.80	337.81	135.50	136.87	126.01	120.71	204.73	430.94	319.59	586.88	129.39	473.85	5301.08
1993	18.69	18.07	15.52	5.00	5.20	28.99	180.59	266.42	479.03	161.71	105.98	64.16	1349.36
1994	64.77	54.01	78.74	139.83	108.34	186.48	180.32	238.63	466.72	163.01	96.34	89.52	1866.71
1995	61.13	58.79	89.95	82.17	67.68	209.58	643.24	1306.44	792.58	195.70	120.66	96.02	3723.93
1996	58.73	49.08	52.07	40.23	119.41	144.25	257.27	268.14	618.41	537.59	82.99	72.13	2300.32
1997	73.35	65.89	96.25	121.38	98.50	155.64	314.57	211.45	226.72	93.42	82.17	82.09	1621.43
1998	82.59	78.92	90.44	149.64	113.93	127.59	241.47	467.04	822.25	620.71	122.42	109.87	3026.86
1999	64.674	63.024	62.534	97.226	99.239	158.133	444.058	375.939	439.565	143.720	99.521	72.892	2120.52
<b>MEDIA</b>	213.30	82.27	81.19	87.99	87.20	159.57	760.98	605.36	511.88	259.68	107.71	120.82	3077.96
<b>DESVEST</b>	557.66	78.88	50.54	49.93	44.13	67.51	1041.19	409.81	201.36	180.49	31.65	99.68	1422.19

Dato en una sola estación

**Tabla A1.2 Huaynamota y Huaynamota II. Volumen de escurrimiento mensual 10<sup>6</sup> m<sup>3</sup>  
(BANDAS). 1981 a 1999**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Total
1952	8.41	6.50	5.41	5.16	3.51	82.45	452.82	427.17	120.81	51.76	15.08	10.24	1189.32
1953	8.88	23.51	9.11	4.76	5.65	31.93	166.70	465.59	422.14	75.64	22.57	18.99	1255.45
1954	15.32	6.20	4.96	3.20	2.81	181.99	652.07	679.44	311.71	149.95	17.45	12.49	2037.58
1955	20.84	8.82	6.43	3.79	2.93	28.19	370.11	1187.94	965.55	178.33	20.07	12.88	2805.87
1956	9.95	7.31	5.58	4.65	23.14	103.51	336.84	486.69	174.57	34.57	10.30	8.92	1206.03
1957	7.86	5.61	5.64	4.38	3.64	7.34	156.45	177.49	172.68	352.08	22.35	10.52	926.04
1958	11.52	7.53	28.35	3.61	5.03	105.34	356.68	318.31	723.55	434.72	296.34	46.74	2337.71
1959	41.18	14.06	9.10	168.41	18.49	113.10	481.55	771.08	210.26	110.78	43.25	22.82	2004.10
1960	57.71	12.29	8.74	6.18	4.12	20.12	191.36	382.86	204.34	27.64	12.61	184.75	1112.72
1961	42.45	14.23	7.00	5.10	3.89	118.17	612.91	858.70	445.61	76.52	18.43	14.30	2217.30
1962	10.69	30.49	7.39	4.24	3.78	185.98	465.46	334.25	530.51	186.02	27.88	18.18	1804.88
1963	16.16	7.93	9.80	5.00	14.97	111.19	723.75	799.18	637.08	258.23	31.24	85.81	2700.33
1964	21.33	16.57	8.88	5.71	5.54	83.46	340.13	419.84	808.45	336.34	28.56	35.01	2109.82
1965	19.25	13.18	8.01	4.83	5.84	18.66	215.76	770.73	643.11	107.97	18.41	151.06	1976.79
1966	122.33	172.22	19.49	18.64	12.03	125.12	269.19	896.05	450.48	199.89	30.61	19.09	2335.16
1967	118.16	15.79	9.53	5.92	7.66	95.06	544.23	1091.48	1405.49	177.62	32.75	47.15	3550.85
1968	18.04	27.29	299.43	15.11	8.86	21.72	747.16	884.20	654.82	201.06	43.83	110.74	3032.26
1969	39.56	22.60	13.39	7.90	6.38	15.67	244.71	133.36	380.77	256.38	25.01	134.61	1280.33
1970	83.17	67.56	27.52	8.22	5.64	81.40	418.19	469.83	556.90	251.90	27.94	14.48	2012.74
1971	12.89	7.75	5.94	4.11	6.81	124.97	447.34	670.13	563.36	591.21	50.27	24.50	2509.29
1972	29.63	10.76	8.04	5.28	-	-	187.36	165.41	0.00	35.92	214.51	48.56	705.48
1973	104.54	28.10	13.53	5.97	5.01	29.39	539.37	1801.43	928.18	206.60	48.24	23.10	3733.46
1974	17.64	11.37	8.49	5.89	7.66	64.05	361.47	378.54	295.86	75.03	14.87	38.40	1279.27
1975	24.02	9.62	6.33	4.11	3.14	40.37	618.55	1188.87	379.57	41.11	15.42	10.92	2342.03
1976	10.85	9.13	6.09	5.32	3.66	43.67	543.43	524.19	340.52	92.08	585.32	399.07	2563.34
1977	118.30	23.15	14.66	9.23	6.27	114.22	501.76	770.38	510.69	53.88	17.70	15.48	2155.71
1978	12.35	19.92	9.35	5.89	4.86	67.12	333.17	383.63	721.98	286.63	22.91	17.71	1885.51
1979	72.28	23.46	11.90	7.11	5.14	12.91	299.83	486.87	260.13	27.00	13.33	17.26	1237.22
1980	15.10	18.65	7.96	4.49	4.20	46.57	328.28	513.19	437.93	73.86	24.44	15.24	1489.91
1981	32.54	12.98	8.99	7.61	4.40	80.79	757.87	431.08	506.33	104.29	19.54	19.18	1985.60
1982	12.09	7.92	6.30	4.30	3.81	24.74	360.39	244.95	75.33	95.59	79.29	139.35	1054.07
1983	192.04	31.19	35.46	7.87	25.14	44.11	393.71	814.73	683.66	119.92	47.37	19.08	2414.28
1984	34.60	50.28	9.33	6.26	8.86	168.02	1061.92	793.93	247.84	78.15	27.67	19.96	2506.83
1985	278.79	26.87	12.84	7.50	5.21	189.51	256.19	648.70	232.49	95.40	23.55	38.59	1815.65
1987	554.38	132.97	65.58	14.93	11.29	36.19	394.59	647.02	373.78	156.05	5.10	30.30	2422.16
1988	16.81	9.90	8.06	6.63	4.34	119.78	442.38	1043.64	263.70	60.86	12.50	13.67	2002.27
1989	10.88	7.64	5.69	4.53	3.53	7.13	183.02	471.28	285.49	48.34	42.09	39.41	1109.03
1990	13.18	46.73	8.82	4.30	6.46	80.27	615.06	2152.65	799.51	280.79	39.61	13.26	4060.64
1991	10.78	8.16	5.74	4.07	2.92	34.09	1551.28	568.50	923.91	207.78	60.97	75.76	3453.95
<b>MEDIA</b>	<b>57.60</b>	<b>25.03</b>	<b>19.30</b>	<b>10.52</b>	<b>7.02</b>	<b>75.22</b>	<b>459.57</b>	<b>673.16</b>	<b>478.18</b>	<b>158.92</b>	<b>54.09</b>	<b>50.71</b>	<b>2067.20</b>
DESV. EST.	99.35	33.16	47.34	26.15	5.29	52.66	264.04	411.18	289.56	123.60	102.52	72.31	803.34

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sin dato

**Tabla A1.3 Volumen de escurrimiento mensual por cuenca propia, millones de m<sup>3</sup>. El Cajón + Santa Rosa (CFE). Periodo común con hidrométricas 1981 a 1988 y 1991 a 1999**

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Total
1981	52.558	50.391	28.936	18.167	12.875	257.256	848.235	502.048	523.732	142.297	46.857	49.355	2532.707
1982	29.274	24.948	26.102	10.704	9.573	19.502	481.377	258.084	94.124	75.554	51.587	48.419	1129.248
1984	52.307	59.568	42.384	34.768	35.468	352.232	1286.418	1148.622	580.234	121.548	73.674	71.651	3858.874
1985	70.712	49.723	51.983	39.321	34.614	299.067	670.863	843.157	488.091	113.529	70.271	74.154	2805.485
1986	66.725	54.29	52.961	48.678	87.236	430.879	948.307	396.007	563.239	346.192	148.621	116.806	3259.941
1987	157.669	139.02	130.281	110.347	98.73	150.387	503.971	764.467	616.404	395.815	182.674	179.643	3429.408
1988	162.581	130.039	122.345	96.171	94.771	157.85	737.43	1625.02	578.607	164.238	98.59	89.24	4056.882
1991	73.906	43.171	62.756	68.068	52.889	106.688	4657.191	783.826	808.505	384.282	114.918	83.16	7239.36
1992	2222.056	598.213	120.199	56.869	87.487	104.408	278.827	543.043	306.893	541.17	117.486	456.452	5433.103
1993	99.295	79.614	92.155	74.258	75.138	182.162	785.136	277.285	522.953	143.025	86.732	67.526	2485.279
1994	68.368	53.614	58.836	54.632	39.44	164.485	193.217	400.13	489.819	187.118	85.498	78.816	1873.973
1995	62.085	67.052	57.72	45.162	31.422	136.713	627.918	1239.297	760.271	159.051	83.279	80.006	3349.976
1996	69.471	71.269	59.296	52.28	56.239	137.052	290.038	403.629	637.623	510.817	79.522	74.327	2441.563
1997	81.571	76.079	84.014	82.884	71.101	158.021	281.708	239.211	297.24	155.095	88.352	76.427	1691.703
1998	83.392	83.045	68.586	33.212	48.371	69.799	237.148	568.38	831.26	548.94	105.638	83.146	2760.917
1999	74.388	59.419	52.88	29.9	27.146	118.796	710.51	530.51	629.02	133.28	80.96	78.28	2525.089
<b>MEDIA</b>	214.147	102.466	69.465	53.464	53.906	177.831	846.143	657.670	545.501	257.622	94.666	106.713	3179.594
<b>DESVEST</b>	536.576	135.426	31.942	27.406	28.860	106.842	1059.486	393.032	191.442	167.451	34.287	97.957	1487.732



Tabla A1.6 Comparación Huaynamota y Huaynamota II vs cuenca propia de Aguamilpa

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Total
1952	0.21	0.18	0.15	0.14	0.10	0.67	0.87	0.87	0.76	0.61	0.31	0.24	0.72
1953	0.22	0.42	0.22	0.13	0.15	0.47	0.76	0.94	0.88	0.66	0.39	0.36	0.74
1954	0.32	0.16	0.13	0.09	0.08	0.79	0.89	0.89	0.86	0.77	0.35	0.29	0.79
1955	0.39	0.22	0.17	0.11	0.09	0.46	0.86	0.88	0.89	0.74	0.37	0.28	0.81
1956	0.23	0.18	0.15	0.13	0.40	0.69	0.81	0.89	0.79	0.49	0.24	0.21	0.71
1957	0.19	0.15	0.15	0.12	0.10	0.18	0.77	0.79	0.90	0.88	0.41	0.24	0.69
1958	0.26	0.19	0.45	0.10	0.13	0.70	1.15	0.81	0.84	0.82	0.78	0.54	0.80
1959	0.53	0.29	0.72	0.78	0.35	0.71	0.84	0.86	0.82	0.72	0.50	0.40	0.77
1960	0.62	0.27	0.21	0.16	0.11	0.37	0.76	0.82	0.79	0.49	0.28	0.84	0.69
1961	0.55	0.30	0.18	0.14	0.11	0.74	0.94	0.89	0.87	0.66	0.35	0.30	0.81
1962	0.24	0.52	0.18	0.11	0.10	0.80	0.89	0.78	0.84	0.68	0.74	1.18	0.77
1963	2.08	36.38	42.60	14.29	106.92	1.35	1.15	0.85	0.89	0.84	0.46	1.87	0.96
1964	0.69	0.55	0.51	0.33	1.00	0.97	0.75	0.78	0.87	0.94	0.57	0.83	0.83
1965	0.63	0.70	1.09	0.51	2.30	1.61	0.86	0.76	0.74	294.20	0.88	0.95	0.82
1966	1.18	1.11	4.57	8.47	3.32	962.48	1.50	0.80	0.57	0.77	0.57	0.75	0.86
1967	1.09	2.86	3.08	2.18	1.52	0.84	1.05	0.91	1.00	1.26	116.55	172.07	1.02
1968	28.19	6.82	2.94	50.38	5.28	3.15	2.42	0.93	1.04	0.79	0.60	0.92	1.24
1969	1.03	1.05	1.01	2.07	24.53	1.69	0.78	0.74	0.73	0.86	1.12	1.13	0.83
1970	0.99	0.99	1.61	23.50	1.68	1.18	1030.03	1482.11	2369.77	0.83	0.38	0.31	3.03
1971	0.31	0.22	0.25	0.28	0.26	0.92	0.78	1.24	1.20	1.05	0.43	0.32	0.96
1972	0.35	0.20	0.13	0.09	-	-	0.81	0.50	-	0.56	0.87	1.07	0.39
1973	0.87	0.66	0.60	0.48	10.43	2.21	1220.30	1.62	1.09	0.67	0.57	1.92	1.45
1974	1.51	7.90	4.53	4.16	5.65	0.54	0.60	0.47	0.47	0.56	0.54	0.85	0.54
1975	0.87	0.70	0.54	28.16	0.86	0.71	0.80	0.81	0.59	0.49	0.42	0.37	0.74
1976	0.56	0.61	0.51	0.40	0.41	0.72	2.07	0.54	0.80	0.61	0.92	0.75	0.83
1977	0.95	1.86	29.31	11.83	3.92	0.63	0.64	0.70	0.53	0.44	0.41	0.65	0.64
1978	0.86	1.31	0.40	3.18	8.10	0.62	0.55	0.60	0.58	0.45	0.01	0.36	0.36
1979	0.76	1.74	19.83	71.07	3.02	25.93	0.58	0.66	0.56	0.50	0.52	0.38	0.63
1980	1.33	1.03	8.84	17.96	11.06	0.52	0.69	0.63	0.79	0.51	0.54	0.81	0.69
1981	0.60	0.62	0.32	0.29	0.15	0.64	0.57	0.71	0.74	0.83	0.41	0.62	0.64
1982	0.29	0.25	0.23	0.18	0.14	0.51	0.56	0.57	0.48	0.70	0.49	0.95	0.56
1983	0.76	0.62	0.70	0.35	0.78	220.56	0.68	0.54	0.50	0.43	0.46	0.34	0.56
1984	1.16	1.23	2.78	1.43	0.63	0.79	0.82	0.74	0.86	1.72	1.35	2.74	0.82
1985	0.78	0.96	1.58	0.15	26.60	0.84	0.36	0.70	0.55	1.47	35.04	2.69	0.65
1987	0.76	1.23	1.39	41.94	34.20	3.45	0.50	0.66	0.72	0.44	0.05	0.26	0.64
1988	84.07	3.30	40.32	2.82	16.70	0.59	0.31	0.55	0.58	0.71	2.32	0.94	0.49
1989	4.18	2.31	0.21	0.24	16.83	0.14	0.42	0.54	0.54	0.32	0.48	0.56	0.49
1990	5.73	20.32	11.02	1.93	58.70	2.88	0.96	1.83	0.88	0.59	0.29	0.11	1.16
1991	0.12	0.09	0.07	3.25	3.75	1.96	15512.80	0.71	0.93	0.82	0.90	1.74	1.41
<b>MEDIA</b>	0.72	0.70	0.73	0.47	0.45	0.83	0.89	0.83	0.78	0.74	0.41	0.72	0.78
<b>DESV. EST.</b>	0.79	1.08	1.96	0.72	0.30	0.74	0.81	1.06	0.89	0.81	0.33	0.82	0.93

verde atribuido a Huaynamota

amarillo atribuido a CFE

azul, no se sabe

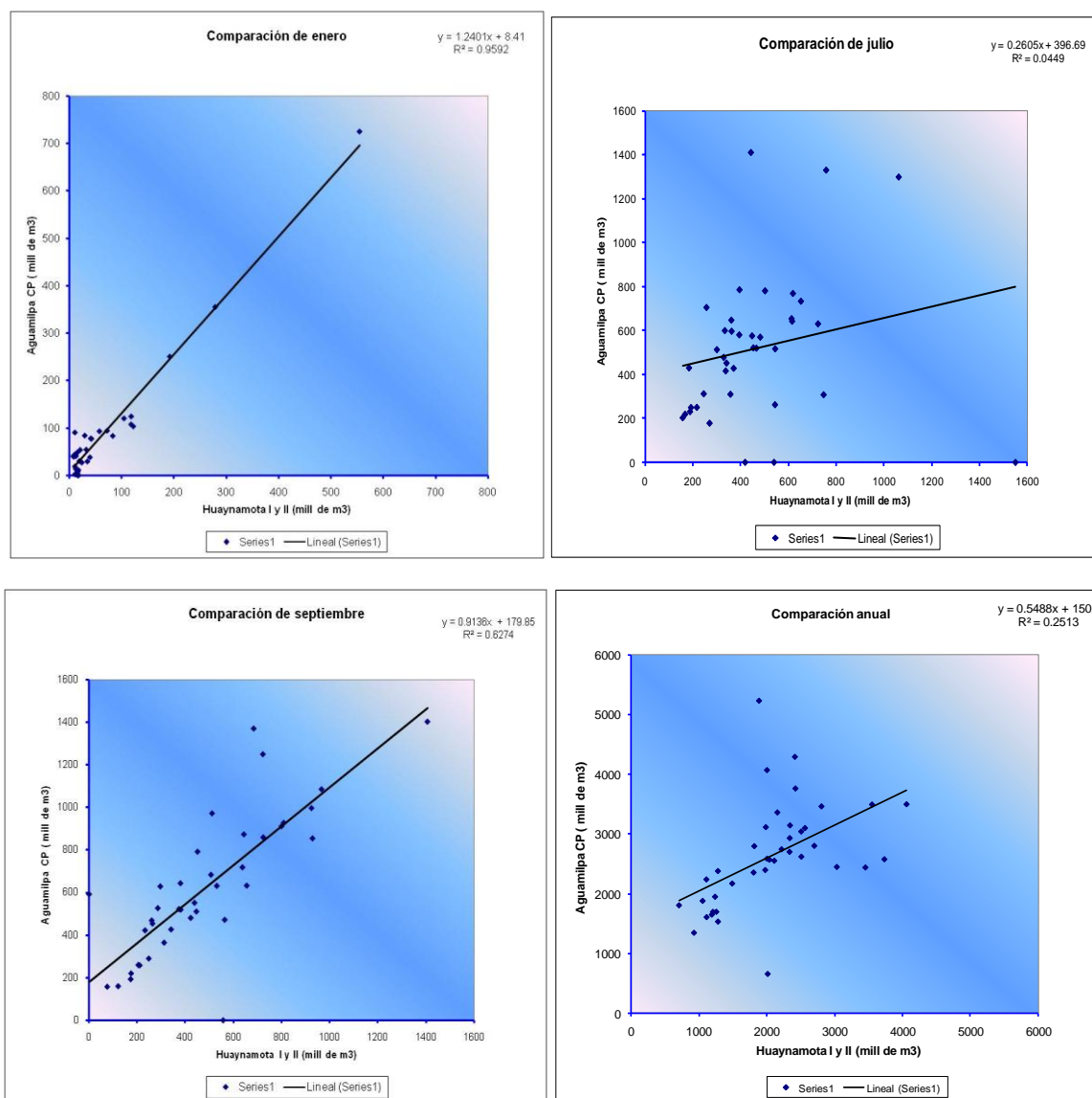
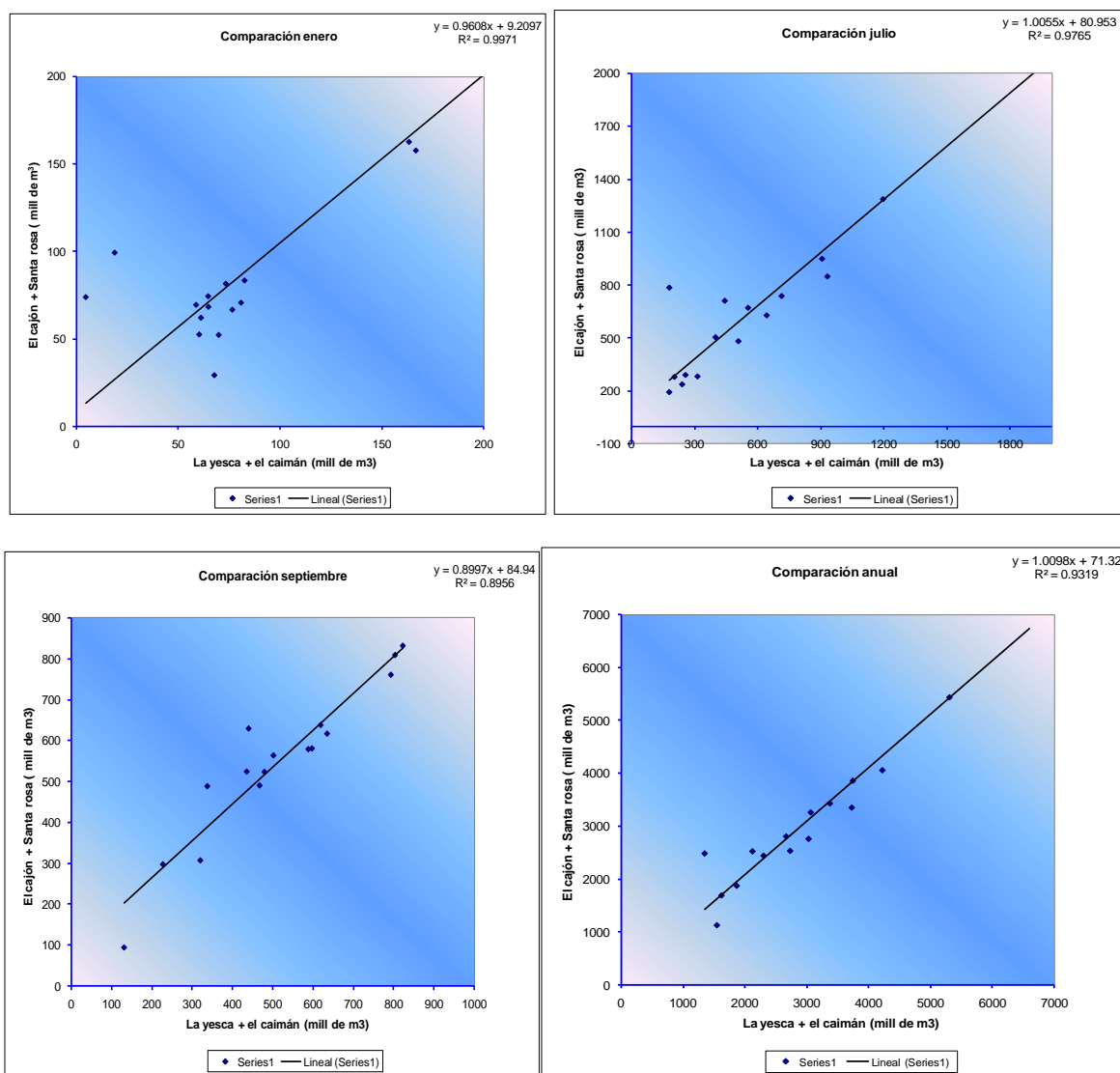


Figura A1.1 Correlaciones entre datos de hidrométricas y de cuenca propia. Presa Aguamilpa



**Figura A1.2 Correlaciones entre datos de hidrométricas y de cuenca propia. Presa La Yesca**

Después de hacer estas comparaciones, se detectaron valores muy grandes de los reportes mensuales de CFE, en particular en los años 2007 y 2008; tras una revisión se vio que, por una parte, para la cuenca propia no se estaban restando las extracciones totales de la presa analizada y en algunos casos tampoco se estaban considerando las extracciones totales de la presa aguas arriba a la de estudio. Tanto los de CFE como personal de apoyo del instituto de ingeniería hicieron las modificaciones correspondientes. Finalmente, se recalcularon los escurrimientos por cuenca propia a partir del año 1995 hasta el 2008 en los meses en que se tenía la información reportada por CFE.

Para el caso de la Yesca, para 1981 a 1982, 1984 a 1988, 1991 a 1999 se consideraron los volúmenes de la suma de las Hidrométricas El Caimán + La Yesca; para los años 1983, 1989 y 1990 y del año 2000 al 2006 se utilizaron los datos del resumen mensual dado por CFE de la suma de la cuenca propia de El Cajón más Sta. Rosa. Del 2007 al 2008 se utilizaron los valores del funcionamiento mensual reportado por CFE. En algunos meses en los que sólo se tenía el dato de una estación (o el Caimán o la Yesca) también se reportó el valor resumen por cuenca propia de El



Cajón más Sta. Rosa. En los casos en los que se tuviera un valor por cuenca propia negativo, se optó por poner el valor del resumen mensual reportado por CFE menos la extracción total de la presa aguas arriba y si persistía la cifra negativa, se optó por poner el valor promedio mensual del registro histórico.

Para el caso de Aguamilpa, se consideraron de 1981 a 1985 y de 1987 a 1991 los valores del volumen de escurrimiento mensual de las hidrométricas Huaynamota I y II multiplicados por 1.3. Para el año 1986 y de 1991 a 1994 se pusieron los reportes mensuales de CFE; de 1995 al 2008 se pusieron los valores corregidos del funcionamiento de vaso mensual reportado por la CFE; en los casos en los que se tuviera un valor por cuenca propia negativo, se optó por poner el valor del resumen mensual reportado por CFE menos la extracción total de la presa aguas arriba y si persistía la cifra negativa, se optó por poner el valor promedio mensual del registro histórico.

Con dichos registros se calcularon las probabilidades del ingreso, se utilizaron en la simulación conjunta del funcionamiento de vaso del sistema y se utilizaron como base para realizar la generación de registros sintéticos.

El archivo de datos mensuales correspondientes al periodo de 1981 al 2008 se presenta en las Tablas A.1.7 y A1.8 y los archivos de datos quincenales, en las Tablas A1.9 y A1.10

Tabla A1.7 Datos mensuales propuestos. Presa La Yesca. Volúmenes por cuenca propia, millones de m<sup>3</sup>

Año	Ene	Feb	Mar	Abr	May	Jun	Jul	Ago	Sep	Oct	Nov	Dic	Total
1981	60.27	50.99	55.64	56.69	82.23	198.46	931.66	500.21	434.70	120.57	103.03	135.60	2730.04
1982	67.71	50.33	46.44	58.87	64.03	65.57	508.73	366.77	130.33	75.64	57.91	54.83	1547.16
1983	36.843	22.432	17.415	14.257	20.312	297.98	1006.843	926.713	391.307	82.416	41.489	14.31	2872.32
1984	69.87	43.67	47.40	45.82	34.09	309.19	1195.98	1107.52	596.75	138.27	76.36	76.40	3741.31
1985	80.85	69.36	99.91	85.86	70.43	208.80	554.91	760.25	336.98	188.28	113.96	96.38	2665.98
1986	76.56	60.94	64.36	88.81	119.92	243.34	906.56	380.48	501.21	343.65	156.68	119.53	3062.02
1987	166.85	171.10	187.21	146.10	126.30	145.73	399.89	620.44	634.35	399.17	184.61	188.96	3370.72
1988	163.46	137.75	173.62	150.39	156.61	157.85	737.43	1625.02	578.61	164.24	98.59	89.24	4232.81
1989	163.09	81.27	64.74	51.11	40.91	49.74	173.07	436.12	296.26	76.82	65.91	68.19	1567.21
1990	126.44	112.23	81.14	77.20	81.36	155.99	572.75	2631.54	1025.06	443.06	154.70	69.40	5530.85
1991	73.91	43.17	62.76	68.07	52.89	108.28	4497.60	790.97	803.19	220.75	78.62	81.92	6882.13
1992	2298.80	598.21	135.50	136.87	126.01	120.71	204.73	430.94	319.59	586.88	129.39	473.85	5561.48
1993	99.30	79.61	92.16	74.26	75.14	182.16	785.14	266.42	479.03	161.71	105.98	64.16	2465.05
1994	64.77	54.01	78.74	139.83	108.34	186.48	180.32	238.63	466.72	163.01	96.34	89.52	1866.71
1995	61.13	58.79	89.95	82.17	67.68	209.58	643.24	1306.44	792.58	195.70	120.66	96.02	3723.93
1996	58.73	49.08	52.07	40.23	119.41	144.25	257.27	268.14	618.41	537.59	82.99	72.13	2300.32
1997	73.35	65.89	96.25	121.38	98.50	155.64	314.57	211.45	226.72	93.42	82.17	82.09	1621.43
1998	83.39	83.05	68.59	33.21	48.37	127.59	241.47	467.04	822.25	620.71	122.42	109.87	2827.95
1999	74.388	59.419	62.534	97.226	99.239	158.133	444.058	375.939	439.565	143.720	80.960	78.280	2113.461
2000	81.42	78.18	67.50	32.60	49.13	244.84	171.76	230.53	196.63	128.18	65.09	58.42	1404.27
2001	64.49	20.65	55.23	52.38	50.02	118.07	561.01	436.32	550.67	72.49	54.23	46.50	2082.06
2002	62.12	53.43	43.14	34.81	52.34	93.73	527.91	452.51	406.36	243.05	138.57	68.85	2176.82
2003	70.15	57.61	51.83	39.60	48.11	204.98	668.12	1262.24	1773.77	396.76	98.38	60.52	4732.06
2004	90.34	47.89	26.35	14.83	18.40	451.62	385.29	481.77	1726.51	589.85	102.91	85.25	4021.01
2005	75.59	70.97	56.43	38.25	29.05	54.12	279.37	438.27	379.99	140.29	173.23	71.17	1806.73
2006	58.95	55.93	57.12	50.38	54.71	121.79	229.17	659.10	337.82	337.99	91.01	77.93	2131.90
2007	50.82	28.79	38.36	29.37	45.47	225.07	931.26	1129.77	444.23	118.92	65.01	50.93	3158.00
2008	85.72	24.16	144.33	44.82	32.79	188.66	1327.83	1723.10	2292.09	219.87	78.23	59.62	6221.22
Media	162.12	83.18	75.60	68.05	70.42	176.01	701.35	733.02	642.92	250.11	100.69	94.28	
Desvest	420.05	106.11	40.89	39.85	36.40	84.67	810.16	562.94	503.75	172.89	36.36	80.86	
coef asim	5.24	4.55	1.39	0.84	0.66	1.26	4.05	1.81	2.11	1.00	0.69	4.12	
rj+1,j	0.9685	0.4819	0.7605	0.8483	-0.2297	0.0123	0.2136	0.5083	0.4025	0.4699	0.3987	-0.0109	

Tabla A1.8 Datos mensuales propuestos. Presa Aguamilpa. Volúmenes por cuenca propia, millones de m<sup>3</sup>

Año	ene	feb	mar	abr	may	jun	jul	ago	sep	oct	nov	dic	total
1981	42.31	16.87	11.69	9.89	5.72	105.03	985.23	560.41	658.23	135.57	25.40	24.93	2581.28
1982	15.72	10.30	8.19	5.60	4.95	32.17	468.51	318.43	97.92	124.27	103.07	181.16	1370.29
1983	249.65	40.54	46.09	10.23	32.69	57.35	511.83	1059.15	888.76	155.90	61.58	24.80	3138.57
1984	44.98	65.37	12.13	8.14	11.52	218.42	1380.50	1032.11	322.20	101.60	35.96	25.95	3258.87
1985	362.42	34.93	16.70	9.75	6.78	246.36	333.05	843.31	302.23	124.02	30.61	50.17	2360.34
1986	6.91	10.66	1.09	0.45	1.42	134.47	428.90	437.39	504.96	239.66	0.10	0.16	1766.17
1987	720.69	172.86	85.26	19.41	14.67	47.05	512.97	841.12	485.91	202.86	6.62	39.38	3148.81
1988	21.86	12.87	10.48	8.61	5.65	155.71	575.09	1356.73	342.80	79.12	16.25	17.77	2602.95
1989	14.14	9.93	7.39	5.89	4.60	9.27	237.92	612.67	371.14	62.84	54.72	51.23	1441.74
1990	17.13	60.75	11.46	5.59	8.39	104.36	799.58	2798.45	1039.36	365.03	51.49	17.23	5278.83
1991	14.01	10.60	7.46	5.29	3.80	44.32	2016.66	739.05	1201.08	270.12	79.26	98.49	4490.14
1992	2339.83	385.21	86.64	21.24	0.65	30.08	251.98	413.70	300.61	0.67	57.01	0.11	3887.73
1993	0.50	1.60	0.90	0.98	1.56	0.19	407.56	213.52	804.65	84.88	54.27	6.57	1577.18
1994	28.43	11.89	30.46	0.65	6.26	60.42	107.38	389.37	340.68	352.68	27.60	11.08	1366.91
1995	36.15	18.42	40.51	7.54	19.68	78.19	2819.99	1694.36	1057.45	147.20	53.76	9.49	5982.74
1996	36.43	39.09	12.69	27.56	43.89	178.80	418.18	735.35	1014.03	1135.40	71.65	25.57	3738.65
1997	109.89	65.12	53.79	61.91	68.54	221.92	550.52	503.70	497.97	139.51	117.72	26.24	2416.82
1998	28.16	23.42	21.27	18.66	58.36	72.29	416.17	824.96	994.02	502.88	48.91	21.16	3030.24
1999	11.03	13.11	4.55	8.92	32.16	175.19	902.44	624.41	1090.22	130.35	10.84	12.19	3015.41
2000	16.81	5.73	5.46	5.12	5.63	220.30	233.41	279.24	153.35	79.29	19.68	16.42	1040.45
2001	15.90	4.88	4.82	5.18	5.40	54.80	376.00	463.71	420.20	8.36	15.83	16.83	1391.91
2002	8.81	32.78	27.82	0.13	7.37	102.21	718.76	1085.43	670.89	405.38	79.56	18.75	3157.88
2003	78.23	7.03	6.61	7.75	3.39	115.49	636.28	1636.68	397.72	435.09	57.41	14.17	3395.85
2004	79.69	9.82	0.38	8.95	57.50	400.87	570.37	1180.83	2698.27	338.06	57.35	37.99	5440.09
2005	43.48	113.03	0.30	0.65	17.39	20.26	503.08	918.47	516.40	139.32	36.78	26.24	2335.39
2006	8.24	43.00	7.01	16.83	8.43	75.18	148.91	359.18	252.03	212.35	36.78	26.24	1194.18
2007	22.51	12.90	12.69	4.38	179.97	114.55	534.67	572.14	468.49	85.87	36.78	26.24	2071.20
2008	78.23	16.31	12.69	8.95	15.37	132.26	860.25	1395.83	613.26	126.61	22.06	55.94	3337.75
Media	159.01	44.61	19.52	10.51	22.56	114.55	668.08	853.20	660.89	220.89	45.32	31.52	2850.66
Desvest	452.29	76.39	23.22	12.10	36.17	89.09	574.62	555.11	505.79	221.66	28.19	35.41	1315.86
coef asim	4.53	3.70	1.94	3.09	3.37	1.34	2.55	1.78	2.54	2.81	0.70	3.19	0.74
rj+1,j	0.9375	0.7443	0.4912	0.2574	0.2472	-0.0009	0.4089	0.3256	0.3369	0.2522	0.4386	0.3896	

Tabla A1.9 Datos quincenales propuestos. Presa La Yesca. Volúmenes por cuenca propia, millones de m<sup>3</sup>

Año	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1981	30.14	30.14	25.50	25.50	27.82	27.82	28.34	28.34	41.11	41.11	99.23	99.23	465.83	465.83	250.10	250.10	217.35	217.35	60.28	60.28	51.51	51.51	67.80	67.80
1982	33.86	33.86	25.16	25.16	23.22	23.22	29.43	29.43	32.01	32.01	32.79	32.79	254.37	254.37	183.99	183.99	65.16	65.16	37.82	37.82	28.96	28.96	27.42	27.42
1983	18.42	18.42	11.22	11.22	8.71	8.71	7.13	7.13	10.16	10.16	148.99	148.99	503.42	503.42	463.36	463.36	195.65	195.65	41.21	41.21	20.74	20.74	7.16	7.16
1984	34.93	34.93	21.84	21.84	23.70	23.70	22.91	22.91	17.04	17.04	154.60	154.60	597.99	597.99	553.76	553.76	298.37	298.37	69.13	69.13	38.18	38.18	38.20	38.20
1985	40.42	40.42	34.68	34.68	49.96	49.96	42.93	42.93	35.22	35.22	104.40	104.40	277.46	277.46	380.13	380.13	168.49	168.49	94.14	94.14	56.98	56.98	48.19	48.19
1986	38.28	38.28	30.47	30.47	32.18	32.18	44.40	44.40	59.96	59.96	121.67	121.67	453.28	453.28	190.24	190.24	250.60	250.60	171.83	171.83	78.34	78.34	59.76	59.76
1987	83.42	83.42	85.55	85.55	93.61	93.61	73.05	73.05	63.15	63.15	72.86	72.86	199.95	199.95	310.22	310.22	317.18	317.18	199.59	199.59	92.31	92.31	94.48	94.48
1988	81.73	81.73	68.87	68.87	86.81	86.81	75.20	75.20	78.31	78.31	78.93	78.93	368.72	368.72	812.51	812.51	289.30	289.30	82.12	82.12	49.30	49.30	44.62	44.62
1989	81.54	81.54	40.63	40.63	32.37	32.37	25.55	25.55	20.45	20.45	24.87	24.87	86.54	86.54	218.06	218.06	148.13	148.13	38.41	38.41	32.95	32.95	34.09	34.09
1990	63.22	63.22	56.11	56.11	40.57	40.57	38.60	38.60	40.68	40.68	77.99	77.99	286.37	286.37	1315.77	1315.77	512.53	512.53	221.53	221.53	77.35	77.35	34.70	34.70
1991	36.95	36.95	21.59	21.59	31.38	31.38	34.03	34.03	26.44	26.44	54.14	54.14	2248.80	2248.80	395.48	395.48	401.60	401.60	110.38	110.38	39.31	39.31	40.96	40.96
1992	1149.40	1149.40	299.11	299.11	67.75	67.75	68.43	68.43	63.00	63.00	60.35	60.35	102.36	102.36	215.47	215.47	159.80	159.80	293.44	293.44	64.69	64.69	236.93	236.93
1993	49.65	49.65	39.81	39.81	46.08	46.08	37.13	37.13	37.57	37.57	91.08	91.08	392.57	392.57	133.21	133.21	239.51	239.51	80.85	80.85	52.99	52.99	32.08	32.08
1994	32.38	32.38	27.01	27.01	39.37	39.37	69.92	69.92	54.17	54.17	93.24	93.24	90.16	90.16	119.32	119.32	233.36	233.36	81.50	81.50	48.17	48.17	44.76	44.76
1995	30.57	30.57	29.40	29.40	44.97	44.97	41.08	41.08	33.84	33.84	104.79	104.79	321.62	321.62	653.22	653.22	396.29	396.29	97.85	97.85	60.33	60.33	48.01	48.01
1996	29.37	29.37	24.54	24.54	26.03	26.03	20.12	20.12	59.70	59.70	72.13	72.13	128.64	128.64	134.07	134.07	309.21	309.21	268.80	268.80	41.50	41.50	36.07	36.07
1997	36.68	36.68	32.94	32.94	48.12	48.12	60.69	60.69	49.25	49.25	77.82	77.82	157.29	157.29	105.72	105.72	113.36	113.36	46.71	46.71	41.08	41.08	41.04	41.04
1998	41.70	41.70	41.52	41.52	34.29	34.29	16.61	16.61	24.19	24.19	63.80	63.80	120.73	120.73	233.52	233.52	411.13	411.13	310.36	310.36	61.21	61.21	54.93	54.93
1999	37.19	37.19	29.71	29.71	31.27	31.27	48.61	48.61	49.62	49.62	79.07	79.07	222.03	222.03	187.97	187.97	219.78	219.78	71.86	71.86	40.48	40.48	39.14	39.14
2000	40.71	40.71	39.09	39.09	33.75	33.75	16.30	16.30	24.56	24.56	122.42	122.42	85.88	85.88	115.26	115.26	98.31	98.31	64.09	64.09	32.55	32.55	29.21	29.21
2001	32.24	32.24	10.33	10.33	27.62	27.62	26.19	26.19	25.01	25.01	59.03	59.03	280.50	280.50	218.16	218.16	275.33	275.33	36.25	36.25	27.11	27.11	23.25	23.25
2002	31.06	31.06	26.72	26.72	21.57	21.57	17.41	17.41	26.17	26.17	46.87	46.87	263.96	263.96	226.26	226.26	203.18	203.18	121.52	121.52	69.28	69.28	34.42	34.42
2003	35.08	35.08	28.80	28.80	25.91	25.91	19.80	19.80	24.05	24.05	102.49	102.49	334.06	334.06	631.12	631.12	886.89	886.89	198.38	198.38	49.19	49.19	30.26	30.26
2004	45.17	45.17	23.95	23.95	13.18	13.18	7.41	7.41	9.20	9.20	225.81	225.81	192.64	192.64	240.89	240.89	863.26	863.26	294.93	294.93	51.45	51.45	42.62	42.62
2005	37.80	37.80	35.48	35.48	28.21	28.21	19.12	19.12	14.53	14.53	27.06	27.06	139.69	139.69	219.13	219.13	190.00	190.00	70.15	70.15	86.62	86.62	35.59	35.59
2006	29.47	29.47	27.97	27.97	28.56	28.56	25.19	25.19	27.35	27.35	60.89	60.89	114.58	114.58	329.55	329.55	168.91	168.91	169.00	169.00	45.51	45.51	38.97	38.97
2007	25.41	25.41	14.39	14.39	19.18	19.18	14.68	14.68	22.74	22.74	112.54	112.54	465.63	465.63	564.89	564.89	222.11	222.11	59.46	59.46	32.50	32.50	25.47	25.47
2008	42.86	42.86	12.08	12.08	72.16	72.16	22.41	22.41	16.40	16.40	94.33	94.33	663.92	663.92	861.55	861.55	1146.04	1146.04	109.94	109.94	39.12	39.12	29.81	29.81

Tabla A1.10 Datos quincenales propuestos. Presa Aguamilpa. Volúmenes por cuenca propia, millones de m<sup>3</sup>

Año	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
1981	21.15	21.15	8.44	8.44	5.84	5.84	4.94	4.94	2.86	2.86	52.51	52.51	492.61	492.61	280.21	280.21	329.11	329.11	67.79	67.79	12.70	12.70	12.46	12.46
1982	7.86	7.86	5.15	5.15	4.10	4.10	2.80	2.80	2.48	2.48	16.08	16.08	234.26	234.26	159.22	159.22	48.96	48.96	62.13	62.13	51.54	51.54	90.58	90.58
1983	124.83	124.83	20.27	20.27	23.05	23.05	5.12	5.12	16.34	16.34	28.67	28.67	255.91	255.91	529.57	529.57	444.38	444.38	77.95	77.95	30.79	30.79	12.40	12.40
1984	22.49	22.49	32.68	32.68	6.06	6.06	4.07	4.07	5.76	5.76	109.21	109.21	690.25	690.25	516.05	516.05	161.10	161.10	50.80	50.80	17.98	17.98	12.98	12.98
1985	181.21	181.21	17.46	17.46	8.35	8.35	4.88	4.88	3.39	3.39	123.18	123.18	166.53	166.53	421.65	421.65	151.12	151.12	62.01	62.01	15.31	15.31	25.09	25.09
1986	3.45	3.45	5.33	5.33	0.54	0.54	0.23	0.23	0.71	0.71	67.24	67.24	214.45	214.45	218.70	218.70	252.48	252.48	119.83	119.83	0.05	0.05	0.08	0.08
1987	360.35	360.35	86.43	86.43	42.63	42.63	9.71	9.71	7.34	7.34	23.53	23.53	256.48	256.48	420.56	420.56	242.96	242.96	101.43	101.43	3.31	3.31	19.69	19.69
1988	10.93	10.93	6.44	6.44	5.24	5.24	4.31	4.31	2.82	2.82	77.85	77.85	287.55	287.55	678.36	678.36	171.40	171.40	39.56	39.56	8.13	8.13	8.88	8.88
1989	7.07	7.07	4.96	4.96	3.70	3.70	2.94	2.94	2.30	2.30	4.64	4.64	118.96	118.96	306.33	306.33	185.57	185.57	31.42	31.42	27.36	27.36	25.62	25.62
1990	8.56	8.56	30.38	30.38	5.73	5.73	2.79	2.79	4.20	4.20	52.18	52.18	399.79	399.79	1399.23	1399.23	519.68	519.68	182.51	182.51	25.74	25.74	8.62	8.62
1991	7.01	7.01	5.30	5.30	3.73	3.73	2.64	2.64	1.90	1.90	22.16	22.16	1008.33	1008.33	369.52	369.52	600.54	600.54	135.06	135.06	39.63	39.63	49.25	49.25
1992	1169.92	1169.92	192.60	192.60	43.32	43.32	10.62	10.62	0.33	0.33	15.04	15.04	125.99	125.99	206.85	206.85	150.30	150.30	0.34	0.34	28.51	28.51	0.06	0.06
1993	0.25	0.25	0.80	0.80	0.45	0.45	0.49	0.49	0.78	0.78	0.10	0.10	203.78	203.78	106.76	106.76	402.32	402.32	42.44	42.44	27.13	27.13	3.29	3.29
1994	14.22	14.22	5.94	5.94	15.23	15.23	0.33	0.33	3.13	3.13	30.21	30.21	53.69	53.69	194.69	194.69	170.34	170.34	176.34	176.34	13.80	13.80	5.54	5.54
1995	18.07	18.07	9.21	9.21	20.26	20.26	3.77	3.77	9.84	9.84	39.09	39.09	1410.00	1410.00	847.18	847.18	528.73	528.73	73.60	73.60	26.88	26.88	4.75	4.75
1996	18.22	18.22	19.55	19.55	6.35	6.35	13.78	13.78	21.95	21.95	89.40	89.40	209.09	209.09	367.68	367.68	507.01	507.01	567.70	567.70	35.83	35.83	12.79	12.79
1997	54.95	54.95	32.56	32.56	26.90	26.90	30.95	30.95	34.27	34.27	110.96	110.96	275.26	275.26	251.85	251.85	248.98	248.98	69.75	69.75	58.86	58.86	13.12	13.12
1998	14.08	14.08	11.71	11.71	10.63	10.63	9.33	9.33	29.18	29.18	36.14	36.14	208.08	208.08	412.48	412.48	497.01	497.01	251.44	251.44	24.45	24.45	10.58	10.58
1999	5.52	5.52	6.56	6.56	2.28	2.28	4.46	4.46	16.08	16.08	87.60	87.60	451.22	451.22	312.21	312.21	545.11	545.11	65.17	65.17	5.42	5.42	6.09	6.09
2000	8.40	8.40	2.86	2.86	2.73	2.73	2.56	2.56	2.82	2.82	110.15	110.15	116.71	116.71	139.62	139.62	76.68	76.68	39.65	39.65	9.84	9.84	8.21	8.21
2001	7.95	7.95	2.44	2.44	2.41	2.41	2.59	2.59	2.70	2.70	27.40	27.40	188.00	188.00	231.85	231.85	210.10	210.10	4.18	4.18	7.92	7.92	8.41	8.41
2002	4.41	4.41	16.39	16.39	13.91	13.91	0.06	0.06	3.68	3.68	51.10	51.10	359.38	359.38	542.71	542.71	335.44	335.44	202.69	202.69	39.78	39.78	9.37	9.37
2003	39.12	39.12	3.52	3.52	3.31	3.31	3.87	3.87	1.69	1.69	57.75	57.75	318.14	318.14	818.34	818.34	198.86	198.86	217.54	217.54	28.71	28.71	7.08	7.08
2004	39.85	39.85	4.91	4.91	0.19	0.19	4.48	4.48	28.75	28.75	200.44	200.44	285.18	285.18	590.41	590.41	1349.13	1349.13	169.03	169.03	28.67	28.67	19.00	19.00
2005	21.74	21.74	56.51	56.51	0.15	0.15	0.33	0.33	8.70	8.70	10.13	10.13	251.54	251.54	459.23	459.23	258.20	258.20	69.66	69.66	18.39	18.39	13.12	13.12
2006	4.12	4.12	21.50	21.50	3.50	3.50	8.41	8.41	4.22	4.22	37.59	37.59	74.46	74.46	179.59	179.59	126.01	126.01	106.18	106.18	18.39	18.39	13.12	13.12
2007	11.25	11.25	6.45	6.45	6.35	6.35	2.19	2.19	89.99	89.99	57.28	57.28	267.33	267.33	286.07	286.07	234.25	234.25	42.94	42.94	18.39	18.39	13.12	13.12
2008	39.12	39.12	8.15	8.15	6.35	6.35	4.48	4.48	7.69	7.69	66.13	66.13	430.12	430.12	697.92	697.92	306.63	306.63	63.30	63.30	11.03	11.03	27.97	27.97

La lámina de evaporación neta se estimó a partir de los datos disponibles del funcionamiento histórico diario para la presas El Cajón y Aguamilpa, mientras que para La Yesca se consideró la lámina promedio del cajón más santa rosa; dichos valores se multiplicaron por 0.7. Adicionalmente se obtuvieron datos de las evaporaciones netas en los embalses que tenía personal de CFE ubicada en Río Mississippi; al comparar los resultados de la operación diaria, se observaron ligeras variaciones para las presas La Yesca y El Cajón, pero una variación importante en la presa Aguamilpa, finalmente se consideraron estos últimos reportes para efectos de la simulación, debido a que son los datos que oficialmente ha utilizado la Gerencia correspondiente (Tablas A1.11 y A1.12)

**Tabla A1.11 Evaporación neta en mm. Presas del río Santiago. Del funcionamiento diario**

Presa	Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre
La Yesca	66.47	82.83	126.62	135.98	162.54	91.88	77.89	73.26	51.99	54.78	42.92	38.57
El Cajón	92.98	112.36	168.99	197.07	181.48	88.65	66.34	64.63	52.29	59.35	46.41	45.97
Aguamilpa	101.31	114.04	147.29	157.05	179.98	124.74	130.41	118.07	95.06	90.34	87.91	50.73

**Tabla A1.12 Evaporación neta en mm. Presas del río Santiago. CFE río Mississippi**

Presa	Enero	Febrero	Marzo	Abril	Mayo	Junio	Julio	Agosto	Septiembre	Octubre	Noviembre	Diciembre
La Yesca	69.59	104.71	179.03	211.42	223.49	31.27	-133.32	-96.67	-49.58	48.85	68.79	50.84
El Cajón	69	95	143	170	191	37	-125	-103	-55	43	83	54
Aguamilpa	23.5	63.1	97.4	115.6	115	-40.6	-269.1	-221.1	-154.6	0.1	33.2	24.3

**ANEXO 2.  
SIMULACIÓN DEL REGISTRO  
HISTÓRICO CON LA POLÍTICA 21**

--\*--\*--\*--\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO --\*--\*--\*--\*

PRESA: LA YESCA

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1981 *****									
1Q ENE	1500.00	30.14	1.444	300.00	300.00	300.00	.00	.00	224.62
2Q ENE	1228.70	30.14	1.331	225.00	225.00	225.00	.00	.00	164.60
1Q FEB	1032.50	25.50	1.870	112.50	112.50	112.50	.00	.00	81.05
2Q FEB	943.63	25.50	1.812	94.00	94.00	94.00	.00	.00	67.11
1Q MAR	873.32	27.82	3.019	94.00	94.00	94.00	.00	.00	66.56
2Q MAR	804.12	27.82	2.937	75.00	75.00	75.00	.00	.00	52.72
1Q ABR	754.01	28.34	3.399	75.00	75.00	75.00	.00	.00	52.39
2Q ABR	703.95	28.34	3.341	75.00	75.00	75.00	.00	.00	52.05
1Q MAY	653.95	41.11	3.479	56.50	56.50	56.50	.00	.00	39.04
2Q MAY	635.08	41.11	3.457	56.50	56.50	56.50	.00	.00	38.94
1Q JUN	616.23	99.23	.485	225.00	225.00	225.00	.00	.00	153.53
2Q JUN	489.97	99.23	.464	150.00	150.00	150.00	.00	.00	101.07
1Q JUL	438.74	465.83	-2.074	225.00	225.00	225.00	.00	.00	153.62
2Q JUL	681.64	465.83	-2.272	375.00	375.00	375.00	.00	.00	261.91
1Q AGO	774.75	250.10	-1.638	450.00	450.00	450.00	.00	.00	312.11
2Q AGO	576.48	250.10	-1.519	375.00	375.00	375.00	.00	.00	254.49
1Q SEP	453.10	217.35	-.741	225.00	225.00	225.00	.00	.00	151.28
2Q SEP	446.19	217.35	-.739	225.00	225.00	225.00	.00	.00	151.13
1Q OCT	439.28	60.28	.705	75.00	75.00	75.00	.00	.00	50.29
2Q OCT	423.86	60.28	.700	75.00	75.00	75.00	.00	.00	50.18
1Q NOV	408.44	51.51	.978	75.00	75.00	75.00	.00	.00	50.03
2Q NOV	383.97	51.51	.968	75.00	75.00	75.00	.00	.00	49.84
1Q DIC	359.51	67.80	.711	37.50	37.50	37.50	.00	.00	24.93
2Q DIC	389.10	67.80	.720	75.00	75.00	75.00	.00	.00	49.95

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1982 *****									
1Q ENE	381.18	33.86	.975	75.00	86.19	86.19	.00	.00	57.12
2Q ENE	327.88	33.86	.952	37.50	48.69	48.69	.00	.00	32.09
1Q FEB	312.10	25.16	1.420	19.00	18.75	18.75	.00	.00	12.35
2Q FEB	317.09	25.16	1.423	19.00	18.75	18.75	.00	.00	12.36
1Q MAR	322.08	23.22	2.437	19.00	18.75	18.75	.00	.00	12.37
2Q MAR	324.11	23.22	2.440	19.00	18.75	18.75	.00	.00	12.37
1Q ABR	326.14	29.43	2.888	19.00	18.75	18.75	.00	.00	12.38
2Q ABR	333.93	29.43	2.898	19.00	18.75	18.75	.00	.00	12.39
1Q MAY	341.72	32.01	3.076	19.00	18.75	18.75	.00	.00	12.41
2Q MAY	351.90	32.01	3.090	19.00	18.75	18.75	.00	.00	12.43
1Q JUN	362.07	32.79	.434	75.00	76.71	76.71	.00	.00	50.73
2Q JUN	317.72	32.79	.426	75.00	76.71	76.71	.00	.00	50.37
1Q JUL	273.37	254.37	-1.869	150.00	143.50	143.50	.00	.00	94.74
2Q JUL	386.11	254.37	-1.957	225.00	218.50	218.50	.00	.00	145.94
1Q AGO	423.94	183.39	-1.420	300.00	285.71	285.71	.00	.00	189.90
2Q AGO	323.04	183.39	-1.363	225.00	210.71	210.71	.00	.00	138.68
1Q SEP	297.08	65.16	-.674	150.00	75.00	75.00	.00	.00	49.22
2Q SEP	287.92	65.16	-.671	150.00	75.00	75.00	.00	.00	49.15
1Q OCT	278.75	37.82	.654	75.00	75.00	75.00	.00	.00	48.96
2Q OCT	240.92	37.82	.643	75.00	75.00	75.00	.00	.00	48.66
1Q NOV	203.09	28.96	.886	75.00	75.00	75.00	.00	.00	48.30
2Q NOV	156.17	28.96	.865	75.00	75.00	75.00	.00	.00	47.91
1Q DIC	109.26	27.42	.622	37.50	37.50	37.50	.00	.00	23.83
2Q DIC	98.56	27.42	.618	37.50	37.50	37.50	.00	.00	23.78



QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1983 *****									
1Q ENE	87.86	18.42	.838	37.50	37.50	37.50	.00	.00	23.71
2Q ENE	67.94	18.42	.828	37.50	37.50	37.50	.00	.00	23.63
1Q FEB	48.04	11.22	1.227	19.00	18.75	18.75	.00	.00	11.78
2Q FEB	39.28	11.22	1.220	19.00	18.75	18.75	.00	.00	11.76
1Q MAR	30.53	8.71	2.074	19.00	18.75	18.75	.00	.00	11.74
2Q MAR	18.41	8.71	2.064	19.00	18.75	18.75	.00	.00	11.71
1Q ABR	6.31	7.13	2.424	19.00	18.75	11.02	.00	7.73	6.87
2Q ABR	.00	7.13	2.418	19.00	18.75	4.71	.00	14.04	2.94
1Q MAY	.00	10.16	2.558	19.00	18.75	7.60	.00	11.15	4.74
2Q MAY	.00	10.16	2.558	19.00	18.75	7.60	.00	11.15	4.74
1Q JUN	.00	148.99	.371	75.00	88.38	88.38	.00	.00	55.38
2Q JUN	60.23	148.99	.386	75.00	88.38	88.38	.00	.00	56.02
1Q JUL	120.45	503.42	-1.847	75.00	82.18	82.18	.00	.00	54.19
2Q JUL	543.54	503.42	-2.167	300.00	307.18	307.18	.00	.00	212.13
1Q AGO	741.95	463.36	-1.683	450.00	472.67	472.67	.00	.00	330.56
2Q AGO	734.33	463.36	-1.679	450.00	472.67	472.67	.00	.00	330.23
1Q SEP	726.70	195.65	-.816	375.00	419.05	419.05	.00	.00	288.31
2Q SEP	504.12	195.65	-.752	225.00	269.05	269.05	.00	.00	181.37
1Q OCT	431.48	41.21	.700	75.00	75.00	75.00	.00	.00	50.16
2Q OCT	396.99	41.21	.690	75.00	75.00	75.00	.00	.00	49.90
1Q NOV	362.51	20.74	.953	75.00	75.00	75.00	.00	.00	49.56
2Q NOV	307.29	20.74	.930	75.00	75.00	75.00	.00	.00	49.12
1Q DIC	252.10	7.16	.668	37.50	37.50	37.50	.00	.00	24.39
2Q DIC	221.10	7.16	.657	37.50	37.50	37.50	.00	.00	24.26

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1984 *****									
1Q ENE	190.10	34.93	.892	37.50	37.50	37.50	.00	.00	24.19
2Q ENE	186.64	34.93	.890	37.50	37.50	37.50	.00	.00	24.17
1Q FEB	183.18	21.84	1.333	19.00	18.75	18.75	.00	.00	12.09
2Q FEB	184.93	21.84	1.334	19.00	18.75	18.75	.00	.00	12.09
1Q MAR	186.69	23.70	2.284	19.00	18.75	18.75	.00	.00	12.09
2Q MAR	189.36	23.70	2.287	19.00	18.75	18.75	.00	.00	12.10
1Q ABR	192.02	22.91	2.704	19.00	18.75	18.75	.00	.00	12.10
2Q ABR	193.47	22.91	2.706	19.00	18.75	18.75	.00	.00	12.11
1Q MAY	194.93	17.04	2.858	19.00	18.75	18.75	.00	.00	12.10
2Q MAY	190.36	17.04	2.852	19.00	18.75	18.75	.00	.00	12.09
1Q JUN	185.80	154.60	.412	75.00	84.71	84.71	.00	.00	54.94
2Q JUN	255.28	154.60	.425	75.00	84.71	84.71	.00	.00	55.57
1Q JUL	324.74	597.99	-2.039	150.00	157.84	157.84	.00	.00	107.46
2Q JUL	766.94	597.99	-2.399	375.00	382.84	382.84	.00	.00	272.21
1Q AGO	984.49	553.76	-1.860	600.00	600.00	600.00	.00	.00	431.01
2Q AGO	940.11	553.76	-1.834	525.00	561.70	561.70	.00	.00	402.35
1Q SEP	934.00	298.37	-.898	450.00	535.16	535.16	.00	.00	377.77
2Q SEP	698.11	298.37	-.823	375.00	460.16	460.16	.00	.00	316.72
1Q OCT	537.14	69.13	.733	75.00	75.00	75.00	.00	.00	51.04
2Q OCT	530.54	69.13	.731	75.00	75.00	75.00	.00	.00	50.99
1Q NOV	523.93	38.18	1.021	75.00	75.00	75.00	.00	.00	50.83
2Q NOV	486.09	38.18	1.007	75.00	75.00	75.00	.00	.00	50.56
1Q DIC	448.27	38.20	.733	75.00	64.21	64.21	.00	.00	43.08
2Q DIC	421.52	38.20	.725	75.00	64.21	64.21	.00	.00	42.91

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1985 *****									
1Q ENE	394.79	40.42	.982	75.00	70.16	70.16	.00	.00	46.68
2Q ENE	364.07	40.42	.969	37.50	37.50	37.50	.00	.00	24.90
1Q FEB	366.02	34.68	1.457	19.00	18.75	18.75	.00	.00	12.46
2Q FEB	380.49	34.68	1.466	37.50	27.56	27.56	.00	.00	18.35
1Q MAR	386.15	49.96	2.521	37.50	36.22	36.22	.00	.00	24.14
2Q MAR	397.37	49.96	2.533	37.50	36.22	36.22	.00	.00	24.18
1Q ABR	408.58	42.93	3.001	37.50	46.51	46.51	.00	.00	31.07
2Q ABR	402.00	42.93	2.993	37.50	46.51	46.51	.00	.00	31.04
1Q MAY	395.42	35.22	3.150	37.50	44.40	44.40	.00	.00	29.59
2Q MAY	383.09	35.22	3.133	37.50	44.40	44.40	.00	.00	29.53
1Q JUN	370.77	104.40	.443	75.00	75.00	75.00	.00	.00	49.95
2Q JUN	399.73	104.40	.448	75.00	75.00	75.00	.00	.00	50.16
1Q JUL	428.68	277.46	-1.998	225.00	226.93	226.93	.00	.00	152.70
2Q JUL	481.21	277.46	-2.037	225.00	226.93	226.93	.00	.00	153.86
1Q AGO	533.78	380.13	-1.530	375.00	364.13	364.13	.00	.00	248.10
2Q AGO	551.31	380.13	-1.539	375.00	364.13	364.13	.00	.00	248.71
1Q SEP	568.84	168.49	-.766	300.00	306.19	306.19	.00	.00	207.36
2Q SEP	431.90	168.49	-.729	225.00	231.19	231.19	.00	.00	154.32
1Q OCT	369.93	94.14	.690	75.00	75.00	75.00	.00	.00	49.90
2Q OCT	388.38	94.14	.695	75.00	75.00	75.00	.00	.00	50.04
1Q NOV	406.82	56.98	.979	75.00	75.00	75.00	.00	.00	50.04
2Q NOV	387.82	56.98	.971	75.00	75.00	75.00	.00	.00	49.89
1Q DIC	368.83	48.19	.710	37.50	43.38	43.38	.00	.00	28.83
2Q DIC	372.93	48.19	.712	37.50	43.38	43.38	.00	.00	28.84

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1986 *****									
1Q ENE	377.03	38.28	.974	75.00	75.57	75.57	.00	.00	50.11
2Q ENE	338.77	38.28	.958	37.50	38.07	38.07	.00	.00	25.17
1Q FEB	338.03	30.47	1.438	19.00	18.75	18.75	.00	.00	12.41
2Q FEB	348.31	30.47	1.445	19.00	18.75	18.75	.00	.00	12.43
1Q MAR	358.58	32.18	2.483	19.00	18.75	18.75	.00	.00	12.45
2Q MAR	369.53	32.18	2.494	19.00	18.75	18.75	.00	.00	12.47
1Q ABR	380.47	44.40	2.967	37.50	33.33	33.33	.00	.00	22.20
2Q ABR	388.57	44.40	2.977	37.50	33.33	33.33	.00	.00	22.22
1Q MAY	396.65	59.96	3.168	37.50	45.54	45.54	.00	.00	30.41
2Q MAY	407.90	59.96	3.183	37.50	45.54	45.54	.00	.00	30.46
1Q JUN	419.14	121.67	.453	150.00	136.78	136.78	.00	.00	91.44
2Q JUN	403.58	121.67	.450	150.00	136.78	136.78	.00	.00	91.23
1Q JUL	388.03	453.28	-2.033	225.00	228.96	228.96	.00	.00	155.05
2Q JUL	614.38	453.28	-2.208	300.00	303.96	303.96	.00	.00	211.25
1Q AGO	765.90	190.24	-1.614	450.00	465.23	465.23	.00	.00	320.64
2Q AGO	492.53	190.24	-1.459	300.00	315.23	315.23	.00	.00	211.35
1Q SEP	369.00	250.60	-.723	150.00	75.00	75.00	.00	.00	50.47
2Q SEP	545.33	250.60	-.771	300.00	219.83	219.83	.00	.00	150.17
1Q OCT	576.86	171.83	.757	75.00	75.00	75.00	.00	.00	51.68
2Q OCT	672.94	171.83	.782	75.00	75.00	75.00	.00	.00	52.33
1Q NOV	768.98	78.34	1.124	225.00	229.62	229.62	.00	.00	159.64
2Q NOV	616.58	78.34	1.064	75.00	79.62	79.62	.00	.00	54.80
1Q DIC	614.23	59.76	.783	112.50	137.32	137.32	.00	.00	93.98
2Q DIC	535.89	59.76	.761	112.50	137.32	137.32	.00	.00	92.95

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1987 *****									
1Q ENE	457.58	83.42	1.016	75.00	81.83	81.83	.00	.00	55.09
2Q ENE	458.15	83.42	1.016	75.00	81.83	81.83	.00	.00	55.09
1Q FEB	458.72	85.55	1.530	37.50	38.08	38.08	.00	.00	25.72
2Q FEB	504.66	85.55	1.557	37.50	38.08	38.08	.00	.00	25.89
1Q MAR	550.57	93.61	2.712	56.50	64.66	64.66	.00	.00	44.19
2Q MAR	576.81	93.61	2.739	56.50	64.66	64.66	.00	.00	44.35
1Q ABR	603.02	73.05	3.252	56.50	97.87	97.87	.00	.00	67.11
2Q ABR	574.95	73.05	3.220	56.50	97.87	97.87	.00	.00	66.85
1Q MAY	546.91	63.15	3.362	56.50	86.74	86.74	.00	.00	59.02
2Q MAY	519.96	63.15	3.329	37.50	67.74	67.74	.00	.00	45.98
1Q JUN	512.05	72.86	.465	150.00	135.07	135.07	.00	.00	91.23
2Q JUN	449.37	72.86	.454	150.00	135.07	135.07	.00	.00	90.39
1Q JUL	386.70	199.95	-1.937	225.00	223.22	223.22	.00	.00	148.45
2Q JUL	365.37	199.95	-1.920	150.00	148.22	148.22	.00	.00	98.81
1Q AGO	419.03	310.22	-1.452	300.00	277.63	277.63	.00	.00	186.29
2Q AGO	453.07	310.22	-1.470	300.00	277.63	277.63	.00	.00	187.23
1Q SEP	487.13	317.18	-.764	225.00	199.40	199.40	.00	.00	135.93
2Q SEP	605.67	317.18	-.796	300.00	274.40	274.40	.00	.00	189.15
1Q OCT	649.25	199.59	.780	75.00	75.00	75.00	.00	.00	52.27
2Q OCT	773.06	199.59	.819	75.00	75.00	75.00	.00	.00	53.08
1Q NOV	896.83	92.31	1.185	300.00	307.36	307.36	.00	.00	216.26
2Q NOV	680.59	92.31	1.090	225.00	232.36	232.36	.00	.00	159.78
1Q DIC	539.45	94.48	.767	112.50	149.70	149.70	.00	.00	101.56
2Q DIC	483.46	94.48	.751	75.00	112.20	112.20	.00	.00	75.71
***** 1988 *****									
QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	464.98	81.73	1.019	75.00	100.63	100.63	.00	.00	67.72
2Q ENE	445.06	81.73	1.011	75.00	100.63	100.63	.00	.00	67.52
1Q FEB	425.14	68.87	1.505	37.50	37.66	37.66	.00	.00	25.29
2Q FEB	454.85	68.87	1.523	37.50	37.66	37.66	.00	.00	25.40
1Q MAR	484.53	86.81	2.643	37.50	42.57	42.57	.00	.00	28.85
2Q MAR	526.13	86.81	2.685	56.50	61.57	61.57	.00	.00	41.92
1Q ABR	548.69	75.20	3.190	56.50	92.83	92.83	.00	.00	63.21
2Q ABR	527.87	75.20	3.165	56.50	92.83	92.83	.00	.00	63.03
1Q MAY	507.08	78.31	3.322	37.50	69.40	69.40	.00	.00	47.07
2Q MAY	512.67	78.31	3.329	37.50	69.40	69.40	.00	.00	47.11
1Q JUN	518.25	78.93	.467	150.00	126.97	126.97	.00	.00	85.92
2Q JUN	469.74	78.93	.458	150.00	126.97	126.97	.00	.00	85.32
1Q JUL	421.24	368.72	-2.026	225.00	223.93	223.93	.00	.00	151.52
2Q JUL	568.05	368.72	-2.131	300.00	298.93	298.93	.00	.00	205.41
1Q AGO	639.97	812.51	-1.727	375.00	377.68	377.68	.00	.00	267.77
2Q AGO	1076.53	812.51	-1.988	600.00	600.00	600.00	.00	.00	441.34
1Q SEP	1291.03	289.30	-1.006	600.00	600.00	600.00	.00	.00	439.06
2Q SEP	981.34	289.30	-.911	525.00	600.00	600.00	.00	.00	423.97
1Q OCT	671.55	82.12	.770	75.00	75.00	75.00	.00	.00	52.02
2Q OCT	677.90	82.12	.772	75.00	75.00	75.00	.00	.00	52.07
1Q NOV	684.25	49.30	1.084	225.00	220.76	220.76	.00	.00	151.54
2Q NOV	511.70	49.30	1.019	75.00	75.00	75.00	.00	.00	50.79
1Q DIC	484.99	44.62	.745	75.00	74.07	74.07	.00	.00	49.95
2Q DIC	454.79	44.62	.736	75.00	74.07	74.07	.00	.00	49.73

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1989 *****									
1Q ENE	424.61	81.54	1.002	75.00	73.64	73.64	.00	.00	49.35
2Q ENE	431.51	81.54	1.005	75.00	73.64	73.64	.00	.00	49.40
1Q FEB	438.41	40.63	1.504	37.50	37.62	37.62	.00	.00	25.25
2Q FEB	439.92	40.63	1.505	37.50	37.62	37.62	.00	.00	25.26
1Q MAR	441.42	32.37	2.570	37.50	37.32	37.32	.00	.00	25.05
2Q MAR	433.90	32.37	2.562	37.50	37.32	37.32	.00	.00	25.02
1Q ABR	426.39	25.55	3.012	37.50	33.48	33.48	.00	.00	22.41
2Q ABR	415.45	25.55	2.999	37.50	33.48	33.48	.00	.00	22.38
1Q MAY	404.53	20.45	3.152	37.50	30.94	30.94	.00	.00	20.64
2Q MAY	390.89	20.45	3.134	37.50	30.94	30.94	.00	.00	20.60
1Q JUN	377.26	24.87	.436	150.00	157.89	157.89	.00	.00	103.91
2Q JUN	243.81	24.87	.411	75.00	82.89	82.89	.00	.00	53.70
1Q JUL	185.38	86.54	-1.727	75.00	75.00	75.00	.00	.00	48.41
2Q JUL	198.65	86.54	-1.739	75.00	75.00	75.00	.00	.00	48.52
1Q AGO	211.93	218.06	-1.308	150.00	110.80	110.80	.00	.00	72.40
2Q AGO	320.50	218.06	-1.372	225.00	185.80	185.80	.00	.00	122.82
1Q SEP	354.13	148.13	-.703	150.00	82.48	82.48	.00	.00	54.94
2Q SEP	420.48	148.13	-.723	225.00	157.48	157.48	.00	.00	105.36
1Q OCT	411.84	38.41	.694	75.00	75.00	75.00	.00	.00	50.01
2Q OCT	374.56	38.41	.683	75.00	75.00	75.00	.00	.00	49.72
1Q NOV	337.29	32.95	.945	75.00	75.00	75.00	.00	.00	49.41
2Q NOV	294.29	32.95	.927	75.00	75.00	75.00	.00	.00	49.07
1Q DIC	251.31	34.09	.672	37.50	37.50	37.50	.00	.00	24.44
2Q DIC	247.23	34.09	.670	37.50	37.50	37.50	.00	.00	24.42
***** 1990 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	243.15	63.22	.922	37.50	37.50	37.50	.00	.00	24.47
2Q ENE	267.95	63.22	.933	37.50	37.50	37.50	.00	.00	24.56
1Q FEB	292.74	56.11	1.417	19.00	18.75	18.75	.00	.00	12.34
2Q FEB	328.68	56.11	1.440	19.00	18.75	18.75	.00	.00	12.41
1Q MAR	364.60	40.57	2.493	19.00	21.70	21.70	.00	.00	14.42
2Q MAR	380.98	40.57	2.511	37.50	40.20	40.20	.00	.00	26.75
1Q ABR	378.84	38.60	2.961	37.50	39.55	39.55	.00	.00	26.31
2Q ABR	374.93	38.60	2.956	19.00	21.05	21.05	.00	.00	14.01
1Q MAY	389.52	40.68	3.146	37.50	41.05	41.05	.00	.00	27.35
2Q MAY	386.01	40.68	3.141	37.50	41.05	41.05	.00	.00	27.33
1Q JUN	382.50	77.99	.442	150.00	147.08	147.08	.00	.00	97.38
2Q JUN	312.97	77.99	.429	75.00	75.00	75.00	.00	.00	49.39
1Q JUL	315.53	286.37	-1.915	150.00	148.82	148.82	.00	.00	99.09
2Q JUL	454.99	286.37	-2.020	225.00	223.82	223.82	.00	.00	151.31
1Q AGO	519.56	1315.77	-1.809	300.00	290.46	290.46	.00	.00	209.24
2Q AGO	1546.69	1315.77	-2.402	600.00	590.46	1301.24	710.78	.00	450.02
1Q SEP	1563.62	512.53	-1.116	600.00	600.00	600.00	.00	.00	455.86
2Q SEP	1477.27	512.53	-1.090	600.00	600.00	600.00	.00	.00	452.29
1Q OCT	1390.89	221.53	1.010	300.00	326.41	326.41	.00	.00	243.83
2Q OCT	1285.00	221.53	.980	300.00	326.41	326.41	.00	.00	241.30
1Q NOV	1179.14	77.35	1.305	450.00	459.53	459.53	.00	.00	330.80
2Q NOV	795.66	77.35	1.136	225.00	234.53	234.53	.00	.00	163.54
1Q DIC	637.34	34.70	.786	75.00	98.94	98.94	.00	.00	67.99
2Q DIC	572.31	34.70	.768	112.50	136.44	136.44	.00	.00	92.68

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1991 *****									
1Q ENE	469.81	36.95	1.012	75.00	68.26	68.26	.00	.00	45.92
2Q ENE	437.48	36.95	.998	75.00	68.26	68.26	.00	.00	45.71
1Q FEB	405.17	21.59	1.478	37.50	26.71	26.71	.00	.00	17.83
2Q FEB	398.58	21.59	1.473	37.50	26.71	26.71	.00	.00	17.81
1Q MAR	391.99	31.38	2.517	37.50	33.79	33.79	.00	.00	22.51
2Q MAR	387.06	31.38	2.512	37.50	33.79	33.79	.00	.00	22.50
1Q ABR	382.14	34.03	2.962	37.50	32.74	32.74	.00	.00	21.79
2Q ABR	380.47	34.03	2.960	37.50	32.74	32.74	.00	.00	21.79
1Q MAY	378.80	26.44	3.122	37.50	37.51	37.51	.00	.00	24.93
2Q MAY	364.61	26.44	3.103	19.00	19.01	19.01	.00	.00	12.62
1Q JUN	368.94	54.14	.438	75.00	79.69	79.69	.00	.00	52.83
2Q JUN	342.95	54.14	.433	75.00	79.69	79.69	.00	.00	52.61
1Q JUL	316.98	2248.80	-2.710	150.00	146.01	1004.87	858.85	.00	103.79
2Q JUL	1563.62	2248.80	-6.454	600.00	596.01	2255.25	1659.24	.00	454.60
1Q AGO	1563.62	395.48	-2.140	600.00	600.00	600.00	.00	.00	453.43
2Q AGO	1361.24	395.48	-2.031	600.00	600.00	600.00	.00	.00	444.75
1Q SEP	1158.75	401.60	-.984	600.00	600.00	600.00	.00	.00	435.62
2Q SEP	961.33	401.60	-.923	450.00	463.18	463.18	.00	.00	331.55
1Q OCT	900.68	110.38	.845	150.00	161.08	161.08	.00	.00	114.55
2Q OCT	849.14	110.38	.829	150.00	161.08	161.08	.00	.00	113.84
1Q NOV	797.62	39.31	1.128	225.00	223.55	223.55	.00	.00	155.64
2Q NOV	612.25	39.31	1.055	150.00	148.55	148.55	.00	.00	101.42
1Q DIC	501.95	40.96	.749	75.00	65.21	65.21	.00	.00	44.10
2Q DIC	476.95	40.96	.742	75.00	65.21	65.21	.00	.00	43.94
***** 1992 *****									
QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	451.96	1149.40	1.235	75.00	71.65	71.65	.00	.00	51.34
2Q ENE	1528.47	1149.40	1.688	300.00	296.65	1112.56	815.91	.00	225.91
1Q FEB	1563.62	299.11	2.289	112.50	373.92	373.92	.00	.00	284.21
2Q FEB	1486.52	299.11	2.245	131.50	392.92	392.92	.00	.00	296.31
1Q MAR	1390.46	67.75	3.621	112.50	160.32	160.32	.00	.00	119.81
2Q MAR	1294.27	67.75	3.518	131.50	179.32	179.32	.00	.00	132.63
1Q ABR	1179.18	68.43	4.006	131.50	153.70	153.70	.00	.00	112.50
2Q ABR	1089.90	68.43	3.884	112.50	134.70	134.70	.00	.00	97.76
1Q MAY	1019.75	63.00	4.000	112.50	139.16	139.16	.00	.00	100.16
2Q MAY	939.59	63.00	3.888	94.00	120.66	120.66	.00	.00	86.15
1Q JUN	878.05	60.35	.532	375.00	360.15	360.15	.00	.00	251.40
2Q JUN	577.71	60.35	.476	225.00	210.15	210.15	.00	.00	142.36
1Q JUL	427.44	102.36	-1.931	225.00	221.74	221.74	.00	.00	147.27
2Q JUL	309.98	102.36	-1.838	150.00	146.74	146.74	.00	.00	96.25
1Q AGO	267.44	215.47	-1.341	225.00	188.15	188.15	.00	.00	123.27
2Q AGO	296.10	215.47	-1.357	225.00	188.15	188.15	.00	.00	123.84
1Q SEP	324.78	159.80	-.696	150.00	81.31	81.31	.00	.00	53.97
2Q SEP	403.97	159.80	-.720	225.00	156.31	156.31	.00	.00	104.42
1Q OCT	408.18	293.44	.729	75.00	75.00	75.00	.00	.00	50.90
2Q OCT	625.89	293.44	.787	75.00	75.00	75.00	.00	.00	52.41
1Q NOV	843.54	64.69	1.155	225.00	241.64	241.64	.00	.00	169.30
2Q NOV	665.44	64.69	1.079	75.00	91.64	91.64	.00	.00	63.37
1Q DIC	637.41	236.93	.814	112.50	125.21	125.21	.00	.00	87.06
2Q DIC	748.32	236.93	.851	150.00	162.71	162.71	.00	.00	114.46

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1993 *****									
1Q ENE	821.68	49.65	1.155	150.00	252.77	252.77	.00	.00	176.31
2Q ENE	617.41	49.65	1.071	112.50	215.27	215.27	.00	.00	146.48
1Q FEB	450.71	39.81	1.511	37.50	29.81	29.81	.00	.00	20.06
2Q FEB	459.20	39.81	1.517	37.50	29.81	29.81	.00	.00	20.09
1Q MAR	467.68	46.08	2.605	37.50	37.17	37.17	.00	.00	25.07
2Q MAR	473.98	46.08	2.612	37.50	37.17	37.17	.00	.00	25.09
1Q ABR	480.28	37.13	3.087	37.50	43.64	43.64	.00	.00	29.45
2Q ABR	470.69	37.13	3.075	37.50	43.64	43.64	.00	.00	29.41
1Q MAY	461.11	37.57	3.238	37.50	39.91	39.91	.00	.00	26.87
2Q MAY	455.53	37.57	3.231	37.50	39.91	39.91	.00	.00	26.85
1Q JUN	449.96	91.08	.456	150.00	148.74	148.74	.00	.00	99.58
2Q JUN	391.84	91.08	.445	75.00	75.00	75.00	.00	.00	50.05
1Q JUL	407.48	392.57	-2.025	225.00	225.36	225.36	.00	.00	152.43
2Q JUL	576.71	392.57	-2.148	300.00	300.36	300.36	.00	.00	206.93
1Q AGO	671.07	133.21	-1.538	375.00	381.22	381.22	.00	.00	259.83
2Q AGO	424.60	133.21	-1.407	300.00	306.22	306.22	.00	.00	202.42
1Q SEP	253.00	239.51	-.687	150.00	75.00	75.00	.00	.00	49.55
2Q SEP	418.20	239.51	-.735	225.00	118.90	118.90	.00	.00	80.27
1Q OCT	539.55	80.85	.735	75.00	75.00	75.00	.00	.00	51.10
2Q OCT	544.66	80.85	.737	75.00	75.00	75.00	.00	.00	51.13
1Q NOV	549.77	52.99	1.034	150.00	145.63	145.63	.00	.00	98.67
2Q NOV	456.10	52.99	.998	75.00	75.00	75.00	.00	.00	50.39
1Q DIC	433.09	32.08	.727	75.00	77.34	77.34	.00	.00	51.70
2Q DIC	387.10	32.08	.714	75.00	77.34	77.34	.00	.00	51.34
***** 1994 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	341.13	32.38	.958	37.50	37.50	37.50	.00	.00	24.79
2Q ENE	335.05	32.38	.955	37.50	37.50	37.50	.00	.00	24.77
1Q FEB	328.97	27.01	1.431	19.00	18.75	18.75	.00	.00	12.38
2Q FEB	335.80	27.01	1.436	19.00	18.75	18.75	.00	.00	12.40
1Q MAR	342.63	39.37	2.469	19.00	18.75	18.75	.00	.00	12.42
2Q MAR	360.78	39.37	2.489	19.00	18.75	18.75	.00	.00	12.46
1Q ABR	378.91	69.92	2.981	37.50	38.66	38.66	.00	.00	25.78
2Q ABR	407.18	69.92	3.016	37.50	38.66	38.66	.00	.00	25.89
1Q MAY	435.43	54.17	3.215	37.50	65.31	65.31	.00	.00	43.77
2Q MAY	421.07	54.17	3.196	37.50	65.31	65.31	.00	.00	43.68
1Q JUN	406.73	93.24	.448	150.00	139.87	139.87	.00	.00	93.11
2Q JUN	359.65	93.24	.439	75.00	75.00	75.00	.00	.00	49.82
1Q JUL	377.45	90.16	-1.886	225.00	225.62	225.62	.00	.00	148.49
2Q JUL	243.88	90.16	-1.778	150.00	150.62	150.62	.00	.00	97.59
1Q AGO	185.21	119.32	-1.263	150.00	111.34	111.34	.00	.00	71.83
2Q AGO	194.45	119.32	-1.268	150.00	111.34	111.34	.00	.00	71.95
1Q SEP	203.70	233.36	-.671	75.00	75.00	75.00	.00	.00	49.14
2Q SEP	362.73	233.36	-.718	150.00	75.00	75.00	.00	.00	50.37
1Q OCT	521.81	81.50	.731	75.00	75.00	75.00	.00	.00	50.98
2Q OCT	527.58	81.50	.732	75.00	75.00	75.00	.00	.00	51.02
1Q NOV	533.35	48.17	1.027	150.00	145.70	145.70	.00	.00	98.45
2Q NOV	434.79	48.17	.988	75.00	75.00	75.00	.00	.00	50.21
1Q DIC	406.97	44.76	.721	75.00	73.07	73.07	.00	.00	48.71
2Q DIC	377.95	44.76	.713	75.00	73.07	73.07	.00	.00	48.50

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1995 *****									
1Q ENE	348.93	30.57	.961	37.50	37.50	37.50	.00	.00	24.82
2Q ENE	341.03	30.57	.957	37.50	37.50	37.50	.00	.00	24.79
1Q FEB	333.15	29.40	1.435	19.00	18.75	18.75	.00	.00	12.39
2Q FEB	342.36	29.40	1.441	19.00	18.75	18.75	.00	.00	12.41
1Q MAR	351.57	44.97	2.482	19.00	18.75	18.75	.00	.00	12.45
2Q MAR	375.31	44.97	2.507	37.50	35.24	35.24	.00	.00	23.44
1Q ABR	382.54	41.08	2.967	37.50	42.81	42.81	.00	.00	28.49
2Q ABR	377.84	41.08	2.961	37.50	42.81	42.81	.00	.00	28.47
1Q MAY	373.14	33.84	3.119	19.00	24.47	24.47	.00	.00	16.27
2Q MAY	379.39	33.84	3.128	37.50	42.97	42.97	.00	.00	28.56
1Q JUN	367.13	104.79	.442	75.00	75.73	75.73	.00	.00	50.40
2Q JUN	395.75	104.79	.447	75.00	75.73	75.73	.00	.00	50.62
1Q JUL	424.36	321.62	-2.011	225.00	226.98	226.98	.00	.00	153.11
2Q JUL	521.02	321.62	-2.081	225.00	226.98	226.98	.00	.00	155.23
1Q AGO	617.74	653.22	-1.666	375.00	370.69	370.69	.00	.00	259.84
2Q AGO	901.94	653.22	-1.841	525.00	520.69	520.69	.00	.00	374.32
1Q SEP	1036.31	396.29	-.946	525.00	600.00	600.00	.00	.00	429.59
2Q SEP	833.55	396.29	-.881	450.00	580.40	580.40	.00	.00	406.00
1Q OCT	650.33	97.85	.767	75.00	85.34	85.34	.00	.00	59.05
2Q OCT	662.07	97.85	.770	75.00	85.34	85.34	.00	.00	59.14
1Q NOV	673.81	60.33	1.082	150.00	147.31	147.31	.00	.00	101.57
2Q NOV	585.74	60.33	1.049	150.00	147.31	147.31	.00	.00	100.36
1Q DIC	497.71	48.01	.749	75.00	83.85	83.85	.00	.00	56.62
2Q DIC	461.12	48.01	.738	75.00	83.85	83.85	.00	.00	56.32
QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1996 *****									
1Q ENE	424.55	29.37	.992	75.00	75.47	75.47	.00	.00	50.38
2Q ENE	377.45	29.37	.972	75.00	75.47	75.47	.00	.00	50.02
1Q FEB	330.38	24.54	1.431	19.00	18.75	18.75	.00	.00	12.38
2Q FEB	334.74	24.54	1.434	19.00	18.75	18.75	.00	.00	12.39
1Q MAR	339.09	26.03	2.458	19.00	18.75	18.75	.00	.00	12.40
2Q MAR	343.92	26.03	2.463	19.00	18.75	18.75	.00	.00	12.41
1Q ABR	348.73	20.12	2.911	19.00	18.75	18.75	.00	.00	12.41
2Q ABR	347.19	20.12	2.909	19.00	18.75	18.75	.00	.00	12.41
1Q MAY	345.65	59.70	3.100	19.00	18.75	18.75	.00	.00	12.45
2Q MAY	383.50	59.70	3.150	37.50	26.73	26.73	.00	.00	17.84
1Q JUN	413.32	72.13	.447	75.00	75.00	75.00	.00	.00	50.14
2Q JUN	410.00	72.13	.447	75.00	75.00	75.00	.00	.00	50.12
1Q JUL	406.69	128.64	-1.925	225.00	223.13	223.13	.00	.00	148.01
2Q JUL	314.12	128.64	-1.852	150.00	148.13	148.13	.00	.00	97.42
1Q AGO	296.48	134.07	-1.334	225.00	192.05	192.05	.00	.00	125.55
2Q AGO	239.84	134.07	-1.300	225.00	192.05	192.05	.00	.00	124.37
1Q SEP	183.16	309.21	-.676	75.00	75.00	75.00	.00	.00	49.26
2Q SEP	418.04	309.21	-.744	225.00	119.29	119.29	.00	.00	80.93
1Q OCT	608.71	268.80	.778	75.00	75.00	75.00	.00	.00	52.22
2Q OCT	801.73	268.80	.839	75.00	75.00	75.00	.00	.00	53.47
1Q NOV	994.69	41.50	1.216	225.00	239.20	239.20	.00	.00	170.47
2Q NOV	795.77	41.50	1.128	225.00	239.20	239.20	.00	.00	166.35
1Q DIC	596.94	36.07	.775	112.50	104.65	104.65	.00	.00	71.50
2Q DIC	527.59	36.07	.756	112.50	104.65	104.65	.00	.00	70.81
QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1997 *****									
1Q ENE	458.25	36.68	1.007	75.00	69.01	69.01	.00	.00	46.34
2Q ENE	424.91	36.68	.993	75.00	69.01	69.01	.00	.00	46.11
1Q FEB	391.60	32.94	1.473	37.50	26.64	26.64	.00	.00	17.76
2Q FEB	396.42	32.94	1.476	37.50	26.64	26.64	.00	.00	17.78
1Q MAR	401.25	48.12	2.536	37.50	35.89	35.89	.00	.00	23.98
2Q MAR	410.94	48.12	2.546	37.50	35.89	35.89	.00	.00	24.01
1Q ABR	420.62	60.69	3.027	37.50	45.15	45.15	.00	.00	30.25
2Q ABR	433.13	60.69	3.043	37.50	45.15	45.15	.00	.00	30.31
1Q MAY	445.63	49.25	3.225	37.50	58.16	58.16	.00	.00	39.05
2Q MAY	433.49	49.25	3.209	37.50	58.16	58.16	.00	.00	38.98
1Q JUN	421.37	77.82	.449	150.00	142.50	142.50	.00	.00	94.94
2Q JUN	356.24	77.82	.437	75.00	75.00	75.00	.00	.00	49.73
1Q JUL	358.63	157.29	-1.898	150.00	148.80	148.80	.00	.00	98.77
2Q JUL	369.01	157.29	-1.906	150.00	148.80	148.80	.00	.00	98.93

1Q AGO	379.41	105.72	-1.373	300.00	271.30	271.30	.00	.00	178.16
2Q AGO	215.20	105.72	-1.277	150.00	121.30	121.30	.00	.00	78.51
1Q SEP	200.90	113.36	-.652	75.00	75.00	75.00	.00	.00	48.64
2Q SEP	239.91	113.36	-.664	150.00	75.00	75.00	.00	.00	48.96
1Q OCT	278.93	46.71	.656	75.00	75.00	75.00	.00	.00	49.00
2Q OCT	249.99	46.71	.647	75.00	75.00	75.00	.00	.00	48.77
1Q NOV	221.05	41.08	.897	75.00	75.00	75.00	.00	.00	48.50
2Q NOV	186.23	41.08	.881	75.00	75.00	75.00	.00	.00	48.21
1Q DIC	151.43	41.04	.640	37.50	37.50	37.50	.00	.00	24.04
2Q DIC	154.33	41.04	.641	37.50	37.50	37.50	.00	.00	24.05

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1998 *****									
1Q ENE	157.23	41.70	.878	37.50	37.50	37.50	.00	.00	24.07
2Q ENE	160.55	41.70	.880	37.50	37.50	37.50	.00	.00	24.08
1Q FEB	163.87	41.52	1.326	19.00	18.75	18.75	.00	.00	12.07
2Q FEB	185.32	41.52	1.341	19.00	18.75	18.75	.00	.00	12.11
1Q MAR	206.75	34.29	2.314	19.00	18.99	18.99	.00	.00	12.30
2Q MAR	219.73	34.29	2.329	19.00	18.99	18.99	.00	.00	12.33
1Q ABR	232.71	16.61	2.756	19.00	18.75	18.75	.00	.00	12.18
2Q ABR	227.81	16.61	2.749	19.00	18.75	18.75	.00	.00	12.17
1Q MAY	222.92	24.19	2.905	19.00	18.75	18.75	.00	.00	12.17
2Q MAY	225.46	24.19	2.908	19.00	18.75	18.75	.00	.00	12.17
1Q JUN	227.99	63.80	.411	75.00	80.89	80.89	.00	.00	52.45
2Q JUN	210.49	63.80	.408	75.00	80.89	80.89	.00	.00	52.29
1Q JUL	193.00	120.73	-1.749	75.00	75.00	75.00	.00	.00	48.61
2Q JUL	240.47	120.73	-1.788	150.00	147.15	147.15	.00	.00	95.56
1Q AGO	215.84	233.52	-1.315	150.00	115.88	115.88	.00	.00	75.83
2Q AGO	334.80	233.52	-1.384	225.00	190.88	190.88	.00	.00	126.56
1Q SEP	378.83	411.13	-.748	225.00	164.52	164.52	.00	.00	111.42
2Q SEP	626.19	411.13	-.818	300.00	239.52	239.52	.00	.00	166.93
1Q OCT	798.62	310.36	.845	75.00	87.39	87.39	.00	.00	62.39
2Q OCT	1020.75	310.36	.914	225.00	237.39	237.39	.00	.00	172.33
1Q NOV	1092.80	61.21	1.263	375.00	393.31	393.31	.00	.00	281.22
2Q NOV	759.44	61.21	1.116	225.00	243.31	243.31	.00	.00	168.59
1Q DIC	576.22	54.93	.772	112.50	122.13	122.13	.00	.00	83.21
2Q DIC	508.25	54.93	.753	75.00	84.63	84.63	.00	.00	57.26

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1999 *****									
1Q ENE	477.80	37.19	1.015	75.00	79.22	79.22	.00	.00	53.32
2Q ENE	434.76	37.19	.997	75.00	79.22	79.22	.00	.00	52.98
1Q FEB	391.73	29.71	1.472	37.50	26.77	26.77	.00	.00	17.84
2Q FEB	393.21	29.71	1.473	37.50	26.77	26.77	.00	.00	17.85
1Q MAR	394.68	31.27	2.520	37.50	35.29	35.29	.00	.00	23.53
2Q MAR	388.14	31.27	2.513	37.50	35.29	35.29	.00	.00	23.50
1Q ABR	381.60	48.61	2.971	37.50	32.66	32.66	.00	.00	21.76
2Q ABR	394.58	48.61	2.987	37.50	32.66	32.66	.00	.00	21.80
1Q MAY	407.54	49.62	3.175	37.50	48.80	48.80	.00	.00	32.60
2Q MAY	405.18	49.62	3.172	37.50	48.80	48.80	.00	.00	32.59
1Q JUN	402.83	79.07	.446	150.00	142.30	142.30	.00	.00	94.55
2Q JUN	339.15	79.07	.434	75.00	75.00	75.00	.00	.00	49.60
1Q JUL	342.79	222.03	-1.911	150.00	148.95	148.95	.00	.00	99.11
2Q JUL	417.78	222.03	-1.969	225.00	223.95	223.95	.00	.00	149.86
1Q AGO	417.83	187.97	-1.418	300.00	280.91	280.91	.00	.00	186.67
2Q AGO	326.31	187.97	-1.367	225.00	205.91	205.91	.00	.00	135.69
1Q SEP	309.74	219.78	-.701	150.00	75.00	75.00	.00	.00	49.91
2Q SEP	455.22	219.78	-.742	225.00	143.80	143.80	.00	.00	97.30
1Q OCT	531.94	71.86	.732	75.00	75.00	75.00	.00	.00	51.01
2Q OCT	528.07	71.86	.731	75.00	75.00	75.00	.00	.00	50.99
1Q NOV	524.20	40.48	1.022	75.00	75.00	75.00	.00	.00	50.84
2Q NOV	488.66	40.48	1.008	75.00	75.00	75.00	.00	.00	50.58
1Q DIC	453.13	39.14	.734	75.00	66.25	66.25	.00	.00	44.47
2Q DIC	425.28	39.14	.726	75.00	66.25	66.25	.00	.00	44.29



QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2000 *****									
1Q ENE	397.45	40.71	.983	75.00	70.67	70.67	.00	.00	47.04
2Q ENE	366.51	40.71	.970	37.50	37.50	37.50	.00	.00	24.91
1Q FEB	368.75	39.09	1.460	19.00	18.75	18.75	.00	.00	12.47
2Q FEB	387.63	39.09	1.472	37.50	27.63	27.63	.00	.00	18.42
1Q MAR	397.62	33.75	2.525	37.50	37.04	37.04	.00	.00	24.70
2Q MAR	391.81	33.75	2.519	37.50	37.04	37.04	.00	.00	24.68
1Q ABR	386.00	16.30	2.956	37.50	34.50	34.50	.00	.00	22.94
2Q ABR	364.85	16.30	2.930	19.00	18.75	18.75	.00	.00	12.44
1Q MAY	359.47	24.56	3.095	19.00	18.75	18.75	.00	.00	12.44
2Q MAY	362.19	24.56	3.099	19.00	18.75	18.75	.00	.00	12.45
1Q JUN	364.90	122.42	.443	75.00	80.69	80.69	.00	.00	53.74
2Q JUN	406.18	122.42	.451	75.00	80.69	80.69	.00	.00	54.07
1Q JUL	447.46	85.88	-1.940	225.00	229.05	229.05	.00	.00	152.31
2Q JUL	306.23	85.88	-1.828	150.00	154.05	154.05	.00	.00	100.79
1Q AGO	239.89	115.26	-1.294	225.00	185.70	185.70	.00	.00	120.13
2Q AGO	170.74	115.26	-1.252	150.00	110.70	110.70	.00	.00	71.23
1Q SEP	176.55	98.31	-.641	75.00	75.00	75.00	.00	.00	48.38
2Q SEP	200.50	98.31	-.649	75.00	75.00	75.00	.00	.00	48.58
1Q OCT	224.46	64.09	.642	75.00	75.00	75.00	.00	.00	48.63
2Q OCT	212.91	64.09	.638	75.00	75.00	75.00	.00	.00	48.53
1Q NOV	201.36	32.55	.886	75.00	75.00	75.00	.00	.00	48.30
2Q NOV	158.02	32.55	.867	75.00	75.00	75.00	.00	.00	47.94
1Q DIC	114.71	29.21	.625	37.50	37.50	37.50	.00	.00	23.86
2Q DIC	105.79	29.21	.621	37.50	37.50	37.50	.00	.00	23.82
***** 2001 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2001 *****									
1Q ENE	96.88	32.24	.847	37.50	37.50	37.50	.00	.00	23.78
2Q ENE	90.77	32.24	.843	37.50	37.50	37.50	.00	.00	23.76
1Q FEB	84.67	10.33	1.255	19.00	18.75	18.75	.00	.00	11.86
2Q FEB	75.00	10.33	1.248	19.00	18.75	18.75	.00	.00	11.84
1Q MAR	65.33	27.62	2.132	19.00	18.75	18.75	.00	.00	11.84
2Q MAR	72.07	27.62	2.141	19.00	18.75	18.75	.00	.00	11.85
1Q ABR	78.80	26.19	2.538	19.00	18.75	18.75	.00	.00	11.86
2Q ABR	83.70	26.19	2.546	19.00	18.75	18.75	.00	.00	11.88
1Q MAY	88.59	25.01	2.699	19.00	18.75	18.75	.00	.00	11.88
2Q MAY	92.15	25.01	2.705	19.00	18.75	18.75	.00	.00	11.89
1Q JUN	95.71	59.03	.383	75.00	80.45	80.45	.00	.00	50.94
2Q JUN	73.90	59.03	.378	75.00	80.45	80.45	.00	.00	50.73
1Q JUL	52.11	280.50	-1.695	75.00	75.00	75.00	.00	.00	48.08
2Q JUL	259.30	280.50	-1.868	150.00	146.59	146.59	.00	.00	96.73
1Q AGO	395.08	218.16	-1.414	300.00	289.59	289.59	.00	.00	192.09
2Q AGO	325.07	218.16	-1.374	225.00	214.59	214.59	.00	.00	141.62
1Q SEP	330.02	275.33	-.715	150.00	82.53	82.53	.00	.00	55.29
2Q SEP	523.53	275.33	-.768	225.00	157.53	157.53	.00	.00	107.93
1Q OCT	642.10	36.25	.757	75.00	75.00	75.00	.00	.00	51.66
2Q OCT	602.60	36.25	.746	75.00	75.00	75.00	.00	.00	51.39
1Q NOV	563.10	27.11	1.034	150.00	141.23	141.23	.00	.00	95.72
2Q NOV	447.95	27.11	.989	75.00	75.00	75.00	.00	.00	50.23
1Q DIC	399.07	23.25	.716	75.00	54.40	54.40	.00	.00	36.21
2Q DIC	367.21	23.25	.706	37.50	37.50	37.50	.00	.00	24.88

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2002 *****									
1Q ENE	352.25	31.06	.962	37.50	37.50	37.50	.00	.00	24.83
2Q ENE	344.85	31.06	.959	37.50	37.50	37.50	.00	.00	24.80
1Q FEB	337.45	26.72	1.437	19.00	18.75	18.75	.00	.00	12.40
2Q FEB	343.98	26.72	1.441	19.00	18.75	18.75	.00	.00	12.41
1Q MAR	350.51	21.57	2.468	19.00	18.75	18.75	.00	.00	12.42
2Q MAR	350.86	21.57	2.468	19.00	18.75	18.75	.00	.00	12.42
1Q ABR	351.22	17.41	2.913	19.00	18.75	18.75	.00	.00	12.42
2Q ABR	346.96	17.41	2.907	19.00	18.75	18.75	.00	.00	12.41
1Q MAY	342.72	26.17	3.073	19.00	18.75	18.75	.00	.00	12.41
2Q MAY	347.06	26.17	3.079	19.00	18.75	18.75	.00	.00	12.42
1Q JUN	351.40	46.87	.434	75.00	79.83	79.83	.00	.00	52.75
2Q JUN	318.01	46.87	.427	75.00	79.83	79.83	.00	.00	52.47
1Q JUL	284.62	263.96	-1.882	150.00	145.16	145.16	.00	.00	96.05
2Q JUL	405.31	263.96	-1.975	225.00	220.16	220.16	.00	.00	147.56
1Q AGO	451.09	226.26	-1.447	300.00	287.13	287.13	.00	.00	192.25
2Q AGO	391.66	226.26	-1.415	300.00	287.13	287.13	.00	.00	190.52
1Q SEP	332.20	203.18	-.705	150.00	86.21	86.21	.00	.00	57.46
2Q SEP	449.88	203.18	-.738	225.00	161.21	161.21	.00	.00	108.74
1Q OCT	492.58	121.52	.728	75.00	75.00	75.00	.00	.00	50.91
2Q OCT	538.37	121.52	.741	75.00	75.00	75.00	.00	.00	51.23
1Q NOV	584.15	69.28	1.050	150.00	149.65	149.65	.00	.00	101.98
2Q NOV	502.73	69.28	1.019	75.00	75.00	75.00	.00	.00	50.80
1Q DIC	495.99	34.42	.746	75.00	91.78	91.78	.00	.00	61.87
2Q DIC	437.88	34.42	.729	75.00	91.78	91.78	.00	.00	61.34
***** 2003 *****									
1Q ENE	379.79	35.08	.974	75.00	68.11	68.11	.00	.00	45.20
2Q ENE	345.78	35.08	.960	37.50	37.50	37.50	.00	.00	24.81
1Q FEB	342.40	28.80	1.440	19.00	18.75	18.75	.00	.00	12.41
2Q FEB	351.01	28.80	1.446	19.00	18.75	18.75	.00	.00	12.43
1Q MAR	359.61	25.91	2.480	19.00	18.75	18.75	.00	.00	12.44
2Q MAR	364.29	25.91	2.485	19.00	18.75	18.75	.00	.00	12.45
1Q ABR	368.97	19.80	2.937	19.00	18.75	18.75	.00	.00	12.45
2Q ABR	367.08	19.80	2.935	19.00	18.75	18.75	.00	.00	12.45
1Q MAY	365.20	24.05	3.102	19.00	18.75	18.75	.00	.00	12.45
2Q MAY	367.40	24.05	3.105	19.00	18.75	18.75	.00	.00	12.46
1Q JUN	369.59	102.49	.442	75.00	80.96	80.96	.00	.00	53.88
2Q JUN	390.67	102.49	.446	75.00	80.96	80.96	.00	.00	54.05
1Q JUL	411.76	334.06	-2.006	225.00	226.70	226.70	.00	.00	152.79
2Q JUL	521.12	334.06	-2.085	225.00	226.70	226.70	.00	.00	155.18
1Q AGO	630.56	631.12	-1.667	375.00	372.53	372.53	.00	.00	261.18
2Q AGO	890.81	631.12	-1.827	525.00	522.53	522.53	.00	.00	374.66
1Q SEP	1001.23	886.89	-1.009	525.00	600.00	600.00	.00	.00	439.50
2Q SEP	1289.12	886.89	-1.089	600.00	600.00	613.48	13.48	.00	451.87
1Q OCT	1563.62	198.38	1.054	375.00	453.14	453.14	.00	.00	341.57
2Q OCT	1307.80	198.38	.983	300.00	378.14	378.14	.00	.00	279.11
1Q NOV	1127.06	49.19	1.276	450.00	457.24	457.24	.00	.00	326.67
2Q NOV	717.73	49.19	1.096	225.00	232.25	232.25	.00	.00	160.02
1Q DIC	533.58	30.26	.756	112.50	111.47	111.47	.00	.00	75.41
2Q DIC	451.61	30.26	.733	75.00	73.97	73.97	.00	.00	49.59

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2004 *****									
1Q ENE	407.16	45.17	.988	75.00	65.86	65.86	.00	.00	43.93
2Q ENE	385.49	45.17	.979	75.00	65.86	65.86	.00	.00	43.79
1Q FEB	363.82	23.95	1.453	19.00	18.75	18.75	.00	.00	12.45
2Q FEB	367.57	23.95	1.455	19.00	18.75	18.75	.00	.00	12.46
1Q MAR	371.31	13.18	2.486	19.00	18.75	18.75	.00	.00	12.45
2Q MAR	363.25	13.18	2.477	19.00	18.75	18.75	.00	.00	12.44
1Q ABR	355.21	7.41	2.911	19.00	18.75	18.75	.00	.00	12.42
2Q ABR	340.96	7.41	2.893	19.00	18.75	18.75	.00	.00	12.39
1Q MAY	326.72	9.20	3.039	19.00	18.75	18.75	.00	.00	12.36
2Q MAY	314.13	9.20	3.022	19.00	18.75	18.75	.00	.00	12.34
1Q JUN	301.56	225.81	.441	75.00	88.90	88.90	.00	.00	59.05
2Q JUN	438.03	225.81	.466	150.00	163.90	163.90	.00	.00	110.51
1Q JUL	499.48	192.64	-2.019	225.00	241.22	241.22	.00	.00	162.82
2Q JUL	452.92	192.64	-1.984	225.00	241.22	241.22	.00	.00	161.71
1Q AGO	406.33	240.89	-1.426	300.00	276.55	276.55	.00	.00	184.28
2Q AGO	372.10	240.89	-1.408	225.00	201.55	201.55	.00	.00	134.37
1Q SEP	412.85	863.26	-.822	225.00	167.87	167.87	.00	.00	117.40
2Q SEP	1109.06	863.26	-1.036	525.00	467.87	467.87	.00	.00	348.26
1Q OCT	1505.49	294.93	1.052	375.00	449.88	449.88	.00	.00	338.89
2Q OCT	1349.49	294.93	1.009	300.00	374.88	374.88	.00	.00	279.26
1Q NOV	1268.54	51.45	1.337	450.00	466.78	466.78	.00	.00	338.69
2Q NOV	851.86	51.45	1.156	300.00	316.78	316.78	.00	.00	220.89
1Q DIC	585.37	42.62	.773	112.50	113.48	113.48	.00	.00	77.39
2Q DIC	513.75	42.62	.753	75.00	75.98	75.98	.00	.00	51.43

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2005 *****									
1Q ENE	479.64	37.80	1.016	75.00	72.55	72.55	.00	.00	48.87
2Q ENE	443.87	37.80	1.001	75.00	72.55	72.55	.00	.00	48.61
1Q FEB	408.12	35.48	1.484	37.50	26.91	26.91	.00	.00	17.99
2Q FEB	415.20	35.48	1.488	37.50	26.91	26.91	.00	.00	18.01
1Q MAR	422.28	28.21	2.548	37.50	36.37	36.37	.00	.00	24.33
2Q MAR	411.57	28.21	2.537	37.50	36.37	36.37	.00	.00	24.29
1Q ABR	400.88	19.12	2.976	37.50	30.39	30.39	.00	.00	20.27
2Q ABR	386.63	19.12	2.959	37.50	30.39	30.39	.00	.00	20.22
1Q MAY	372.40	14.53	3.106	19.00	18.75	18.75	.00	.00	12.46
2Q MAY	365.08	14.53	3.096	19.00	18.75	18.75	.00	.00	12.44
1Q JUN	357.76	27.06	.433	75.00	86.05	86.05	.00	.00	56.80
2Q JUN	298.34	27.06	.421	75.00	86.05	86.05	.00	.00	56.26
1Q JUL	238.93	139.69	-1.794	150.00	142.83	142.83	.00	.00	92.91
2Q JUL	237.59	139.69	-1.793	150.00	142.83	142.83	.00	.00	92.89
1Q AGO	236.24	219.13	-1.323	225.00	193.69	193.69	.00	.00	126.24
2Q AGO	263.01	219.13	-1.339	225.00	193.69	193.69	.00	.00	126.80
1Q SEP	289.79	190.00	-.690	150.00	82.97	82.97	.00	.00	54.89
2Q SEP	397.51	190.00	-.722	225.00	157.97	157.97	.00	.00	105.65
1Q OCT	430.26	70.15	.704	75.00	75.00	75.00	.00	.00	50.26
2Q OCT	424.70	70.15	.702	75.00	75.00	75.00	.00	.00	50.22
1Q NOV	419.15	86.62	.990	75.00	75.00	75.00	.00	.00	50.24
2Q NOV	429.78	86.62	.994	75.00	75.00	75.00	.00	.00	50.32
1Q DIC	440.41	35.59	.730	75.00	107.16	107.16	.00	.00	71.56
2Q DIC	368.11	35.59	.708	37.50	69.66	69.66	.00	.00	46.14

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2006 *****									
1Q ENE	333.33	29.47	.954	37.50	37.50	37.50	.00	.00	24.75
2Q ENE	324.35	29.47	.950	37.50	37.50	37.50	.00	.00	24.72
1Q FEB	315.37	27.97	1.423	19.00	18.75	18.75	.00	.00	12.36
2Q FEB	323.17	27.97	1.428	19.00	18.75	18.75	.00	.00	12.37
1Q MAR	330.96	28.56	2.450	19.00	18.75	18.75	.00	.00	12.39
2Q MAR	338.32	28.56	2.458	19.00	18.75	18.75	.00	.00	12.40
1Q ABR	345.67	25.19	2.910	19.00	18.75	18.75	.00	.00	12.41
2Q ABR	349.20	25.19	2.915	19.00	18.75	18.75	.00	.00	12.42
1Q MAY	352.73	27.35	3.088	19.00	18.75	18.75	.00	.00	12.43
2Q MAY	358.24	27.35	3.095	19.00	18.75	18.75	.00	.00	12.44
1Q JUN	363.74	60.89	.437	75.00	79.20	79.20	.00	.00	52.49
2Q JUN	345.00	60.89	.434	75.00	79.20	79.20	.00	.00	52.34
1Q JUL	326.25	114.58	-1.856	150.00	146.81	146.81	.00	.00	96.64
2Q JUL	295.88	114.58	-1.831	150.00	146.81	146.81	.00	.00	96.17
1Q AGO	265.48	329.55	-1.372	225.00	189.96	189.96	.00	.00	125.52
2Q AGO	406.44	329.55	-1.450	300.00	264.96	264.96	.00	.00	177.88
1Q SEP	472.48	168.91	-.740	225.00	208.19	208.19	.00	.00	140.05
2Q SEP	433.94	168.91	-.729	225.00	208.19	208.19	.00	.00	139.25
1Q OCT	395.39	169.00	.708	75.00	75.00	75.00	.00	.00	50.37
2Q OCT	488.68	169.00	.733	75.00	75.00	75.00	.00	.00	51.05
1Q NOV	581.95	45.51	1.045	75.00	79.34	79.34	.00	.00	54.22
2Q NOV	547.07	45.51	1.032	75.00	79.34	79.34	.00	.00	53.96
1Q DIC	512.21	38.97	.752	75.00	70.71	70.71	.00	.00	47.86
2Q DIC	479.72	38.97	.742	75.00	70.71	70.71	.00	.00	47.64
***** 2007 *****									
1Q ENE	447.24	25.41	1.000	75.00	70.58	70.58	.00	.00	47.27
2Q ENE	401.07	25.41	.981	75.00	70.58	70.58	.00	.00	46.95
1Q FEB	354.92	14.39	1.444	19.00	18.75	18.75	.00	.00	12.42
2Q FEB	349.12	14.39	1.440	19.00	18.75	18.75	.00	.00	12.41
1Q MAR	343.32	19.18	2.459	19.00	18.75	18.75	.00	.00	12.40
2Q MAR	341.29	19.18	2.456	19.00	18.75	18.75	.00	.00	12.40
1Q ABR	339.26	14.68	2.895	19.00	18.75	18.75	.00	.00	12.39
2Q ABR	332.30	14.68	2.886	19.00	18.75	18.75	.00	.00	12.38
1Q MAY	325.34	22.74	3.047	19.00	18.75	18.75	.00	.00	12.37
2Q MAY	326.29	22.74	3.048	19.00	18.75	18.75	.00	.00	12.37
1Q JUN	327.23	112.54	.435	75.00	81.66	81.66	.00	.00	54.02
2Q JUN	357.67	112.54	.441	75.00	81.66	81.66	.00	.00	54.28
1Q JUL	388.11	465.63	-2.037	225.00	227.89	227.89	.00	.00	154.47
2Q JUL	627.89	465.63	-2.225	300.00	302.89	302.89	.00	.00	211.04
1Q AGO	792.85	564.89	-1.745	450.00	467.06	467.06	.00	.00	330.86
2Q AGO	892.43	564.89	-1.808	525.00	542.06	542.06	.00	.00	386.85
1Q SEP	917.07	222.11	-.880	450.00	540.22	540.22	.00	.00	378.55
2Q SEP	599.84	222.11	-.781	300.00	390.22	390.22	.00	.00	264.85
1Q OCT	432.51	59.46	.703	75.00	75.00	75.00	.00	.00	50.24
2Q OCT	416.26	59.46	.698	75.00	75.00	75.00	.00	.00	50.12
1Q NOV	400.02	32.50	.971	75.00	75.00	75.00	.00	.00	49.89
2Q NOV	356.55	32.50	.953	75.00	75.00	75.00	.00	.00	49.56
1Q DIC	313.10	25.47	.690	37.50	37.50	37.50	.00	.00	24.67
2Q DIC	300.38	25.47	.686	37.50	37.50	37.50	.00	.00	24.62

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2008 *****									
1Q ENE	287.67	42.86	.937	37.50	37.50	37.50	.00	.00	24.60
2Q ENE	292.09	42.86	.939	37.50	37.50	37.50	.00	.00	24.62
1Q FEB	296.51	12.08	1.405	19.00	18.75	18.75	.00	.00	12.31
2Q FEB	288.43	12.08	1.400	19.00	18.75	18.75	.00	.00	12.29
1Q MAR	280.36	72.16	2.418	19.00	18.75	18.75	.00	.00	12.33
2Q MAR	331.36	72.16	2.475	19.00	18.75	18.75	.00	.00	12.43
1Q ABR	382.29	22.41	2.955	37.50	62.97	62.97	.00	.00	41.77
2Q ABR	338.78	22.41	2.900	19.00	44.47	44.47	.00	.00	29.34
1Q MAY	313.82	16.40	3.026	19.00	18.75	18.75	.00	.00	12.34
2Q MAY	308.45	16.40	3.019	19.00	18.75	18.75	.00	.00	12.33
1Q JUN	303.08	94.33	.429	75.00	85.05	85.05	.00	.00	55.95
2Q JUN	311.93	94.33	.431	75.00	85.05	85.05	.00	.00	56.03
1Q JUL	320.78	663.92	-2.060	150.00	150.74	150.74	.00	.00	103.04
2Q JUL	836.01	663.92	-2.487	450.00	450.74	450.74	.00	.00	323.05
1Q AGO	1051.68	861.55	-1.988	600.00	600.00	600.00	.00	.00	441.29
2Q AGO	1315.21	861.55	-2.131	600.00	600.00	615.27	15.27	.00	452.43
1Q SEP	1563.62	1146.04	-1.212	600.00	600.00	1147.25	547.25	.00	457.64
2Q SEP	1563.62	1146.04	-1.212	600.00	600.00	1147.25	547.25	.00	457.64
1Q OCT	1563.62	109.94	1.042	375.00	488.96	488.96	.00	.00	366.33
2Q OCT	1183.56	109.94	.933	225.00	338.96	338.96	.00	.00	246.31
1Q NOV	953.61	39.12	1.198	300.00	298.51	298.51	.00	.00	210.89
2Q NOV	693.03	39.12	1.085	225.00	223.51	223.51	.00	.00	153.47
1Q DIC	507.55	29.81	.749	75.00	65.04	65.04	.00	.00	43.99
2Q DIC	471.57	29.81	.739	75.00	65.04	65.04	.00	.00	43.76

\*\*\*\*\* RESUMEN ANUAL \*\*\*\*\*

AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1981	.00	.00	2730.02	3826.0	620.49	544.82	2653.42
1982	.00	.00	1547.18	1821.7	283.45	531.23	1198.45
1983	.00	44.07	2872.34	2755.5	241.81	529.42	1869.19
1984	.00	.00	3741.30	3520.5	422.22	537.04	2452.59
1985	.00	.00	2666.00	2664.5	413.38	536.68	1794.64
1986	.00	.00	3062.02	2962.0	481.99	539.46	2017.30
1987	.00	.00	3370.74	3341.6	539.99	541.72	2275.43
1988	.00	.00	4232.84	4253.6	596.16	543.89	2983.51
1989	.00	.00	1567.18	1728.3	345.59	533.88	1142.50
1990	710.78	.00	5530.84	5285.8	669.48	546.63	3314.67
1991	2518.09	.00	6882.12	6886.9	656.43	546.15	3156.10
1992	815.91	.00	5561.46	5162.8	821.99	552.12	3087.06
1993	.00	.00	2465.06	2925.2	465.87	538.81	1981.07
1994	.00	.00	1866.72	1838.6	367.96	534.83	1218.50
1995	.00	.00	3723.94	3629.7	512.89	540.68	2524.28
1996	.00	.00	2300.36	2246.3	442.33	537.85	1515.72
1997	.00	.00	1621.40	1902.4	320.74	532.82	1253.80
1998	.00	.00	2827.98	2488.3	396.11	535.98	1700.29
1999	.00	.00	2113.46	2173.8	414.66	536.73	1452.67
2000	.00	.00	1404.26	1685.3	283.81	531.24	1102.77
2001	.00	.00	2082.04	1809.8	256.67	530.08	1195.95
2002	.00	.00	2176.84	2129.9	397.14	536.02	1424.86
2003	13.48	.00	4732.06	4685.7	618.55	544.75	3345.03
2004	.00	.00	4021.02	3928.6	572.29	542.97	2771.96
2005	.00	.00	1806.76	1932.8	366.29	534.76	1278.69
2006	.00	.00	2131.90	1998.4	391.65	535.80	1334.17
2007	.00	.00	3158.00	3299.8	438.44	537.70	2277.39
2008	1109.78	.00	6221.24	6056.3	662.77	546.39	3606.20
TOTAL	5168.04	44.07					

ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO: .00 MILL M^3  
ENERGÍA PROMEDIO GENERADA EN LOS 28 AÑOS: 86.20 GWH

\*\*\*\*\* RESUMEN QUINCENAL \*\*\*\*\*  
P R O M E D I O S

	ELEVACIÓN MSNM	ALMACENAMIENTO MILL M^3	ENERGÍA GWH
1Q ENE	536.34	420.31	51.81
2Q ENE	535.91	397.36	50.68
1Q FEB	535.53	399.11	26.94
2Q FEB	535.65	400.21	27.32
1Q MAR	535.76	401.42	23.27
2Q MAR	535.82	400.70	24.55
1Q ABR	535.66	391.23	27.49
2Q ABR	535.37	384.56	25.53
1Q MAY	535.16	379.52	25.06
2Q MAY	535.00	375.55	24.28
1Q JUN	534.38	347.36	77.27
2Q JUN	533.68	339.54	63.26
1Q JUL	536.28	484.28	118.71
2Q JUL	540.05	539.25	164.24
1Q AGO	541.73	583.45	224.15
2Q AGO	542.51	592.49	233.07
1Q SEP	543.50	631.59	187.02
2Q SEP	544.73	651.63	199.04
1Q OCT	545.08	646.37	92.51
2Q OCT	545.13	646.47	87.81
1Q NOV	542.74	511.05	128.85
2Q NOV	538.88	436.51	84.36
1Q DIC	536.82	405.71	52.04
2Q DIC	535.63	378.20	49.62

\*\*\*-\*\*-\*\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO \*\*\*-\*\*-\*\*

PRESA: EL CAJON

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1981 *****									
1Q ENE	1300.00	.00	1.315	450.00	450.00	450.00	.00	.00	321.73
2Q ENE	1148.69	.00	1.253	337.50	337.50	337.50	.00	.00	238.34
1Q FEB	1034.93	.00	1.662	262.50	262.50	262.50	.00	.00	183.06
2Q FEB	883.27	.00	1.577	112.50	112.50	112.50	.00	.00	77.81
1Q MAR	863.19	.00	2.357	112.50	112.50	112.50	.00	.00	77.66
2Q MAR	842.34	.00	2.339	94.00	94.00	94.00	.00	.00	64.76
1Q ABR	821.00	.00	2.759	75.00	75.00	75.00	.00	.00	51.61
2Q ABR	818.24	.00	2.757	75.00	75.00	75.00	.00	.00	51.60
1Q MAY	815.48	.00	3.094	56.50	56.50	56.50	.00	.00	38.86
2Q MAY	812.39	.00	3.091	56.50	56.50	56.50	.00	.00	38.85
1Q JUN	809.30	.00	.598	375.00	375.00	375.00	.00	.00	255.52
2Q JUN	658.70	.00	.561	225.00	225.00	225.00	.00	.00	151.17
1Q JUL	583.14	.00	-1.829	375.00	375.00	375.00	.00	.00	248.11
2Q JUL	434.97	.00	-1.697	450.00	450.00	450.00	.00	.00	293.17
1Q AGO	361.66	.00	-1.345	300.00	300.00	300.00	.00	.00	196.52
2Q AGO	513.01	.00	-1.456	300.00	300.00	300.00	.00	.00	199.65
1Q SEP	589.46	.00	-.807	150.00	150.00	150.00	.00	.00	100.87
2Q SEP	665.27	.00	-.837	150.00	150.00	150.00	.00	.00	101.91
1Q OCT	741.11	.00	.678	75.00	75.00	75.00	.00	.00	51.21
2Q OCT	740.43	.00	.677	75.00	75.00	75.00	.00	.00	51.21
1Q NOV	739.75	.00	1.307	75.00	75.00	75.00	.00	.00	51.20
2Q NOV	738.45	.00	1.306	75.00	75.00	75.00	.00	.00	51.19
1Q DIC	737.14	.00	.850	75.00	75.00	75.00	.00	.00	51.06
2Q DIC	698.79	.00	.835	75.00	75.00	75.00	.00	.00	50.92

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1982 *****									
1Q ENE	697.96	.00	1.066	75.00	75.00	75.00	.00	.00	50.95
2Q ENE	708.08	.00	1.071	75.00	75.00	75.00	.00	.00	50.89
1Q FEB	680.69	.00	1.456	37.50	37.50	37.50	.00	.00	25.37
2Q FEB	660.49	.00	1.442	37.50	37.50	37.50	.00	.00	25.30
1Q MAR	640.29	.00	2.151	37.50	37.50	37.50	.00	.00	25.23
2Q MAR	619.39	.00	2.129	37.50	37.50	37.50	.00	.00	25.15
1Q ABR	598.51	.00	2.506	37.50	37.50	37.50	.00	.00	25.08
2Q ABR	577.26	.00	2.481	37.50	37.50	37.50	.00	.00	25.01
1Q MAY	556.03	.00	2.758	37.50	37.50	37.50	.00	.00	24.94
2Q MAY	534.52	.00	2.729	37.50	37.50	37.50	.00	.00	24.86
1Q JUN	513.04	.00	.523	150.00	150.00	150.00	.00	.00	98.79
2Q JUN	439.23	.00	.503	75.00	75.00	75.00	.00	.00	49.15
1Q JUL	440.43	.00	-1.702	225.00	225.00	225.00	.00	.00	146.63
2Q JUL	360.64	.00	-1.631	225.00	225.00	225.00	.00	.00	145.76
1Q AGO	355.77	.00	-1.341	150.00	150.00	150.00	.00	.00	98.08
2Q AGO	492.82	.00	-1.441	150.00	150.00	150.00	.00	.00	99.45
1Q SEP	554.96	.00	-.794	150.00	150.00	150.00	.00	.00	99.36
2Q SEP	480.76	.00	-.765	75.00	75.00	75.00	.00	.00	49.43
1Q OCT	481.52	.00	.598	75.00	75.00	75.00	.00	.00	49.43
2Q OCT	480.92	.00	.598	75.00	75.00	75.00	.00	.00	49.43
1Q NOV	480.33	.00	1.154	75.00	75.00	75.00	.00	.00	49.42
2Q NOV	479.17	.00	1.153	75.00	75.00	75.00	.00	.00	49.41
1Q DIC	478.02	.00	.750	37.50	37.50	37.50	.00	.00	24.70
2Q DIC	477.27	.00	.750	37.50	37.50	37.50	.00	.00	24.70

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1983 *****									
1Q ENE	476.52	.00	.958	37.50	37.50	37.50	.00	.00	24.70
2Q ENE	475.56	.00	.957	37.50	37.50	37.50	.00	.00	24.69
1Q FEB	474.60	.00	1.317	19.00	19.00	19.00	.00	.00	12.51
2Q FEB	473.04	.00	1.316	19.00	19.00	19.00	.00	.00	12.51
1Q MAR	471.47	.00	1.979	19.00	19.00	19.00	.00	.00	12.50
2Q MAR	469.24	.00	1.977	19.00	19.00	19.00	.00	.00	12.50
1Q ABR	467.02	.00	2.347	19.00	19.00	19.00	.00	.00	12.49
2Q ABR	456.68	.00	2.335	19.00	19.00	19.00	.00	.00	12.47
1Q MAY	440.06	.00	2.600	19.00	19.00	19.00	.00	.00	12.44
2Q MAY	426.06	.00	2.581	19.00	19.00	19.00	.00	.00	12.41
1Q JUN	412.09	.00	.496	75.00	75.00	75.00	.00	.00	49.00
2Q JUN	424.97	.00	.500	75.00	75.00	75.00	.00	.00	49.09
1Q JUL	437.86	.00	-1.700	150.00	150.00	150.00	.00	.00	97.81
2Q JUL	371.73	.00	-1.641	300.00	300.00	300.00	.00	.00	194.84
1Q AGO	380.55	.00	-1.359	375.00	375.00	375.00	.00	.00	245.40
2Q AGO	479.58	.00	-1.432	375.00	375.00	375.00	.00	.00	248.80
1Q SEP	578.68	.00	-.803	225.00	225.00	225.00	.00	.00	152.22
2Q SEP	773.53	.00	-.878	150.00	150.00	150.00	.00	.00	103.36
1Q OCT	893.45	.00	.716	150.00	150.00	150.00	.00	.00	103.58
2Q OCT	817.74	.00	.697	75.00	75.00	75.00	.00	.00	51.60
1Q NOV	817.04	.00	1.345	225.00	225.00	225.00	.00	.00	153.44
2Q NOV	665.69	.00	1.263	150.00	150.00	150.00	.00	.00	100.87
1Q DIC	589.43	.00	.793	75.00	75.00	75.00	.00	.00	50.04
2Q DIC	551.14	.00	.778	75.00	75.00	75.00	.00	.00	49.78

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1984 *****									
1Q ENE	512.86	.00	.975	37.50	37.50	37.50	.00	.00	24.82
2Q ENE	511.88	.00	.975	37.50	37.50	37.50	.00	.00	24.82
1Q FEB	510.91	.00	1.342	19.00	19.00	19.00	.00	.00	12.57
2Q FEB	509.32	.00	1.340	19.00	19.00	19.00	.00	.00	12.57
1Q MAR	507.73	.00	2.016	19.00	19.00	19.00	.00	.00	12.57
2Q MAR	505.46	.00	2.014	19.00	19.00	19.00	.00	.00	12.56
1Q ABR	503.20	.00	2.391	19.00	19.00	19.00	.00	.00	12.56
2Q ABR	500.56	.00	2.388	19.00	19.00	19.00	.00	.00	12.55
1Q MAY	497.92	.00	2.680	19.00	19.00	19.00	.00	.00	12.55
2Q MAY	494.99	.00	2.676	19.00	19.00	19.00	.00	.00	12.54
1Q JUN	492.06	.00	.518	75.00	75.00	75.00	.00	.00	49.54
2Q JUN	501.25	.00	.520	75.00	75.00	75.00	.00	.00	49.60
1Q JUL	510.44	.00	-1.765	225.00	225.00	225.00	.00	.00	148.22
2Q JUL	445.04	.00	-1.706	450.00	450.00	450.00	.00	.00	293.74
1Q AGO	379.59	.00	-1.358	525.00	525.00	525.00	.00	.00	342.96
2Q AGO	455.95	.00	-1.414	450.00	450.00	450.00	.00	.00	297.87
1Q SEP	569.06	.00	-.799	300.00	300.00	300.00	.00	.00	203.14
2Q SEP	805.02	.00	-.888	300.00	300.00	300.00	.00	.00	207.75
1Q OCT	966.07	.00	.735	150.00	150.00	150.00	.00	.00	104.30
2Q OCT	890.34	.00	.716	150.00	150.00	150.00	.00	.00	103.55
1Q NOV	814.62	.00	1.344	75.00	75.00	75.00	.00	.00	51.58
2Q NOV	813.28	.00	1.344	75.00	75.00	75.00	.00	.00	51.58
1Q DIC	811.93	.00	.874	75.00	75.00	75.00	.00	.00	51.54
2Q DIC	800.27	.00	.870	75.00	75.00	75.00	.00	.00	51.48



QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1985 *****									
1Q ENE	788.61	.00	1.107	75.00	75.00	75.00	.00	.00	51.44
2Q ENE	782.66	.00	1.105	75.00	75.00	75.00	.00	.00	51.33
1Q FEB	744.06	.00	1.499	37.50	37.50	37.50	.00	.00	25.58
2Q FEB	723.81	.00	1.486	37.50	37.50	37.50	.00	.00	25.53
1Q MAR	712.38	.00	2.224	37.50	37.50	37.50	.00	.00	25.50
2Q MAR	708.87	.00	2.221	37.50	37.50	37.50	.00	.00	25.49
1Q ABR	705.37	.00	2.636	37.50	37.50	37.50	.00	.00	25.50
2Q ABR	711.74	.00	2.644	37.50	37.50	37.50	.00	.00	25.52
1Q MAY	718.11	.00	2.979	37.50	37.50	37.50	.00	.00	25.54
2Q MAY	722.04	.00	2.984	37.50	37.50	37.50	.00	.00	25.55
1Q JUN	725.95	.00	.579	300.00	300.00	300.00	.00	.00	201.35
2Q JUN	500.37	.00	.520	75.00	75.00	75.00	.00	.00	49.56
1Q JUL	499.85	.00	-1.755	300.00	300.00	300.00	.00	.00	197.25
2Q JUL	428.54	.00	-1.692	300.00	300.00	300.00	.00	.00	195.29
1Q AGO	357.16	.00	-1.342	225.00	225.00	225.00	.00	.00	147.18
2Q AGO	497.64	.00	-1.445	300.00	300.00	300.00	.00	.00	199.07
1Q SEP	563.21	.00	-.797	150.00	150.00	150.00	.00	.00	101.07
2Q SEP	720.21	.00	-.859	150.00	150.00	150.00	.00	.00	102.60
1Q OCT	802.26	.00	.693	75.00	75.00	75.00	.00	.00	51.52
2Q OCT	801.57	.00	.693	75.00	75.00	75.00	.00	.00	51.52
1Q NOV	800.87	.00	1.338	75.00	75.00	75.00	.00	.00	51.51
2Q NOV	799.54	.00	1.337	75.00	75.00	75.00	.00	.00	51.51
1Q DIC	798.20	.00	.869	75.00	75.00	75.00	.00	.00	51.42
2Q DIC	765.71	.00	.859	75.00	75.00	75.00	.00	.00	51.25
***** 1986 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	733.23	.00	1.084	75.00	75.00	75.00	.00	.00	51.16
2Q ENE	732.71	.00	1.083	75.00	75.00	75.00	.00	.00	51.03
1Q FEB	694.70	.00	1.466	37.50	37.50	37.50	.00	.00	25.41
2Q FEB	674.48	.00	1.452	37.50	37.50	37.50	.00	.00	25.34
1Q MAR	654.28	.00	2.165	37.50	37.50	37.50	.00	.00	25.27
2Q MAR	633.36	.00	2.144	37.50	37.50	37.50	.00	.00	25.20
1Q ABR	612.47	.00	2.523	37.50	37.50	37.50	.00	.00	25.15
2Q ABR	605.78	.00	2.515	37.50	37.50	37.50	.00	.00	25.13
1Q MAY	599.10	.00	2.817	37.50	37.50	37.50	.00	.00	25.13
2Q MAY	604.33	.00	2.824	37.50	37.50	37.50	.00	.00	25.15
1Q JUN	609.54	.00	.548	75.00	75.00	75.00	.00	.00	50.52
2Q JUN	670.77	.00	.565	75.00	75.00	75.00	.00	.00	50.94
1Q JUL	731.98	.00	-1.962	450.00	450.00	450.00	.00	.00	302.40
2Q JUL	512.91	.00	-1.767	375.00	375.00	375.00	.00	.00	247.05
1Q AGO	443.63	.00	-1.405	375.00	375.00	375.00	.00	.00	247.44
2Q AGO	535.27	.00	-1.472	300.00	300.00	300.00	.00	.00	199.44
1Q SEP	551.96	.00	-.793	150.00	150.00	150.00	.00	.00	99.32
2Q SEP	477.76	.00	-.764	150.00	150.00	150.00	.00	.00	99.30
1Q OCT	548.35	.00	.619	75.00	75.00	75.00	.00	.00	49.89
2Q OCT	547.73	.00	.618	75.00	75.00	75.00	.00	.00	49.89
1Q NOV	547.11	.00	1.193	75.00	75.00	75.00	.00	.00	50.41
2Q NOV	700.54	.00	1.284	75.00	75.00	75.00	.00	.00	50.95
1Q DIC	703.88	.00	.837	112.50	112.50	112.50	.00	.00	76.56
2Q DIC	727.86	.00	.846	112.50	112.50	112.50	.00	.00	76.80

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1987 *****									
1Q ENE	751.83	.00	1.092	75.00	75.00	75.00	.00	.00	51.29
2Q ENE	757.57	.00	1.094	75.00	75.00	75.00	.00	.00	51.32
1Q FEB	763.31	.00	1.510	37.50	37.50	37.50	.00	.00	25.66
2Q FEB	762.38	.00	1.509	37.50	37.50	37.50	.00	.00	25.66
1Q MAR	761.45	.00	2.271	56.50	56.50	56.50	.00	.00	38.67
2Q MAR	767.34	.00	2.276	56.50	56.50	56.50	.00	.00	38.69
1Q ABR	773.23	.00	2.712	56.50	56.50	56.50	.00	.00	38.78
2Q ABR	811.88	.00	2.750	56.50	56.50	56.50	.00	.00	38.92
1Q MAY	850.50	.00	3.134	75.00	75.00	75.00	.00	.00	51.78
2Q MAY	859.10	.00	3.144	56.50	56.50	56.50	.00	.00	39.04
1Q JUN	867.19	.00	.611	450.00	450.00	450.00	.00	.00	305.28
2Q JUN	551.65	.00	.533	225.00	225.00	225.00	.00	.00	148.81
1Q JUL	461.19	.00	-1.721	300.00	300.00	300.00	.00	.00	196.14
2Q JUL	386.13	.00	-1.654	225.00	225.00	225.00	.00	.00	145.56
1Q AGO	311.00	.00	-1.308	150.00	150.00	150.00	.00	.00	97.41
2Q AGO	439.94	.00	-1.402	225.00	225.00	225.00	.00	.00	148.00
1Q SEP	493.97	.00	-.770	75.00	75.00	75.00	.00	.00	49.95
2Q SEP	619.14	.00	-.819	150.00	150.00	150.00	.00	.00	101.61
1Q OCT	744.36	.00	.679	75.00	75.00	75.00	.00	.00	51.23
2Q OCT	743.68	.00	.678	75.00	75.00	75.00	.00	.00	51.23
1Q NOV	743.00	.00	1.309	225.00	225.00	225.00	.00	.00	154.29
2Q NOV	824.06	.00	1.349	150.00	150.00	150.00	.00	.00	103.67
1Q DIC	905.08	.00	.903	150.00	150.00	150.00	.00	.00	104.06
2Q DIC	903.87	.00	.903	112.50	112.50	112.50	.00	.00	78.04

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1988 *****									
1Q ENE	902.67	.00	1.153	112.50	112.50	112.50	.00	.00	77.99
2Q ENE	889.65	.00	1.148	112.50	112.50	112.50	.00	.00	77.89
1Q FEB	876.64	.00	1.573	56.50	56.50	56.50	.00	.00	39.05
2Q FEB	856.23	.00	1.562	56.50	56.50	56.50	.00	.00	38.98
1Q MAR	835.83	.00	2.334	56.50	56.50	56.50	.00	.00	38.91
2Q MAR	819.57	.00	2.320	56.50	56.50	56.50	.00	.00	38.88
1Q ABR	822.31	.00	2.761	56.50	56.50	56.50	.00	.00	38.95
2Q ABR	855.88	.00	2.795	75.00	75.00	75.00	.00	.00	51.83
1Q MAY	870.91	.00	3.157	56.50	56.50	56.50	.00	.00	39.09
2Q MAY	880.65	.00	3.167	56.50	56.50	56.50	.00	.00	39.13
1Q JUN	890.39	.00	.616	450.00	450.00	450.00	.00	.00	305.94
2Q JUN	566.74	.00	.537	225.00	225.00	225.00	.00	.00	149.04
1Q JUL	468.18	.00	-1.727	300.00	300.00	300.00	.00	.00	196.34
2Q JUL	393.84	.00	-1.661	375.00	375.00	375.00	.00	.00	242.87
1Q AGO	319.43	.00	-1.314	225.00	225.00	225.00	.00	.00	146.54
2Q AGO	473.42	.00	-1.427	525.00	525.00	525.00	.00	.00	347.48
1Q SEP	549.85	.00	-.792	525.00	525.00	525.00	.00	.00	351.14
2Q SEP	625.64	.00	-.821	375.00	375.00	375.00	.00	.00	255.48
1Q OCT	851.46	.00	.706	150.00	150.00	150.00	.00	.00	103.16
2Q OCT	775.76	.00	.687	75.00	75.00	75.00	.00	.00	51.39
1Q NOV	775.07	.00	1.325	150.00	150.00	150.00	.00	.00	103.12
2Q NOV	844.50	.00	1.359	375.00	375.00	375.00	.00	.00	253.97
1Q DIC	543.14	.00	.775	75.00	75.00	75.00	.00	.00	49.85
2Q DIC	541.44	.00	.774	75.00	75.00	75.00	.00	.00	49.84

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1989 *****									
1Q ENE	539.73	.00	.989	75.00	75.00	75.00	.00	.00	49.82
2Q ENE	537.38	.00	.987	75.00	75.00	75.00	.00	.00	49.81
1Q FEB	535.03	.00	1.358	37.50	37.50	37.50	.00	.00	24.90
2Q FEB	533.79	.00	1.357	37.50	37.50	37.50	.00	.00	24.89
1Q MAR	532.55	.00	2.041	37.50	37.50	37.50	.00	.00	24.89
2Q MAR	530.33	.00	2.039	37.50	37.50	37.50	.00	.00	24.88
1Q ABR	528.11	.00	2.421	37.50	37.50	37.50	.00	.00	24.87
2Q ABR	521.66	.00	2.414	19.00	19.00	19.00	.00	.00	12.60
1Q MAY	533.73	.00	2.728	37.50	37.50	37.50	.00	.00	24.88
2Q MAY	524.44	.00	2.716	19.00	19.00	19.00	.00	.00	12.61
1Q JUN	533.66	.00	.528	75.00	75.00	75.00	.00	.00	50.07
2Q JUN	616.02	.00	.550	150.00	150.00	150.00	.00	.00	100.25
1Q JUL	548.35	.00	-1.798	225.00	225.00	225.00	.00	.00	148.15
2Q JUL	400.15	.00	-1.666	150.00	150.00	150.00	.00	.00	97.24
1Q AGO	326.82	.00	-1.319	75.00	75.00	75.00	.00	.00	48.50
2Q AGO	363.94	.00	-1.347	75.00	75.00	75.00	.00	.00	49.01
1Q SEP	476.09	.00	-.763	75.00	75.00	75.00	.00	.00	49.42
2Q SEP	484.33	.00	-.766	75.00	75.00	75.00	.00	.00	49.74
1Q OCT	567.59	.00	.625	75.00	75.00	75.00	.00	.00	50.02
2Q OCT	566.96	.00	.624	75.00	75.00	75.00	.00	.00	50.02
1Q NOV	566.34	.00	1.205	75.00	75.00	75.00	.00	.00	50.01
2Q NOV	565.13	.00	1.204	75.00	75.00	75.00	.00	.00	50.00
1Q DIC	563.93	.00	.783	75.00	75.00	75.00	.00	.00	49.87
2Q DIC	525.65	.00	.768	75.00	75.00	75.00	.00	.00	49.60
***** 1990 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	487.38	.00	.963	37.50	37.50	37.50	.00	.00	24.73
2Q ENE	486.41	.00	.962	37.50	37.50	37.50	.00	.00	24.73
1Q FEB	485.45	.00	1.324	19.00	19.00	19.00	.00	.00	12.53
2Q FEB	483.88	.00	1.323	19.00	19.00	19.00	.00	.00	12.53
1Q MAR	482.30	.00	1.990	19.00	19.00	19.00	.00	.00	12.52
2Q MAR	483.01	.00	1.991	19.00	19.00	19.00	.00	.00	12.54
1Q ABR	502.22	.00	2.390	19.00	19.00	19.00	.00	.00	12.57
2Q ABR	520.38	.00	2.412	19.00	19.00	19.00	.00	.00	12.59
1Q MAY	520.02	.00	2.710	19.00	19.00	19.00	.00	.00	12.61
2Q MAY	539.36	.00	2.736	37.50	37.50	37.50	.00	.00	24.92
1Q JUN	540.17	.00	.530	75.00	75.00	75.00	.00	.00	50.08
2Q JUN	611.72	.00	.549	150.00	150.00	150.00	.00	.00	100.13
1Q JUL	536.17	.00	-1.788	300.00	300.00	300.00	.00	.00	197.18
2Q JUL	386.78	.00	-1.655	300.00	300.00	300.00	.00	.00	194.10
1Q AGO	312.25	.00	-1.309	150.00	150.00	150.00	.00	.00	97.51
2Q AGO	454.02	.00	-1.413	450.00	450.00	450.00	.00	.00	309.83
1Q SEP	1306.67	.00	-1.050	650.00	650.00	650.00	.00	.00	467.22
2Q SEP	1257.72	.00	-1.034	650.00	650.00	650.00	.00	.00	465.11
1Q OCT	1208.75	.00	.796	300.00	300.00	300.00	.00	.00	214.43
2Q OCT	1234.36	.00	.803	300.00	300.00	300.00	.00	.00	214.94
1Q NOV	1259.96	.00	1.562	600.00	600.00	600.00	.00	.00	427.57
2Q NOV	1117.93	.00	1.492	300.00	300.00	300.00	.00	.00	211.71
1Q DIC	1050.97	.00	.950	375.00	375.00	375.00	.00	.00	260.36
2Q DIC	773.96	.00	.862	112.50	112.50	112.50	.00	.00	77.16

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1991 *****									
1Q ENE	797.04	.00	1.110	75.00	75.00	75.00	.00	.00	51.48
2Q ENE	789.19	.00	1.107	75.00	75.00	75.00	.00	.00	51.44
1Q FEB	781.35	.00	1.520	37.50	37.50	37.50	.00	.00	25.69
2Q FEB	769.04	.00	1.513	37.50	37.50	37.50	.00	.00	25.66
1Q MAR	756.73	.00	2.267	37.50	37.50	37.50	.00	.00	25.64
2Q MAR	750.75	.00	2.262	37.50	37.50	37.50	.00	.00	25.63
1Q ABR	744.77	.00	2.683	37.50	37.50	37.50	.00	.00	25.61
2Q ABR	737.33	.00	2.675	37.50	37.50	37.50	.00	.00	25.58
1Q MAY	729.90	.00	2.995	37.50	37.50	37.50	.00	.00	25.56
2Q MAY	726.91	.00	2.991	37.50	37.50	37.50	.00	.00	25.52
1Q JUN	705.43	.00	.574	300.00	300.00	300.00	.00	.00	200.85
2Q JUN	484.54	.00	.516	75.00	75.00	75.00	.00	.00	49.47
1Q JUL	488.71	.00	-1.746	225.00	225.00	225.00	.00	.00	155.00
2Q JUL	1270.32	.00	-2.360	650.00	650.00	2192.80	1542.80	.00	468.11
1Q AGO	1335.13	.00	-1.984	650.00	650.00	650.00	.00	.00	468.47
2Q AGO	1287.11	.00	-1.955	650.00	650.00	650.00	.00	.00	466.40
1Q SEP	1239.07	.00	-1.028	650.00	650.00	650.00	.00	.00	464.31
2Q SEP	1190.10	.00	-1.012	525.00	525.00	525.00	.00	.00	373.11
1Q OCT	1129.28	.00	.776	150.00	150.00	150.00	.00	.00	106.35
2Q OCT	1139.58	.00	.779	150.00	150.00	150.00	.00	.00	106.45
1Q NOV	1149.88	.00	1.508	375.00	375.00	375.00	.00	.00	264.36
2Q NOV	996.92	.00	1.433	225.00	225.00	225.00	.00	.00	156.89
1Q DIC	919.04	.00	.908	112.50	112.50	112.50	.00	.00	77.98
2Q DIC	870.84	.00	.892	112.50	112.50	112.50	.00	.00	77.62
***** 1992 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	822.66	.00	1.121	75.00	75.00	75.00	.00	.00	51.61
2Q ENE	818.20	.00	1.119	300.00	300.00	594.51	294.51	.00	211.55
1Q FEB	1335.13	.00	1.830	187.50	187.50	372.09	184.59	.00	135.43
2Q FEB	1335.13	.00	1.830	206.50	206.50	391.09	184.59	.00	149.16
1Q MAR	1335.13	.00	2.754	187.50	187.50	187.50	.00	.00	135.25
2Q MAR	1305.20	.00	2.729	206.50	206.50	206.50	.00	.00	148.54
1Q ABR	1275.29	.00	3.214	206.50	206.50	206.50	.00	.00	147.95
2Q ABR	1219.27	.00	3.158	169.00	169.00	169.00	.00	.00	120.56
1Q MAY	1181.82	.00	3.506	300.00	300.00	300.00	.00	.00	212.01
2Q MAY	1017.47	.00	3.321	244.00	244.00	244.00	.00	.00	170.08
1Q JUN	890.80	.00	.616	650.00	650.00	650.00	.00	.00	442.92
2Q JUN	600.34	.00	.546	375.00	375.00	375.00	.00	.00	248.40
1Q JUL	434.95	.00	-1.697	300.00	300.00	300.00	.00	.00	195.40
2Q JUL	358.39	.00	-1.629	150.00	150.00	150.00	.00	.00	97.16
1Q AGO	356.76	.00	-1.341	75.00	75.00	75.00	.00	.00	48.97
2Q AGO	471.25	.00	-1.425	150.00	150.00	150.00	.00	.00	99.00
1Q SEP	510.83	.00	-.777	75.00	75.00	75.00	.00	.00	49.66
2Q SEP	517.91	.00	-.779	75.00	75.00	75.00	.00	.00	49.96
1Q OCT	600.00	.00	.634	75.00	75.00	75.00	.00	.00	50.24
2Q OCT	599.36	.00	.634	75.00	75.00	75.00	.00	.00	50.24
1Q NOV	598.73	.00	1.224	75.00	75.00	75.00	.00	.00	50.79
2Q NOV	764.14	.00	1.320	75.00	75.00	75.00	.00	.00	51.37
1Q DIC	779.46	.00	.863	112.50	112.50	112.50	.00	.00	77.16
2Q DIC	791.31	.00	.867	150.00	150.00	150.00	.00	.00	103.00

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1993 *****									
1Q ENE	803.16	.00	1.113	150.00	150.00	150.00	.00	.00	103.56
2Q ENE	904.81	.00	1.154	150.00	150.00	150.00	.00	.00	104.39
1Q FEB	968.93	.00	1.625	56.50	56.50	56.50	.00	.00	39.39
2Q FEB	940.62	.00	1.609	56.50	56.50	56.50	.00	.00	39.28
1Q MAR	912.33	.00	2.398	56.50	56.50	56.50	.00	.00	39.19
2Q MAR	890.60	.00	2.380	56.50	56.50	56.50	.00	.00	39.10
1Q ABR	868.89	.00	2.808	56.50	56.50	56.50	.00	.00	39.03
2Q ABR	853.22	.00	2.792	56.50	56.50	56.50	.00	.00	38.98
1Q MAY	837.56	.00	3.119	56.50	56.50	56.50	.00	.00	38.91
2Q MAY	817.85	.00	3.097	37.50	37.50	37.50	.00	.00	25.80
1Q JUN	817.16	.00	.600	300.00	300.00	300.00	.00	.00	204.59
2Q JUN	665.30	.00	.563	225.00	225.00	225.00	.00	.00	150.53
1Q JUL	514.74	.00	-1.769	300.00	300.00	300.00	.00	.00	197.64
2Q JUL	441.87	.00	-1.703	375.00	375.00	375.00	.00	.00	244.55
1Q AGO	368.93	.00	-1.350	225.00	225.00	225.00	.00	.00	147.60
2Q AGO	526.50	.00	-1.466	300.00	300.00	300.00	.00	.00	199.07
1Q SEP	534.18	.00	-.786	150.00	150.00	150.00	.00	.00	99.08
2Q SEP	459.97	.00	-.757	75.00	75.00	75.00	.00	.00	49.44
1Q OCT	504.62	.00	.605	75.00	75.00	75.00	.00	.00	49.59
2Q OCT	504.02	.00	.605	75.00	75.00	75.00	.00	.00	49.59
1Q NOV	503.41	.00	1.168	75.00	75.00	75.00	.00	.00	49.82
2Q NOV	572.88	.00	1.209	75.00	75.00	75.00	.00	.00	50.06
1Q DIC	571.67	.00	.786	75.00	75.00	75.00	.00	.00	50.06
2Q DIC	573.22	.00	.786	75.00	75.00	75.00	.00	.00	50.07
***** 1994 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	574.78	.00	1.006	75.00	75.00	75.00	.00	.00	49.94
2Q ENE	536.27	.00	.987	75.00	75.00	75.00	.00	.00	49.68
1Q FEB	497.78	.00	1.333	19.00	19.00	19.00	.00	.00	12.55
2Q FEB	496.20	.00	1.332	19.00	19.00	19.00	.00	.00	12.55
1Q MAR	494.62	.00	2.003	19.00	19.00	19.00	.00	.00	12.54
2Q MAR	492.37	.00	2.001	19.00	19.00	19.00	.00	.00	12.54
1Q ABR	490.12	.00	2.376	19.00	19.00	19.00	.00	.00	12.55
2Q ABR	507.40	.00	2.396	19.00	19.00	19.00	.00	.00	12.58
1Q MAY	524.67	.00	2.716	19.00	19.00	19.00	.00	.00	12.64
2Q MAY	568.27	.00	2.775	37.50	37.50	37.50	.00	.00	25.06
1Q JUN	593.30	.00	.544	75.00	75.00	75.00	.00	.00	50.42
2Q JUN	657.63	.00	.561	150.00	150.00	150.00	.00	.00	100.77
1Q JUL	582.07	.00	-1.828	375.00	375.00	375.00	.00	.00	248.08
2Q JUL	434.51	.00	-1.697	225.00	225.00	225.00	.00	.00	146.58
1Q AGO	361.83	.00	-1.345	75.00	75.00	75.00	.00	.00	48.74
2Q AGO	399.51	.00	-1.373	75.00	75.00	75.00	.00	.00	49.00
1Q SEP	437.22	.00	-.748	75.00	75.00	75.00	.00	.00	49.13
2Q SEP	437.97	.00	-.748	75.00	75.00	75.00	.00	.00	49.14
1Q OCT	438.72	.00	.585	75.00	75.00	75.00	.00	.00	49.14
2Q OCT	438.13	.00	.585	75.00	75.00	75.00	.00	.00	49.13
1Q NOV	437.55	.00	1.128	75.00	75.00	75.00	.00	.00	49.37
2Q NOV	507.12	.00	1.170	75.00	75.00	75.00	.00	.00	49.60
1Q DIC	505.95	.00	.761	37.50	37.50	37.50	.00	.00	24.86
2Q DIC	540.75	.00	.774	75.00	75.00	75.00	.00	.00	49.83

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1995 *****									
1Q ENE	538.04	.00	.988	75.00	75.00	75.00	.00	.00	49.69
2Q ENE	499.56	.00	.969	37.50	37.50	37.50	.00	.00	24.78
1Q FEB	498.59	.00	1.333	19.00	19.00	19.00	.00	.00	12.55
2Q FEB	497.01	.00	1.332	19.00	19.00	19.00	.00	.00	12.55
1Q MAR	495.42	.00	2.004	19.00	19.00	19.00	.00	.00	12.55
2Q MAR	493.17	.00	2.001	19.00	19.00	19.00	.00	.00	12.56
1Q ABR	507.40	.00	2.396	19.00	19.00	19.00	.00	.00	12.59
2Q ABR	528.82	.00	2.422	37.50	37.50	37.50	.00	.00	24.88
1Q MAY	531.71	.00	2.725	37.50	37.50	37.50	.00	.00	24.86
2Q MAY	515.96	.00	2.704	19.00	19.00	19.00	.00	.00	12.60
1Q JUN	537.22	.00	.529	150.00	150.00	150.00	.00	.00	99.12
2Q JUN	462.43	.00	.510	75.00	75.00	75.00	.00	.00	49.30
1Q JUL	462.65	.00	-1.722	300.00	300.00	300.00	.00	.00	196.23
2Q JUL	391.35	.00	-1.659	225.00	225.00	225.00	.00	.00	146.48
1Q AGO	394.98	.00	-1.369	75.00	75.00	75.00	.00	.00	49.86
2Q AGO	692.04	.00	-1.587	300.00	300.00	300.00	.00	.00	205.92
1Q SEP	914.31	.00	-.923	450.00	450.00	450.00	.00	.00	314.74
2Q SEP	1065.23	.00	-.972	450.00	450.00	450.00	.00	.00	318.95
1Q OCT	1196.60	.00	.793	150.00	150.00	150.00	.00	.00	106.64
2Q OCT	1131.15	.00	.776	150.00	150.00	150.00	.00	.00	105.99
1Q NOV	1065.72	.00	1.467	225.00	225.00	225.00	.00	.00	157.91
2Q NOV	986.56	.00	1.428	225.00	225.00	225.00	.00	.00	156.73
1Q DIC	907.45	.00	.904	112.50	112.50	112.50	.00	.00	77.96
2Q DIC	877.89	.00	.895	112.50	112.50	112.50	.00	.00	77.74

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1996 *****									
1Q ENE	848.34	.00	1.131	112.50	112.50	112.50	.00	.00	77.49
2Q ENE	810.18	.00	1.116	75.00	75.00	75.00	.00	.00	51.56
1Q FEB	809.54	.00	1.536	37.50	37.50	37.50	.00	.00	25.75
2Q FEB	789.25	.00	1.524	37.50	37.50	37.50	.00	.00	25.70
1Q MAR	768.98	.00	2.278	37.50	37.50	37.50	.00	.00	25.65
2Q MAR	747.95	.00	2.260	37.50	37.50	37.50	.00	.00	25.59
1Q ABR	726.94	.00	2.662	37.50	37.50	37.50	.00	.00	25.52
2Q ABR	705.53	.00	2.636	37.50	37.50	37.50	.00	.00	25.45
1Q MAY	684.14	.00	2.933	37.50	37.50	37.50	.00	.00	25.37
2Q MAY	662.46	.00	2.903	37.50	37.50	37.50	.00	.00	25.31
1Q JUN	648.79	.00	.559	225.00	225.00	225.00	.00	.00	150.19
2Q JUN	498.23	.00	.519	75.00	75.00	75.00	.00	.00	49.55
1Q JUL	497.71	.00	-1.754	300.00	300.00	300.00	.00	.00	197.14
2Q JUL	422.60	.00	-1.686	225.00	225.00	225.00	.00	.00	146.31
1Q AGO	347.41	.00	-1.335	75.00	75.00	75.00	.00	.00	48.92
2Q AGO	465.80	.00	-1.421	150.00	150.00	150.00	.00	.00	98.95
1Q SEP	509.27	.00	-.776	75.00	75.00	75.00	.00	.00	49.63
2Q SEP	510.04	.00	-.776	75.00	75.00	75.00	.00	.00	49.78
1Q OCT	555.11	.00	.621	75.00	75.00	75.00	.00	.00	49.94
2Q OCT	554.49	.00	.621	75.00	75.00	75.00	.00	.00	49.93
1Q NOV	553.86	.00	1.197	75.00	75.00	75.00	.00	.00	50.49
2Q NOV	716.87	.00	1.294	150.00	150.00	150.00	.00	.00	102.59
1Q DIC	804.78	.00	.871	112.50	112.50	112.50	.00	.00	77.27
2Q DIC	796.06	.00	.869	112.50	112.50	112.50	.00	.00	77.21

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1997 *****									
1Q ENE	787.35	.00	1.107	75.00	75.00	75.00	.00	.00	51.43
2Q ENE	780.24	.00	1.104	75.00	75.00	75.00	.00	.00	51.40
1Q FEB	773.15	.00	1.516	37.50	37.50	37.50	.00	.00	25.67
2Q FEB	760.77	.00	1.509	37.50	37.50	37.50	.00	.00	25.64
1Q MAR	748.40	.00	2.260	37.50	37.50	37.50	.00	.00	25.62
2Q MAR	744.54	.00	2.257	37.50	37.50	37.50	.00	.00	25.61
1Q ABR	740.67	.00	2.679	37.50	37.50	37.50	.00	.00	25.61
2Q ABR	745.64	.00	2.684	37.50	37.50	37.50	.00	.00	25.63
1Q MAY	750.61	.00	3.021	37.50	37.50	37.50	.00	.00	25.66
2Q MAY	768.25	.00	3.041	37.50	37.50	37.50	.00	.00	25.70
1Q JUN	785.87	.00	.593	375.00	375.00	375.00	.00	.00	253.41
2Q JUN	552.77	.00	.533	225.00	225.00	225.00	.00	.00	148.22
1Q JUL	402.24	.00	-1.668	225.00	225.00	225.00	.00	.00	145.90
2Q JUL	327.71	.00	-1.602	150.00	150.00	150.00	.00	.00	96.76
1Q AGO	328.11	.00	-1.320	150.00	150.00	150.00	.00	.00	97.60
2Q AGO	450.73	.00	-1.410	75.00	75.00	75.00	.00	.00	49.39
1Q SEP	498.44	.00	-.772	75.00	75.00	75.00	.00	.00	49.55
2Q SEP	499.22	.00	-.772	75.00	75.00	75.00	.00	.00	49.56
1Q OCT	499.99	.00	.604	75.00	75.00	75.00	.00	.00	49.56
2Q OCT	499.38	.00	.604	75.00	75.00	75.00	.00	.00	49.55
1Q NOV	498.78	.00	1.165	75.00	75.00	75.00	.00	.00	49.55
2Q NOV	497.62	.00	1.164	75.00	75.00	75.00	.00	.00	49.54
1Q DIC	496.45	.00	.757	37.50	37.50	37.50	.00	.00	24.77
2Q DIC	495.69	.00	.757	37.50	37.50	37.50	.00	.00	24.76
***** 1998 *****									
1Q ENE	494.94	.00	.967	37.50	37.50	37.50	.00	.00	24.76
2Q ENE	493.97	.00	.966	37.50	37.50	37.50	.00	.00	24.76
1Q FEB	493.01	.00	1.329	19.00	19.00	19.00	.00	.00	12.54
2Q FEB	491.43	.00	1.328	19.00	19.00	19.00	.00	.00	12.54
1Q MAR	489.85	.00	1.998	19.00	19.00	19.00	.00	.00	12.54
2Q MAR	487.84	.00	1.996	19.00	19.00	19.00	.00	.00	12.53
1Q ABR	485.83	.00	2.370	19.00	19.00	19.00	.00	.00	12.53
2Q ABR	483.21	.00	2.367	19.00	19.00	19.00	.00	.00	12.52
1Q MAY	480.59	.00	2.656	19.00	19.00	19.00	.00	.00	12.52
2Q MAY	477.68	.00	2.652	19.00	19.00	19.00	.00	.00	12.51
1Q JUN	474.78	.00	.513	75.00	75.00	75.00	.00	.00	49.40
2Q JUN	480.16	.00	.514	75.00	75.00	75.00	.00	.00	49.44
1Q JUL	485.53	.00	-1.743	150.00	150.00	150.00	.00	.00	98.42
2Q JUL	412.27	.00	-1.677	225.00	225.00	225.00	.00	.00	146.09
1Q AGO	336.10	.00	-1.326	75.00	75.00	75.00	.00	.00	48.58
2Q AGO	378.30	.00	-1.357	150.00	150.00	150.00	.00	.00	97.74
1Q SEP	420.53	.00	-.741	75.00	75.00	75.00	.00	.00	49.32
2Q SEP	510.79	.00	-.777	150.00	150.00	150.00	.00	.00	99.89
1Q OCT	601.08	.00	.635	75.00	75.00	75.00	.00	.00	50.29
2Q OCT	612.84	.00	.638	75.00	75.00	75.00	.00	.00	50.86
1Q NOV	774.60	.00	1.325	300.00	300.00	300.00	.00	.00	206.46
2Q NOV	866.58	.00	1.370	225.00	225.00	225.00	.00	.00	155.66
1Q DIC	883.52	.00	.896	150.00	150.00	150.00	.00	.00	103.71
2Q DIC	854.75	.00	.887	112.50	112.50	112.50	.00	.00	77.57

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1999 *****									
1Q ENE	825.99	.00	1.122	112.50	112.50	112.50	.00	.00	77.33
2Q ENE	791.59	.00	1.108	75.00	75.00	75.00	.00	.00	51.48
1Q FEB	794.70	.00	1.528	37.50	37.50	37.50	.00	.00	25.73
2Q FEB	782.44	.00	1.521	37.50	37.50	37.50	.00	.00	25.70
1Q MAR	770.18	.00	2.279	37.50	37.50	37.50	.00	.00	25.68
2Q MAR	765.70	.00	2.275	37.50	37.50	37.50	.00	.00	25.67
1Q ABR	761.21	.00	2.700	37.50	37.50	37.50	.00	.00	25.65
2Q ABR	753.67	.00	2.692	37.50	37.50	37.50	.00	.00	25.63
1Q MAY	746.14	.00	3.016	37.50	37.50	37.50	.00	.00	25.63
2Q MAY	754.43	.00	3.026	37.50	37.50	37.50	.00	.00	25.65
1Q JUN	762.71	.00	.588	375.00	375.00	375.00	.00	.00	252.72
2Q JUN	529.42	.00	.527	225.00	225.00	225.00	.00	.00	147.73
1Q JUL	378.89	.00	-1.648	225.00	225.00	225.00	.00	.00	145.42
2Q JUL	304.49	.00	-1.582	225.00	225.00	225.00	.00	.00	144.66
1Q AGO	305.02	.00	-1.304	150.00	150.00	150.00	.00	.00	97.35
2Q AGO	437.23	.00	-1.400	150.00	150.00	150.00	.00	.00	98.65
1Q SEP	494.54	.00	-.770	75.00	75.00	75.00	.00	.00	49.52
2Q SEP	495.31	.00	-.771	75.00	75.00	75.00	.00	.00	49.77
1Q OCT	564.88	.00	.624	75.00	75.00	75.00	.00	.00	50.00
2Q OCT	564.25	.00	.624	75.00	75.00	75.00	.00	.00	50.00
1Q NOV	563.63	.00	1.203	150.00	150.00	150.00	.00	.00	99.47
2Q NOV	487.43	.00	1.158	75.00	75.00	75.00	.00	.00	49.47
1Q DIC	486.27	.00	.753	37.50	37.50	37.50	.00	.00	24.78
2Q DIC	514.26	.00	.764	37.50	37.50	37.50	.00	.00	24.88
***** 2000 *****									
1Q ENE	542.25	.00	.990	75.00	75.00	75.00	.00	.00	49.83
2Q ENE	536.93	.00	.987	75.00	75.00	75.00	.00	.00	49.68
1Q FEB	498.44	.00	1.333	19.00	19.00	19.00	.00	.00	12.55
2Q FEB	496.86	.00	1.332	19.00	19.00	19.00	.00	.00	12.56
1Q MAR	504.15	.00	2.013	19.00	19.00	19.00	.00	.00	12.58
2Q MAR	520.18	.00	2.029	19.00	19.00	19.00	.00	.00	12.60
1Q ABR	536.18	.00	2.431	37.50	37.50	37.50	.00	.00	24.89
2Q ABR	530.75	.00	2.425	37.50	37.50	37.50	.00	.00	24.85
1Q MAY	509.57	.00	2.695	19.00	19.00	19.00	.00	.00	12.57
2Q MAY	506.63	.00	2.691	19.00	19.00	19.00	.00	.00	12.56
1Q JUN	503.69	.00	.521	150.00	150.00	150.00	.00	.00	98.69
2Q JUN	433.86	.00	.502	75.00	75.00	75.00	.00	.00	49.12
1Q JUL	439.05	.00	-1.701	300.00	300.00	300.00	.00	.00	195.61
2Q JUL	369.80	.00	-1.639	150.00	150.00	150.00	.00	.00	97.37
1Q AGO	375.49	.00	-1.355	150.00	150.00	150.00	.00	.00	97.66
2Q AGO	412.54	.00	-1.382	75.00	75.00	75.00	.00	.00	49.09
1Q SEP	449.63	.00	-.753	75.00	75.00	75.00	.00	.00	49.22
2Q SEP	450.38	.00	-.753	75.00	75.00	75.00	.00	.00	49.22
1Q OCT	451.14	.00	.589	75.00	75.00	75.00	.00	.00	49.22
2Q OCT	450.55	.00	.589	75.00	75.00	75.00	.00	.00	49.22
1Q NOV	449.96	.00	1.136	75.00	75.00	75.00	.00	.00	49.21
2Q NOV	448.82	.00	1.135	75.00	75.00	75.00	.00	.00	49.20
1Q DIC	447.69	.00	.738	37.50	37.50	37.50	.00	.00	24.60
2Q DIC	446.95	.00	.738	37.50	37.50	37.50	.00	.00	24.60



QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2001 *****									
1Q ENE	446.21	.00	.942	37.50	37.50	37.50	.00	.00	24.59
2Q ENE	445.27	.00	.942	37.50	37.50	37.50	.00	.00	24.59
1Q FEB	444.33	.00	1.296	19.00	19.00	19.00	.00	.00	12.46
2Q FEB	442.78	.00	1.295	19.00	19.00	19.00	.00	.00	12.45
1Q MAR	441.24	.00	1.948	19.00	19.00	19.00	.00	.00	12.45
2Q MAR	439.04	.00	1.946	19.00	19.00	19.00	.00	.00	12.45
1Q ABR	436.84	.00	2.311	19.00	19.00	19.00	.00	.00	12.44
2Q ABR	434.28	.00	2.307	19.00	19.00	19.00	.00	.00	12.44
1Q MAY	431.72	.00	2.589	19.00	19.00	19.00	.00	.00	12.43
2Q MAY	428.89	.00	2.585	19.00	19.00	19.00	.00	.00	12.43
1Q JUN	426.05	.00	.500	75.00	75.00	75.00	.00	.00	49.07
2Q JUN	431.00	.00	.501	75.00	75.00	75.00	.00	.00	49.10
1Q JUL	435.95	.00	-1.698	150.00	150.00	150.00	.00	.00	97.74
2Q JUL	362.65	.00	-1.633	150.00	150.00	150.00	.00	.00	97.22
1Q AGO	360.87	.00	-1.344	150.00	150.00	150.00	.00	.00	98.18
2Q AGO	501.80	.00	-1.448	150.00	150.00	150.00	.00	.00	99.60
1Q SEP	567.83	.00	-.799	150.00	150.00	150.00	.00	.00	99.59
2Q SEP	501.16	.00	-.773	75.00	75.00	75.00	.00	.00	49.85
1Q OCT	584.46	.00	.630	75.00	75.00	75.00	.00	.00	50.14
2Q OCT	583.83	.00	.629	75.00	75.00	75.00	.00	.00	50.13
1Q NOV	583.21	.00	1.215	75.00	75.00	75.00	.00	.00	50.35
2Q NOV	648.22	.00	1.253	75.00	75.00	75.00	.00	.00	50.57
1Q DIC	646.96	.00	.815	75.00	75.00	75.00	.00	.00	50.50
2Q DIC	625.54	.00	.806	75.00	75.00	75.00	.00	.00	50.29

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2002 *****									
1Q ENE	587.24	.00	1.012	75.00	75.00	75.00	.00	.00	50.03
2Q ENE	548.73	.00	.993	75.00	75.00	75.00	.00	.00	49.76
1Q FEB	510.23	.00	1.341	19.00	19.00	19.00	.00	.00	12.57
2Q FEB	508.64	.00	1.340	19.00	19.00	19.00	.00	.00	12.57
1Q MAR	507.05	.00	2.015	19.00	19.00	19.00	.00	.00	12.57
2Q MAR	504.79	.00	2.013	19.00	19.00	19.00	.00	.00	12.56
1Q ABR	502.52	.00	2.391	19.00	19.00	19.00	.00	.00	12.56
2Q ABR	499.88	.00	2.387	19.00	19.00	19.00	.00	.00	12.55
1Q MAY	497.25	.00	2.679	19.00	19.00	19.00	.00	.00	12.55
2Q MAY	494.32	.00	2.675	19.00	19.00	19.00	.00	.00	12.54
1Q JUN	491.39	.00	.517	150.00	150.00	150.00	.00	.00	98.52
2Q JUN	420.71	.00	.499	75.00	75.00	75.00	.00	.00	49.03
1Q JUL	425.04	.00	-1.688	225.00	225.00	225.00	.00	.00	146.33
2Q JUL	346.88	.00	-1.619	225.00	225.00	225.00	.00	.00	145.49
1Q AGO	343.66	.00	-1.332	150.00	150.00	150.00	.00	.00	97.92
2Q AGO	482.12	.00	-1.433	225.00	225.00	225.00	.00	.00	148.97
1Q SEP	545.69	.00	-.790	150.00	150.00	150.00	.00	.00	99.31
2Q SEP	482.69	.00	-.766	75.00	75.00	75.00	.00	.00	49.74
1Q OCT	569.67	.00	.625	75.00	75.00	75.00	.00	.00	50.04
2Q OCT	569.05	.00	.625	75.00	75.00	75.00	.00	.00	50.03
1Q NOV	568.42	.00	1.206	75.00	75.00	75.00	.00	.00	50.28
2Q NOV	641.87	.00	1.249	150.00	150.00	150.00	.00	.00	100.54
1Q DIC	565.62	.00	.784	112.50	112.50	112.50	.00	.00	74.90
2Q DIC	544.12	.00	.775	75.00	75.00	75.00	.00	.00	49.92

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2003 *****									
1Q ENE	560.12	.00	.998	75.00	75.00	75.00	.00	.00	49.95
2Q ENE	552.24	.00	.995	75.00	75.00	75.00	.00	.00	49.79
1Q FEB	513.74	.00	1.343	19.00	19.00	19.00	.00	.00	12.58
2Q FEB	512.15	.00	1.342	19.00	19.00	19.00	.00	.00	12.57
1Q MAR	510.56	.00	2.019	19.00	19.00	19.00	.00	.00	12.57
2Q MAR	508.29	.00	2.017	19.00	19.00	19.00	.00	.00	12.57
1Q ABR	506.02	.00	2.395	19.00	19.00	19.00	.00	.00	12.56
2Q ABR	503.38	.00	2.392	19.00	19.00	19.00	.00	.00	12.56
1Q MAY	500.74	.00	2.683	19.00	19.00	19.00	.00	.00	12.55
2Q MAY	497.80	.00	2.679	19.00	19.00	19.00	.00	.00	12.55
1Q JUN	494.87	.00	.518	75.00	75.00	75.00	.00	.00	49.54
2Q JUN	500.32	.00	.520	75.00	75.00	75.00	.00	.00	49.58
1Q JUL	505.76	.00	-1.761	300.00	300.00	300.00	.00	.00	197.41
2Q JUL	434.23	.00	-1.697	300.00	300.00	300.00	.00	.00	195.45
1Q AGO	362.63	.00	-1.346	225.00	225.00	225.00	.00	.00	147.38
2Q AGO	511.51	.00	-1.455	450.00	450.00	450.00	.00	.00	299.36
1Q SEP	585.49	.00	-.806	375.00	375.00	375.00	.00	.00	254.29
2Q SEP	811.30	.00	-.890	600.00	600.00	600.00	.00	.00	412.83
1Q OCT	825.67	.00	.699	225.00	225.00	225.00	.00	.00	156.62
2Q OCT	1053.12	.00	.757	225.00	225.00	225.00	.00	.00	159.45
1Q NOV	1205.50	.00	1.535	600.00	600.00	600.00	.00	.00	425.36
2Q NOV	1061.21	.00	1.465	300.00	300.00	300.00	.00	.00	210.56
1Q DIC	991.99	.00	.931	412.50	412.50	412.50	.00	.00	284.16
2Q DIC	690.03	.00	.831	75.00	75.00	75.00	.00	.00	50.86
***** 2004 *****									
1Q ENE	688.17	.00	1.061	75.00	75.00	75.00	.00	.00	50.82
2Q ENE	677.97	.00	1.056	75.00	75.00	75.00	.00	.00	50.75
1Q FEB	667.77	.00	1.447	37.50	37.50	37.50	.00	.00	25.32
2Q FEB	647.58	.00	1.434	37.50	37.50	37.50	.00	.00	25.25
1Q MAR	627.39	.00	2.138	37.50	37.50	37.50	.00	.00	25.18
2Q MAR	606.51	.00	2.116	37.50	37.50	37.50	.00	.00	25.11
1Q ABR	585.64	.00	2.491	37.50	37.50	37.50	.00	.00	25.04
2Q ABR	564.40	.00	2.465	37.50	37.50	37.50	.00	.00	24.96
1Q MAY	543.18	.00	2.741	37.50	37.50	37.50	.00	.00	24.89
2Q MAY	521.69	.00	2.712	19.00	19.00	19.00	.00	.00	12.59
1Q JUN	518.73	.00	.525	75.00	75.00	75.00	.00	.00	49.73
2Q JUN	532.10	.00	.528	225.00	225.00	225.00	.00	.00	148.71
1Q JUL	470.47	.00	-1.729	300.00	300.00	300.00	.00	.00	196.64
2Q JUL	413.42	.00	-1.678	300.00	300.00	300.00	.00	.00	195.08
1Q AGO	356.32	.00	-1.341	150.00	150.00	150.00	.00	.00	98.02
2Q AGO	484.21	.00	-1.435	150.00	150.00	150.00	.00	.00	99.27
1Q SEP	537.19	.00	-.787	150.00	150.00	150.00	.00	.00	99.76
2Q SEP	555.84	.00	-.794	300.00	300.00	300.00	.00	.00	202.09
1Q OCT	724.50	.00	.673	150.00	150.00	150.00	.00	.00	103.73
2Q OCT	1023.71	.00	.749	225.00	225.00	225.00	.00	.00	158.99
1Q NOV	1172.84	.00	1.519	600.00	600.00	600.00	.00	.00	424.25
2Q NOV	1038.10	.00	1.453	375.00	375.00	375.00	.00	.00	262.74
1Q DIC	978.43	.00	.927	412.50	412.50	412.50	.00	.00	283.76
2Q DIC	678.48	.00	.827	75.00	75.00	75.00	.00	.00	50.79

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2005 *****									
1Q ENE	678.63	.00	1.057	75.00	75.00	75.00	.00	.00	50.77
2Q ENE	675.12	.00	1.055	75.00	75.00	75.00	.00	.00	50.75
1Q FEB	671.62	.00	1.450	37.50	37.50	37.50	.00	.00	25.35
2Q FEB	659.59	.00	1.442	37.50	37.50	37.50	.00	.00	25.31
1Q MAR	647.56	.00	2.158	37.50	37.50	37.50	.00	.00	25.28
2Q MAR	644.27	.00	2.155	37.50	37.50	37.50	.00	.00	25.27
1Q ABR	640.98	.00	2.558	37.50	37.50	37.50	.00	.00	25.25
2Q ABR	631.31	.00	2.546	37.50	37.50	37.50	.00	.00	25.21
1Q MAY	621.66	.00	2.847	37.50	37.50	37.50	.00	.00	25.16
2Q MAY	600.06	.00	2.818	37.50	37.50	37.50	.00	.00	25.09
1Q JUN	578.49	.00	.540	150.00	150.00	150.00	.00	.00	99.75
2Q JUN	514.00	.00	.523	75.00	75.00	75.00	.00	.00	49.69
1Q JUL	524.53	.00	-1.777	225.00	225.00	225.00	.00	.00	148.36
2Q JUL	444.13	.00	-1.705	225.00	225.00	225.00	.00	.00	146.70
1Q AGO	363.66	.00	-1.346	75.00	75.00	75.00	.00	.00	49.04
2Q AGO	483.70	.00	-1.435	150.00	150.00	150.00	.00	.00	99.21
1Q SEP	528.82	.00	-.784	150.00	150.00	150.00	.00	.00	99.06
2Q SEP	462.58	.00	-.758	75.00	75.00	75.00	.00	.00	49.59
1Q OCT	546.31	.00	.618	75.00	75.00	75.00	.00	.00	49.88
2Q OCT	545.69	.00	.618	75.00	75.00	75.00	.00	.00	49.87
1Q NOV	545.07	.00	1.192	75.00	75.00	75.00	.00	.00	49.87
2Q NOV	543.88	.00	1.192	75.00	75.00	75.00	.00	.00	49.86
1Q DIC	542.69	.00	.775	75.00	75.00	75.00	.00	.00	49.96
2Q DIC	574.07	.00	.787	75.00	75.00	75.00	.00	.00	50.05
***** 2006 *****									
QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
1Q ENE	567.94	.00	1.002	75.00	75.00	75.00	.00	.00	49.89
2Q ENE	529.44	.00	.983	75.00	75.00	75.00	.00	.00	49.63
1Q FEB	490.95	.00	1.328	19.00	19.00	19.00	.00	.00	12.54
2Q FEB	489.38	.00	1.327	19.00	19.00	19.00	.00	.00	12.54
1Q MAR	487.80	.00	1.996	19.00	19.00	19.00	.00	.00	12.53
2Q MAR	485.55	.00	1.994	19.00	19.00	19.00	.00	.00	12.53
1Q ABR	483.31	.00	2.367	19.00	19.00	19.00	.00	.00	12.52
2Q ABR	480.69	.00	2.364	19.00	19.00	19.00	.00	.00	12.52
1Q MAY	478.08	.00	2.653	19.00	19.00	19.00	.00	.00	12.51
2Q MAY	475.17	.00	2.649	19.00	19.00	19.00	.00	.00	12.51
1Q JUN	472.28	.00	.512	150.00	150.00	150.00	.00	.00	98.25
2Q JUN	400.96	.00	.493	75.00	75.00	75.00	.00	.00	48.89
1Q JUL	404.67	.00	-1.670	225.00	225.00	225.00	.00	.00	145.93
2Q JUL	328.15	.00	-1.603	150.00	150.00	150.00	.00	.00	96.75
1Q AGO	326.56	.00	-1.319	75.00	75.00	75.00	.00	.00	48.77
2Q AGO	442.84	.00	-1.404	225.00	225.00	225.00	.00	.00	147.93
1Q SEP	484.21	.00	-.766	75.00	75.00	75.00	.00	.00	49.91
2Q SEP	618.16	.00	-.819	150.00	150.00	150.00	.00	.00	101.15
1Q OCT	677.17	.00	.658	75.00	75.00	75.00	.00	.00	50.77
2Q OCT	676.51	.00	.658	75.00	75.00	75.00	.00	.00	50.77
1Q NOV	675.86	.00	1.269	75.00	75.00	75.00	.00	.00	50.78
2Q NOV	678.93	.00	1.271	75.00	75.00	75.00	.00	.00	50.80
1Q DIC	682.00	.00	.828	75.00	75.00	75.00	.00	.00	50.79
2Q DIC	676.88	.00	.826	75.00	75.00	75.00	.00	.00	50.76

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2007 *****									
1Q ENE	671.76	.00	1.053	75.00	75.00	75.00	.00	.00	50.72
2Q ENE	666.29	.00	1.050	75.00	75.00	75.00	.00	.00	50.68
1Q FEB	660.81	.00	1.443	37.50	37.50	37.50	.00	.00	25.30
2Q FEB	640.62	.00	1.429	37.50	37.50	37.50	.00	.00	25.23
1Q MAR	620.44	.00	2.131	37.50	37.50	37.50	.00	.00	25.16
2Q MAR	599.56	.00	2.109	37.50	37.50	37.50	.00	.00	25.09
1Q ABR	578.70	.00	2.482	37.50	37.50	37.50	.00	.00	25.01
2Q ABR	557.47	.00	2.457	37.50	37.50	37.50	.00	.00	24.94
1Q MAY	536.26	.00	2.732	37.50	37.50	37.50	.00	.00	24.87
2Q MAY	514.78	.00	2.702	19.00	19.00	19.00	.00	.00	12.58
1Q JUN	511.83	.00	.523	75.00	75.00	75.00	.00	.00	49.66
2Q JUN	517.97	.00	.524	75.00	75.00	75.00	.00	.00	49.70
1Q JUL	524.11	.00	-1.777	300.00	300.00	300.00	.00	.00	197.93
2Q JUL	453.77	.00	-1.714	375.00	375.00	375.00	.00	.00	245.00
1Q AGO	383.37	.00	-1.361	375.00	375.00	375.00	.00	.00	245.40
2Q AGO	476.79	.00	-1.430	450.00	450.00	450.00	.00	.00	298.33
1Q SEP	570.28	.00	-.800	300.00	300.00	300.00	.00	.00	203.22
2Q SEP	811.30	.00	-.890	225.00	225.00	225.00	.00	.00	155.94
1Q OCT	977.41	.00	.738	150.00	150.00	150.00	.00	.00	104.41
2Q OCT	901.68	.00	.718	150.00	150.00	150.00	.00	.00	103.66
1Q NOV	825.96	.00	1.350	375.00	375.00	375.00	.00	.00	253.43
2Q NOV	524.61	.00	1.180	75.00	75.00	75.00	.00	.00	49.72
1Q DIC	523.43	.00	.767	37.50	37.50	37.50	.00	.00	24.86
2Q DIC	522.66	.00	.767	37.50	37.50	37.50	.00	.00	24.86

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2008 *****									
1Q ENE	521.89	.00	.980	37.50	37.50	37.50	.00	.00	24.85
2Q ENE	520.91	.00	.979	37.50	37.50	37.50	.00	.00	24.85
1Q FEB	519.93	.00	1.348	19.00	19.00	19.00	.00	.00	12.59
2Q FEB	518.34	.00	1.347	19.00	19.00	19.00	.00	.00	12.59
1Q MAR	516.74	.00	2.025	19.00	19.00	19.00	.00	.00	12.58
2Q MAR	514.47	.00	2.023	19.00	19.00	19.00	.00	.00	12.58
1Q ABR	512.19	.00	2.402	19.00	19.00	19.00	.00	.00	12.61
2Q ABR	553.76	.00	2.452	37.50	37.50	37.50	.00	.00	24.97
1Q MAY	558.27	.00	2.761	37.50	37.50	37.50	.00	.00	24.94
2Q MAY	536.76	.00	2.732	37.50	37.50	37.50	.00	.00	24.87
1Q JUN	515.28	.00	.524	75.00	75.00	75.00	.00	.00	49.70
2Q JUN	524.81	.00	.526	75.00	75.00	75.00	.00	.00	49.76
1Q JUL	534.33	.00	-1.786	300.00	300.00	300.00	.00	.00	197.16
2Q JUL	386.86	.00	-1.655	525.00	525.00	525.00	.00	.00	339.73
1Q AGO	314.26	.00	-1.310	450.00	450.00	450.00	.00	.00	292.82
2Q AGO	465.57	.00	-1.421	650.00	650.00	650.00	.00	.00	426.48
1Q SEP	432.26	.00	-.746	525.00	525.00	525.00	.00	.00	356.57
2Q SEP	1055.26	.00	-.969	650.00	650.00	868.35	218.35	.00	463.47
1Q OCT	1335.13	.00	.828	450.00	450.00	488.13	38.13	.00	325.04
2Q OCT	1335.13	.00	.828	300.00	300.00	338.13	38.13	.00	216.69
1Q NOV	1335.13	.00	1.599	525.00	525.00	525.00	.00	.00	375.24
2Q NOV	1107.04	.00	1.487	300.00	300.00	300.00	.00	.00	211.38
1Q DIC	1029.06	.00	.943	375.00	375.00	375.00	.00	.00	259.27
2Q DIC	718.16	.00	.842	75.00	75.00	75.00	.00	.00	51.02

\*\*\*\*\* RESUMEN ANUAL \*\*\*\*\*

AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1981	.00	.00	.00	4407.0	739.53	374.86	2997.98
1982	.00	.00	.00	2025.0	523.61	366.80	1336.52
1983	.00	.00	.00	2702.0	535.84	367.26	1799.04
1984	.00	.00	.00	3227.0	607.73	369.94	2156.98
1985	.00	.00	.00	2700.0	680.14	372.64	1809.09
1986	.00	.00	.00	2925.0	619.68	370.39	1954.89
1987	.00	.00	.00	3170.0	708.49	373.70	2135.11
1988	.00	.00	.00	4595.5	702.76	373.49	3086.86
1989	.00	.00	.00	1763.0	515.39	366.49	1166.05
1990	.00	.00	.00	4958.0	722.98	374.24	3449.62
1991	1542.80	.00	.00	6842.8	908.94	379.48	3743.17
1992	663.70	.00	.00	5158.7	829.17	377.32	3096.43
1993	.00	.00	.00	3133.0	672.00	372.34	2099.30
1994	.00	.00	.00	1858.0	496.58	365.79	1226.42
1995	.00	.00	.00	3301.5	687.56	372.92	2263.16
1996	.00	.00	.00	2287.5	640.56	371.17	1531.30
1997	.00	.00	.00	2175.0	589.18	369.25	1446.08
1998	.00	.00	.00	2139.5	554.22	367.94	1433.18
1999	.00	.00	.00	2437.5	597.94	369.57	1618.56
2000	.00	.00	.00	1764.0	467.31	364.70	1156.71
2001	.00	.00	.00	1652.0	491.30	365.59	1091.07
2002	.00	.00	.00	2139.5	505.44	366.12	1411.28
2003	.00	.00	.00	4539.5	638.61	371.09	3093.10
2004	.00	.00	.00	3919.0	650.21	371.53	2663.46
2005	.00	.00	.00	2025.0	564.90	368.34	1344.31
2006	.00	.00	.00	1877.0	525.72	366.88	1241.96
2007	.00	.00	.00	3431.5	600.92	369.69	2295.70
2008	294.61	.00	.00	5852.1	689.46	372.99	3801.77
TOTAL	2501.11	.00					

ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO: 304.49 MILL M^3  
 ENERGÍA PROMEDIO GENERADA EN LOS 28 AÑOS: 86.98 GWH

\*\*\*\*\* RESUMEN QUINCENAL PROMEDIOS \*\*\*\*\*

	ELEVACIÓN MSNM	ALMACENAMIENTO MILL M^3	ENERGÍA GWH
1Q ENE	371.88	664.55	59.55
2Q ENE	371.69	668.94	59.51
1Q FEB	371.48	654.95	30.47
2Q FEB	371.13	646.29	27.18
1Q MAR	370.87	638.56	27.12
2Q MAR	370.65	632.75	27.11
1Q ABR	370.53	631.07	27.05
2Q ABR	370.41	626.63	26.97
1Q MAY	370.18	617.26	29.77
2Q MAY	369.94	611.50	26.46
1Q JUN	368.38	526.71	134.38
2Q JUN	366.24	490.32	86.96
1Q JUL	364.32	429.43	177.88
2Q JUL	362.31	388.18	187.33
1Q AGO	363.67	502.68	139.24
2Q AGO	367.30	589.06	183.25
1Q SEP	369.91	655.16	148.56
2Q SEP	372.36	735.24	148.56
1Q OCT	373.78	742.21	83.23
2Q OCT	374.04	751.86	77.69
1Q NOV	374.05	737.04	137.48
2Q NOV	373.53	712.29	101.15
1Q DIC	372.42	662.77	86.10
2Q DIC	371.60	655.52	54.48

\*\*-\*\*-\*\*-\*\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO \*\*-\*\*-\*\*-\*\*

PRESA: AGUAMILPA

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1981 *****									
1Q ENE	2600.00	21.15	1.287	712.50	712.50	712.50	.00	.00	482.31
2Q ENE	2357.36	21.15	1.249	712.50	712.50	712.50	.00	.00	477.29
1Q FEB	2002.26	8.44	3.194	375.00	375.00	375.00	.00	.00	249.11
2Q FEB	1895.01	8.44	3.144	262.50	262.50	262.50	.00	.00	173.54
1Q MAR	1750.31	5.84	4.748	244.00	244.00	244.00	.00	.00	160.45
2Q MAR	1619.90	5.84	4.651	206.50	206.50	206.50	.00	.00	135.14
1Q ABR	1508.59	4.94	5.420	169.00	169.00	169.00	.00	.00	110.13
2Q ABR	1414.11	4.94	5.334	150.00	150.00	150.00	.00	.00	97.41
1Q MAY	1338.71	2.86	5.237	131.50	131.50	131.50	.00	.00	85.12
2Q MAY	1261.34	2.86	5.172	112.50	112.50	112.50	.00	.00	72.61
1Q JUN	1203.02	52.51	-1.814	375.00	375.00	375.00	.00	.00	242.01
2Q JUN	1257.35	52.51	-1.832	225.00	225.00	225.00	.00	.00	145.54
1Q JUL	1311.69	492.61	-12.716	900.00	900.00	900.00	.00	.00	582.61
2Q JUL	1292.02	492.61	-12.675	900.00	900.00	900.00	.00	.00	583.05
1Q AGO	1347.30	280.21	-10.326	900.00	900.00	900.00	.00	.00	579.82
2Q AGO	1037.84	280.21	-9.777	750.00	750.00	750.00	.00	.00	478.17
1Q SEP	877.82	329.11	-6.660	75.00	75.00	75.00	.00	.00	48.08
2Q SEP	1288.59	329.11	-7.179	150.00	150.00	150.00	.00	.00	97.73
1Q OCT	1624.88	67.79	.005	75.00	75.00	75.00	.00	.00	49.27
2Q OCT	1692.67	67.79	.005	75.00	75.00	75.00	.00	.00	49.40
1Q NOV	1760.45	12.70	1.622	75.00	75.00	75.00	.00	.00	49.48
2Q NOV	1771.53	12.70	1.624	75.00	75.00	75.00	.00	.00	49.50
1Q DIC	1782.61	12.46	1.191	300.00	300.00	300.00	.00	.00	197.20
2Q DIC	1568.88	12.46	1.151	225.00	225.00	225.00	.00	.00	146.86

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1982 *****									
1Q ENE	1430.18	7.86	1.088	225.00	225.00	225.00	.00	.00	146.00
2Q ENE	1286.96	7.86	1.062	187.50	187.50	187.50	.00	.00	121.02
1Q FEB	1181.25	5.15	2.794	94.00	82.66	82.66	.00	.00	53.18
2Q FEB	1138.45	5.15	2.770	94.00	82.66	82.66	.00	.00	53.08
1Q MAR	1095.67	4.10	4.241	75.00	71.12	71.12	.00	.00	45.59
2Q MAR	1061.91	4.10	4.214	75.00	71.12	71.12	.00	.00	45.52
1Q ABR	1028.18	2.80	4.968	75.00	73.55	73.55	.00	.00	47.00
2Q ABR	989.96	2.80	4.930	75.00	73.55	73.55	.00	.00	46.92
1Q MAY	951.78	2.48	4.867	56.50	54.61	54.61	.00	.00	34.80
2Q MAY	932.27	2.48	4.847	56.50	54.61	54.61	.00	.00	34.76
1Q JUN	912.79	16.08	-1.707	75.00	75.00	75.00	.00	.00	47.82
2Q JUN	1005.58	16.08	-1.739	75.00	75.00	75.00	.00	.00	47.94
1Q JUL	1023.40	234.26	-11.814	675.00	675.23	675.23	.00	.00	429.77
2Q JUL	819.24	234.26	-11.349	525.00	525.23	525.23	.00	.00	332.29
1Q AGO	764.62	159.22	-9.176	450.00	410.59	410.59	.00	.00	258.84
2Q AGO	672.43	159.22	-9.036	375.00	335.59	335.59	.00	.00	211.00
1Q SEP	655.10	48.96	-6.239	75.00	75.00	75.00	.00	.00	47.28
2Q SEP	785.30	48.96	-6.380	75.00	75.00	75.00	.00	.00	47.50
1Q OCT	840.64	62.13	.004	75.00	75.00	75.00	.00	.00	47.63
2Q OCT	902.76	62.13	.004	75.00	75.00	75.00	.00	.00	47.76
1Q NOV	964.89	51.54	1.416	75.00	75.00	75.00	.00	.00	47.89
2Q NOV	1015.01	51.54	1.430	75.00	75.00	75.00	.00	.00	48.00
1Q DIC	1065.12	90.58	1.061	75.00	90.91	90.91	.00	.00	58.29
2Q DIC	1101.23	90.58	1.068	75.00	90.91	90.91	.00	.00	58.39

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1983 *****									
1Q ENE	1137.33	124.83	1.044	112.50	112.50	112.50	.00	.00	72.39
2Q ENE	1186.11	124.83	1.054	112.50	112.50	112.50	.00	.00	72.54
1Q FEB	1234.89	20.27	2.829	75.00	82.18	82.18	.00	.00	52.99
2Q FEB	1189.16	20.27	2.802	75.00	82.18	82.18	.00	.00	52.89
1Q MAR	1143.45	23.05	4.288	75.00	74.54	74.54	.00	.00	47.88
2Q MAR	1106.67	23.05	4.258	56.50	56.04	56.04	.00	.00	35.96
1Q ABR	1088.42	5.12	5.027	56.50	59.90	59.90	.00	.00	38.38
2Q ABR	1047.61	5.12	4.988	56.50	59.90	59.90	.00	.00	38.31
1Q MAY	1006.84	16.34	4.928	56.50	56.40	56.40	.00	.00	36.02
2Q MAY	980.85	16.34	4.902	56.50	56.40	56.40	.00	.00	35.98
1Q JUN	954.89	28.67	-1.724	75.00	78.08	78.08	.00	.00	49.81
2Q JUN	982.20	28.67	-1.733	75.00	78.08	78.08	.00	.00	49.87
1Q JUL	1009.53	255.91	-11.807	600.00	600.16	600.16	.00	.00	381.94
2Q JUL	827.08	255.91	-11.392	675.00	675.16	675.16	.00	.00	426.75
1Q AGO	719.23	529.57	-9.415	675.00	644.14	644.14	.00	.00	408.68
2Q AGO	989.07	529.57	-9.929	825.00	794.14	794.14	.00	.00	508.42
1Q SEP	1109.43	444.38	-7.030	75.00	107.05	107.05	.00	.00	69.55
2Q SEP	1678.79	444.38	-7.706	300.00	332.05	332.05	.00	.00	219.44
1Q OCT	1948.82	77.95	.005	75.00	77.06	77.06	.00	.00	51.33
2Q OCT	2099.71	77.95	.005	75.00	77.06	77.06	.00	.00	51.54
1Q NOV	2175.59	30.79	1.724	150.00	148.96	148.96	.00	.00	99.96
2Q NOV	2280.70	30.79	1.748	75.00	75.00	75.00	.00	.00	50.52
1Q DIC	2384.75	12.40	1.295	450.00	454.48	454.48	.00	.00	304.67
2Q DIC	2016.37	12.40	1.233	337.50	341.98	341.98	.00	.00	226.65

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1984 *****									
1Q ENE	1760.56	22.49	1.149	262.50	262.50	262.50	.00	.00	172.43
2Q ENE	1556.90	22.49	1.112	187.50	187.50	187.50	.00	.00	122.35
1Q FEB	1428.28	32.68	2.926	112.50	103.48	103.48	.00	.00	67.26
2Q FEB	1373.56	32.68	2.898	94.00	84.98	84.98	.00	.00	55.13
1Q MAR	1337.36	6.06	4.435	94.00	96.35	96.35	.00	.00	62.36
2Q MAR	1261.64	6.06	4.382	75.00	77.35	77.35	.00	.00	49.92
1Q ABR	1204.97	4.07	5.142	75.00	74.05	74.05	.00	.00	47.68
2Q ABR	1148.84	4.07	5.085	75.00	74.05	74.05	.00	.00	47.56
1Q MAY	1092.78	5.76	5.006	56.50	55.59	55.59	.00	.00	35.63
2Q MAY	1056.94	5.76	4.971	56.50	55.59	55.59	.00	.00	35.57
1Q JUN	1021.14	109.21	-1.761	75.00	75.00	75.00	.00	.00	48.08
2Q JUN	1132.11	109.21	-1.799	75.00	75.00	75.00	.00	.00	48.31
1Q JUL	1243.11	690.25	-12.778	750.00	749.71	749.71	.00	.00	485.94
2Q JUL	1421.43	690.25	-13.144	900.00	899.71	899.71	.00	.00	588.39
1Q AGO	1675.12	516.05	-11.072	900.00	900.00	900.00	.00	.00	593.36
2Q AGO	1827.24	516.05	-11.315	900.00	900.00	900.00	.00	.00	595.99
1Q SEP	1904.61	161.10	-7.801	600.00	627.85	627.85	.00	.00	415.11
2Q SEP	1745.66	161.10	-7.620	525.00	552.85	552.85	.00	.00	363.81
1Q OCT	1661.53	50.80	.005	75.00	75.00	75.00	.00	.00	49.40
2Q OCT	1787.33	50.80	.005	75.00	75.00	75.00	.00	.00	49.64
1Q NOV	1913.13	17.98	1.660	75.00	75.00	75.00	.00	.00	49.77
2Q NOV	1929.45	17.98	1.664	75.00	75.00	75.00	.00	.00	49.80
1Q DIC	1945.76	12.98	1.220	337.50	334.92	334.92	.00	.00	221.40
2Q DIC	1697.60	12.98	1.175	262.50	259.92	259.92	.00	.00	170.42

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1985 *****									
1Q ENE	1524.48	181.21	1.121	225.00	225.00	225.00	.00	.00	147.10
2Q ENE	1554.57	181.21	1.126	225.00	225.00	225.00	.00	.00	147.28
1Q FEB	1584.66	17.46	2.999	150.00	166.10	166.10	.00	.00	108.54
2Q FEB	1470.52	17.46	2.943	131.50	147.60	147.60	.00	.00	96.03
1Q MAR	1374.93	8.35	4.465	112.50	111.41	111.41	.00	.00	72.23
2Q MAR	1304.91	8.35	4.413	112.50	111.41	111.41	.00	.00	72.02
1Q ABR	1234.94	4.88	5.174	94.00	93.64	93.64	.00	.00	60.37
2Q ABR	1178.51	4.88	5.115	94.00	93.64	93.64	.00	.00	60.22
1Q MAY	1122.14	3.39	5.033	75.00	74.72	74.72	.00	.00	47.95
2Q MAY	1083.28	3.39	4.996	75.00	74.72	74.72	.00	.00	47.87
1Q JUN	1044.46	123.18	-1.771	150.00	145.20	145.20	.00	.00	93.51
2Q JUN	1324.21	123.18	-1.863	225.00	220.20	220.20	.00	.00	142.62
1Q JUL	1304.06	166.53	-12.355	900.00	899.63	899.63	.00	.00	577.01
2Q JUL	883.31	166.53	-11.419	675.00	674.63	674.63	.00	.00	426.64
1Q AGO	686.63	421.65	-9.257	525.00	458.83	458.83	.00	.00	290.17
2Q AGO	883.70	421.65	-9.622	675.00	608.83	608.83	.00	.00	387.94
1Q SEP	1006.14	151.12	-6.712	75.00	75.00	75.00	.00	.00	48.17
2Q SEP	1238.98	151.12	-7.011	75.00	75.00	75.00	.00	.00	48.66
1Q OCT	1472.11	62.01	.005	75.00	75.00	75.00	.00	.00	48.96
2Q OCT	1534.11	62.01	.005	75.00	75.00	75.00	.00	.00	49.08
1Q NOV	1596.12	15.31	1.581	75.00	75.00	75.00	.00	.00	49.16
2Q NOV	1609.85	15.31	1.584	75.00	75.00	75.00	.00	.00	49.19
1Q DIC	1623.57	25.09	1.163	262.50	258.45	258.45	.00	.00	168.99
2Q DIC	1464.05	25.09	1.133	225.00	220.95	220.95	.00	.00	143.64

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1986 *****									
1Q ENE	1342.06	3.45	1.071	187.50	187.50	187.50	.00	.00	121.30
2Q ENE	1231.94	3.45	1.051	150.00	150.00	150.00	.00	.00	96.66
1Q FEB	1159.33	5.33	2.781	94.00	81.96	81.96	.00	.00	52.68
2Q FEB	1117.42	5.33	2.759	75.00	62.96	62.96	.00	.00	40.41
1Q MAR	1094.53	.54	4.239	75.00	71.16	71.16	.00	.00	45.61
2Q MAR	1057.17	.54	4.208	75.00	71.16	71.16	.00	.00	45.54
1Q ABR	1019.84	.23	4.958	75.00	72.64	72.64	.00	.00	46.40
2Q ABR	979.97	.23	4.919	75.00	72.64	72.64	.00	.00	46.32
1Q MAY	940.14	.71	4.854	56.50	52.64	52.64	.00	.00	33.52
2Q MAY	920.86	.71	4.835	56.50	52.64	52.64	.00	.00	33.49
1Q JUN	901.60	67.24	-1.712	75.00	75.00	75.00	.00	.00	47.77
2Q JUN	970.55	67.24	-1.736	75.00	75.00	75.00	.00	.00	47.92
1Q JUL	1039.53	214.45	-11.828	900.00	899.94	899.94	.00	.00	572.95
2Q JUL	815.86	214.45	-11.319	675.00	674.94	674.94	.00	.00	426.73
1Q AGO	741.69	218.70	-9.186	675.00	627.76	627.76	.00	.00	395.96
2Q AGO	716.81	218.70	-9.149	600.00	552.76	552.76	.00	.00	348.23
1Q SEP	691.90	252.48	-6.388	75.00	75.00	75.00	.00	.00	47.59
2Q SEP	1025.77	252.48	-6.802	75.00	75.00	75.00	.00	.00	48.32
1Q OCT	1360.05	119.83	.005	75.00	75.00	75.00	.00	.00	48.79
2Q OCT	1479.87	119.83	.005	75.00	75.00	75.00	.00	.00	49.03
1Q NOV	1599.70	.05	1.579	75.00	75.30	75.30	.00	.00	49.35
2Q NOV	1597.87	.05	1.579	75.00	75.30	75.30	.00	.00	49.34
1Q DIC	1596.04	.08	1.155	300.00	287.54	287.54	.00	.00	187.74
2Q DIC	1419.92	.08	1.122	225.00	212.54	212.54	.00	.00	137.98



QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1987 *****									
1Q ENE	1318.84	360.35	1.100	187.50	187.50	187.50	.00	.00	122.09
2Q ENE	1565.59	360.35	1.144	225.00	225.00	225.00	.00	.00	147.87
1Q FEB	1774.79	86.43	3.106	169.00	213.46	213.46	.00	.00	140.61
2Q FEB	1682.16	86.43	3.062	150.00	194.46	194.46	.00	.00	127.67
1Q MAR	1608.57	42.63	4.656	169.00	183.51	183.51	.00	.00	120.09
2Q MAR	1519.53	42.63	4.590	150.00	164.51	164.51	.00	.00	107.31
1Q ABR	1449.57	9.71	5.369	150.00	158.41	158.41	.00	.00	102.98
2Q ABR	1351.99	9.71	5.279	131.50	139.91	139.91	.00	.00	90.61
1Q MAY	1273.01	7.34	5.184	131.50	134.93	134.93	.00	.00	87.13
2Q MAY	1215.23	7.34	5.128	112.50	115.93	115.93	.00	.00	74.68
1Q JUN	1158.01	23.53	-1.792	375.00	372.60	372.60	.00	.00	240.24
2Q JUN	1260.74	23.53	-1.829	225.00	222.60	222.60	.00	.00	143.93
1Q JUL	1288.49	256.48	-12.418	900.00	900.00	900.00	.00	.00	578.04
2Q JUL	957.39	256.48	-11.691	600.00	600.19	600.19	.00	.00	381.71
1Q AGO	850.37	420.56	-9.559	525.00	494.36	494.36	.00	.00	314.25
2Q AGO	936.13	420.56	-9.717	600.00	569.36	569.36	.00	.00	363.36
1Q SEP	1022.04	242.96	-6.791	75.00	75.00	75.00	.00	.00	48.22
2Q SEP	1271.79	242.96	-7.105	75.00	75.00	75.00	.00	.00	48.82
1Q OCT	1596.86	101.43	.005	75.00	75.00	75.00	.00	.00	49.25
2Q OCT	1698.28	101.43	.005	75.00	75.00	75.00	.00	.00	49.44
1Q NOV	1799.71	3.31	1.630	75.00	75.00	75.00	.00	.00	49.68
2Q NOV	1951.39	3.31	1.667	75.00	75.00	75.00	.00	.00	49.90
1Q DIC	2028.03	19.69	1.235	450.00	439.34	439.34	.00	.00	291.21
2Q DIC	1757.15	19.69	1.187	337.50	326.84	326.84	.00	.00	214.70

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1988 *****									
1Q ENE	1561.31	10.93	1.112	262.50	262.50	262.50	.00	.00	171.28
2Q ENE	1421.13	10.93	1.086	225.00	225.00	225.00	.00	.00	146.07
1Q FEB	1318.47	6.44	2.865	131.50	120.65	120.65	.00	.00	78.05
2Q FEB	1257.90	6.44	2.837	112.50	101.65	101.65	.00	.00	65.62
1Q MAR	1216.36	5.24	4.343	112.50	108.91	108.91	.00	.00	70.17
2Q MAR	1164.85	5.24	4.298	112.50	108.91	108.91	.00	.00	70.01
1Q ABR	1113.38	4.31	5.051	94.00	92.84	92.84	.00	.00	59.56
2Q ABR	1076.29	4.31	5.015	112.50	111.34	111.34	.00	.00	71.31
1Q MAY	1039.24	2.82	4.953	94.00	93.28	93.28	.00	.00	59.64
2Q MAY	1000.33	2.82	4.915	94.00	93.28	93.28	.00	.00	59.53
1Q JUN	961.46	77.85	-1.735	225.00	219.85	219.85	.00	.00	141.16
2Q JUN	1271.20	77.85	-1.840	225.00	219.85	219.85	.00	.00	142.39
1Q JUL	1356.04	287.55	-12.594	900.00	899.88	899.88	.00	.00	580.09
2Q JUL	1056.30	287.55	-11.953	825.00	824.88	824.88	.00	.00	526.47
1Q AGO	905.92	678.36	-9.912	600.00	581.64	581.64	.00	.00	372.72
2Q AGO	1237.55	678.36	-10.480	900.00	881.64	881.64	.00	.00	573.12
1Q SEP	1569.76	171.40	-7.421	600.00	678.37	678.37	.00	.00	444.27
2Q SEP	1595.20	171.40	-7.451	525.00	603.37	603.37	.00	.00	394.96
1Q OCT	1545.68	39.56	.005	75.00	75.00	75.00	.00	.00	49.16
2Q OCT	1660.24	39.56	.005	75.00	75.00	75.00	.00	.00	49.31
1Q NOV	1699.79	8.13	1.606	75.00	75.00	75.00	.00	.00	49.43
2Q NOV	1781.32	8.13	1.626	75.00	75.00	75.00	.00	.00	49.79
1Q DIC	2087.82	8.88	1.245	375.00	366.99	366.99	.00	.00	243.75
2Q DIC	1803.46	8.88	1.194	300.00	291.99	291.99	.00	.00	192.11

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1989 *****									
1Q ENE	1594.15	7.07	1.118	262.50	262.50	262.50	.00	.00	171.36
2Q ENE	1412.61	7.07	1.084	187.50	187.50	187.50	.00	.00	121.67
1Q FEB	1306.09	4.96	2.859	112.50	101.03	101.03	.00	.00	65.33
2Q FEB	1244.66	4.96	2.830	94.00	82.53	82.53	.00	.00	53.25
1Q MAR	1201.75	3.70	4.330	94.00	90.08	90.08	.00	.00	57.99
2Q MAR	1148.55	3.70	4.284	94.00	90.08	90.08	.00	.00	57.86
1Q ABR	1095.39	2.94	5.033	75.00	73.45	73.45	.00	.00	47.08
2Q ABR	1057.34	2.94	4.996	56.50	54.95	54.95	.00	.00	35.16
1Q MAY	1019.34	2.30	4.933	75.00	73.22	73.22	.00	.00	46.77
2Q MAY	980.98	2.30	4.895	56.50	54.72	54.72	.00	.00	34.90
1Q JUN	942.67	4.64	-1.715	75.00	75.00	75.00	.00	.00	47.79
2Q JUN	949.02	4.64	-1.718	75.00	75.00	75.00	.00	.00	47.89
1Q JUL	1030.38	118.96	-11.701	675.00	675.29	675.29	.00	.00	428.77
2Q JUL	710.74	118.96	-11.031	450.00	450.29	450.29	.00	.00	282.57
1Q AGO	540.44	306.33	-8.945	225.00	140.04	140.04	.00	.00	88.05
2Q AGO	790.67	306.33	-9.339	375.00	290.04	290.04	.00	.00	183.92
1Q SEP	891.30	185.57	-6.584	75.00	75.00	75.00	.00	.00	47.88
2Q SEP	1083.45	185.57	-6.834	75.00	75.00	75.00	.00	.00	48.29
1Q OCT	1275.86	31.42	.005	75.00	75.00	75.00	.00	.00	48.53
2Q OCT	1307.27	31.42	.005	75.00	75.00	75.00	.00	.00	48.59
1Q NOV	1338.69	27.36	1.515	75.00	75.00	75.00	.00	.00	48.65
2Q NOV	1364.53	27.36	1.522	75.00	75.00	75.00	.00	.00	48.71
1Q DIC	1390.37	25.62	1.119	187.50	190.09	190.09	.00	.00	123.28
2Q DIC	1299.78	25.62	1.102	187.50	190.09	190.09	.00	.00	122.80

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1990 *****									
1Q ENE	1209.21	8.56	1.047	112.50	112.50	112.50	.00	.00	72.43
2Q ENE	1141.72	8.56	1.033	112.50	112.50	112.50	.00	.00	72.21
1Q FEB	1074.25	30.38	2.743	56.50	45.27	45.27	.00	.00	29.02
2Q FEB	1075.62	30.38	2.744	56.50	45.27	45.27	.00	.00	29.02
1Q MAR	1076.98	5.73	4.227	56.50	58.33	58.33	.00	.00	37.36
2Q MAR	1039.16	5.73	4.196	56.50	58.33	58.33	.00	.00	37.29
1Q ABR	1001.36	2.79	4.941	56.50	55.47	55.47	.00	.00	35.40
2Q ABR	962.74	2.79	4.903	37.50	36.47	36.47	.00	.00	23.25
1Q MAY	943.16	4.20	4.859	37.50	35.61	35.61	.00	.00	22.68
2Q MAY	925.90	4.20	4.842	56.50	54.61	54.61	.00	.00	34.75
1Q JUN	908.15	52.18	-1.712	75.00	75.00	75.00	.00	.00	47.77
2Q JUN	962.04	52.18	-1.730	75.00	75.00	75.00	.00	.00	47.97
1Q JUL	1090.95	399.79	-12.158	750.00	750.03	750.03	.00	.00	480.67
2Q JUL	1052.87	399.79	-12.082	750.00	750.03	750.03	.00	.00	479.85
1Q AGO	1014.71	1399.23	-10.712	600.00	625.97	625.97	.00	.00	407.98
2Q AGO	1948.68	1399.23	-12.167	900.00	900.00	1180.77	280.77	.00	605.10
1Q SEP	2629.31	519.68	-8.749	900.00	900.00	1178.43	278.43	.00	612.34
2Q SEP	2629.31	519.68	-8.749	900.00	900.00	1178.43	278.43	.00	612.34
1Q OCT	2629.31	182.51	.006	600.00	613.17	613.17	.00	.00	416.28
2Q OCT	2498.64	182.51	.005	525.00	538.17	538.17	.00	.00	364.22
1Q NOV	2442.98	25.74	1.785	600.00	602.31	602.31	.00	.00	407.39
2Q NOV	2464.62	25.74	1.789	300.00	302.31	302.31	.00	.00	204.63
1Q DIC	2486.25	8.62	1.312	712.50	714.20	714.20	.00	.00	480.81
2Q DIC	2154.37	8.62	1.256	412.50	414.20	414.20	.00	.00	275.73

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1991 *****									
1Q ENE	1860.03	7.01	1.165	300.00	300.00	300.00	.00	.00	197.78
2Q ENE	1640.88	7.01	1.126	262.50	262.50	262.50	.00	.00	171.68
1Q FEB	1459.26	5.30	2.934	131.50	120.02	120.02	.00	.00	78.08
2Q FEB	1379.10	5.30	2.894	112.50	101.02	101.02	.00	.00	65.53
1Q MAR	1317.98	3.73	4.421	112.50	108.65	108.65	.00	.00	70.28
2Q MAR	1246.14	3.73	4.369	94.00	90.15	90.15	.00	.00	58.15
1Q ABR	1192.85	2.64	5.129	94.00	92.46	92.46	.00	.00	59.50
2Q ABR	1135.40	2.64	5.071	94.00	92.46	92.46	.00	.00	59.34
1Q MAY	1078.01	1.90	4.990	75.00	72.99	72.99	.00	.00	46.75
2Q MAY	1039.43	1.90	4.952	75.00	72.99	72.99	.00	.00	46.67
1Q JUN	1000.89	22.16	-1.739	150.00	144.29	144.29	.00	.00	92.55
2Q JUN	1180.50	22.16	-1.800	75.00	75.00	75.00	.00	.00	48.32
1Q JUL	1204.46	1008.33	-13.026	750.00	750.20	750.20	.00	.00	488.61
2Q JUL	1700.62	1008.33	-13.999	900.00	900.00	2286.44	1386.44	.00	602.27
1Q AGO	2629.31	369.52	-12.406	900.00	900.00	1031.93	131.93	.00	612.34
2Q AGO	2629.31	369.52	-12.406	900.00	900.00	1031.93	131.93	.00	612.34
1Q SEP	2629.31	600.54	-8.789	900.00	882.23	1259.33	377.10	.00	600.25
2Q SEP	2629.31	600.54	-8.789	900.00	882.23	1134.33	252.10	.00	600.25
1Q OCT	2629.31	135.06	.006	450.00	475.11	475.11	.00	.00	322.22
2Q OCT	2439.26	135.06	.005	300.00	325.11	325.11	.00	.00	219.63
1Q NOV	2399.21	39.63	1.776	375.00	375.79	375.79	.00	.00	253.86
2Q NOV	2436.27	39.63	1.785	225.00	225.79	225.79	.00	.00	152.72
1Q DIC	2473.32	49.25	1.313	487.50	496.85	496.85	.00	.00	334.31
2Q DIC	2136.91	49.25	1.257	412.50	421.85	421.85	.00	.00	280.82

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1992 *****									
1Q ENE	1875.55	1169.92	1.264	337.50	337.50	489.90	152.40	.00	226.60
2Q ENE	2629.31	1169.92	1.378	712.50	712.50	1763.05	1050.55	.00	484.77
1Q FEB	2629.31	192.60	3.504	394.00	566.61	566.61	.00	.00	385.47
2Q FEB	2623.89	192.60	3.502	394.00	566.61	574.77	8.15	.00	385.47
1Q MAR	2629.31	43.32	5.362	394.00	432.52	432.52	.00	.00	293.25
2Q MAR	2422.25	43.32	5.227	394.00	432.52	432.52	.00	.00	291.28
1Q ABR	2234.32	10.62	6.042	394.00	402.59	402.59	.00	.00	269.30
2Q ABR	2042.80	10.62	5.885	337.50	346.09	346.09	.00	.00	229.97
1Q MAY	1870.45	.33	5.706	375.00	379.13	379.13	.00	.00	250.70
2Q MAY	1785.94	.33	5.634	337.50	341.63	341.63	.00	.00	225.09
1Q JUN	1683.00	15.04	-1.960	825.00	818.33	818.33	.00	.00	536.46
2Q JUN	1531.67	15.04	-1.913	450.00	443.33	443.33	.00	.00	289.44
1Q JUL	1480.29	125.99	-12.685	900.00	900.00	900.00	.00	.00	581.20
2Q JUL	1018.97	125.99	-11.683	600.00	600.24	600.24	.00	.00	380.97
1Q AGO	706.40	206.85	-9.124	375.00	292.82	292.82	.00	.00	184.48
2Q AGO	704.56	206.85	-9.121	450.00	367.82	367.82	.00	.00	231.71
1Q SEP	702.71	150.30	-6.346	75.00	75.00	75.00	.00	.00	47.42
2Q SEP	859.35	150.30	-6.518	75.00	75.00	75.00	.00	.00	47.77
1Q OCT	1016.17	.34	.004	75.00	75.00	75.00	.00	.00	47.95
2Q OCT	1016.51	.34	.004	75.00	75.00	75.00	.00	.00	47.95
1Q NOV	1016.84	28.51	1.427	75.00	75.00	75.00	.00	.00	47.98
2Q NOV	1043.92	28.51	1.435	75.00	75.00	75.00	.00	.00	48.03
1Q DIC	1071.00	.06	1.053	150.00	153.22	153.22	.00	.00	98.10
2Q DIC	1029.28	.06	1.044	187.50	190.72	190.72	.00	.00	121.88

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1993 *****									
1Q ENE	987.58	.25	1.001	187.50	187.50	187.50	.00	.00	119.60
2Q ENE	949.33	.25	.994	150.00	150.00	150.00	.00	.00	95.60
1Q FEB	948.58	.80	2.668	75.00	62.45	62.45	.00	.00	39.80
2Q FEB	940.76	.80	2.664	75.00	62.45	62.45	.00	.00	39.78
1Q MAR	932.94	.45	4.105	75.00	70.14	70.14	.00	.00	44.65
2Q MAR	915.65	.45	4.091	75.00	70.14	70.14	.00	.00	44.61
1Q ABR	898.37	.49	4.841	75.00	72.62	72.62	.00	.00	46.15
2Q ABR	877.90	.49	4.824	75.00	72.62	72.62	.00	.00	46.11
1Q MAY	857.45	.78	4.783	75.00	71.34	71.34	.00	.00	45.25
2Q MAY	838.61	.78	4.769	56.50	52.84	52.84	.00	.00	33.49
1Q JUN	819.29	.10	-1.678	75.00	75.00	75.00	.00	.00	47.76
2Q JUN	1046.06	.10	-1.750	150.00	143.61	143.61	.00	.00	92.10
1Q JUL	1129.31	203.78	-12.030	825.00	825.32	825.32	.00	.00	526.55
2Q JUL	819.80	203.78	-11.315	675.00	675.32	675.32	.00	.00	426.94
1Q AGO	734.57	106.76	-9.090	525.00	473.55	473.55	.00	.00	297.80
2Q AGO	601.88	106.76	-8.885	525.00	473.55	473.55	.00	.00	296.40
1Q SEP	543.97	402.32	-6.311	75.00	75.00	75.00	.00	.00	47.42
2Q SEP	1027.60	402.32	-6.908	75.00	75.00	75.00	.00	.00	48.40
1Q OCT	1436.83	42.44	.005	75.00	75.00	75.00	.00	.00	48.87
2Q OCT	1479.27	42.44	.005	75.00	75.00	75.00	.00	.00	48.96
1Q NOV	1521.70	27.13	1.563	75.00	75.00	75.00	.00	.00	49.02
2Q NOV	1547.27	27.13	1.570	75.00	75.00	75.00	.00	.00	49.07
1Q DIC	1572.83	3.29	1.151	225.00	227.46	227.46	.00	.00	148.45
2Q DIC	1422.51	3.29	1.123	187.50	189.96	189.96	.00	.00	123.31

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1994 *****									
1Q ENE	1309.71	14.22	1.066	187.50	187.50	187.50	.00	.00	121.16
2Q ENE	1210.36	14.22	1.048	150.00	150.00	150.00	.00	.00	96.59
1Q FEB	1148.54	5.94	2.776	75.00	64.67	64.67	.00	.00	41.55
2Q FEB	1106.03	5.94	2.754	56.50	46.17	46.17	.00	.00	29.62
1Q MAR	1082.05	15.23	4.235	56.50	52.80	52.80	.00	.00	33.84
2Q MAR	1059.25	15.23	4.216	56.50	52.80	52.80	.00	.00	33.80
1Q ABR	1036.46	.33	4.974	56.50	57.90	57.90	.00	.00	37.01
2Q ABR	992.92	.33	4.932	56.50	57.90	57.90	.00	.00	36.94
1Q MAY	949.42	3.13	4.865	37.50	33.71	33.71	.00	.00	21.48
2Q MAY	932.97	3.13	4.848	56.50	52.71	52.71	.00	.00	33.56
1Q JUN	916.04	30.21	-1.710	75.00	75.00	75.00	.00	.00	47.76
2Q JUN	947.96	30.21	-1.722	75.00	75.00	75.00	.00	.00	47.91
1Q JUL	1054.89	53.69	-11.682	825.00	825.15	825.15	.00	.00	523.69
2Q JUL	670.11	53.69	-10.893	450.00	450.15	450.15	.00	.00	281.98
1Q AGO	509.54	194.69	-8.809	150.00	75.00	75.00	.00	.00	47.03
2Q AGO	713.04	194.69	-9.125	375.00	264.26	264.26	.00	.00	166.61
1Q SEP	727.59	170.34	-6.383	75.00	75.00	75.00	.00	.00	47.50
2Q SEP	904.32	170.34	-6.591	75.00	75.00	75.00	.00	.00	47.89
1Q OCT	1081.25	176.34	.004	75.00	75.00	75.00	.00	.00	48.27
2Q OCT	1257.58	176.34	.005	75.00	75.00	75.00	.00	.00	48.64
1Q NOV	1433.92	13.80	1.538	75.00	77.12	77.12	.00	.00	50.21
2Q NOV	1444.06	13.80	1.541	75.00	77.12	77.12	.00	.00	50.23
1Q DIC	1454.21	5.54	1.129	187.50	182.62	182.62	.00	.00	118.63
2Q DIC	1313.50	5.54	1.102	187.50	182.62	182.62	.00	.00	118.01

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1995 *****									
1Q ENE	1210.32	18.07	1.048	150.00	150.00	150.00	.00	.00	96.60
2Q ENE	1152.34	18.07	1.036	112.50	112.50	112.50	.00	.00	72.26
1Q FEB	1094.38	9.21	2.748	56.50	46.78	46.78	.00	.00	29.99
2Q FEB	1073.06	9.21	2.737	56.50	46.78	46.78	.00	.00	29.96
1Q MAR	1051.76	20.26	4.212	56.50	53.54	53.54	.00	.00	34.27
2Q MAR	1033.27	20.26	4.197	56.50	53.54	53.54	.00	.00	34.24
1Q ABR	1014.79	3.77	4.955	56.50	59.19	59.19	.00	.00	37.80
2Q ABR	973.42	3.77	4.914	56.50	59.19	59.19	.00	.00	37.74
1Q MAY	950.59	9.84	4.869	56.50	55.36	55.36	.00	.00	35.27
2Q MAY	937.70	9.84	4.856	37.50	36.36	36.36	.00	.00	23.15
1Q JUN	925.32	39.09	-1.715	75.00	75.00	75.00	.00	.00	47.87
2Q JUN	1041.12	39.09	-1.755	75.00	75.00	75.00	.00	.00	48.04
1Q JUL	1081.97	1410.00	-13.185	750.00	750.10	750.10	.00	.00	490.59
2Q JUL	2055.05	1410.00	-15.005	900.00	900.00	1075.75	175.75	.00	606.28
1Q AGO	2629.31	847.18	-12.741	900.00	900.00	934.92	34.92	.00	612.34
2Q AGO	2629.31	847.18	-12.741	900.00	900.00	1159.92	259.92	.00	612.34
1Q SEP	2629.31	528.73	-8.753	900.00	900.00	987.48	87.48	.00	612.34
2Q SEP	2629.31	528.73	-8.753	900.00	900.00	987.48	87.48	.00	612.34
1Q OCT	2629.31	73.60	.006	450.00	464.51	464.51	.00	.00	314.76
2Q OCT	2388.40	73.60	.005	300.00	314.51	314.51	.00	.00	211.91
1Q NOV	2297.48	26.88	1.752	150.00	148.82	148.82	.00	.00	100.29
2Q NOV	2398.79	26.88	1.775	225.00	223.82	223.82	.00	.00	151.17
1Q DIC	2425.08	4.75	1.301	487.50	489.83	489.83	.00	.00	328.80
2Q DIC	2051.21	4.75	1.238	412.50	414.83	414.83	.00	.00	275.06

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1996 *****									
1Q ENE	1752.39	18.22	1.147	337.50	337.50	337.50	.00	.00	221.61
2Q ENE	1544.47	18.22	1.110	225.00	225.00	225.00	.00	.00	146.73
1Q FEB	1411.58	19.55	2.914	112.50	102.80	102.80	.00	.00	66.79
2Q FEB	1362.91	19.55	2.890	112.50	102.80	102.80	.00	.00	66.65
1Q MAR	1314.27	6.35	4.419	112.50	111.88	111.88	.00	.00	72.35
2Q MAR	1241.83	6.35	4.366	94.00	93.38	93.38	.00	.00	60.22
1Q ABR	1187.93	13.78	5.129	94.00	93.13	93.13	.00	.00	59.93
2Q ABR	1140.96	13.78	5.082	94.00	93.13	93.13	.00	.00	59.80
1Q MAY	1094.03	21.95	5.015	75.00	81.56	81.56	.00	.00	52.29
2Q MAY	1066.90	21.95	4.989	75.00	81.56	81.56	.00	.00	52.23
1Q JUN	1039.80	89.40	-1.764	150.00	156.50	156.50	.00	.00	100.51
2Q JUN	1199.46	89.40	-1.820	150.00	156.50	156.50	.00	.00	100.88
1Q JUL	1209.19	209.09	-12.202	825.00	824.82	824.82	.00	.00	528.22
2Q JUL	905.66	209.09	-11.520	600.00	599.82	599.82	.00	.00	380.13
1Q AGO	751.45	367.68	-9.323	375.00	325.64	325.64	.00	.00	206.24
2Q AGO	877.80	367.68	-9.561	525.00	475.64	475.64	.00	.00	302.50
1Q SEP	929.40	507.01	-6.843	75.00	75.00	75.00	.00	.00	48.30
2Q SEP	1443.25	507.01	-7.470	150.00	131.66	131.66	.00	.00	86.52
1Q OCT	1901.08	567.70	.005	75.00	86.30	86.30	.00	.00	57.80
2Q OCT	2457.47	567.70	.006	225.00	236.30	470.85	234.55	.00	160.31
1Q NOV	2629.31	35.83	1.827	225.00	239.68	239.68	.00	.00	162.71
2Q NOV	2498.64	35.83	1.798	225.00	239.68	239.68	.00	.00	162.21
1Q DIC	2442.99	12.79	1.305	487.50	494.76	494.76	.00	.00	332.34
2Q DIC	2072.22	12.79	1.242	412.50	419.76	419.76	.00	.00	278.57

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1997 *****									
1Q ENE	1776.51	54.95	1.154	300.00	300.00	300.00	.00	.00	197.32
2Q ENE	1605.30	54.95	1.124	262.50	262.50	262.50	.00	.00	171.61
1Q FEB	1471.63	32.56	2.947	131.50	127.61	127.61	.00	.00	83.10
2Q FEB	1411.13	32.56	2.917	112.50	108.61	108.61	.00	.00	70.57
1Q MAR	1369.66	26.90	4.468	112.50	114.82	114.82	.00	.00	74.46
2Q MAR	1314.77	26.90	4.427	112.50	114.82	114.82	.00	.00	74.28
1Q ABR	1259.92	30.95	5.210	94.00	98.39	98.39	.00	.00	63.53
2Q ABR	1224.77	30.95	5.177	94.00	98.39	98.39	.00	.00	63.43
1Q MAY	1189.66	34.27	5.115	94.00	113.78	113.78	.00	.00	73.22
2Q MAY	1142.54	34.27	5.067	94.00	113.78	113.78	.00	.00	73.07
1Q JUN	1095.46	110.96	-1.786	225.00	239.00	239.00	.00	.00	154.16
2Q JUN	1344.21	110.96	-1.868	225.00	239.00	239.00	.00	.00	155.31
1Q JUL	1443.04	275.26	-12.763	900.00	899.70	899.70	.00	.00	581.04
2Q JUL	1056.36	275.26	-11.939	600.00	599.70	599.70	.00	.00	382.64
1Q AGO	893.86	251.85	-9.483	525.00	501.78	501.78	.00	.00	318.30
2Q AGO	803.41	251.85	-9.312	375.00	351.78	351.78	.00	.00	222.59
1Q SEP	787.79	248.98	-6.488	75.00	75.00	75.00	.00	.00	47.72
2Q SEP	1043.26	248.98	-6.822	75.00	75.00	75.00	.00	.00	48.27
1Q OCT	1299.06	69.75	.005	75.00	75.00	75.00	.00	.00	48.62
2Q OCT	1368.81	69.75	.005	75.00	75.00	75.00	.00	.00	48.76
1Q NOV	1438.56	58.86	1.545	75.00	75.00	75.00	.00	.00	48.89
2Q NOV	1495.87	58.86	1.560	75.00	75.00	75.00	.00	.00	49.00
1Q DIC	1553.17	13.12	1.149	187.50	207.45	207.45	.00	.00	135.26
2Q DIC	1395.19	13.12	1.118	150.00	169.95	169.95	.00	.00	110.17

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 1998 *****									
1Q ENE	1274.75	14.08	1.060	112.50	112.50	112.50	.00	.00	72.64
2Q ENE	1212.77	14.08	1.048	112.50	112.50	112.50	.00	.00	72.45
1Q FEB	1150.80	11.71	2.779	75.00	64.64	64.64	.00	.00	41.54
2Q FEB	1114.09	11.71	2.759	56.50	46.14	46.14	.00	.00	29.62
1Q MAR	1095.90	10.63	4.244	56.50	54.10	54.10	.00	.00	34.69
2Q MAR	1067.18	10.63	4.221	56.50	54.10	54.10	.00	.00	34.64
1Q ABR	1038.48	9.33	4.981	56.50	56.72	56.72	.00	.00	36.27
2Q ABR	1005.11	9.33	4.948	56.50	56.72	56.72	.00	.00	36.22
1Q MAY	971.77	29.18	4.900	37.50	40.64	40.64	.00	.00	25.93
2Q MAY	974.41	29.18	4.902	37.50	40.64	40.64	.00	.00	25.93
1Q JUN	977.05	36.14	-1.733	75.00	85.90	85.90	.00	.00	54.85
2Q JUN	1004.02	36.14	-1.742	75.00	85.90	85.90	.00	.00	54.92
1Q JUL	1031.00	208.08	-11.801	600.00	600.12	600.12	.00	.00	381.86
2Q JUL	800.77	208.08	-11.280	525.00	525.12	525.12	.00	.00	331.71
1Q AGO	720.01	412.48	-9.306	300.00	250.25	250.25	.00	.00	158.69
2Q AGO	966.55	412.48	-9.767	525.00	475.25	475.25	.00	.00	303.79
1Q SEP	1063.55	497.01	-7.008	75.00	75.00	75.00	.00	.00	48.57
2Q SEP	1567.57	497.01	-7.609	225.00	220.60	220.60	.00	.00	145.61
1Q OCT	2001.58	251.44	.005	75.00	84.83	84.83	.00	.00	56.71
2Q OCT	2243.19	251.44	.005	150.00	159.83	159.83	.00	.00	107.63
1Q NOV	2409.80	24.45	1.777	300.00	304.53	304.53	.00	.00	205.73
2Q NOV	2427.95	24.45	1.781	225.00	229.53	229.53	.00	.00	155.16
1Q DIC	2446.09	10.58	1.305	525.00	525.99	525.99	.00	.00	353.38
2Q DIC	2079.38	10.58	1.243	412.50	413.49	413.49	.00	.00	274.50

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 1999 *****									
1Q ENE	1787.73	5.52	1.152	337.50	337.50	337.50	.00	.00	221.86
2Q ENE	1567.09	5.52	1.113	225.00	225.00	225.00	.00	.00	146.83
1Q FEB	1421.50	6.56	2.916	112.50	100.79	100.79	.00	.00	65.49
2Q FEB	1361.86	6.56	2.886	112.50	100.79	100.79	.00	.00	65.33
1Q MAR	1302.24	2.28	4.409	112.50	108.94	108.94	.00	.00	70.41
2Q MAR	1228.67	2.28	4.353	94.00	90.44	90.44	.00	.00	58.29
1Q ABR	1173.66	4.46	5.110	94.00	92.09	92.09	.00	.00	59.21
2Q ABR	1118.43	4.46	5.056	75.00	73.09	73.09	.00	.00	46.90
1Q MAY	1082.25	16.08	5.001	75.00	74.39	74.39	.00	.00	47.67
2Q MAY	1056.43	16.08	4.976	75.00	74.39	74.39	.00	.00	47.62
1Q JUN	1030.64	87.60	-1.760	225.00	227.92	227.92	.00	.00	146.56
2Q JUN	1267.08	87.60	-1.840	150.00	152.92	152.92	.00	.00	99.18
1Q JUL	1428.60	451.22	-12.914	900.00	899.83	899.83	.00	.00	583.01
2Q JUL	1217.90	451.22	-12.475	750.00	749.83	749.83	.00	.00	483.00
1Q AGO	1156.77	312.21	-10.024	675.00	721.29	721.29	.00	.00	461.41
2Q AGO	907.72	312.21	-9.565	525.00	571.29	571.29	.00	.00	362.55
1Q SEP	808.21	545.11	-6.710	75.00	75.00	75.00	.00	.00	48.08
2Q SEP	1360.03	545.11	-7.394	75.00	75.00	75.00	.00	.00	49.21
1Q OCT	1912.53	65.17	.005	75.00	91.93	91.93	.00	.00	61.04
2Q OCT	1960.77	65.17	.005	75.00	91.93	91.93	.00	.00	61.15
1Q NOV	2009.01	5.42	1.682	75.00	75.00	75.00	.00	.00	50.01
2Q NOV	2087.75	5.42	1.700	75.00	75.00	75.00	.00	.00	50.08
1Q DIC	2091.47	6.09	1.245	337.50	328.00	328.00	.00	.00	217.87
2Q DIC	1805.81	6.09	1.195	262.50	253.00	253.00	.00	.00	166.47

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2000 *****									
1Q ENE	1595.21	8.40	1.118	262.50	262.50	262.50	.00	.00	171.37
2Q ENE	1414.99	8.40	1.085	187.50	187.50	187.50	.00	.00	121.69
1Q FEB	1309.80	2.86	2.860	94.00	82.74	82.74	.00	.00	53.51
2Q FEB	1246.06	2.86	2.830	75.00	63.74	63.74	.00	.00	41.13
1Q MAR	1201.34	2.73	4.329	75.00	70.60	70.60	.00	.00	45.45
2Q MAR	1148.14	2.73	4.283	75.00	70.60	70.60	.00	.00	45.35
1Q ABR	1094.99	2.56	5.032	75.00	73.20	73.20	.00	.00	46.92
2Q ABR	1056.81	2.56	4.995	75.00	73.20	73.20	.00	.00	46.84
1Q MAY	1018.68	2.82	4.933	56.50	54.43	54.43	.00	.00	34.77
2Q MAY	981.14	2.82	4.896	56.50	54.43	54.43	.00	.00	34.71
1Q JUN	943.63	110.15	-1.734	75.00	75.00	75.00	.00	.00	47.99
2Q JUN	1130.51	110.15	-1.798	150.00	144.85	144.85	.00	.00	93.16
1Q JUL	1172.61	116.71	-12.029	825.00	824.70	824.70	.00	.00	526.13
2Q JUL	776.65	116.71	-11.151	450.00	449.70	449.70	.00	.00	283.11
1Q AGO	604.81	139.62	-8.915	375.00	289.15	289.15	.00	.00	181.32
2Q AGO	614.19	139.62	-8.930	300.00	214.15	214.15	.00	.00	134.35
1Q SEP	623.58	76.68	-6.220	75.00	75.00	75.00	.00	.00	47.16
2Q SEP	706.48	76.68	-6.310	75.00	75.00	75.00	.00	.00	47.35
1Q OCT	789.47	39.65	.004	75.00	75.00	75.00	.00	.00	47.49
2Q OCT	829.12	39.65	.004	75.00	75.00	75.00	.00	.00	47.58
1Q NOV	868.76	9.84	1.385	75.00	75.00	75.00	.00	.00	47.63
2Q NOV	877.22	9.84	1.386	75.00	75.00	75.00	.00	.00	47.65
1Q DIC	885.67	8.21	1.016	37.50	37.50	37.50	.00	.00	23.83
2Q DIC	892.87	8.21	1.017	37.50	37.50	37.50	.00	.00	23.84

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2001 *****									
1Q ENE	900.06	7.95	.985	37.50	37.50	37.50	.00	.00	23.85
2Q ENE	907.02	7.95	.986	37.50	37.50	37.50	.00	.00	23.86
1Q FEB	913.99	2.44	2.650	37.50	26.17	26.17	.00	.00	16.65
2Q FEB	906.60	2.44	2.646	37.50	26.17	26.17	.00	.00	16.65
1Q MAR	899.22	2.41	4.080	37.50	33.01	33.01	.00	.00	20.98
2Q MAR	883.55	2.41	4.069	37.50	33.01	33.01	.00	.00	20.96
1Q ABR	867.88	2.59	4.817	37.50	35.62	35.62	.00	.00	22.60
2Q ABR	849.03	2.59	4.802	37.50	35.62	35.62	.00	.00	22.58
1Q MAY	830.20	2.70	4.763	37.50	35.45	35.45	.00	.00	22.46
2Q MAY	811.69	2.70	4.748	19.00	18.75	18.75	.00	.00	11.87
1Q JUN	809.89	27.40	-1.679	75.00	75.00	75.00	.00	.00	47.52
2Q JUN	838.97	27.40	-1.687	75.00	75.00	75.00	.00	.00	47.59
1Q JUL	868.06	188.00	-11.409	525.00	525.17	525.17	.00	.00	332.05
2Q JUL	692.30	188.00	-11.061	450.00	450.17	450.17	.00	.00	282.73
1Q AGO	591.19	231.85	-8.966	375.00	317.31	317.31	.00	.00	199.15
2Q AGO	664.69	231.85	-9.079	375.00	317.31	317.31	.00	.00	199.88
1Q SEP	738.31	210.10	-6.415	75.00	75.00	75.00	.00	.00	47.65
2Q SEP	1029.82	210.10	-6.780	75.00	75.00	75.00	.00	.00	48.21
1Q OCT	1246.70	4.18	.004	75.00	75.00	75.00	.00	.00	48.44
2Q OCT	1250.88	4.18	.004	75.00	75.00	75.00	.00	.00	48.45
1Q NOV	1255.05	7.92	1.492	75.00	75.00	75.00	.00	.00	48.46
2Q NOV	1261.48	7.92	1.494	75.00	75.00	75.00	.00	.00	48.47
1Q DIC	1267.91	8.41	1.095	150.00	141.88	141.88	.00	.00	91.59
2Q DIC	1208.35	8.41	1.082	150.00	141.88	141.88	.00	.00	91.36

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
***** 2002 *****									
1Q ENE	1148.80	4.41	1.034	150.00	150.00	150.00	.00	.00	96.31
2Q ENE	1077.17	4.41	1.020	112.50	112.50	112.50	.00	.00	72.06
1Q FEB	1043.06	16.39	2.723	56.50	44.61	44.61	.00	.00	28.55
2Q FEB	1031.12	16.39	2.717	56.50	44.61	44.61	.00	.00	28.53
1Q MAR	1019.18	13.91	4.183	56.50	55.16	55.16	.00	.00	35.25
2Q MAR	992.74	13.91	4.161	56.50	55.16	55.16	.00	.00	35.21
1Q ABR	966.33	.06	4.905	37.50	38.56	38.56	.00	.00	24.58
2Q ABR	941.92	.06	4.881	37.50	38.56	38.56	.00	.00	24.55
1Q MAY	917.54	3.68	4.833	37.50	33.51	33.51	.00	.00	21.32
2Q MAY	901.88	3.68	4.820	37.50	33.51	33.51	.00	.00	21.30
1Q JUN	886.23	51.10	-1.704	75.00	75.00	75.00	.00	.00	47.80
2Q JUN	1014.03	51.10	-1.748	75.00	75.00	75.00	.00	.00	48.00
1Q JUL	1066.88	359.38	-12.067	675.00	675.03	675.03	.00	.00	431.75
2Q JUL	988.29	359.38	-11.875	675.00	675.03	675.03	.00	.00	430.21
1Q AGO	909.51	542.71	-9.783	525.00	535.01	535.01	.00	.00	341.65
2Q AGO	1077.00	542.71	-10.082	675.00	685.01	685.01	.00	.00	440.01
1Q SEP	1169.78	335.44	-7.037	75.00	111.15	111.15	.00	.00	72.12
2Q SEP	1551.11	335.44	-7.496	150.00	186.15	186.15	.00	.00	122.31
1Q OCT	1782.90	202.69	.005	75.00	75.00	75.00	.00	.00	49.70
2Q OCT	1985.59	202.69	.005	75.00	75.00	75.00	.00	.00	50.08
1Q NOV	2188.27	39.78	1.728	75.00	77.96	77.96	.00	.00	52.28
2Q NOV	2223.36	39.78	1.736	75.00	77.96	77.96	.00	.00	52.41
1Q DIC	2333.45	9.37	1.287	487.50	496.93	496.93	.00	.00	332.47
2Q DIC	1957.10	9.37	1.222	337.50	346.93	346.93	.00	.00	229.37



QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2003 *****									
1Q ENE	1693.31	39.12	1.138	262.50	262.50	262.50	.00	.00	172.16
2Q ENE	1543.79	39.12	1.111	225.00	225.00	225.00	.00	.00	146.79
1Q FEB	1431.80	3.52	2.920	112.50	106.11	106.11	.00	.00	68.94
2Q FEB	1345.29	3.52	2.877	94.00	87.61	87.61	.00	.00	56.74
1Q MAR	1277.33	3.31	4.392	94.00	89.75	89.75	.00	.00	57.95
2Q MAR	1205.50	3.31	4.333	75.00	70.75	70.75	.00	.00	45.56
1Q ABR	1152.72	3.87	5.088	75.00	73.35	73.35	.00	.00	47.12
2Q ABR	1097.15	3.87	5.035	56.50	54.85	54.85	.00	.00	35.16
1Q MAY	1060.14	1.69	4.972	56.50	55.44	55.44	.00	.00	35.48
2Q MAY	1020.42	1.69	4.934	56.50	55.44	55.44	.00	.00	35.41
1Q JUN	980.74	57.75	-1.738	75.00	75.00	75.00	.00	.00	47.93
2Q JUN	1040.23	57.75	-1.758	75.00	75.00	75.00	.00	.00	48.06
1Q JUL	1099.73	318.14	-12.095	750.00	750.00	750.00	.00	.00	479.96
2Q JUL	979.97	318.14	-11.810	750.00	750.00	750.00	.00	.00	477.34
1Q AGO	859.92	818.34	-9.954	600.00	593.72	593.72	.00	.00	380.73
2Q AGO	1319.50	818.34	-10.736	900.00	893.72	893.72	.00	.00	583.57
1Q SEP	1704.86	198.86	-7.595	525.00	646.95	646.95	.00	.00	425.21
2Q SEP	1639.36	198.86	-7.519	750.00	871.95	871.95	.00	.00	571.60
1Q OCT	1573.79	217.54	.005	75.00	75.00	75.00	.00	.00	49.45
2Q OCT	1941.33	217.54	.005	150.00	115.82	115.82	.00	.00	77.37
1Q NOV	2268.04	28.71	1.745	525.00	528.44	528.44	.00	.00	355.74
2Q NOV	2366.57	28.71	1.768	300.00	303.44	303.44	.00	.00	204.71
1Q DIC	2390.07	7.08	1.296	712.50	715.83	715.83	.00	.00	480.58
2Q DIC	2092.52	7.08	1.245	375.00	378.33	378.33	.00	.00	251.26

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2004 *****									
1Q ENE	1795.03	39.85	1.156	300.00	300.00	300.00	.00	.00	197.40
2Q ENE	1608.72	39.85	1.123	262.50	262.50	262.50	.00	.00	171.58
1Q FEB	1459.95	4.91	2.935	131.50	125.22	125.22	.00	.00	81.46
2Q FEB	1374.20	4.91	2.892	112.50	106.22	106.22	.00	.00	68.88
1Q MAR	1307.49	.19	4.412	112.50	108.57	108.57	.00	.00	70.18
2Q MAR	1232.20	.19	4.355	94.00	90.07	90.07	.00	.00	58.06
1Q ABR	1175.47	4.48	5.112	94.00	91.55	91.55	.00	.00	58.87
2Q ABR	1120.79	4.48	5.058	75.00	72.55	72.55	.00	.00	46.56
1Q MAY	1085.16	28.75	5.009	75.00	74.41	74.41	.00	.00	47.70
2Q MAY	1072.00	28.75	4.997	56.50	55.91	55.91	.00	.00	35.82
1Q JUN	1058.84	200.44	-1.789	75.00	85.64	85.64	.00	.00	55.08
2Q JUN	1250.43	200.44	-1.852	225.00	235.64	235.64	.00	.00	152.82
1Q JUL	1442.09	285.18	-12.771	900.00	899.20	899.20	.00	.00	581.79
2Q JUL	1140.84	285.18	-12.143	825.00	824.20	824.20	.00	.00	527.13
1Q AGO	913.97	590.41	-9.840	525.00	505.70	505.70	.00	.00	323.55
2Q AGO	1158.51	590.41	-10.268	675.00	655.70	655.70	.00	.00	422.71
1Q SEP	1253.49	1349.13	-7.736	75.00	125.99	131.05	5.05	.00	83.56
2Q SEP	2629.31	1349.13	-9.149	900.00	900.00	1658.28	758.28	.00	612.34
1Q OCT	2629.31	169.03	.006	450.00	585.60	585.60	.00	.00	396.64
2Q OCT	2362.74	169.03	.005	375.00	510.60	510.60	.00	.00	343.58
1Q NOV	2246.16	28.67	1.740	525.00	526.88	526.88	.00	.00	354.43
2Q NOV	2346.21	28.67	1.763	375.00	376.88	376.88	.00	.00	254.08
1Q DIC	2371.24	19.00	1.294	712.50	715.81	715.81	.00	.00	480.35
2Q DIC	2085.63	19.00	1.245	375.00	378.31	378.31	.00	.00	251.24

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2005 *****									
1Q ENE	1800.08	21.74	1.156	300.00	300.00	300.00	.00	.00	197.37
2Q ENE	1595.66	21.74	1.119	262.50	262.50	262.50	.00	.00	171.42
1Q FEB	1428.78	56.51	2.932	131.50	122.36	122.36	.00	.00	79.58
2Q FEB	1397.50	56.51	2.916	112.50	103.36	103.36	.00	.00	67.16
1Q MAR	1385.24	.15	4.470	112.50	120.24	120.24	.00	.00	77.97
2Q MAR	1298.18	.15	4.406	112.50	120.24	120.24	.00	.00	77.68
1Q ABR	1211.19	.33	5.147	94.00	91.54	91.54	.00	.00	58.95
2Q ABR	1152.33	.33	5.086	94.00	91.54	91.54	.00	.00	58.80
1Q MAY	1093.53	8.70	5.008	75.00	71.21	71.21	.00	.00	45.65
2Q MAY	1063.51	8.70	4.979	75.00	71.21	71.21	.00	.00	45.59
1Q JUN	1033.52	10.13	-1.748	75.00	75.00	75.00	.00	.00	48.08
2Q JUN	1120.40	10.13	-1.777	75.00	75.00	75.00	.00	.00	48.18
1Q JUL	1132.30	251.54	-12.094	750.00	750.26	750.26	.00	.00	479.27
2Q JUL	870.67	251.54	-11.488	600.00	600.26	600.26	.00	.00	380.16
1Q AGO	758.44	459.23	-9.423	375.00	342.41	342.41	.00	.00	217.31
2Q AGO	959.68	459.23	-9.800	525.00	492.41	492.41	.00	.00	314.88
1Q SEP	1086.29	258.20	-6.889	75.00	85.16	85.16	.00	.00	55.00
2Q SEP	1416.23	258.20	-7.290	75.00	85.16	85.16	.00	.00	55.68
1Q OCT	1671.56	69.66	.005	75.00	75.00	75.00	.00	.00	49.36
2Q OCT	1741.21	69.66	.005	75.00	75.00	75.00	.00	.00	49.49
1Q NOV	1810.87	18.39	1.635	75.00	75.00	75.00	.00	.00	49.58
2Q NOV	1827.62	18.39	1.639	75.00	75.00	75.00	.00	.00	49.61
1Q DIC	1844.38	13.12	1.202	300.00	297.65	297.65	.00	.00	196.14
2Q DIC	1633.65	13.12	1.164	262.50	260.15	260.15	.00	.00	170.13

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2006 *****									
1Q ENE	1460.45	4.12	1.093	225.00	225.00	225.00	.00	.00	146.17
2Q ENE	1313.48	4.12	1.066	187.50	187.50	187.50	.00	.00	121.15
1Q FEB	1204.04	21.50	2.811	75.00	63.07	63.07	.00	.00	40.63
2Q FEB	1178.66	21.50	2.797	75.00	63.07	63.07	.00	.00	40.59
1Q MAR	1153.29	3.50	4.288	75.00	74.82	74.82	.00	.00	48.06
2Q MAR	1096.69	3.50	4.242	56.50	56.32	56.32	.00	.00	36.10
1Q ABR	1058.63	8.41	5.000	56.50	54.90	54.90	.00	.00	35.14
2Q ABR	1026.14	8.41	4.968	56.50	54.90	54.90	.00	.00	35.08
1Q MAY	993.68	4.22	4.909	56.50	58.93	58.93	.00	.00	37.60
2Q MAY	953.06	4.22	4.869	37.50	39.93	39.93	.00	.00	25.44
1Q JUN	931.48	37.59	-1.717	75.00	75.00	75.00	.00	.00	47.88
2Q JUN	1045.79	37.59	-1.757	75.00	75.00	75.00	.00	.00	48.05
1Q JUL	1085.14	74.46	-11.773	675.00	675.11	675.11	.00	.00	429.29
2Q JUL	721.26	74.46	-11.009	450.00	450.11	450.11	.00	.00	282.29
1Q AGO	506.62	179.59	-8.792	225.00	122.47	122.47	.00	.00	76.67
2Q AGO	647.53	179.59	-9.013	450.00	347.47	347.47	.00	.00	218.64
1Q SEP	713.67	126.01	-6.344	75.00	75.00	75.00	.00	.00	47.42
2Q SEP	846.03	126.01	-6.485	75.00	75.00	75.00	.00	.00	47.80
1Q OCT	1053.52	106.18	.004	75.00	75.00	75.00	.00	.00	48.14
2Q OCT	1159.70	106.18	.004	75.00	75.00	75.00	.00	.00	48.36
1Q NOV	1265.87	18.39	1.496	75.00	75.00	75.00	.00	.00	48.49
2Q NOV	1282.77	18.39	1.500	75.00	75.00	75.00	.00	.00	48.53
1Q DIC	1299.66	13.12	1.101	187.50	185.15	185.15	.00	.00	119.59
2Q DIC	1201.53	13.12	1.081	150.00	147.65	147.65	.00	.00	95.04

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2007 *****									
1Q ENE	1140.92	11.25	1.033	150.00	150.00	150.00	.00	.00	96.29
2Q ENE	1076.14	11.25	1.020	112.50	112.50	112.50	.00	.00	72.07
1Q FEB	1048.87	6.45	2.724	75.00	64.20	64.20	.00	.00	41.08
2Q FEB	1025.90	6.45	2.711	75.00	64.20	64.20	.00	.00	41.04
1Q MAR	1002.94	6.35	4.166	75.00	71.41	71.41	.00	.00	45.59
2Q MAR	971.21	6.35	4.140	56.50	52.91	52.91	.00	.00	33.75
1Q ABR	958.00	2.19	4.898	56.50	55.63	55.63	.00	.00	35.45
2Q ABR	937.17	2.19	4.877	56.50	55.63	55.63	.00	.00	35.42
1Q MAY	916.35	89.99	4.875	56.50	54.15	54.15	.00	.00	34.51
2Q MAY	984.82	89.99	4.942	56.50	54.15	54.15	.00	.00	34.60
1Q JUN	1034.73	57.28	-1.756	75.00	122.93	122.93	.00	.00	78.67
2Q JUN	1045.84	57.28	-1.760	75.00	122.93	122.93	.00	.00	78.71
1Q JUL	1056.95	267.33	-11.930	750.00	750.00	750.00	.00	.00	478.47
2Q JUL	886.21	267.33	-11.542	750.00	750.00	750.00	.00	.00	475.52
1Q AGO	790.08	286.07	-9.319	675.00	648.65	648.65	.00	.00	410.54
2Q AGO	811.82	286.07	-9.360	750.00	723.65	723.65	.00	.00	458.48
1Q SEP	833.60	234.25	-6.539	75.00	75.00	75.00	.00	.00	48.04
2Q SEP	1299.39	234.25	-7.134	225.00	181.25	181.25	.00	.00	118.02
1Q OCT	1584.52	42.94	.005	75.00	75.00	75.00	.00	.00	49.24
2Q OCT	1702.46	42.94	.005	75.00	75.00	75.00	.00	.00	49.47
1Q NOV	1820.39	18.39	1.637	75.00	75.00	75.00	.00	.00	49.87
2Q NOV	2137.15	18.39	1.713	75.00	75.00	75.00	.00	.00	50.18
1Q DIC	2153.82	13.12	1.256	337.50	335.15	335.15	.00	.00	223.14
2Q DIC	1868.04	13.12	1.206	262.50	260.15	260.15	.00	.00	171.58

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
***** 2008 *****									
1Q ENE	1657.30	39.12	1.132	225.00	225.00	225.00	.00	.00	147.35
2Q ENE	1507.79	39.12	1.105	187.50	187.50	187.50	.00	.00	122.14
1Q FEB	1395.81	8.15	2.903	94.00	87.61	87.61	.00	.00	56.86
2Q FEB	1332.45	8.15	2.872	94.00	87.61	87.61	.00	.00	56.71
1Q MAR	1269.12	6.35	4.387	75.00	71.80	71.80	.00	.00	46.36
2Q MAR	1218.28	6.35	4.345	75.00	71.80	71.80	.00	.00	46.26
1Q ABR	1167.49	4.48	5.103	75.00	74.13	74.13	.00	.00	47.65
2Q ABR	1111.74	4.48	5.049	75.00	74.13	74.13	.00	.00	47.55
1Q MAY	1074.54	7.69	4.989	75.00	74.41	74.41	.00	.00	47.66
2Q MAY	1040.33	7.69	4.956	75.00	74.41	74.41	.00	.00	47.58
1Q JUN	1006.16	66.13	-1.748	75.00	75.00	75.00	.00	.00	48.00
2Q JUN	1074.04	66.13	-1.771	75.00	75.00	75.00	.00	.00	48.14
1Q JUL	1141.94	430.12	-12.289	825.00	824.95	824.95	.00	.00	529.37
2Q JUL	1059.40	430.12	-12.126	900.00	899.95	899.95	.00	.00	577.30
1Q AGO	1126.69	697.92	-10.306	900.00	900.00	900.00	.00	.00	581.43
2Q AGO	1384.92	697.92	-10.745	900.00	900.00	900.00	.00	.00	590.07
1Q SEP	1843.58	306.63	-7.814	750.00	834.46	834.46	.00	.00	552.17
2Q SEP	1848.56	306.63	-7.820	900.00	900.00	900.00	.00	.00	598.74
1Q OCT	2131.37	63.30	.005	450.00	431.73	431.73	.00	.00	289.34
2Q OCT	2251.07	63.30	.005	375.00	356.73	356.73	.00	.00	239.78
1Q NOV	2295.76	11.03	1.749	450.00	448.49	448.49	.00	.00	302.14
2Q NOV	2381.56	11.03	1.769	300.00	298.49	298.49	.00	.00	201.43
1Q DIC	2392.33	27.97	1.298	675.00	668.59	668.59	.00	.00	449.15
2Q DIC	2125.41	27.97	1.253	375.00	368.59	368.59	.00	.00	245.23

\*\*\*\*\* RESUMEN ANUAL \*\*\*\*\*

AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1981	.00	.00	2581.24	8176.0	1516.43	208.91	5341.80
1982	.00	.00	1370.32	3704.9	972.16	202.72	2358.28
1983	.00	.00	3138.56	5235.9	1371.70	207.31	3382.46
1984	.00	.00	3258.86	6746.4	1495.46	208.68	4425.31
1985	.00	.00	2360.36	5259.9	1288.41	206.38	3383.36
1986	.00	.00	1766.18	4731.4	1116.55	204.42	3019.65
1987	.00	.00	3148.84	6092.9	1440.76	208.08	3943.79
1988	.00	.00	2602.94	7186.8	1363.91	207.23	4659.97
1989	.00	.00	1441.74	3605.9	1107.96	204.32	2307.10
1990	837.63	.00	5278.82	9612.4	1583.88	209.63	5836.46
1991	2279.49	.00	4490.14	11347.2	1811.77	212.04	6074.24
1992	1211.10	.00	3887.76	9945.3	1530.66	209.06	5753.25
1993	.00	.00	1577.18	4405.9	1048.84	203.62	2806.07
1994	.00	.00	1366.92	3340.2	1048.18	203.62	2129.91
1995	645.56	.00	5982.76	8775.2	1701.86	210.89	5455.42
1996	234.55	.00	3738.70	6019.3	1479.13	208.50	3765.83
1997	.00	.00	2416.82	5111.0	1261.76	206.08	3295.32
1998	.00	.00	3030.22	4675.0	1381.53	207.42	3043.03
1999	.00	.00	3015.44	5665.3	1414.65	207.79	3669.22
2000	.00	.00	1040.46	3515.5	961.98	202.60	2240.31
2001	.00	.00	1391.90	2812.5	947.57	202.43	1784.01
2002	.00	.00	3157.84	4773.4	1321.57	206.75	3087.80
2003	.00	.00	3395.86	7854.0	1466.08	208.36	5134.82
2004	763.33	.00	5440.08	9376.5	1588.54	209.68	5675.80
2005	.00	.00	2335.40	4717.7	1333.05	206.88	3043.03
2006	.00	.00	1194.18	3406.4	1036.63	203.48	2172.17
2007	.00	.00	2071.22	5004.5	1233.49	205.76	3209.72
2008	.00	.00	3337.78	9010.4	1543.29	209.20	5918.42
TOTAL	5971.66	.00					

ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO: 506.62 MILL M^3  
ENERGÍA PROMEDIO GENERADA EN LOS 28 AÑOS: 159.10 GWH

\*\*\*\*\* RESUMEN QUINCENAL \*\*\*\*\*  
P R O M E D I O S

	ELEVACIÓN MSNM	ALMACENAMIENTO MILL M^3	ENERGÍA GWH
1Q ENE	208.38	1438.27	157.22
2Q ENE	207.50	1358.43	143.08
1Q FEB	206.79	1309.11	78.42
2Q FEB	206.29	1268.26	69.52
1Q MAR	205.74	1209.28	67.70
2Q MAR	205.13	1158.36	62.32
1Q ABR	204.55	1107.58	58.61
2Q ABR	204.01	1062.88	54.50
1Q MAY	203.59	1034.35	50.53
2Q MAY	203.26	1006.46	47.05
1Q JUN	203.74	1115.62	96.55
2Q JUN	204.71	1172.34	86.19
1Q JUL	204.04	1007.04	501.81
2Q JUL	202.71	965.66	430.22
1Q AGO	203.11	1089.70	332.89
2Q AGO	204.34	1183.80	383.17
1Q SEP	206.41	1456.18	169.80
2Q SEP	209.07	1654.50	208.51
1Q OCT	210.59	1732.01	103.31
2Q OCT	211.38	1802.36	97.04
1Q NOV	212.00	1851.81	113.50
2Q NOV	212.44	1887.82	88.36
1Q DIC	211.50	1666.21	240.76
2Q DIC	209.47	1491.51	177.40

**ANEXO 3.  
SIMULACIÓN DE REGISTROS  
SINTÉTICOS CON LA POLÍTICA 21. SERIE  
SINTÉTICA 1. DETALLE AÑOS 1 A 10 Y  
RESUMEN**

--\*--\*--\*--\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO --\*--\*--\*--\*

PRESA: LA YESCA

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1500.00	24.34	1.443	300.00	300.00	300.00	.00	.00	224.56
2Q ENE	1222.90	24.34	1.328	225.00	225.00	225.00	.00	.00	164.45
1Q FEB	1020.91	19.44	1.861	112.50	112.50	112.50	.00	.00	80.92
2Q FEB	925.99	19.44	1.798	94.00	94.00	94.00	.00	.00	66.95
1Q MAR	849.63	20.46	2.987	94.00	94.00	94.00	.00	.00	66.34
2Q MAR	773.10	20.46	2.896	75.00	75.00	75.00	.00	.00	52.49
1Q ABR	715.67	31.81	3.356	75.00	75.00	75.00	.00	.00	52.14
2Q ABR	669.12	31.81	3.303	56.50	56.50	56.50	.00	.00	39.09
1Q MAY	641.13	32.47	3.459	56.50	56.50	56.50	.00	.00	38.95
2Q MAY	613.64	32.47	3.426	56.50	56.50	56.50	.00	.00	38.80
1Q JUN	586.18	51.73	.476	225.00	225.00	225.00	.00	.00	152.34
2Q JUN	412.44	51.73	.445	150.00	150.00	150.00	.00	.00	99.54
1Q JUL	313.72	395.82	-1.956	150.00	150.00	150.00	.00	.00	100.63
2Q JUL	561.50	395.82	-2.136	300.00	300.00	300.00	.00	.00	206.31
1Q AGO	659.45	872.26	-1.758	375.00	375.00	375.00	.00	.00	267.38
2Q AGO	1158.47	872.26	-2.050	600.00	600.00	600.00	.00	.00	446.25
1Q SEP	1432.78	310.57	-1.050	600.00	600.00	600.00	.00	.00	445.93
2Q SEP	1144.40	310.57	-.966	600.00	600.00	600.00	.00	.00	432.67
1Q OCT	855.94	88.16	.828	75.00	75.00	75.00	.00	.00	53.25
2Q OCT	868.27	88.16	.832	75.00	75.00	75.00	.00	.00	53.33
1Q NOV	880.60	52.91	1.169	300.00	300.00	300.00	.00	.00	210.22
2Q NOV	632.34	52.91	1.065	75.00	75.00	75.00	.00	.00	51.65
1Q DIC	609.18	47.91	.780	112.50	112.50	112.50	.00	.00	77.01
2Q DIC	543.81	47.91	.762	112.50	112.50	112.50	.00	.00	76.31

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	478.46	16.48	1.011	75.00	75.42	75.42	.00	.00	50.70
2Q ENE	418.51	16.48	.986	75.00	75.42	75.42	.00	.00	50.25
1Q FEB	358.59	13.16	1.446	19.00	18.75	18.75	.00	.00	12.43
2Q FEB	351.55	13.16	1.441	19.00	18.75	18.75	.00	.00	12.42
1Q MAR	344.52	13.85	2.457	19.00	18.75	18.75	.00	.00	12.40
2Q MAR	337.16	13.85	2.449	19.00	18.75	18.75	.00	.00	12.39
1Q ABR	329.81	21.53	2.887	19.00	18.75	18.75	.00	.00	12.38
2Q ABR	329.71	21.53	2.887	19.00	18.75	18.75	.00	.00	12.38
1Q MAY	329.60	21.98	3.052	19.00	18.75	18.75	.00	.00	12.38
2Q MAY	329.78	21.98	3.052	19.00	18.75	18.75	.00	.00	12.38
1Q JUN	329.96	35.02	.428	75.00	82.07	82.07	.00	.00	53.98
2Q JUN	282.48	35.02	.419	75.00	82.07	82.07	.00	.00	53.57
1Q JUL	235.01	79.00	-1.766	150.00	143.76	143.76	.00	.00	92.97
2Q JUL	172.01	79.00	-1.712	75.00	75.00	75.00	.00	.00	48.26
1Q AGO	177.73	152.79	-1.268	150.00	109.68	109.68	.00	.00	70.89
2Q AGO	222.10	152.79	-1.295	150.00	109.68	109.68	.00	.00	71.42
1Q SEP	266.50	269.00	-.695	150.00	75.00	75.00	.00	.00	49.77
2Q SEP	461.20	269.00	-.751	225.00	127.80	127.80	.00	.00	86.94
1Q OCT	603.15	203.07	.768	75.00	75.00	75.00	.00	.00	51.97
2Q OCT	730.45	203.07	.806	75.00	75.00	75.00	.00	.00	52.81
1Q NOV	857.72	40.05	1.156	300.00	307.71	307.71	.00	.00	214.69
2Q NOV	588.90	40.05	1.047	75.00	82.71	82.71	.00	.00	56.55
1Q DIC	545.20	35.95	.761	112.50	103.37	103.37	.00	.00	70.12
2Q DIC	477.02	35.95	.741	75.00	65.87	65.87	.00	.00	44.37

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	446.36	19.39	.998	75.00	68.94	68.94	.00	.00	46.16
2Q ENE	395.81	19.39	.978	75.00	68.94	68.94	.00	.00	45.81
1Q FEB	345.28	15.49	1.438	19.00	18.75	18.75	.00	.00	12.41
2Q FEB	340.58	15.49	1.435	19.00	18.75	18.75	.00	.00	12.40
1Q MAR	335.89	16.30	2.449	19.00	18.75	18.75	.00	.00	12.39
2Q MAR	330.99	16.30	2.443	19.00	18.75	18.75	.00	.00	12.38
1Q ABR	326.10	25.33	2.885	19.00	18.75	18.75	.00	.00	12.38
2Q ABR	329.79	25.33	2.890	19.00	18.75	18.75	.00	.00	12.38
1Q MAY	333.48	25.86	3.060	19.00	18.75	18.75	.00	.00	12.39
2Q MAY	337.53	25.86	3.066	19.00	18.75	18.75	.00	.00	12.40
1Q JUN	341.58	41.20	.431	75.00	80.00	80.00	.00	.00	52.75
2Q JUN	302.35	41.20	.424	75.00	80.00	80.00	.00	.00	52.42
1Q JUL	263.13	53.48	-1.779	150.00	144.49	144.49	.00	.00	93.68
2Q JUL	173.90	53.48	-1.703	75.00	75.00	75.00	.00	.00	48.17
1Q AGO	154.08	103.43	-1.238	150.00	105.90	105.90	.00	.00	67.90
2Q AGO	152.85	103.43	-1.237	150.00	105.90	105.90	.00	.00	67.88
1Q SEP	151.62	182.10	-.647	75.00	75.00	75.00	.00	.00	48.52
2Q SEP	259.37	182.10	-.680	150.00	75.00	75.00	.00	.00	49.39
1Q OCT	367.15	137.47	.695	75.00	75.00	75.00	.00	.00	50.04
2Q OCT	428.93	137.47	.713	75.00	75.00	75.00	.00	.00	50.50
1Q NOV	490.68	27.11	1.006	75.00	76.23	76.23	.00	.00	51.37
2Q NOV	440.56	27.11	.986	75.00	76.23	76.23	.00	.00	50.99
1Q DIC	390.46	24.33	.713	75.00	54.40	54.40	.00	.00	36.17
2Q DIC	359.68	24.33	.704	37.50	37.50	37.50	.00	.00	24.85

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	345.80	15.77	.956	37.50	37.50	37.50	.00	.00	24.78
2Q ENE	323.12	15.77	.946	37.50	37.50	37.50	.00	.00	24.69
1Q FEB	300.44	9.22	1.407	19.00	18.75	18.75	.00	.00	12.31
2Q FEB	289.50	9.22	1.400	19.00	18.75	18.75	.00	.00	12.29
1Q MAR	278.57	13.39	2.384	19.00	18.75	18.75	.00	.00	12.27
2Q MAR	270.83	13.39	2.375	19.00	18.75	18.75	.00	.00	12.26
1Q ABR	263.10	14.53	2.795	19.00	18.75	18.75	.00	.00	12.24
2Q ABR	256.08	14.53	2.786	19.00	18.75	18.75	.00	.00	12.23
1Q MAY	249.07	11.29	2.933	19.00	18.75	18.75	.00	.00	12.21
2Q MAY	238.68	11.29	2.918	19.00	18.75	18.75	.00	.00	12.19
1Q JUN	228.30	23.11	.407	75.00	87.78	87.78	.00	.00	56.69
2Q JUN	163.22	23.11	.394	75.00	87.78	87.78	.00	.00	56.05
1Q JUL	98.16	62.92	-1.639	75.00	75.00	75.00	.00	.00	47.56
2Q JUL	87.72	62.92	-1.628	75.00	75.00	75.00	.00	.00	47.47
1Q AGO	77.27	121.69	-1.194	150.00	107.30	107.30	.00	.00	67.94
2Q AGO	92.86	121.69	-1.205	150.00	107.30	107.30	.00	.00	68.14
1Q SEP	108.45	214.25	-.638	75.00	75.00	75.00	.00	.00	48.29
2Q SEP	248.34	214.25	-.682	150.00	75.00	75.00	.00	.00	49.42
1Q OCT	388.27	161.74	.705	75.00	75.00	75.00	.00	.00	50.29
2Q OCT	474.31	161.74	.729	75.00	75.00	75.00	.00	.00	50.92
1Q NOV	560.32	31.90	1.034	75.00	78.62	78.62	.00	.00	53.53
2Q NOV	512.56	31.90	1.016	75.00	78.62	78.62	.00	.00	53.17
1Q DIC	464.82	28.63	.736	75.00	58.64	58.64	.00	.00	39.43
2Q DIC	434.07	28.63	.727	75.00	58.64	58.64	.00	.00	39.25

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	403.33	22.38	.981	75.00	64.98	64.98	.00	.00	43.25
2Q ENE	359.75	22.38	.963	37.50	37.50	37.50	.00	.00	24.84
1Q FEB	343.67	12.67	1.436	19.00	18.75	18.75	.00	.00	12.40
2Q FEB	336.15	12.67	1.431	19.00	18.75	18.75	.00	.00	12.38
1Q MAR	328.64	16.90	2.441	19.00	18.75	18.75	.00	.00	12.37
2Q MAR	324.35	16.90	2.436	19.00	18.75	18.75	.00	.00	12.36
1Q ABR	320.07	12.93	2.869	19.00	18.75	18.75	.00	.00	12.35
2Q ABR	311.38	12.93	2.857	19.00	18.75	18.75	.00	.00	12.33
1Q MAY	302.70	20.02	3.014	19.00	18.75	18.75	.00	.00	12.32
2Q MAY	300.96	20.02	3.011	19.00	18.75	18.75	.00	.00	12.32
1Q JUN	299.22	99.12	.429	75.00	83.12	83.12	.00	.00	54.68
2Q JUN	314.79	99.12	.432	75.00	83.12	83.12	.00	.00	54.81
1Q JUL	330.36	122.22	-1.862	150.00	151.31	151.31	.00	.00	99.69
2Q JUL	303.14	122.22	-1.840	150.00	151.31	151.31	.00	.00	99.26
1Q AGO	275.89	561.56	-1.443	225.00	191.10	191.10	.00	.00	128.59
2Q AGO	647.80	561.56	-1.656	375.00	341.10	341.10	.00	.00	239.10
1Q SEP	869.92	218.74	-.865	450.00	538.71	538.71	.00	.00	375.17
2Q SEP	550.81	218.74	-.768	300.00	388.71	388.71	.00	.00	261.94
1Q OCT	381.61	94.55	.693	75.00	75.00	75.00	.00	.00	49.99
2Q OCT	400.47	94.55	.698	75.00	75.00	75.00	.00	.00	50.13
1Q NOV	419.32	33.02	.979	75.00	75.00	75.00	.00	.00	50.04
2Q NOV	376.36	33.02	.961	75.00	75.00	75.00	.00	.00	49.71
1Q DIC	333.42	14.81	.694	37.50	37.50	37.50	.00	.00	24.73
2Q DIC	310.04	14.81	.687	37.50	37.50	37.50	.00	.00	24.63

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	286.66	61.60	.940	37.50	37.50	37.50	.00	.00	24.63
2Q ENE	309.82	61.60	.950	37.50	37.50	37.50	.00	.00	24.73
1Q FEB	332.97	30.70	1.435	19.00	18.75	18.75	.00	.00	12.40
2Q FEB	343.48	30.70	1.442	19.00	18.75	18.75	.00	.00	12.42
1Q MAR	353.99	24.45	2.473	19.00	18.75	18.75	.00	.00	12.43
2Q MAR	357.22	24.45	2.477	19.00	18.75	18.75	.00	.00	12.44
1Q ABR	360.44	19.30	2.926	19.00	18.75	18.75	.00	.00	12.44
2Q ABR	358.06	19.30	2.923	19.00	18.75	18.75	.00	.00	12.43
1Q MAY	355.69	15.46	3.084	19.00	18.75	18.75	.00	.00	12.42
2Q MAY	349.32	15.46	3.075	19.00	18.75	18.75	.00	.00	12.41
1Q JUN	342.95	18.78	.429	75.00	85.55	85.55	.00	.00	56.30
2Q JUN	275.75	18.78	.416	75.00	85.55	85.55	.00	.00	55.69
1Q JUL	208.56	100.92	-1.753	75.00	75.00	75.00	.00	.00	48.66
2Q JUL	236.24	100.92	-1.776	150.00	141.85	141.85	.00	.00	91.94
1Q AGO	197.08	290.27	-1.321	150.00	112.94	112.94	.00	.00	74.03
2Q AGO	375.74	290.27	-1.423	300.00	262.94	262.94	.00	.00	175.23
1Q SEP	404.49	148.78	-.718	225.00	190.33	190.33	.00	.00	126.72
2Q SEP	363.67	148.78	-.706	150.00	115.33	115.33	.00	.00	76.75
1Q OCT	397.83	148.85	.706	75.00	75.00	75.00	.00	.00	50.31
2Q OCT	470.97	148.85	.726	75.00	75.00	75.00	.00	.00	50.85
1Q NOV	544.09	40.08	1.029	75.00	77.35	77.35	.00	.00	52.58
2Q NOV	505.79	40.08	1.015	75.00	77.35	77.35	.00	.00	52.29
1Q DIC	467.51	34.32	.738	75.00	65.89	65.89	.00	.00	44.32
2Q DIC	435.19	34.32	.728	75.00	65.89	65.89	.00	.00	44.10



QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	402.89	14.40	.980	75.00	68.06	68.06	.00	.00	45.25
2Q ENE	348.25	14.40	.957	37.50	37.50	37.50	.00	.00	24.78
1Q FEB	324.20	12.03	1.423	19.00	18.75	18.75	.00	.00	12.36
2Q FEB	316.05	12.03	1.418	19.00	18.75	18.75	.00	.00	12.34
1Q MAR	307.92	12.77	2.416	19.00	18.75	18.75	.00	.00	12.33
2Q MAR	299.52	12.77	2.406	19.00	18.75	18.75	.00	.00	12.31
1Q ABR	291.13	9.87	2.829	19.00	18.75	18.75	.00	.00	12.29
2Q ABR	279.42	9.87	2.814	19.00	18.75	18.75	.00	.00	12.27
1Q MAY	267.73	29.29	2.972	19.00	18.75	18.75	.00	.00	12.26
2Q MAY	275.30	29.29	2.982	19.00	18.75	18.75	.00	.00	12.28
1Q JUN	282.86	35.38	.419	75.00	78.16	78.16	.00	.00	51.04
2Q JUN	239.66	35.38	.411	75.00	78.16	78.16	.00	.00	50.67
1Q JUL	196.46	278.51	-1.817	75.00	75.00	75.00	.00	.00	49.26
2Q JUL	401.79	278.51	-1.978	225.00	218.81	218.81	.00	.00	146.75
1Q AGO	463.47	613.76	-1.556	300.00	289.29	289.29	.00	.00	199.26
2Q AGO	789.50	613.76	-1.758	450.00	439.29	439.29	.00	.00	312.44
1Q SEP	965.72	218.53	-.895	450.00	562.45	562.45	.00	.00	395.84
2Q SEP	622.70	218.53	-.787	300.00	412.45	412.45	.00	.00	280.32
1Q OCT	429.57	62.03	.702	75.00	75.00	75.00	.00	.00	50.23
2Q OCT	415.90	62.03	.698	75.00	75.00	75.00	.00	.00	50.12
1Q NOV	402.23	37.23	.973	75.00	75.00	75.00	.00	.00	49.93
2Q NOV	363.48	37.23	.957	75.00	75.00	75.00	.00	.00	49.63
1Q DIC	324.76	33.71	.695	37.50	37.50	37.50	.00	.00	24.73
2Q DIC	320.27	33.71	.693	37.50	37.50	37.50	.00	.00	24.71

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	315.79	110.98	.964	37.50	37.50	37.50	.00	.00	24.84
2Q ENE	388.31	110.98	.993	75.00	67.73	67.73	.00	.00	45.27
1Q FEB	430.57	99.69	1.517	37.50	44.82	44.82	.00	.00	30.17
2Q FEB	483.92	99.69	1.549	37.50	44.82	44.82	.00	.00	30.40
1Q MAR	537.24	145.61	2.725	56.50	67.29	67.29	.00	.00	46.05
2Q MAR	612.83	145.61	2.798	56.50	67.29	67.29	.00	.00	46.53
1Q ABR	688.35	183.64	3.416	75.00	154.91	154.91	.00	.00	107.82
2Q ABR	713.67	183.64	3.451	75.00	154.91	154.91	.00	.00	108.17
1Q MAY	738.95	149.01	3.660	75.00	190.91	190.91	.00	.00	133.13
2Q MAY	693.39	149.01	3.593	75.00	190.91	190.91	.00	.00	132.35
1Q JUN	647.90	235.48	.502	225.00	164.20	164.20	.00	.00	114.02
2Q JUN	718.68	235.48	.517	300.00	239.20	239.20	.00	.00	166.82
1Q JUL	714.44	157.77	-2.166	375.00	392.36	392.36	.00	.00	269.31
2Q JUL	482.02	157.77	-1.993	225.00	242.36	242.36	.00	.00	162.74
1Q AGO	399.43	320.42	-1.444	300.00	271.37	271.37	.00	.00	181.79
2Q AGO	449.92	320.42	-1.471	300.00	271.37	271.37	.00	.00	183.14
1Q SEP	500.44	194.39	-.751	225.00	204.04	204.04	.00	.00	138.12
2Q SEP	491.54	194.39	-.749	225.00	204.04	204.04	.00	.00	137.95
1Q OCT	482.64	47.99	.715	75.00	75.00	75.00	.00	.00	50.57
2Q OCT	454.92	47.99	.708	75.00	75.00	75.00	.00	.00	50.36
1Q NOV	427.20	29.60	.981	75.00	75.00	75.00	.00	.00	50.09
2Q NOV	380.82	29.60	.962	75.00	75.00	75.00	.00	.00	49.73
1Q DIC	334.46	23.55	.696	37.50	37.50	37.50	.00	.00	24.75
2Q DIC	319.81	23.55	.691	37.50	37.50	37.50	.00	.00	24.69

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	305.17	35.94	.943	37.50	37.50	37.50	.00	.00	24.66
2Q ENE	302.67	35.94	.942	37.50	37.50	37.50	.00	.00	24.65
1Q FEB	300.16	20.35	1.410	19.00	18.75	18.75	.00	.00	12.32
2Q FEB	300.35	20.35	1.410	19.00	18.75	18.75	.00	.00	12.32
1Q MAR	300.54	27.13	2.416	19.00	18.75	18.75	.00	.00	12.33
2Q MAR	306.51	27.13	2.422	19.00	18.75	18.75	.00	.00	12.34
1Q ABR	312.47	20.76	2.864	19.00	18.75	18.75	.00	.00	12.34
2Q ABR	311.61	20.76	2.863	19.00	18.75	18.75	.00	.00	12.34
1Q MAY	310.76	32.15	3.033	19.00	18.75	18.75	.00	.00	12.35
2Q MAY	321.13	32.15	3.047	19.00	18.75	18.75	.00	.00	12.37
1Q JUN	331.48	159.14	.440	75.00	76.63	76.63	.00	.00	50.93
2Q JUN	413.54	159.14	.456	75.00	76.63	76.63	.00	.00	51.56
1Q JUL	495.59	389.23	-2.087	225.00	233.37	233.37	.00	.00	159.70
2Q JUL	653.54	389.23	-2.214	300.00	308.37	308.37	.00	.00	214.46
1Q AGO	736.61	405.71	-1.663	450.00	455.72	455.72	.00	.00	317.65
2Q AGO	688.26	405.71	-1.633	450.00	455.72	455.72	.00	.00	315.66
1Q SEP	639.88	935.67	-.906	300.00	317.83	317.83	.00	.00	227.53
2Q SEP	1258.63	935.67	-1.088	600.00	600.00	631.77	31.77	.00	451.20
1Q OCT	1563.62	813.35	1.146	375.00	459.88	812.20	352.32	.00	350.77
2Q OCT	1563.62	813.35	1.146	525.00	600.00	812.20	212.20	.00	457.64
1Q NOV	1563.62	125.57	1.471	450.00	518.00	518.00	.00	.00	387.82
2Q NOV	1169.71	125.57	1.311	450.00	518.00	518.00	.00	.00	372.27
1Q DIC	775.97	109.13	.838	150.00	216.69	216.69	.00	.00	151.21
2Q DIC	667.57	109.13	.804	112.50	179.19	179.19	.00	.00	123.59

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	596.71	99.28	1.073	112.50	146.07	146.07	.00	.00	99.94
2Q ENE	548.85	99.28	1.055	112.50	146.07	146.07	.00	.00	99.28
1Q FEB	501.00	49.48	1.544	37.50	41.96	41.96	.00	.00	28.44
2Q FEB	506.98	49.48	1.548	37.50	41.96	41.96	.00	.00	28.46
1Q MAR	512.95	39.41	2.648	37.50	38.97	38.97	.00	.00	26.44
2Q MAR	510.75	39.41	2.645	37.50	38.97	38.97	.00	.00	26.43
1Q ABR	508.55	31.11	3.117	37.50	38.69	38.69	.00	.00	26.22
2Q ABR	497.85	31.11	3.104	37.50	38.69	38.69	.00	.00	26.18
1Q MAY	487.16	24.91	3.264	37.50	35.25	35.25	.00	.00	23.81
2Q MAY	473.56	24.91	3.246	37.50	35.25	35.25	.00	.00	23.76
1Q JUN	459.98	30.27	.452	150.00	155.50	155.50	.00	.00	103.73
2Q JUN	334.30	30.27	.429	75.00	80.50	80.50	.00	.00	52.97
1Q JUL	283.63	162.03	-1.841	150.00	143.20	143.20	.00	.00	94.01
2Q JUL	304.30	162.03	-1.857	150.00	143.20	143.20	.00	.00	94.32
1Q AGO	324.98	466.02	-1.443	225.00	197.00	197.00	.00	.00	132.59
2Q AGO	595.44	466.02	-1.593	375.00	347.00	347.00	.00	.00	240.08
1Q SEP	716.05	238.86	-.819	375.00	420.26	420.26	.00	.00	289.57
2Q SEP	535.47	238.86	-.767	300.00	345.26	345.26	.00	.00	233.23
1Q OCT	429.84	238.98	.727	75.00	75.00	75.00	.00	.00	50.87
2Q OCT	593.10	238.98	.770	75.00	75.00	75.00	.00	.00	52.02
1Q NOV	756.31	64.35	1.115	225.00	236.26	236.26	.00	.00	163.75
2Q NOV	583.28	64.35	1.049	150.00	161.26	161.26	.00	.00	109.74
1Q DIC	485.33	55.10	.746	75.00	87.41	87.41	.00	.00	58.94
2Q DIC	452.27	55.10	.737	75.00	87.41	87.41	.00	.00	58.65

\*\*\*\*\* RESUMEN ANUAL \*\*\*\*\*

AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1	.00	.00	3895.76	4895.0	773.73	550.44	3497.51
2	.00	.00	1803.76	1815.6	396.88	536.01	1218.39
3	.00	.00	1342.98	1423.5	320.73	532.82	935.71
4	.00	.00	1416.88	1339.7	283.81	531.24	875.59
5	.00	.00	2457.84	2555.9	376.14	535.17	1729.41
6	.00	.00	1867.02	1731.0	364.57	534.69	1148.51
7	.00	.00	2715.02	2784.2	385.15	535.54	1903.41
8	.00	.00	3396.26	3385.0	516.53	540.82	2308.80
9	596.29	.00	6148.26	5837.3	661.86	546.35	3780.03
10	.00	.00	2999.60	3156.1	492.55	539.89	2143.41
11	108.31	.00	5435.54	5412.7	702.34	547.84	3792.62
12	.00	.00	3485.66	3408.2	493.45	539.93	2342.94
13	.00	.00	2687.52	2697.4	404.80	536.33	1829.40
14	.00	.00	3560.06	3560.2	586.18	543.50	2441.57
15	.00	.00	3107.34	3006.9	507.22	540.46	2049.60
16	.00	.00	1336.38	1624.3	306.23	532.20	1067.91
17	.00	.00	2011.88	1962.2	309.86	532.35	1304.46
18	.00	.00	1695.18	1541.2	300.14	531.94	1012.04
19	.00	.00	2606.30	2716.2	392.21	535.82	1843.97
20	.00	.00	2878.92	2838.2	419.73	536.94	1932.64
21	.00	.00	1897.98	1735.3	305.62	532.17	1146.06
22	.00	.00	1664.64	1854.5	301.39	531.99	1222.53
23	.00	.00	2340.60	2278.6	331.06	533.26	1528.22
24	.00	.00	1571.22	1559.4	230.64	528.91	1016.62
25	.00	.00	1619.80	1538.7	278.03	530.99	1011.00
26	.00	.00	1762.60	1699.6	295.51	531.74	1121.08
27	.00	.00	1934.80	2046.8	351.86	534.15	1359.11
28	.00	.00	3237.88	2767.3	487.33	539.68	1868.09
29	.00	.00	4235.36	4350.9	624.80	544.99	3037.25
30	.00	.00	3058.72	3204.6	514.14	540.73	2184.11
31	42.83	.00	4986.70	4837.8	580.68	543.29	3455.10
32	.00	.00	1835.88	2283.3	350.43	534.09	1514.99
33	.00	.46	3028.46	2520.8	308.41	532.29	1702.03
34	.00	.00	2451.38	2503.3	482.23	539.47	1691.01
35	.00	.00	1839.26	1814.4	347.74	533.97	1205.34
36	.00	.00	2163.32	2343.9	371.86	535.00	1572.39
37	.00	.00	2302.70	2283.6	334.47	533.40	1533.49
38	.00	.00	2204.16	2098.4	393.51	535.88	1404.34
39	1229.10	.00	6715.34	6473.7	689.19	547.36	3777.91
40	.00	.00	1851.00	1986.6	385.37	535.55	1324.64
41	.00	.00	2024.04	2303.7	334.86	533.42	1534.85
42	.00	.00	3073.60	2698.6	447.17	538.05	1831.16
43	.00	.00	4935.68	4905.8	722.64	548.59	3445.70
44	473.40	.00	7435.46	7187.6	860.79	553.48	4923.86
45	.00	.00	3815.70	4099.9	557.42	542.39	2829.77
46	.00	.00	3461.54	3351.8	476.71	539.25	2308.74
47	.00	.00	1951.10	1844.5	358.77	534.44	1219.63
48	.00	.00	2665.72	2774.6	396.37	535.99	1876.63
49	.00	3.41	2026.90	2441.5	361.85	534.57	1623.95
50	.00	.00	4122.92	3623.3	527.30	541.23	2491.79
51	372.83	.00	6549.30	6395.5	782.89	550.76	4397.01
52	.00	.00	2797.40	3000.7	470.92	539.01	2050.11
53	.00	.00	2174.88	2342.2	356.10	534.33	1566.37
54	.00	.00	1207.92	1348.4	204.11	527.72	870.90
55	.00	.00	1577.80	1467.2	195.78	527.34	951.60
56	.00	.00	4140.74	3734.6	432.26	537.45	2620.52
57	.00	.00	2160.50	2340.1	417.43	536.85	1565.53
58	.00	.00	4662.76	3854.1	573.48	543.01	2681.04
59	.00	.00	2198.32	2934.3	434.10	537.52	1987.00
60	.00	.00	3607.56	3426.2	635.22	545.37	2356.57
61	.00	.00	3008.26	3196.1	486.59	539.65	2250.99
62	.00	.00	2709.68	2633.0	455.00	538.37	1793.84
63	.00	.00	3598.62	3615.2	510.07	540.57	2491.20
64	54.53	.00	5230.80	4919.1	672.57	546.75	3471.22
65	.00	.00	2788.02	2923.2	504.60	540.36	2003.70
66	.00	.00	1619.46	1922.8	351.61	534.14	1270.20
67	.00	.00	2320.02	1975.2	296.92	531.80	1310.06
68	.00	.00	2260.72	2292.4	365.50	534.73	1536.45
69	.00	.00	2583.22	2672.4	404.54	536.32	1800.39
70	.00	.00	2103.64	2025.0	347.42	533.96	1350.91
71	.00	.00	4158.72	4123.8	572.66	542.98	2868.53
72	.00	.00	4496.14	4412.3	676.99	546.91	3104.11
73	.00	33.58	1713.04	2147.5	249.51	529.76	1429.61
74	.00	27.64	1586.78	1382.0	159.01	525.68	895.36
75	.00	.00	1723.22	1661.3	204.86	527.75	1082.72
76	.00	.00	2445.82	2628.7	374.55	535.11	1763.04
77	458.24	.00	6719.62	6269.3	767.85	550.23	4239.07
78	.00	.00	4662.52	4557.9	576.54	543.13	3159.96
79	.00	.00	2761.38	2840.6	416.87	536.82	1933.95

80	.00	68.42	1526.16	1958.1	266.89	530.52	1292.59
81	.00	2.34	2321.80	2045.1	197.62	527.42	1352.82
82	.00	.00	2736.50	2630.2	449.84	538.16	1775.40
83	.00	.00	2711.76	2579.8	458.91	538.53	1739.78
84	.00	.00	2864.88	2856.2	436.77	537.63	1948.75
85	.00	73.50	1023.16	1454.3	199.98	527.53	939.51
86	.00	.00	2370.28	2282.4	374.93	535.12	1524.07
87	.00	.00	2865.34	2766.9	352.39	534.17	1901.35
88	.00	.00	2540.02	2221.3	357.06	534.37	1489.91
89	.00	.00	3051.96	3009.3	493.19	539.92	2054.75
90	.00	.00	2238.10	2329.8	392.87	535.85	1564.22
91	.00	.00	2029.34	1983.6	416.24	536.80	1325.69
92	.00	.00	2400.34	2314.6	462.87	538.69	1566.60
93	.00	.00	2390.24	2620.3	427.60	537.26	1759.54
94	.00	.00	4107.02	3788.7	552.23	542.19	2636.58
95	.00	.00	3582.54	3673.2	510.32	540.58	2517.82
96	.00	.00	3196.12	3146.5	486.54	539.65	2136.23
97	409.18	.00	6378.44	6343.7	834.66	552.57	4313.10
98	150.89	.00	5749.56	5541.7	724.39	548.65	3942.33
99	.00	.00	3122.82	3296.8	528.51	541.28	2270.30
100	.00	.00	3996.06	3951.1	532.11	541.42	2727.56
TOTAL		3895.61	209.36				
ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO:					.00	MILL M^3	
ENERGÍA PROMEDIO GENERADA EN LOS 100 AÑOS:					83.96	GWH	

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX RESUMEN QUINCENAL XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

	P R O M E D I O S		
	ELEVACIÓN MSNM	ALMACENAMIENTO MILL M^3	ENERGÍA GWH
1Q ENE	534.69	363.98	50.77
2Q ENE	534.18	352.95	46.91
1Q FEB	534.19	363.80	20.33
2Q FEB	534.63	373.31	21.22
1Q MAR	535.01	382.51	22.34
2Q MAR	535.37	390.95	22.89
1Q ABR	535.44	385.74	30.59
2Q ABR	535.27	382.23	29.41
1Q MAY	535.12	377.87	30.10
2Q MAY	534.96	373.87	29.82
1Q JUN	534.68	365.79	74.14
2Q JUN	534.26	357.94	74.17
1Q JUL	536.46	477.68	127.91
2Q JUL	540.02	544.92	166.56
1Q AGO	540.98	534.05	222.66
2Q AGO	540.46	522.59	219.59
1Q SEP	541.14	570.56	159.22
2Q SEP	542.59	592.90	170.48
1Q OCT	543.26	603.96	85.21
2Q OCT	543.74	618.27	83.35
1Q NOV	541.94	504.79	120.55
2Q NOV	538.57	435.39	87.97
1Q DIC	536.53	399.17	61.87
2Q DIC	535.21	369.77	56.92

\*\*-\*\*\*-\*\*-\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO -\*\*-\*\*\*-\*\*-\*

PRESA: EL CAJON

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****1*****									
1Q ENE	1300.00	.00	1.315	450.00	450.00	450.00	.00	.00	321.73
2Q ENE	1148.69	.00	1.253	337.50	337.50	337.50	.00	.00	238.34
1Q FEB	1034.93	.00	1.662	262.50	262.50	262.50	.00	.00	183.06
2Q FEB	883.27	.00	1.577	112.50	112.50	112.50	.00	.00	77.81
1Q MAR	863.19	.00	2.357	112.50	112.50	112.50	.00	.00	77.66
2Q MAR	842.34	.00	2.339	94.00	94.00	94.00	.00	.00	64.76
1Q ABR	821.00	.00	2.759	75.00	75.00	75.00	.00	.00	51.61
2Q ABR	818.24	.00	2.757	56.50	56.50	56.50	.00	.00	38.87
1Q MAY	815.48	.00	3.094	56.50	56.50	56.50	.00	.00	38.86
2Q MAY	812.39	.00	3.091	56.50	56.50	56.50	.00	.00	38.85
1Q JUN	809.30	.00	.598	375.00	375.00	375.00	.00	.00	255.52
2Q JUN	658.70	.00	.561	225.00	225.00	225.00	.00	.00	151.17
1Q JUL	583.14	.00	-1.829	300.00	300.00	300.00	.00	.00	198.49
2Q JUL	434.97	.00	-1.697	375.00	375.00	375.00	.00	.00	244.31
1Q AGO	361.66	.00	-1.345	225.00	225.00	225.00	.00	.00	147.39
2Q AGO	513.01	.00	-1.456	600.00	600.00	600.00	.00	.00	397.23
1Q SEP	514.46	.00	-.778	525.00	525.00	525.00	.00	.00	349.43
2Q SEP	590.24	.00	-.808	450.00	450.00	450.00	.00	.00	304.18
1Q OCT	741.05	.00	.678	75.00	75.00	75.00	.00	.00	51.21
2Q OCT	740.37	.00	.677	75.00	75.00	75.00	.00	.00	51.21
1Q NOV	739.70	.00	1.307	225.00	225.00	225.00	.00	.00	154.18
2Q NOV	813.39	.00	1.344	75.00	75.00	75.00	.00	.00	51.58
1Q DIC	812.04	.00	.874	112.50	112.50	112.50	.00	.00	77.36
2Q DIC	811.17	.00	.873	112.50	112.50	112.50	.00	.00	77.35
*****2*****									
1Q ENE	810.30	.00	1.116	75.00	75.00	75.00	.00	.00	51.56
2Q ENE	809.60	.00	1.115	75.00	75.00	75.00	.00	.00	51.56
1Q FEB	808.90	.00	1.535	37.50	37.50	37.50	.00	.00	25.75
2Q FEB	788.61	.00	1.524	37.50	37.50	37.50	.00	.00	25.70
1Q MAR	768.34	.00	2.277	37.50	37.50	37.50	.00	.00	25.65
2Q MAR	747.31	.00	2.259	37.50	37.50	37.50	.00	.00	25.59
1Q ABR	726.30	.00	2.661	37.50	37.50	37.50	.00	.00	25.52
2Q ABR	704.89	.00	2.635	37.50	37.50	37.50	.00	.00	25.45
1Q MAY	683.51	.00	2.932	37.50	37.50	37.50	.00	.00	25.37
2Q MAY	661.83	.00	2.902	37.50	37.50	37.50	.00	.00	25.30
1Q JUN	640.17	.00	.556	150.00	150.00	150.00	.00	.00	100.57
2Q JUN	571.69	.00	.538	150.00	150.00	150.00	.00	.00	99.63
1Q JUL	503.22	.00	-1.758	225.00	225.00	225.00	.00	.00	147.93
2Q JUL	423.74	.00	-1.687	150.00	150.00	150.00	.00	.00	97.57
1Q AGO	350.43	.00	-1.337	75.00	75.00	75.00	.00	.00	48.66
2Q AGO	386.44	.00	-1.363	75.00	75.00	75.00	.00	.00	48.90
1Q SEP	422.49	.00	-.742	75.00	75.00	75.00	.00	.00	49.03
2Q SEP	423.23	.00	-.742	75.00	75.00	75.00	.00	.00	49.22
1Q OCT	476.77	.00	.597	75.00	75.00	75.00	.00	.00	49.40
2Q OCT	476.18	.00	.597	75.00	75.00	75.00	.00	.00	49.39
1Q NOV	475.58	.00	1.151	75.00	75.00	75.00	.00	.00	50.19
2Q NOV	707.14	.00	1.288	75.00	75.00	75.00	.00	.00	51.00
1Q DIC	713.56	.00	.840	112.50	112.50	112.50	.00	.00	76.49
2Q DIC	703.59	.00	.837	75.00	75.00	75.00	.00	.00	50.92

QUINCENA	ALM.	INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****										
						3				
1Q ENE	693.62	.00	1.064	75.00	75.00	75.00	75.00	.00	.00	50.86
2Q ENE	686.49	.00	1.061	75.00	75.00	75.00	75.00	.00	.00	50.82
1Q FEB	679.37	.00	1.455	37.50	37.50	37.50	37.50	.00	.00	25.36
2Q FEB	659.17	.00	1.441	37.50	37.50	37.50	37.50	.00	.00	25.29
1Q MAR	638.98	.00	2.149	37.50	37.50	37.50	37.50	.00	.00	25.22
2Q MAR	618.08	.00	2.128	37.50	37.50	37.50	37.50	.00	.00	25.15
1Q ABR	597.20	.00	2.505	37.50	37.50	37.50	37.50	.00	.00	25.08
2Q ABR	575.94	.00	2.479	37.50	37.50	37.50	37.50	.00	.00	25.00
1Q MAY	554.72	.00	2.757	37.50	37.50	37.50	37.50	.00	.00	24.93
2Q MAY	533.21	.00	2.727	37.50	37.50	37.50	37.50	.00	.00	24.86
1Q JUN	511.73	.00	.523	150.00	150.00	150.00	150.00	.00	.00	98.80
2Q JUN	441.20	.00	.504	75.00	75.00	75.00	75.00	.00	.00	49.17
1Q JUL	445.70	.00	-1.707	225.00	225.00	225.00	225.00	.00	.00	146.75
2Q JUL	366.89	.00	-1.637	75.00	75.00	75.00	75.00	.00	.00	48.65
1Q AGO	368.53	.00	-1.350	75.00	75.00	75.00	75.00	.00	.00	48.77
2Q AGO	400.78	.00	-1.374	75.00	75.00	75.00	75.00	.00	.00	48.99
1Q SEP	433.04	.00	-.746	75.00	75.00	75.00	75.00	.00	.00	49.10
2Q SEP	433.79	.00	-.746	75.00	75.00	75.00	75.00	.00	.00	49.11
1Q OCT	434.54	.00	.584	75.00	75.00	75.00	75.00	.00	.00	49.11
2Q OCT	433.95	.00	.584	75.00	75.00	75.00	75.00	.00	.00	49.10
1Q NOV	433.37	.00	1.126	75.00	75.00	75.00	75.00	.00	.00	49.10
2Q NOV	433.47	.00	1.126	75.00	75.00	75.00	75.00	.00	.00	49.10
1Q DIC	433.57	.00	.733	37.50	37.50	37.50	37.50	.00	.00	24.58
2Q DIC	449.73	.00	.739	37.50	37.50	37.50	37.50	.00	.00	24.61

QUINCENA	ALM.	INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****										
						4				
1Q ENE	449.00	.00	.944	37.50	37.50	37.50	37.50	.00	.00	24.60
2Q ENE	448.05	.00	.943	37.50	37.50	37.50	37.50	.00	.00	24.60
1Q FEB	447.11	.00	1.298	19.00	19.00	19.00	19.00	.00	.00	12.46
2Q FEB	445.56	.00	1.297	19.00	19.00	19.00	19.00	.00	.00	12.46
1Q MAR	444.01	.00	1.951	19.00	19.00	19.00	19.00	.00	.00	12.46
2Q MAR	441.81	.00	1.949	19.00	19.00	19.00	19.00	.00	.00	12.45
1Q ABR	439.61	.00	2.314	19.00	19.00	19.00	19.00	.00	.00	12.45
2Q ABR	437.05	.00	2.311	19.00	19.00	19.00	19.00	.00	.00	12.44
1Q MAY	434.49	.00	2.593	19.00	19.00	19.00	19.00	.00	.00	12.44
2Q MAY	431.65	.00	2.589	19.00	19.00	19.00	19.00	.00	.00	12.43
1Q JUN	428.81	.00	.501	150.00	150.00	150.00	150.00	.00	.00	97.71
2Q JUN	366.09	.00	.484	75.00	75.00	75.00	75.00	.00	.00	48.68
1Q JUL	378.38	.00	-1.647	150.00	150.00	150.00	150.00	.00	.00	96.94
2Q JUL	305.03	.00	-1.582	75.00	75.00	75.00	75.00	.00	.00	48.23
1Q AGO	306.61	.00	-1.305	75.00	75.00	75.00	75.00	.00	.00	48.35
2Q AGO	340.21	.00	-1.329	75.00	75.00	75.00	75.00	.00	.00	48.58
1Q SEP	373.84	.00	-.723	75.00	75.00	75.00	75.00	.00	.00	48.70
2Q SEP	374.56	.00	-.723	75.00	75.00	75.00	75.00	.00	.00	48.70
1Q OCT	375.29	.00	.566	75.00	75.00	75.00	75.00	.00	.00	48.70
2Q OCT	374.72	.00	.565	75.00	75.00	75.00	75.00	.00	.00	48.70
1Q NOV	374.16	.00	1.091	75.00	75.00	75.00	75.00	.00	.00	48.70
2Q NOV	376.69	.00	1.093	75.00	75.00	75.00	75.00	.00	.00	48.72
1Q DIC	379.22	.00	.712	37.50	37.50	37.50	37.50	.00	.00	24.40
2Q DIC	399.65	.00	.720	37.50	37.50	37.50	37.50	.00	.00	24.47

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
					5	*****			
1Q ENE	420.07	.00	.930	37.50	37.50	37.50	.00	.00	24.55
2Q ENE	446.62	.00	.943	37.50	37.50	37.50	.00	.00	24.59
1Q FEB	445.68	.00	1.297	19.00	19.00	19.00	.00	.00	12.46
2Q FEB	444.13	.00	1.296	19.00	19.00	19.00	.00	.00	12.46
1Q MAR	442.59	.00	1.949	19.00	19.00	19.00	.00	.00	12.45
2Q MAR	440.39	.00	1.947	19.00	19.00	19.00	.00	.00	12.45
1Q ABR	438.19	.00	2.312	19.00	19.00	19.00	.00	.00	12.45
2Q ABR	435.63	.00	2.309	19.00	19.00	19.00	.00	.00	12.44
1Q MAY	433.07	.00	2.591	19.00	19.00	19.00	.00	.00	12.44
2Q MAY	430.23	.00	2.587	19.00	19.00	19.00	.00	.00	12.43
1Q JUN	427.39	.00	.500	75.00	75.00	75.00	.00	.00	49.09
2Q JUN	435.01	.00	.502	75.00	75.00	75.00	.00	.00	49.14
1Q JUL	442.62	.00	-1.704	225.00	225.00	225.00	.00	.00	146.75
2Q JUL	370.63	.00	-1.640	150.00	150.00	150.00	.00	.00	97.36
1Q AGO	373.58	.00	-1.354	75.00	75.00	75.00	.00	.00	49.09
2Q AGO	491.03	.00	-1.440	300.00	300.00	300.00	.00	.00	198.58
1Q SEP	533.57	.00	-.786	300.00	300.00	300.00	.00	.00	202.34
2Q SEP	773.06	.00	-.877	225.00	225.00	225.00	.00	.00	155.36
1Q OCT	937.65	.00	.728	150.00	150.00	150.00	.00	.00	104.02
2Q OCT	861.92	.00	.708	150.00	150.00	150.00	.00	.00	103.26
1Q NOV	786.21	.00	1.330	75.00	75.00	75.00	.00	.00	51.44
2Q NOV	784.88	.00	1.330	75.00	75.00	75.00	.00	.00	51.43
1Q DIC	783.55	.00	.865	112.50	112.50	112.50	.00	.00	76.81
2Q DIC	707.69	.00	.838	75.00	75.00	75.00	.00	.00	50.85

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
					6	*****			
1Q ENE	669.35	.00	1.052	75.00	75.00	75.00	.00	.00	50.59
2Q ENE	630.79	.00	1.033	75.00	75.00	75.00	.00	.00	50.33
1Q FEB	592.26	.00	1.396	37.50	37.50	37.50	.00	.00	25.06
2Q FEB	572.12	.00	1.383	37.50	37.50	37.50	.00	.00	24.99
1Q MAR	551.98	.00	2.061	37.50	37.50	37.50	.00	.00	24.92
2Q MAR	531.17	.00	2.040	37.50	37.50	37.50	.00	.00	24.85
1Q ABR	510.38	.00	2.400	19.00	19.00	19.00	.00	.00	12.57
2Q ABR	507.73	.00	2.397	19.00	19.00	19.00	.00	.00	12.57
1Q MAY	505.08	.00	2.689	19.00	19.00	19.00	.00	.00	12.56
2Q MAY	502.15	.00	2.685	19.00	19.00	19.00	.00	.00	12.56
1Q JUN	499.21	.00	.519	150.00	150.00	150.00	.00	.00	98.66
2Q JUN	434.24	.00	.502	75.00	75.00	75.00	.00	.00	49.14
1Q JUL	444.29	.00	-1.706	150.00	150.00	150.00	.00	.00	97.85
2Q JUL	371.00	.00	-1.641	150.00	150.00	150.00	.00	.00	97.30
1Q AGO	364.49	.00	-1.347	75.00	75.00	75.00	.00	.00	48.76
2Q AGO	403.77	.00	-1.376	225.00	225.00	225.00	.00	.00	147.10
1Q SEP	443.08	.00	-.750	75.00	75.00	75.00	.00	.00	49.57
2Q SEP	559.16	.00	-.796	150.00	150.00	150.00	.00	.00	99.70
1Q OCT	525.28	.00	.612	75.00	75.00	75.00	.00	.00	49.73
2Q OCT	524.67	.00	.611	75.00	75.00	75.00	.00	.00	49.73
1Q NOV	524.06	.00	1.180	75.00	75.00	75.00	.00	.00	49.73
2Q NOV	525.23	.00	1.181	75.00	75.00	75.00	.00	.00	49.74
1Q DIC	526.40	.00	.769	75.00	75.00	75.00	.00	.00	49.71
2Q DIC	516.53	.00	.765	37.50	37.50	37.50	.00	.00	24.88

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
					7	*****			
1Q ENE	544.16	.00	.991	75.00	75.00	75.00	.00	.00	49.84
2Q ENE	536.22	.00	.987	75.00	75.00	75.00	.00	.00	49.68
1Q FEB	497.74	.00	1.333	19.00	19.00	19.00	.00	.00	12.55
2Q FEB	496.16	.00	1.332	19.00	19.00	19.00	.00	.00	12.55
1Q MAR	494.57	.00	2.003	19.00	19.00	19.00	.00	.00	12.54
2Q MAR	492.32	.00	2.001	19.00	19.00	19.00	.00	.00	12.54
1Q ABR	490.07	.00	2.376	19.00	19.00	19.00	.00	.00	12.54
2Q ABR	487.45	.00	2.372	19.00	19.00	19.00	.00	.00	12.53
1Q MAY	484.82	.00	2.662	19.00	19.00	19.00	.00	.00	12.53
2Q MAY	481.91	.00	2.658	19.00	19.00	19.00	.00	.00	12.52
1Q JUN	479.00	.00	.514	150.00	150.00	150.00	.00	.00	98.33
2Q JUN	406.65	.00	.495	75.00	75.00	75.00	.00	.00	48.93
1Q JUL	409.32	.00	-1.674	150.00	150.00	150.00	.00	.00	97.37
2Q JUL	335.99	.00	-1.609	225.00	225.00	225.00	.00	.00	145.25
1Q AGO	331.41	.00	-1.323	150.00	150.00	150.00	.00	.00	97.77
2Q AGO	472.02	.00	-1.426	375.00	375.00	375.00	.00	.00	247.97
1Q SEP	537.74	.00	-.787	300.00	300.00	300.00	.00	.00	202.67
2Q SEP	800.97	.00	-.886	225.00	225.00	225.00	.00	.00	155.96
1Q OCT	989.31	.00	.741	150.00	150.00	150.00	.00	.00	104.53
2Q OCT	913.57	.00	.721	150.00	150.00	150.00	.00	.00	103.78
1Q NOV	837.85	.00	1.356	150.00	150.00	150.00	.00	.00	103.02
2Q NOV	761.49	.00	1.318	225.00	225.00	225.00	.00	.00	152.46
1Q DIC	610.17	.00	.801	75.00	75.00	75.00	.00	.00	50.18
2Q DIC	571.87	.00	.786	75.00	75.00	75.00	.00	.00	49.92

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
					8	*****			
1Q ENE	533.59	.00	.985	75.00	75.00	75.00	.00	.00	49.66
2Q ENE	495.10	.00	.967	37.50	37.50	37.50	.00	.00	24.81
1Q FEB	524.36	.00	1.351	19.00	19.00	19.00	.00	.00	12.62
2Q FEB	548.83	.00	1.367	37.50	37.50	37.50	.00	.00	24.96
1Q MAR	554.79	.00	2.064	37.50	37.50	37.50	.00	.00	25.02
2Q MAR	582.51	.00	2.092	37.50	37.50	37.50	.00	.00	25.11
1Q ABR	610.21	.00	2.520	56.50	56.50	56.50	.00	.00	38.15
2Q ABR	706.10	.00	2.637	75.00	75.00	75.00	.00	.00	51.20
1Q MAY	783.37	.00	3.059	75.00	75.00	75.00	.00	.00	51.71
2Q MAY	896.22	.00	3.185	94.00	94.00	94.00	.00	.00	65.45
1Q JUN	989.95	.00	.637	600.00	600.00	600.00	.00	.00	409.54
2Q JUN	553.51	.00	.534	375.00	375.00	375.00	.00	.00	247.29
1Q JUL	417.17	.00	-1.681	450.00	450.00	450.00	.00	.00	292.79
2Q JUL	361.21	.00	-1.632	225.00	225.00	225.00	.00	.00	146.01
1Q AGO	380.20	.00	-1.359	225.00	225.00	225.00	.00	.00	146.70
2Q AGO	427.93	.00	-1.393	225.00	225.00	225.00	.00	.00	147.69
1Q SEP	475.69	.00	-.763	75.00	75.00	75.00	.00	.00	49.84
2Q SEP	605.50	.00	-.814	150.00	150.00	150.00	.00	.00	100.94
1Q OCT	660.35	.00	.653	75.00	75.00	75.00	.00	.00	50.66
2Q OCT	659.70	.00	.653	75.00	75.00	75.00	.00	.00	50.65
1Q NOV	659.04	.00	1.259	75.00	75.00	75.00	.00	.00	50.65
2Q NOV	657.78	.00	1.259	75.00	75.00	75.00	.00	.00	50.64
1Q DIC	656.52	.00	.818	75.00	75.00	75.00	.00	.00	50.50
2Q DIC	618.21	.00	.804	75.00	75.00	75.00	.00	.00	50.24



QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	579.90	.00	1.008	75.00	75.00	75.00	.00	.00	49.98
2Q ENE	541.39	.00	.989	75.00	75.00	75.00	.00	.00	49.71
1Q FEB	502.91	.00	1.336	19.00	19.00	19.00	.00	.00	12.56
2Q FEB	501.32	.00	1.335	19.00	19.00	19.00	.00	.00	12.56
1Q MAR	499.73	.00	2.008	19.00	19.00	19.00	.00	.00	12.55
2Q MAR	497.48	.00	2.006	19.00	19.00	19.00	.00	.00	12.55
1Q ABR	495.22	.00	2.382	19.00	19.00	19.00	.00	.00	12.54
2Q ABR	492.59	.00	2.379	19.00	19.00	19.00	.00	.00	12.54
1Q MAY	489.96	.00	2.669	19.00	19.00	19.00	.00	.00	12.54
2Q MAY	487.04	.00	2.665	19.00	19.00	19.00	.00	.00	12.53
1Q JUN	484.13	.00	.515	75.00	75.00	75.00	.00	.00	49.45
2Q JUN	485.25	.00	.516	75.00	75.00	75.00	.00	.00	49.46
1Q JUL	486.36	.00	-1.743	300.00	300.00	300.00	.00	.00	196.97
2Q JUL	421.48	.00	-1.685	375.00	375.00	375.00	.00	.00	243.99
1Q AGO	356.54	.00	-1.341	300.00	300.00	300.00	.00	.00	196.45
2Q AGO	513.60	.00	-1.456	375.00	375.00	375.00	.00	.00	249.68
1Q SEP	595.78	.00	-.810	150.00	150.00	150.00	.00	.00	101.55
2Q SEP	764.41	.00	-.875	450.00	450.00	450.00	.00	.00	310.74
1Q OCT	947.06	.00	.730	225.00	225.00	423.40	198.40	.00	159.63
2Q OCT	1335.13	.00	.828	600.00	600.00	811.38	211.38	.00	433.39
1Q NOV	1335.13	.00	1.599	650.00	650.00	650.00	.00	.00	466.62
2Q NOV	1201.54	.00	1.533	600.00	600.00	600.00	.00	.00	426.41
1Q DIC	1118.01	.00	.971	225.00	225.00	225.00	.00	.00	159.21
2Q DIC	1108.73	.00	.968	412.50	412.50	412.50	.00	.00	288.56

QUINCENA	ALM. INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	874.45	.00	1.142	150.00	150.00	150.00	.00	.00	103.74
2Q ENE	869.37	.00	1.140	150.00	150.00	150.00	.00	.00	103.69
1Q FEB	864.30	.00	1.566	56.50	56.50	56.50	.00	.00	39.02
2Q FEB	848.19	.00	1.557	56.50	56.50	56.50	.00	.00	38.96
1Q MAR	832.09	.00	2.331	56.50	56.50	56.50	.00	.00	38.89
2Q MAR	812.23	.00	2.314	37.50	37.50	37.50	.00	.00	25.79
1Q ABR	811.38	.00	2.750	37.50	37.50	37.50	.00	.00	25.78
2Q ABR	809.82	.00	2.748	37.50	37.50	37.50	.00	.00	25.78
1Q MAY	808.27	.00	3.086	37.50	37.50	37.50	.00	.00	25.77
2Q MAY	802.93	.00	3.080	37.50	37.50	37.50	.00	.00	25.76
1Q JUN	797.59	.00	.596	375.00	375.00	375.00	.00	.00	253.98
2Q JUN	577.50	.00	.540	225.00	225.00	225.00	.00	.00	148.78
1Q JUL	432.46	.00	-1.695	225.00	225.00	225.00	.00	.00	146.46
2Q JUL	352.36	.00	-1.624	150.00	150.00	150.00	.00	.00	97.06
1Q AGO	347.19	.00	-1.334	75.00	75.00	75.00	.00	.00	48.93
2Q AGO	470.53	.00	-1.425	300.00	300.00	300.00	.00	.00	198.09
1Q SEP	518.96	.00	-.780	150.00	150.00	150.00	.00	.00	101.15
2Q SEP	790.00	.00	-.883	225.00	225.00	225.00	.00	.00	155.29
1Q OCT	911.14	.00	.721	150.00	150.00	150.00	.00	.00	103.75
2Q OCT	835.42	.00	.702	150.00	150.00	150.00	.00	.00	103.00
1Q NOV	759.71	.00	1.317	150.00	150.00	150.00	.00	.00	103.05
2Q NOV	844.65	.00	1.359	150.00	150.00	150.00	.00	.00	103.52
1Q DIC	854.55	.00	.887	112.50	112.50	112.50	.00	.00	77.58
2Q DIC	828.58	.00	.879	112.50	112.50	112.50	.00	.00	77.38

***** RESUMEN ANUAL *****							
AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1	.00	.00	.00	5363.5	748.88	375.15	3642.15
2	.00	.00	.00	1912.5	611.13	370.07	1276.36
3	.00	.00	.00	1650.0	500.52	365.94	1087.51
4	.00	.00	.00	1352.0	397.61	362.09	878.37
5	.00	.00	.00	2289.5	555.61	367.99	1534.25
6	.00	.00	.00	1838.5	504.55	366.09	1212.60
7	.00	.00	.00	2777.0	560.51	368.18	1857.95
8	.00	.00	.00	3319.5	600.17	369.66	2212.84
9	409.78	.00	.00	5524.3	688.97	372.97	3532.16
10	.00	.00	.00	3207.0	732.58	374.60	2171.20
11	.00	.00	.00	5325.5	766.30	375.62	3593.18
12	.00	.00	.00	3262.5	718.77	374.09	2211.39
13	.00	.00	.00	2925.0	643.74	371.28	1958.12
14	.00	.00	.00	3507.5	708.90	373.72	2364.91
15	.00	.00	.00	2925.0	702.03	373.46	1970.05
16	.00	.00	.00	1950.0	594.00	369.43	1297.42
17	.00	.00	.00	1952.0	477.65	365.08	1282.53
18	.00	.00	.00	1464.5	475.17	364.99	962.96
19	.00	.00	.00	2739.5	558.80	368.11	1825.73
20	.00	.00	.00	2626.0	590.80	369.31	1747.49
21	.00	.00	.00	1857.0	517.43	366.57	1224.94
22	.00	.00	.00	1895.5	500.55	365.94	1250.63
23	.00	.00	.00	2177.0	545.19	367.60	1443.99
24	.00	.00	.00	1652.0	493.58	365.68	1089.12
25	.00	.00	.00	1502.0	470.63	364.82	986.61
26	.00	.00	.00	1614.5	501.14	365.96	1065.43
27	.00	.00	.00	2064.0	525.29	366.86	1366.88
28	.00	.00	.00	2513.5	586.63	369.15	1676.63
29	.00	.00	.00	4163.5	759.22	375.43	2809.97
30	.00	.00	.00	3544.0	670.51	372.28	2381.67
31	.00	.00	.00	4614.5	634.73	370.95	3119.23
32	.00	.00	.00	2626.0	602.24	369.73	1754.88
33	.00	.00	.00	2102.0	500.29	365.93	1389.96
34	.00	.00	.00	2495.0	666.29	372.13	1674.31
35	.00	.00	.00	2062.5	589.84	369.27	1371.54
36	.00	.00	.00	2345.5	548.27	367.72	1559.20
37	.00	.00	.00	2289.5	501.71	365.98	1507.10
38	.00	.00	.00	2045.0	494.97	365.73	1344.61
39	612.91	.00	.00	6151.4	706.01	373.61	3846.97
40	.00	.00	.00	2269.0	590.79	369.31	1507.93
41	.00	.00	.00	2102.0	584.52	369.07	1401.30
42	.00	.00	.00	2737.5	590.71	369.30	1816.79
43	.00	.00	.00	4788.5	759.49	375.44	3284.01
44	.00	.00	.00	6688.0	839.36	377.60	4622.18
45	.00	.00	.00	4482.0	740.54	374.90	3034.69
46	.00	.00	.00	3337.5	686.62	372.89	2243.72
47	.00	.00	.00	2137.5	578.63	368.85	1421.41
48	.00	.00	.00	2456.5	617.53	370.31	1644.77
49	.00	.00	.00	2775.5	608.60	369.97	1851.48
50	.00	.00	.00	3301.0	642.79	371.25	2226.44
51	.00	.00	.00	6262.5	842.94	377.69	4346.38
52	.00	.00	.00	3112.5	680.11	372.64	2077.46
53	.00	.00	.00	2550.0	586.36	369.14	1692.16
54	.00	.00	.00	1427.0	452.75	364.15	933.92
55	.00	.00	.00	1352.0	449.65	364.04	886.85
56	.00	.00	.00	3377.0	627.71	370.69	2274.00
57	.00	.00	.00	2776.0	592.17	369.36	1852.93
58	.00	.00	.00	3489.5	595.91	369.50	2369.46
59	.00	.00	.00	3188.5	675.88	372.48	2152.96
60	.00	.00	.00	3057.5	672.68	372.36	2057.78
61	.00	.00	.00	3500.0	592.17	369.36	2300.67
62	.00	.00	.00	2364.5	589.92	369.27	1587.45
63	.00	.00	.00	3638.0	671.75	372.33	2433.77
64	.00	.00	.00	4737.5	703.89	373.53	3246.18
65	.00	.00	.00	2981.5	672.21	372.35	1993.76
66	.00	.00	.00	2175.0	622.62	370.50	1453.73
67	.00	.00	.00	1727.0	544.74	367.59	1145.72
68	.00	.00	.00	2250.0	657.58	371.80	1511.86
69	.00	.00	.00	2737.5	690.13	373.02	1843.40
70	.00	.00	.00	2119.5	537.90	367.33	1404.21
71	.00	.00	.00	3938.0	658.98	371.85	2658.69
72	.00	.00	.00	4201.0	705.16	373.58	2812.18
73	.00	.00	.00	2587.5	636.19	371.00	1725.93
74	.00	.00	.00	1352.0	448.83	364.01	886.07
75	.00	.00	.00	1652.0	480.05	365.17	1087.37
76	.00	.00	.00	2588.5	552.70	367.88	1722.73
77	.00	.00	.00	6013.5	704.01	373.53	4093.43
78	.00	.00	.00	4425.0	743.19	375.00	3006.76
79	.00	.00	.00	2925.0	675.05	372.45	1955.45

80	.00	.00	.00	2250.0	559.37	368.13	1491.09
81	.00	.00	.00	1952.0	482.61	365.27	1288.96
82	.00	.00	.00	2363.0	541.34	367.46	1559.92
83	.00	.00	.00	2737.5	590.38	369.29	1819.77
84	.00	.00	.00	2607.0	588.33	369.22	1731.89
85	.00	.00	.00	1800.0	600.89	369.68	1201.07
86	.00	.00	.00	2250.0	523.82	366.81	1486.90
87	.00	.00	.00	2720.5	476.18	365.03	1782.34
88	.00	.00	.00	1877.0	527.63	366.95	1244.29
89	.00	.00	.00	3075.0	679.06	372.60	2056.97
90	.00	.00	.00	2325.0	629.14	370.74	1552.01
91	.00	.00	.00	2175.0	524.91	366.85	1437.38
92	.00	.00	.00	2007.5	538.42	367.35	1331.04
93	.00	.00	.00	2888.0	652.74	371.62	1940.22
94	.00	.00	.00	3357.5	604.93	369.83	2240.11
95	.00	.00	.00	3582.0	743.58	375.01	2419.87
96	.00	.00	.00	3300.0	656.97	371.78	2212.34
97	.00	.00	.00	6282.0	909.72	379.50	4371.05
98	.00	.00	.00	5525.0	799.87	376.53	3819.32
99	.00	.00	.00	3282.0	733.59	374.64	2222.88
100	.00	.00	.00	3825.0	755.39	375.33	2593.54
TOTAL 1022.69				.00			
ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO:				275.59	MILL M^3		
ENERGÍA PROMEDIO GENERADA EN LOS 100 AÑOS:				82.44	GWH		

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX RESUMEN QUINCENAL XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

	P R O M E D I O S		
	ELEVACIÓN MSNM	ALMACENAMIENTO MILL M^3	ENERGÍA GWH
1Q ENE	371.85	663.09	60.49
2Q ENE	371.55	659.35	49.48
1Q FEB	371.32	648.58	26.91
2Q FEB	371.10	643.26	24.01
1Q MAR	370.97	638.96	23.98
2Q MAR	370.84	635.04	24.21
1Q ABR	370.87	640.67	25.09
2Q ABR	371.02	644.62	25.11
1Q MAY	371.12	647.99	26.06
2Q MAY	371.18	650.61	26.34
1Q JUN	369.06	527.77	157.00
2Q JUN	366.39	499.22	92.09
1Q JUL	364.29	415.23	181.18
2Q JUL	361.82	365.76	191.00
1Q AGO	363.00	478.81	138.51
2Q AGO	366.36	548.28	169.74
1Q SEP	368.73	610.28	117.18
2Q SEP	370.83	673.06	131.36
1Q OCT	372.03	687.10	73.92
2Q OCT	372.36	696.25	75.20
1Q NOV	372.67	703.62	113.15
2Q NOV	372.75	696.71	92.06
1Q DIC	372.43	681.25	72.47
2Q DIC	372.10	673.98	62.01

\*\*-\*\*\*-\*\*-\*\* SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO \*\*-\*\*\*-\*\*-\*\*

PRESA: AGUAMILPA

QUINCENA	ALM. INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****1*****									
1Q ENE	2600.00	3.61	1.286	712.50	712.50	712.50	.00	.00	482.16
2Q ENE	2339.82	3.61	1.245	712.50	712.50	712.50	.00	.00	476.83
1Q FEB	1967.19	4.29	3.177	375.00	375.00	375.00	.00	.00	248.76
2Q FEB	1855.80	4.29	3.125	244.00	244.00	244.00	.00	.00	161.11
1Q MAR	1725.47	1.49	4.728	244.00	244.00	244.00	.00	.00	160.28
2Q MAR	1590.73	1.49	4.628	206.50	206.50	206.50	.00	.00	134.97
1Q ABR	1475.09	2.92	5.389	169.00	169.00	169.00	.00	.00	109.98
2Q ABR	1378.62	2.92	5.301	131.50	131.50	131.50	.00	.00	85.26
1Q MAY	1301.24	10.52	5.209	131.50	131.50	131.50	.00	.00	85.00
2Q MAY	1231.55	10.52	5.147	112.50	112.50	112.50	.00	.00	72.53
1Q JUN	1180.93	57.31	-1.807	375.00	375.00	375.00	.00	.00	241.80
2Q JUN	1240.04	57.31	-1.828	225.00	225.00	225.00	.00	.00	145.45
1Q JUL	1299.18	308.69	-12.496	900.00	900.00	900.00	.00	.00	579.00
2Q JUL	1020.37	308.69	-11.892	825.00	825.00	825.00	.00	.00	525.94
1Q AGO	890.95	728.25	-9.932	600.00	600.00	600.00	.00	.00	384.49
2Q AGO	1254.13	728.25	-10.550	900.00	900.00	900.00	.00	.00	586.72
1Q SEP	1692.93	184.00	-7.572	675.00	675.00	675.00	.00	.00	444.37
2Q SEP	1734.50	184.00	-7.620	675.00	675.00	675.00	.00	.00	444.45
1Q OCT	1701.12	42.47	.005	75.00	75.00	75.00	.00	.00	49.39
2Q OCT	1743.59	42.47	.005	75.00	75.00	75.00	.00	.00	49.47
1Q NOV	1786.06	8.72	1.628	75.00	75.00	75.00	.00	.00	49.66
2Q NOV	1943.15	8.72	1.666	75.00	75.00	75.00	.00	.00	49.82
1Q DIC	1950.20	9.53	1.221	375.00	375.00	375.00	.00	.00	247.91
2Q DIC	1696.01	9.53	1.175	300.00	300.00	300.00	.00	.00	196.66
*****2*****									
1Q ENE	1516.87	2.44	1.103	225.00	225.00	225.00	.00	.00	146.51
2Q ENE	1368.20	2.44	1.076	187.50	187.50	187.50	.00	.00	121.43
1Q FEB	1257.07	2.91	2.836	94.00	81.80	81.80	.00	.00	52.80
2Q FEB	1212.84	2.91	2.811	94.00	81.80	81.80	.00	.00	52.70
1Q MAR	1168.64	1.01	4.299	94.00	89.61	89.61	.00	.00	57.61
2Q MAR	1113.23	1.01	4.254	75.00	70.61	70.61	.00	.00	45.30
1Q ABR	1076.88	1.97	5.015	75.00	72.76	72.76	.00	.00	46.60
2Q ABR	1038.57	1.97	4.977	75.00	72.76	72.76	.00	.00	46.52
1Q MAY	1000.30	7.12	4.917	75.00	72.48	72.48	.00	.00	46.26
2Q MAY	967.53	7.12	4.884	56.50	53.98	53.98	.00	.00	34.42
1Q JUN	953.29	38.80	-1.725	75.00	75.00	75.00	.00	.00	47.93
2Q JUN	1068.82	38.80	-1.765	75.00	75.00	75.00	.00	.00	48.18
1Q JUL	1184.38	136.15	-12.082	750.00	750.10	750.10	.00	.00	479.01
2Q JUL	807.51	136.15	-11.226	450.00	450.10	450.10	.00	.00	283.92
1Q AGO	654.78	269.89	-9.093	225.00	146.83	146.83	.00	.00	92.74
2Q AGO	861.93	269.89	-9.440	450.00	371.83	371.83	.00	.00	235.92
1Q SEP	844.43	325.19	-6.614	75.00	75.00	75.00	.00	.00	47.93
2Q SEP	1176.23	325.19	-7.038	75.00	75.00	75.00	.00	.00	48.63
1Q OCT	1508.46	164.51	.005	75.00	75.00	75.00	.00	.00	49.13
2Q OCT	1672.96	164.51	.005	75.00	75.00	75.00	.00	.00	49.45
1Q NOV	1837.47	16.00	1.641	75.00	76.74	76.74	.00	.00	50.77
2Q NOV	1850.09	16.00	1.644	75.00	76.74	76.74	.00	.00	50.80
1Q DIC	1862.71	6.92	1.205	337.50	333.83	333.83	.00	.00	220.12
2Q DIC	1647.10	6.92	1.166	262.50	258.83	258.83	.00	.00	169.34

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1469.02	2.87	1.094	225.00	225.00	225.00	.00	.00	146.22
2Q ENE	1320.80	2.87	1.067	187.50	187.50	187.50	.00	.00	121.19
1Q FEB	1210.10	3.42	2.810	94.00	81.87	81.87	.00	.00	52.74
2Q FEB	1166.34	3.42	2.785	94.00	81.87	81.87	.00	.00	52.64
1Q MAR	1122.61	1.19	4.262	75.00	70.73	70.73	.00	.00	45.39
2Q MAR	1086.31	1.19	4.233	75.00	70.73	70.73	.00	.00	45.32
1Q ABR	1050.03	2.32	4.989	75.00	72.81	72.81	.00	.00	46.57
2Q ABR	1012.06	2.32	4.952	75.00	72.81	72.81	.00	.00	46.49
1Q MAY	974.12	8.38	4.892	56.50	54.25	54.25	.00	.00	34.60
2Q MAY	960.86	8.38	4.878	56.50	54.25	54.25	.00	.00	34.58
1Q JUN	947.62	45.65	-1.724	75.00	75.00	75.00	.00	.00	47.93
2Q JUN	1070.00	45.65	-1.766	75.00	75.00	75.00	.00	.00	48.11
1Q JUL	1117.41	92.17	-11.865	675.00	675.07	675.07	.00	.00	430.08
2Q JUL	771.38	92.17	-11.119	375.00	375.07	375.07	.00	.00	235.91
1Q AGO	574.60	182.70	-8.902	225.00	129.46	129.46	.00	.00	81.31
2Q AGO	711.75	182.70	-9.114	375.00	279.46	279.46	.00	.00	176.07
1Q SEP	699.10	220.14	-6.379	75.00	75.00	75.00	.00	.00	47.49
2Q SEP	925.62	220.14	-6.651	75.00	75.00	75.00	.00	.00	47.99
1Q OCT	1152.41	111.37	.004	75.00	75.00	75.00	.00	.00	48.35
2Q OCT	1263.77	111.37	.005	75.00	75.00	75.00	.00	.00	48.59
1Q NOV	1375.14	10.83	1.522	75.00	75.03	75.03	.00	.00	48.73
2Q NOV	1384.42	10.83	1.525	75.00	75.03	75.03	.00	.00	48.75
1Q DIC	1393.69	4.69	1.117	150.00	143.48	143.48	.00	.00	93.04
2Q DIC	1291.28	4.69	1.098	150.00	143.48	143.48	.00	.00	92.64

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1188.89	2.99	1.042	112.50	112.50	112.50	.00	.00	72.36
2Q ENE	1115.84	2.99	1.027	75.00	75.00	75.00	.00	.00	48.12
1Q FEB	1080.30	2.27	2.739	56.50	44.39	44.39	.00	.00	28.44
2Q FEB	1054.45	2.27	2.725	56.50	44.39	44.39	.00	.00	28.41
1Q MAR	1028.60	1.60	4.185	56.50	51.97	51.97	.00	.00	33.21
2Q MAR	993.05	1.60	4.156	56.50	51.97	51.97	.00	.00	33.16
1Q ABR	957.52	1.13	4.897	37.50	35.41	35.41	.00	.00	22.57
2Q ABR	937.34	1.13	4.877	37.50	35.41	35.41	.00	.00	22.55
1Q MAY	917.19	.81	4.832	37.50	34.33	34.33	.00	.00	21.84
2Q MAY	897.83	.81	4.815	37.50	34.33	34.33	.00	.00	21.82
1Q JUN	878.50	9.46	-1.696	75.00	75.00	75.00	.00	.00	47.74
2Q JUN	964.66	9.46	-1.724	75.00	75.00	75.00	.00	.00	47.85
1Q JUL	975.84	108.44	-11.565	600.00	600.27	600.27	.00	.00	380.05
2Q JUL	645.58	108.44	-10.898	300.00	300.27	300.27	.00	.00	188.12
1Q AGO	539.65	214.96	-8.872	225.00	135.89	135.89	.00	.00	85.26
2Q AGO	702.59	214.96	-9.124	300.00	210.89	210.89	.00	.00	133.13
1Q SEP	790.79	259.01	-6.499	75.00	75.00	75.00	.00	.00	47.74
2Q SEP	1056.30	259.01	-6.847	75.00	75.00	75.00	.00	.00	48.31
1Q OCT	1322.15	131.03	.005	75.00	75.00	75.00	.00	.00	48.73
2Q OCT	1453.18	131.03	.005	75.00	75.00	75.00	.00	.00	48.99
1Q NOV	1584.20	12.74	1.577	75.00	75.66	75.66	.00	.00	49.57
2Q NOV	1594.71	12.74	1.580	75.00	75.66	75.66	.00	.00	49.59
1Q DIC	1605.21	5.51	1.158	225.00	219.53	219.53	.00	.00	143.39
2Q DIC	1427.52	5.51	1.124	187.50	182.03	182.03	.00	.00	118.11

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	1287.38	9.91	1.062	150.00	150.00	150.00	.00	.00	96.82
2Q ENE	1183.72	9.91	1.041	112.50	112.50	112.50	.00	.00	72.35
1Q FEB	1117.59	5.68	2.760	56.50	45.48	45.48	.00	.00	29.19
2Q FEB	1094.03	5.68	2.747	56.50	45.48	45.48	.00	.00	29.16
1Q MAR	1070.48	5.59	4.221	56.50	52.74	52.74	.00	.00	33.77
2Q MAR	1038.11	5.59	4.195	56.50	52.74	52.74	.00	.00	33.72
1Q ABR	1005.76	1.93	4.945	56.50	55.43	55.43	.00	.00	35.39
2Q ABR	966.31	1.93	4.906	37.50	36.43	36.43	.00	.00	23.23
1Q MAY	945.90	79.26	4.899	37.50	34.95	34.95	.00	.00	22.30
2Q MAY	1004.32	79.26	4.956	56.50	53.95	53.95	.00	.00	34.50
1Q JUN	1043.68	50.45	-1.758	75.00	116.39	116.39	.00	.00	74.52
2Q JUN	1054.49	50.45	-1.762	75.00	116.39	116.39	.00	.00	74.55
1Q JUL	1065.31	170.63	-11.836	675.00	675.04	675.04	.00	.00	429.83
2Q JUL	797.74	170.63	-11.240	450.00	450.04	450.04	.00	.00	283.98
1Q AGO	679.57	597.19	-9.404	375.00	310.45	310.45	.00	.00	197.06
2Q AGO	1050.71	597.19	-10.084	750.00	685.45	685.45	.00	.00	441.02
1Q SEP	1272.53	221.80	-7.093	225.00	278.10	278.10	.00	.00	180.75
2Q SEP	1523.32	221.80	-7.396	300.00	353.10	353.10	.00	.00	231.17
1Q OCT	1624.41	77.90	.005	75.00	75.00	75.00	.00	.00	49.35
2Q OCT	1777.31	77.90	.005	75.00	75.00	75.00	.00	.00	49.64
1Q NOV	1930.20	10.98	1.663	75.00	75.00	75.00	.00	.00	49.80
2Q NOV	1939.52	10.98	1.665	75.00	75.00	75.00	.00	.00	49.81
1Q DIC	1948.84	3.68	1.220	375.00	368.56	368.56	.00	.00	243.65
2Q DIC	1695.23	3.68	1.174	262.50	256.06	256.06	.00	.00	167.85

QUINCENA	ALM.INICIAL	INGRESO	VOL EVAP	EXT POL	EXT MODIF	EXT TOTAL	DERRAME	DEFICIT	ENERGÍA
	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	MILL M^3	(GWH)
*****									
1Q ENE	1516.67	5.34	1.103	225.00	225.00	225.00	.00	.00	146.52
2Q ENE	1370.91	5.34	1.076	187.50	187.50	187.50	.00	.00	121.45
1Q FEB	1262.67	3.75	2.839	94.00	82.26	82.26	.00	.00	53.11
2Q FEB	1218.82	3.75	2.815	94.00	82.26	82.26	.00	.00	53.01
1Q MAR	1175.00	2.79	4.306	94.00	89.80	89.80	.00	.00	57.75
2Q MAR	1121.18	2.79	4.261	75.00	70.80	70.80	.00	.00	45.44
1Q ABR	1086.40	2.22	5.024	56.50	54.72	54.72	.00	.00	35.06
2Q ABR	1047.88	2.22	4.987	56.50	54.72	54.72	.00	.00	35.00
1Q MAY	1009.40	1.73	4.923	56.50	54.17	54.17	.00	.00	34.59
2Q MAY	971.04	1.73	4.885	37.50	35.17	35.17	.00	.00	22.43
1Q JUN	951.72	3.50	-1.718	75.00	75.00	75.00	.00	.00	47.89
2Q JUN	1031.94	3.50	-1.746	75.00	75.00	75.00	.00	.00	47.99
1Q JUL	1037.18	65.58	-11.656	600.00	600.30	600.30	.00	.00	380.78
2Q JUL	664.12	65.58	-10.893	375.00	375.30	375.30	.00	.00	235.10
1Q AGO	515.29	158.18	-8.789	150.00	75.00	75.00	.00	.00	47.00
2Q AGO	682.26	158.18	-9.050	525.00	418.96	418.96	.00	.00	263.48
1Q SEP	655.53	110.99	-6.273	75.00	75.00	75.00	.00	.00	47.27
2Q SEP	772.79	110.99	-6.399	75.00	75.00	75.00	.00	.00	47.62
1Q OCT	965.18	93.52	.004	75.00	75.00	75.00	.00	.00	47.94
2Q OCT	1058.70	93.52	.004	75.00	75.00	75.00	.00	.00	48.14
1Q NOV	1152.21	16.20	1.463	75.00	75.00	75.00	.00	.00	48.25
2Q NOV	1166.95	16.20	1.467	75.00	75.00	75.00	.00	.00	48.28
1Q DIC	1181.68	11.56	1.077	150.00	146.44	146.44	.00	.00	94.18
2Q DIC	1120.73	11.56	1.064	75.00	71.44	71.44	.00	.00	45.86

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1097.28	8.93	1.024	112.50	112.50	112.50	.00	.00	72.13
2Q ENE	1067.69	8.93	1.018	112.50	112.50	112.50	.00	.00	72.04
1Q FEB	1038.10	9.59	2.719	56.50	45.33	45.33	.00	.00	28.99
2Q FEB	1018.64	9.59	2.708	56.50	45.33	45.33	.00	.00	28.97
1Q MAR	999.19	3.11	4.162	56.50	53.63	53.63	.00	.00	34.23
2Q MAR	963.52	3.11	4.132	37.50	34.63	34.63	.00	.00	22.07
1Q ABR	946.87	6.76	4.889	37.50	35.80	35.80	.00	.00	22.80
2Q ABR	931.94	6.76	4.874	37.50	35.80	35.80	.00	.00	22.79
1Q MAY	917.03	10.76	4.836	37.50	38.66	38.66	.00	.00	24.60
2Q MAY	903.29	10.76	4.823	37.50	38.66	38.66	.00	.00	24.58
1Q JUN	889.57	43.85	-1.704	75.00	75.00	75.00	.00	.00	47.80
2Q JUN	1010.12	43.85	-1.745	75.00	75.00	75.00	.00	.00	47.98
1Q JUL	1055.72	217.21	-11.867	600.00	600.08	600.08	.00	.00	382.35
2Q JUL	834.72	217.21	-11.365	600.00	600.08	600.08	.00	.00	379.07
1Q AGO	688.22	512.43	-9.340	450.00	403.85	403.85	.00	.00	255.84
2Q AGO	956.14	512.43	-9.846	750.00	703.85	703.85	.00	.00	450.68
1Q SEP	1149.56	129.47	-6.887	225.00	251.72	251.72	.00	.00	162.53
2Q SEP	1334.20	129.47	-7.112	225.00	251.72	251.72	.00	.00	163.55
1Q OCT	1444.06	29.88	.005	75.00	75.00	75.00	.00	.00	48.95
2Q OCT	1548.94	29.88	.005	75.00	75.00	75.00	.00	.00	49.16
1Q NOV	1653.81	6.14	1.594	75.00	75.00	75.00	.00	.00	49.34
2Q NOV	1733.36	6.14	1.614	75.00	75.00	75.00	.00	.00	49.56
1Q DIC	1887.89	6.71	1.209	337.50	328.40	328.40	.00	.00	216.61
2Q DIC	1639.99	6.71	1.164	262.50	253.40	253.40	.00	.00	165.75

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1467.14	166.26	1.109	225.00	225.00	225.00	.00	.00	146.71
2Q ENE	1482.29	166.26	1.112	187.50	187.50	187.50	.00	.00	122.33
1Q FEB	1497.44	98.55	2.976	112.50	126.23	126.23	.00	.00	82.37
2Q FEB	1485.78	98.55	2.971	131.50	145.23	145.23	.00	.00	94.72
1Q MAR	1473.62	81.38	4.570	131.50	148.75	148.75	.00	.00	96.92
2Q MAR	1439.18	81.38	4.543	131.50	148.75	148.75	.00	.00	96.78
1Q ABR	1404.77	93.67	5.366	131.50	149.83	149.83	.00	.00	97.41
2Q ABR	1399.74	93.67	5.362	150.00	168.33	168.33	.00	.00	109.41
1Q MAY	1394.72	103.67	5.334	150.00	218.04	218.04	.00	.00	141.57
2Q MAY	1350.01	103.67	5.293	169.00	237.04	237.04	.00	.00	153.61
1Q JUN	1305.35	335.76	-1.892	600.00	656.26	656.26	.00	.00	427.37
2Q JUN	1586.75	335.76	-1.979	600.00	656.26	656.26	.00	.00	430.35
1Q JUL	1643.23	691.65	-13.586	900.00	898.44	898.44	.00	.00	592.78
2Q JUL	1900.02	691.65	-14.076	900.00	898.44	898.44	.00	.00	596.09
1Q AGO	1932.31	415.56	-11.401	900.00	900.00	900.00	.00	.00	594.65
2Q AGO	1684.27	415.56	-11.006	900.00	900.00	900.00	.00	.00	588.86
1Q SEP	1435.84	259.36	-7.314	150.00	146.56	146.56	.00	.00	95.79
2Q SEP	1630.95	259.36	-7.544	300.00	296.56	296.56	.00	.00	195.06
1Q OCT	1751.29	36.10	.005	75.00	75.00	75.00	.00	.00	49.48
2Q OCT	1787.38	36.10	.005	75.00	75.00	75.00	.00	.00	49.55
1Q NOV	1823.48	13.18	1.637	75.00	75.00	75.00	.00	.00	49.60
2Q NOV	1835.02	13.18	1.640	75.00	75.00	75.00	.00	.00	49.62
1Q DIC	1846.56	2.33	1.202	300.00	294.78	294.78	.00	.00	194.23
2Q DIC	1627.91	2.33	1.162	262.50	257.28	257.28	.00	.00	168.18

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1446.80	15.91	1.091	225.00	225.00	225.00	.00	.00	146.13
2Q ENE	1311.62	15.91	1.067	187.50	187.50	187.50	.00	.00	121.17
1Q FEB	1213.97	9.12	2.813	75.00	64.93	64.93	.00	.00	41.84
2Q FEB	1174.34	9.12	2.791	75.00	64.93	64.93	.00	.00	41.77
1Q MAR	1134.73	8.97	4.275	75.00	72.02	72.02	.00	.00	46.23
2Q MAR	1086.41	8.97	4.236	56.50	53.52	53.52	.00	.00	34.30
1Q ABR	1056.63	3.10	4.996	56.50	56.30	56.30	.00	.00	36.02
2Q ABR	1017.43	3.10	4.957	56.50	56.30	56.30	.00	.00	35.96
1Q MAY	978.28	127.25	4.954	56.50	54.85	54.85	.00	.00	35.07
2Q MAY	1064.73	127.25	5.037	56.50	54.85	54.85	.00	.00	35.21
1Q JUN	1151.10	81.00	-1.800	75.00	145.61	145.61	.00	.00	93.67
2Q JUN	1163.28	81.00	-1.805	150.00	220.61	220.61	.00	.00	141.76
1Q JUL	1100.47	632.74	-12.418	750.00	749.87	749.87	.00	.00	483.24
2Q JUL	1295.76	632.74	-12.828	900.00	899.87	899.87	.00	.00	583.86
1Q AGO	1416.46	1112.59	-11.136	900.00	900.00	900.00	.00	.00	591.55
2Q AGO	1940.19	1112.59	-11.945	900.00	900.00	900.00	.00	.00	604.09
1Q SEP	2539.73	1534.19	-9.151	750.00	900.00	1603.76	703.76	.00	611.42
2Q SEP	2629.31	1534.19	-9.245	900.00	900.00	1993.43	1093.43	.00	612.34
1Q OCT	2629.31	1717.85	.006	525.00	687.91	2141.25	1453.33	.00	468.04
2Q OCT	2629.31	1717.85	.006	900.00	900.00	2529.22	1629.22	.00	612.34
1Q NOV	2629.31	108.43	1.835	825.00	876.60	876.60	.00	.00	595.22
2Q NOV	2509.31	108.43	1.808	675.00	726.60	726.60	.00	.00	492.21
1Q DIC	2489.33	38.67	1.315	637.50	684.76	684.76	.00	.00	460.29
2Q DIC	2066.93	38.67	1.244	637.50	684.76	684.76	.00	.00	454.87

QUINCENA	ALM.INICIAL MILL M^3	INGRESO MILL M^3	VOL EVAP MILL M^3	EXT POL MILL M^3	EXT MODIF MILL M^3	EXT TOTAL MILL M^3	DERRAME MILL M^3	DEFICIT MILL M^3	ENERGÍA (GWH)
*****									
1Q ENE	1832.09	8.61	1.160	375.00	375.00	375.00	.00	.00	246.96
2Q ENE	1614.54	8.61	1.121	337.50	337.50	337.50	.00	.00	220.51
1Q FEB	1434.53	6.04	2.922	150.00	138.78	138.78	.00	.00	90.19
2Q FEB	1355.37	6.04	2.882	131.50	120.28	120.28	.00	.00	77.94
1Q MAR	1294.75	4.50	4.405	131.50	127.82	127.82	.00	.00	82.59
2Q MAR	1223.53	4.50	4.349	94.00	90.32	90.32	.00	.00	58.21
1Q ABR	1170.85	3.58	5.106	94.00	92.65	92.65	.00	.00	59.57
2Q ABR	1114.17	3.58	5.051	75.00	73.65	73.65	.00	.00	47.25
1Q MAY	1076.55	2.79	4.989	75.00	73.71	73.71	.00	.00	47.21
2Q MAY	1038.14	2.79	4.951	75.00	73.71	73.71	.00	.00	47.13
1Q JUN	999.76	5.64	-1.735	225.00	219.83	219.83	.00	.00	140.94
2Q JUN	1162.30	5.64	-1.791	150.00	144.83	144.83	.00	.00	93.37
1Q JUL	1249.90	105.29	-12.180	750.00	750.29	750.29	.00	.00	480.21
2Q JUL	842.09	105.29	-11.261	525.00	525.29	525.29	.00	.00	331.03
1Q AGO	583.35	253.95	-8.971	300.00	209.64	209.64	.00	.00	131.70
2Q AGO	711.62	253.95	-9.167	600.00	509.64	509.64	.00	.00	321.60
1Q SEP	765.10	178.20	-6.427	75.00	75.00	75.00	.00	.00	47.68
2Q SEP	1024.73	178.20	-6.753	75.00	75.00	75.00	.00	.00	48.32
1Q OCT	1359.68	150.14	.005	75.00	75.00	75.00	.00	.00	48.90
2Q OCT	1584.81	150.14	.005	75.00	75.00	75.00	.00	.00	49.34
1Q NOV	1809.95	26.00	1.636	75.00	76.27	76.27	.00	.00	50.50
2Q NOV	1908.04	26.00	1.660	75.00	76.27	76.27	.00	.00	50.68
1Q DIC	2006.10	18.55	1.231	375.00	376.84	376.84	.00	.00	249.70
2Q DIC	1759.08	18.55	1.187	337.50	339.34	339.34	.00	.00	222.87



***** RESUMEN ANUAL *****							
AÑO	DERRAME MILL M^3	DEFICIT MILL M^3	ING HIST MILL M^3	EXT TOTAL MILL M^3	ALMAC PRO MILL M^3	ELEV PRO (MSNM)	ENER TOTAL (GWH)
1	.00	.00	2723.60	9189.0	1563.15	209.41	6012.00
2	.00	.00	1945.82	3923.3	1233.43	205.76	2524.04
3	.00	.00	1371.46	3317.9	1073.76	203.92	2120.75
4	.00	.00	1499.90	2769.9	1075.43	203.94	1769.03
5	.00	.00	2470.00	4549.3	1264.41	206.11	2933.43
6	.00	.00	950.72	3223.8	1013.20	203.21	2054.13
7	.00	.00	1969.68	4395.9	1169.99	205.03	2822.37
8	.00	.00	4594.94	7959.3	1590.20	209.70	5223.45
9	4879.74	.00	10779.64	15946.5	1669.17	210.54	7378.59
10	.00	.00	1526.58	5031.7	1276.61	206.25	3244.38
11	.00	.00	3409.36	8569.2	1533.43	209.09	5606.90
12	53.40	.00	3163.66	6396.5	1459.51	208.28	4142.31
13	.00	.00	2787.78	6030.6	1371.74	207.31	3903.17
14	.00	.00	3578.96	6851.0	1477.24	208.48	4464.06
15	.00	.00	3290.72	6261.0	1455.89	208.24	4066.31
16	.00	.00	1433.18	3901.0	1139.57	204.68	2500.15
17	.00	.00	1673.74	3760.6	1014.85	203.22	2395.27
18	.00	.00	1316.06	2821.7	948.62	202.44	1792.02
19	.00	.00	2046.52	4387.8	1221.75	205.63	2817.96
20	.00	.00	2323.96	5274.6	1173.55	205.07	3386.35
21	.00	.00	3054.28	4521.4	1262.97	206.09	2913.34
22	.00	.00	2164.68	4495.2	1203.31	205.41	2884.40
23	.00	.00	2554.94	4544.3	1140.67	204.69	2909.06
24	.00	.00	986.52	3066.9	938.76	202.32	1946.07
25	.00	.00	2163.34	3294.4	1099.03	204.21	2106.66
26	.00	.00	2671.74	4107.9	1267.69	206.15	2644.63
27	.00	.00	2604.80	4961.3	1215.32	205.55	3196.08
28	.00	.00	2450.18	5288.5	1232.97	205.75	3412.79
29	.00	.00	2721.90	6140.1	1290.09	206.40	3960.99
30	.00	.00	3104.94	6831.7	1399.30	207.62	4425.01
31	.00	.00	4082.44	8322.3	1546.39	209.23	5484.04
32	.00	.00	2638.06	6235.3	1326.13	206.81	4045.27
33	.00	.00	1933.82	3721.1	1069.79	203.87	2373.14
34	.00	.00	2851.38	5096.7	1398.02	207.61	3294.30
35	.00	.00	1170.56	3744.0	1052.68	203.67	2390.02
36	.00	.00	2259.20	4327.1	1256.95	206.03	2780.48
37	.00	.00	2018.54	4364.1	1097.75	204.20	2791.07
38	.00	.00	1718.08	3963.6	1125.01	204.51	2530.81
39	4170.32	.00	9517.70	15021.5	1693.21	210.80	7218.30
40	.00	.00	1117.76	4134.2	1116.46	204.41	2648.78
41	.00	.00	1381.22	3510.6	1017.09	203.25	2236.55
42	.00	.00	2638.54	5211.5	1305.14	206.57	3351.97
43	.00	.00	2157.44	6963.8	1187.09	205.23	4460.27
44	1361.15	.00	6156.80	12337.5	1728.49	211.17	7347.87
45	.00	.00	2624.54	7239.3	1463.70	208.33	4689.80
46	.00	.00	2528.28	6034.5	1350.95	207.08	3901.13
47	.00	.00	1135.16	4014.0	974.02	202.74	2563.30
48	.00	.00	1494.80	3381.1	1025.40	203.35	2157.64
49	.00	.00	1084.14	4394.6	979.75	202.81	2805.32
50	.00	.00	3536.72	6179.8	1329.02	206.84	4014.16
51	5898.64	.00	10449.36	16544.7	1775.85	211.66	7141.58
52	.00	.00	2492.66	6017.4	1359.88	207.18	3880.10
53	.00	.00	2020.80	4625.3	1099.06	204.21	2963.18
54	.00	.00	1185.10	2949.8	999.98	203.05	1878.49
55	.00	.00	1902.38	3105.2	1036.53	203.48	1980.93
56	.00	.00	4404.48	7266.4	1556.91	209.34	4804.97
57	.00	.00	1894.10	4862.8	1308.10	206.60	3138.00
58	.00	.00	2239.26	5592.7	1334.28	206.90	3624.07
59	.00	.00	2642.94	6119.7	1328.65	206.83	3952.06
60	.00	.00	3073.06	6173.3	1448.33	208.16	4003.24
61	.00	.00	2106.84	5661.0	1255.37	206.01	3652.78
62	.00	.00	2198.04	4447.2	1280.80	206.30	2863.42
63	.00	.00	2800.24	6602.2	1341.78	206.98	4282.74
64	228.05	.00	5334.34	9634.4	1544.09	209.20	6212.62
65	.00	.00	2242.40	5576.3	1329.72	206.85	3592.89
66	.00	.00	1485.08	4056.3	1106.07	204.29	2596.40
67	.00	.00	1981.22	3571.6	1105.54	204.29	2282.79
68	.00	.00	1287.50	3534.0	1063.84	203.80	2255.97
69	.00	.00	2159.32	4749.4	1264.14	206.11	3059.63
70	.00	.00	1620.72	3948.8	1109.14	204.33	2520.88
71	.00	.00	3286.80	6819.4	1372.74	207.33	4422.55
72	.00	.00	3789.22	7978.2	1596.43	209.77	5202.06
73	.00	.00	1173.70	4545.4	1040.87	203.53	2905.05
74	.00	.00	2136.94	3376.9	1019.30	203.28	2158.77
75	.00	.00	1394.64	3051.0	971.76	202.71	1934.92
76	.00	.00	2094.76	4440.9	1182.53	205.18	2842.78
77	322.69	.00	4297.74	9853.5	1630.30	210.13	6328.24
78	.00	.00	3477.80	7935.4	1527.06	209.02	5183.75
79	.00	.00	2398.88	5697.8	1392.86	207.55	3679.13



## **ANEXO 4. REGLAS PARA LA OPERACIÓN**

A4.1 Curva guía con  $\Delta V=150$  millones de  $m^3$ . Limitada al NAMO

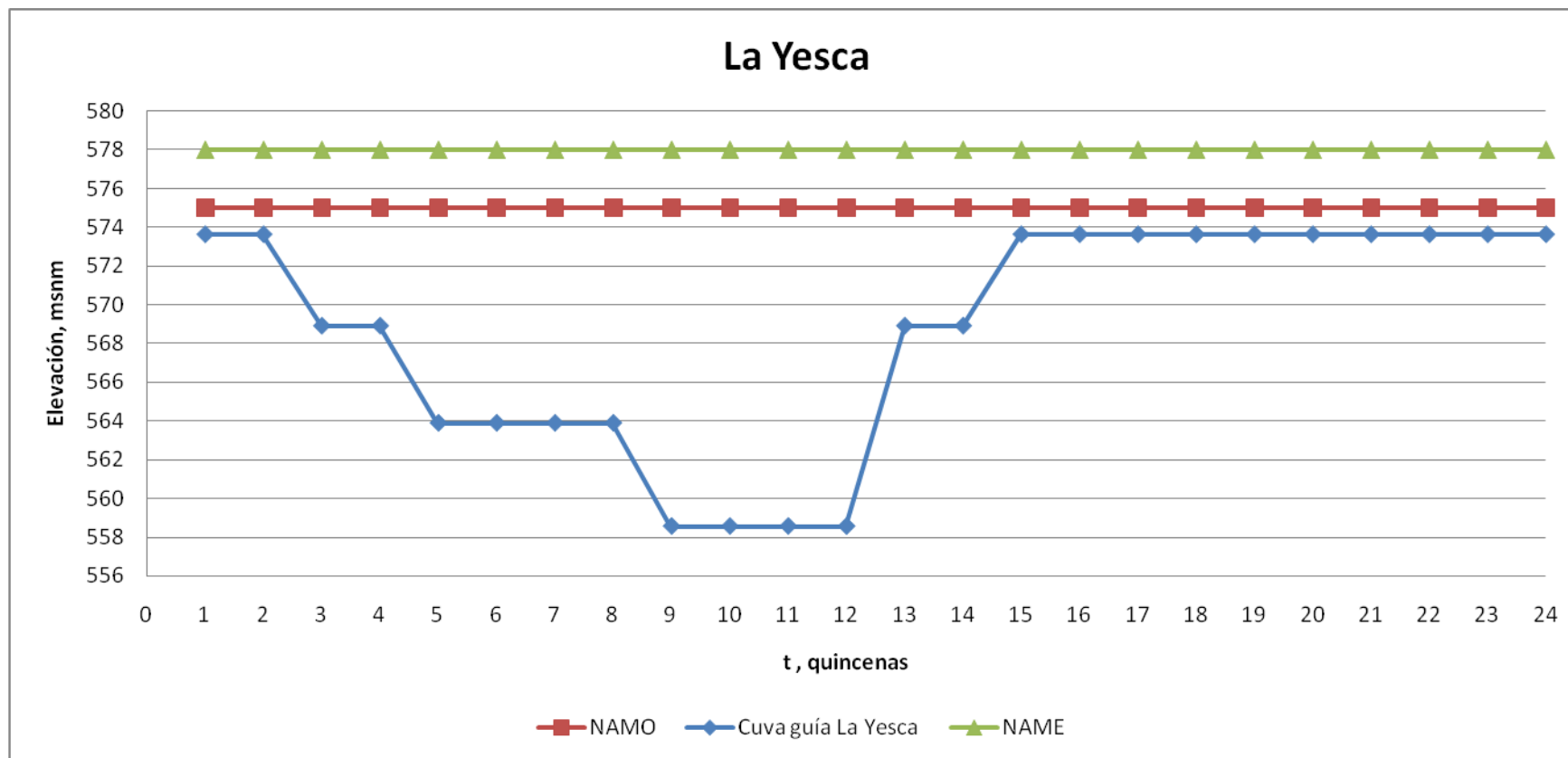


Figura A4.1 Curva guía propuesta. Política 12. Presa La Yesca

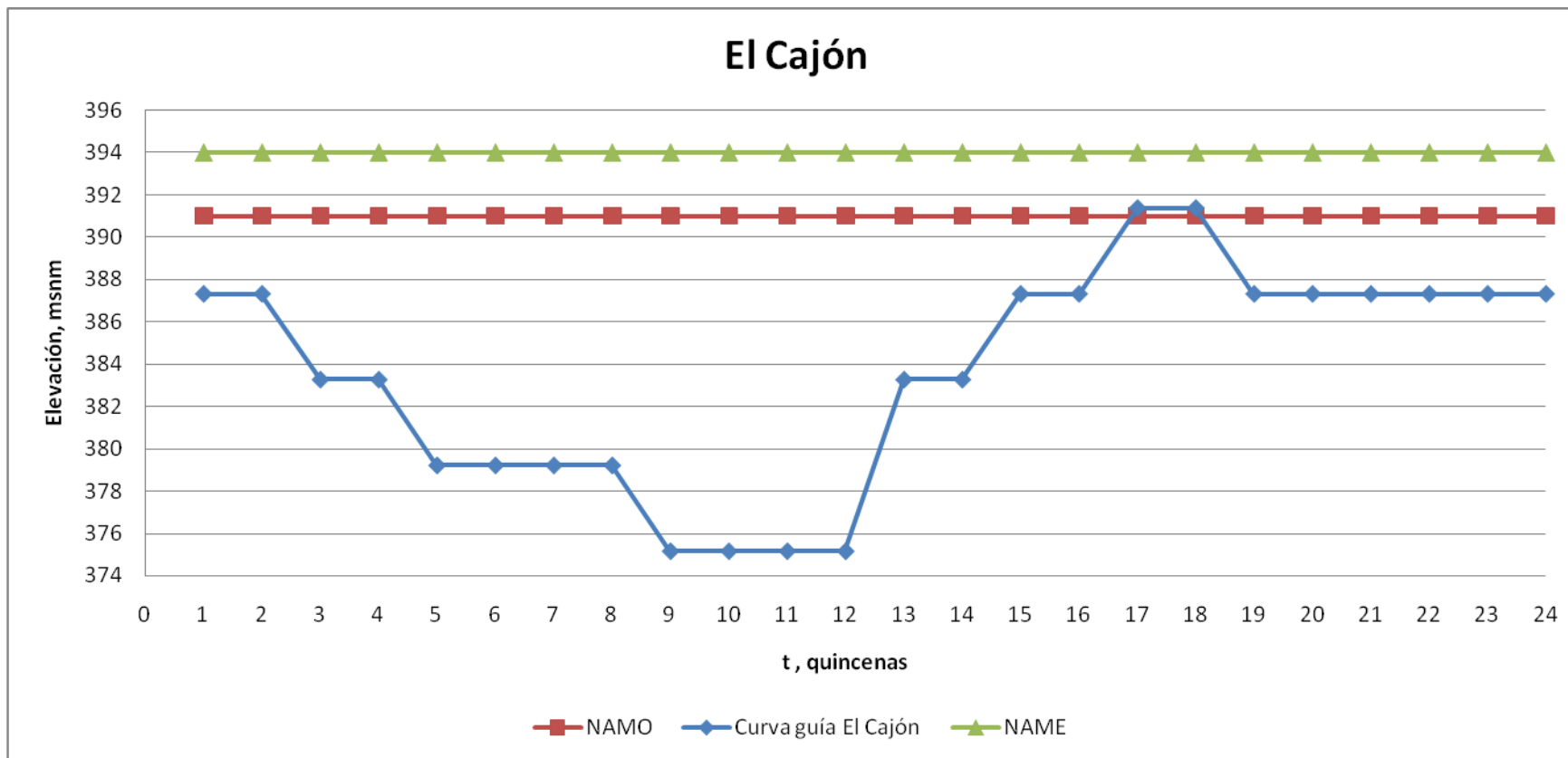


Figura A4.2 Curva guía propuesta. Política 12. Presa El Cajón

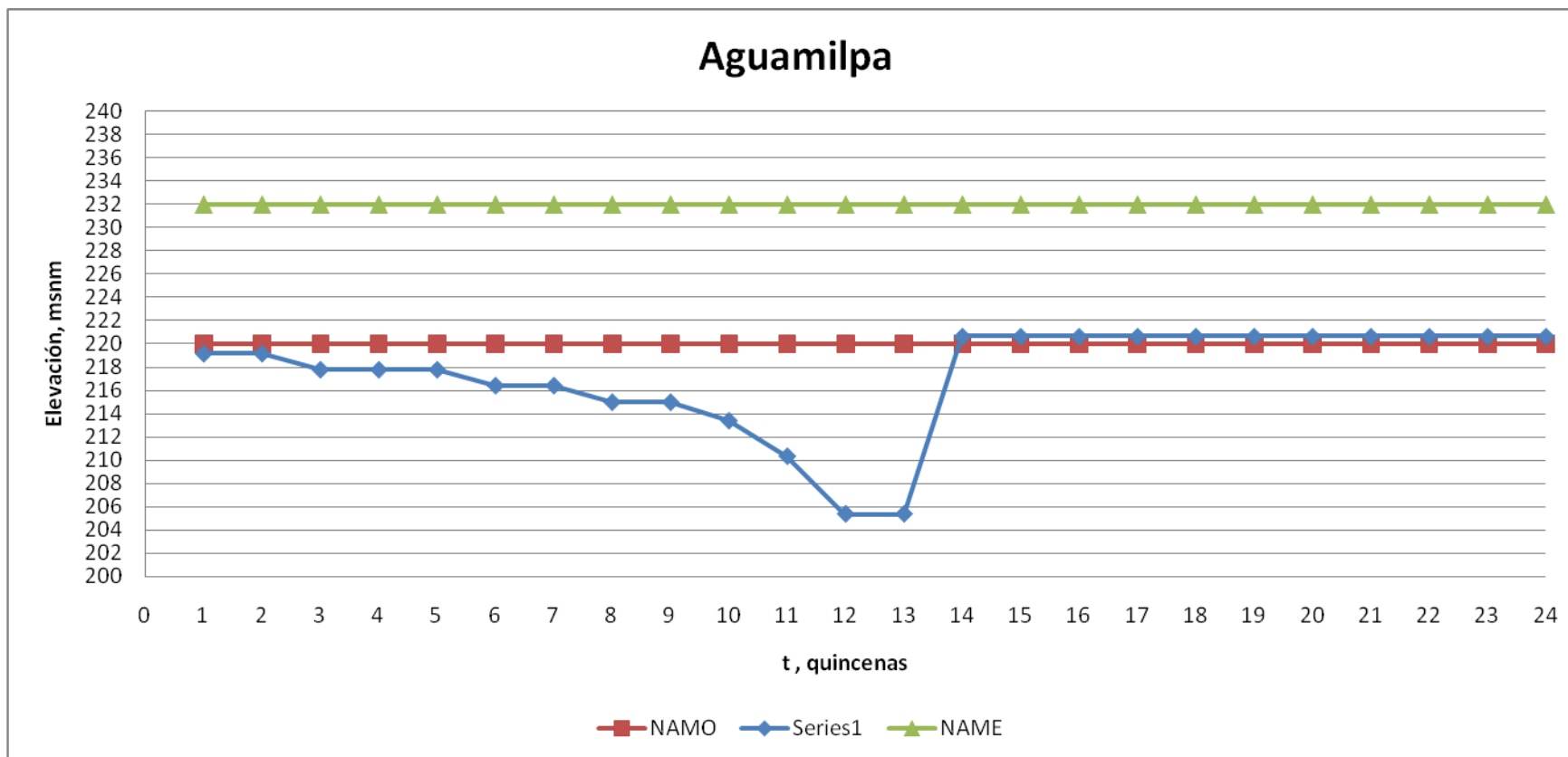


Figura A4.3 Curva guía propuesta. Política 12. Presa Aguamilpa

### A4.2 Empleo de las políticas quincenales óptimas simuladas

Las políticas óptimas que se simularon proceden de la aplicación del algoritmo de optimización vía programación dinámica estocástica explicado en el capítulo 2; para el empleo de dichas políticas, por parte de los operadores del sistema, se considera el formato matricial de la Figura A1.1, en la que fijando el estado para la presa 1, se indican las extracciones en las tres presas para cada estado de las presas restantes.

The screenshot shows a text editor window titled "MEEVVS - Bloc de notas" containing a matrix of policy data. The data is organized into six sections, each corresponding to a different state of the system (ESTADO: 01 to 06). Each section starts with a header indicating the state and the first reservoir (PRESA: 1). The matrix consists of 7 rows and 13 columns of numerical values, representing the extraction policies for different combinations of reservoir states.

**Figura A4.4 Ejemplo del formato de las políticas de operación. Sistema hidroeléctrico del río Santiago. Política 20. Para un  $\Delta V=200$  millones de  $m^3$**

MEEXVS - Bloc de notas  
 Archivo Edición Formato Ver Ayuda

\*\*\*\*\* ETAPA 1: NOV \*\*\*\*\*

PRESA: 1 ESTADO: 01

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	010101	010102	010103	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
2	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
3	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
4	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
5	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
6	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
7	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
8	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010302	010303
9	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010401	010402	010403

PRESA: 1 ESTADO: 02

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
2	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
3	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
4	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
5	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
6	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
7	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
8	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010302	010303
9	010401	010401	010401	010401	010401	010701	010701	010701	010701	010701	010701	010702	010703	010704	010705	010706	010707	010708

PRESA: 1 ESTADO: 03

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
2	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
3	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
4	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
5	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
6	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
7	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010201	010202	010203
8	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010301	010302	010303
9	010401	010401	010401	010401	010401	010801	010801	010801	010801	010801	010701	010804	010805	010806	010807	010808	010809	010810

PRESA: 1 ESTADO: 04

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
2	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
3	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
4	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020101	020102	020103
5	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
6	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020201	020202	020203
7	010201	010201	020301	020301	020301	020301	020301	020301	020301	020301	020301	020601	020401	020401	020301	020302	020303	020709
8	020401	020401	020401	020401	020401	020401	020401	020401	020401	020401	020501	020501	020501	020401	020402	020403	020808	020810
9	020501	020501	020501	020501	020501	020901	020901	020901	020801	020802	020601	020501	020502	020907	020908	020909	020910	020911

PRESA: 1 ESTADO: 05

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
2	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010101	010102	010103
3	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030102	030103
4	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030101	030102	030103
5	010101	010101	010101	010101	010101	010101	010101	030201	030201	030201	030201	030201	030201	030201	030201	030202	030203	030204
6	020201	020201	020201	020201	020201	030301	030301	030301	030301	030301	030301	030301	030301	030301	030302	030303	030304	030305
7	030401	030401	030401	030401	030401	030401	030401	030401	030401	030401	030401	030501	030401	030402	030403	030404	030405	030406
8	030501	030501	030501	030501	030501	030501	030501	030501	030501	030501	030601	030501	030502	030503	030504	030505	030506	030608
9	030601	030601	030601	030601	030601	030601	030901	030901	030701	030701	030601	030602	030603	030604	030605	030707	030910	030911

**Figura A4.5 Ejemplo del formato de las políticas de operación. Sistema hidroeléctrico del río Santiago. Política 21. Para un DV=150 millones de m<sup>3</sup>**

Con una Tabla como la presentada en la Figura A4.4 y A4.5 se puede determinar el volumen de extracción quincenal correspondiente a la siguiente quincena del mes, dependiendo del almacenamiento existente en las tres presas; cada estado corresponde a un volumen de almacenamiento en las presas; para un  $\Delta V=200$  millones de m<sup>3</sup>, como lo muestra la Figura A4.4, el estado 1 corresponde a un volumen de 200 millones de m<sup>3</sup>, el estado dos a 400 millones de m<sup>3</sup> y así sucesivamente, hasta alcanzar la capacidad útil. Para un  $\Delta V=150$  millones de m<sup>3</sup>, mostrado en la Figura A4.5, el estado 1 corresponde a un volumen de 150 millones de m<sup>3</sup>, el estado dos a 300 millones de m<sup>3</sup> y así sucesivamente.

Si una etapa tiene n quincenas, entonces la extracción en una quincena de esa etapa será igual al  $\Delta V/n$ .

Así por ejemplo, para un  $\Delta V=150$  millones de m<sup>3</sup>; si es la etapa 1, corresponde al mes de noviembre, por lo que la extracción corresponde a 75 millones de m<sup>3</sup> por cada estado entonces, si la presa 1 se encuentra por ejemplo en el estado 3, la presa 2 en el estado 8



y la presa 3 en el estado 13, la política en el ejemplo de la Figura A4.5 indica extraer 1 unidad a la presa La Yesca, 4 unidades para la presa El Cajón y 1 unidad para la presa Aguamilpa; es decir, de La Yesca extraer  $(1*75)=75$  millones de  $m^3$  en la quincena, para la presa El Cajón extraer  $(4*75)=300$  millones de  $m^3$  y  $(1*75)=75$  millones de  $m^3$  de la presa Aguamilpa.

Otro ejemplo, para un  $\Delta V=200$  millones de  $m^3$ ; si la etapa 1 corresponde al mes de noviembre, la política propondría extraer 75 millones de  $m^3$  por cada estado, si al inicio de la quincena la presa 1 se encontrara en el estado 5, la presa 2 en el estado 6 y la presa 3 en el estado 2, si tomamos como ejemplo el de la Figura A4.4, la política indicaría extraer 3, 4 y 1 unidades para cada presa, es decir, de la Yesca se extraerían  $(3*75)=225$  millones de  $m^3$  en la quincena, de la presa El Cajón  $(4*75)=300$  millones de  $m^3$  y de Aguamilpa la extracción en la quincena sería de  $(1*75)=75$  millones de  $m^3$

### A4.3 Manejo del DELVOL

El volumen de extracción que indica la política óptima todavía se puede corregir sumándole un restándole un volumen DELVOL, dependiendo de si el ingreso en la quincena anterior fue mayor o menor que el ingreso promedio mensual en dicha quincena; dicho volumen DELVOL se calcula con la ecuación 2.10 dada en el capítulo 2 de este trabajo y toma en cuenta la autocorrelación existente entre los volúmenes de ingreso de una quincena a otra.

En la Tabla A4.1 se presentan los parámetros de la ecuación 2.10 del capítulo 2 correspondientes a las quincenas 1 a 24 del año considerado de enero a diciembre. Los parámetros de dicha tabla se calcularon con los valores históricos actualizados al 2008.

$$DELVOL(presa, quincena) = CDV(presa) * pend(presa, quincena-1) * (vinghq(presa, año, quincena-1) - vimed(presa, quincena-1))$$

(2.10 del capítulo 2)

**Tabla A4.1 Parámetros para la ecuación 2.10 del capítulo 2**

PRESA		QUINCENAS											
		1	2	3	4	5	6	7	8	9	10	11	12
La Yesca	Media quincenal	81.06	81.06	41.59	41.59	37.80	37.80	34.02	34.02	35.21	35.21	88.01	88.01
	Pendiente	0.2447	0.2447	0.1857	0.1857	0.7412	0.7412	0.7747	0.7747	-0.5343	-0.5343	0.1177	0.1177
Aguamilpa	Media quincenal	79.50	79.50	22.30	22.30	9.76	9.76	5.25	5.25	11.28	11.28	57.28	57.28
	Pendiente	0.1583	0.1583	0.2262	0.2262	0.256	0.256	0.7695	0.7695	0.6089	0.6089	-0.0056	-0.0056
PRESA		QUINCENAS											
		13	14	15	16	17	18	19	20	21	22	23	24
La Yesca	Media quincenal	350.68	350.68	366.51	366.51	321.46	321.46	125.05	125.05	50.35	50.35	47.14	47.14
	Pendiente	0.1484	0.1484	0.4548	0.4548	0.1382	0.1382	0.0988	0.0988	0.8886	0.8886	0.5415	0.5415
Aguamilpa	Media quincenal	334.04	334.04	426.60	426.60	330.44	330.44	110.44	110.44	22.66	22.66	15.76	15.76
	Pendiente	0.395	0.395	0.3113	0.3113	0.1476	0.1476	0.0921	0.0921	0.551	0.551	5.0158	5.0158

El CDV para todas las presas considerado para la política 21 es igual a 1.

Así, por ejemplo si se trata de la presa La Yesca y se desea obtener el DELVOL para la quincena 14 , si en la quincena 13 se tuvo un ingreso quincenal de 425 millones de m<sup>3</sup>, de la Tabla A4.1 se; el volumen DELVOL resulta:

$$DELVOL(la\ yesca,14)= 1 *0.1484(425-350.68)= 11.03 \times 10^6 m^3$$

El volumen anterior se suma al que obtenido con la política óptima para la presa la Yesca y con ello se determina el volumen de extracción en la quincena correspondiente.

De manera similar se procedería para las presas El Cajón y Aguamilpa.

**ANEXO 5.  
ARCHIVO DE DATOS Y LISTADO DE  
PROGRAMA PARA SIMULACIÓN**

### A5.1 Archivo de datos que alimenta al programa de simulación SIMQ3P.FOR

### A5.2 Archivo de datos para ΔV=200 millones de m³

```

SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO
LA YESCA
EL CAJON
AGUAMILPA
28 1 200.0
8 7 13
1500.0 0.0 1563.62 1300.0 0.0 1335.13 2600.0 0.0 2629.31
1.0E7 1.0E7 1.0E7
518.0 346.0 190.0
1200.0 1300.0 1800.0
391.0 221.24 66.29
127.0 124.76 123.71
1.0 1.0 1.0
18 55 46
518.00 520.00 525.00 530.00 535.00 540.00 545.00 550.00 555.00
560.00 565.00 570.00 575.00 580.00 585.00 590.00 595.00 600.00
22.84 23.21 24.80 26.25 27.70 29.16 30.61 32.06 33.96
35.86 37.93 40.00 42.07 44.14 46.64 49.13 51.62 54.11
0.0 39.25 143.90 254.72 371.85 495.29 625.05 761.12 904.46
1056.05 1216.25 1385.44 1563.52 1750.79 1947.87 2155.78 2374.51 2604.06
346.00 347.00 348.00 349.00 350.00 351.00 352.00 353.00 354.00 355.00
356.00 357.00 358.00 359.00 360.00 361.00 362.00 363.00 364.00 365.00
366.00 367.00 368.00 369.00 370.00 371.00 372.00 373.00 374.00 375.00
376.00 377.00 378.00 379.00 380.00 381.00 382.00 383.00 384.00 385.00
386.00 387.00 388.00 389.00 390.00 391.00 392.00 393.00 394.00 395.00
396.00 397.00 398.00 399.00 400.00
20.87 21.15 21.44 21.73 22.02 22.40 22.78 23.16 23.54 23.92
24.30 24.68 25.07 25.45 25.83 26.21 26.59 26.97 27.35 27.74
28.12 28.50 28.88 29.26 29.64 30.02 30.40 30.79 31.17 31.55
31.99 32.42 32.86 33.29 33.73 34.16 34.60 35.03 35.47 35.90
36.34 36.77 37.21 37.65 38.08 38.52 38.95 39.39 39.82 40.26
40.69 41.13 41.56 42.00 42.43
0.0 18.43 36.85 55.28 73.70 100.49 127.27 154.05 180.83 207.62
234.40 261.18 287.97 314.74 341.53 368.31 395.09 421.87 448.66 475.44
502.22 529.00 555.78 582.57 609.35 636.13 662.91 689.70 716.48 743.26
780.25 817.24 854.24 891.23 928.22 965.21 1002.20 1039.19 1076.19 1113.18
1150.17 1187.16 1224.15 1261.14 1298.14 1335.13 1372.12 1409.11 1446.10 1483.10
1520.09 1557.08 1594.07 1631.06 1668.05
190.00 191.00 192.00 193.00 194.00 195.00 196.00 197.00 198.00 199.00
200.00 201.00 202.00 203.00 204.00 205.00 206.00 207.00 208.00 209.00
210.00 211.00 212.00 213.00 214.00 215.00 216.00 217.00 218.00 219.00
220.00 221.00 222.00 223.00 224.00 225.00 226.00 227.00 228.00 229.00
230.00 231.00 232.00 233.00 234.00 235.00
70.42 71.54 72.67 73.80 72.94 76.05 77.71 78.30 79.43 80.55
81.68 82.80 83.93 85.37 86.81 88.24 89.83 91.12 92.56 94.00
95.43 96.87 98.31 99.75 101.19 102.62 104.06 105.50 106.94 108.38
109.81 111.25 112.69 114.13 115.57 117.00 118.44 120.05 121.58 123.28
124.98 126.69 128.39 130.09 131.79 133.49
0.00 69.74 140.58 212.53 285.58 359.73 434.99 511.45 589.09 667.95
748.04 829.38 911.94 995.72 1080.75 1167.01 1254.55 1343.40 1433.58 1525.10
1618.01 1712.32 1808.07 1905.28 2003.99 2104.21 2205.99 2309.36 2414.34 2520.99
2629.31 2739.26 2850.71 2963.65 3078.02 3193.80 3311.03 3429.80 3550.11 3672.01
3795.50 3920.60 4047.31 4175.63 4305.60 4437.21
69.59 104.71 179.03 211.42 223.49 31.27
-133.32 -96.67 -49.58 48.85 68.79 50.84
69.00 95.00 143.00 170.00 191.00 37.00
-125.00 -103.00 -55.00 43.00 83.00 54.00
23.50 63.10 97.40 115.60 115.00 -40.60
-269.10 -221.10 -154.60 0.10 33.20 24.30
81.06 81.06 41.59 41.59 37.80 37.80 34.02 34.02 35.21 35.21
88.01 88.01 350.68 350.68 366.51 366.51 321.46 321.46 125.05 125.05
50.35 50.35 47.14 47.14
0.2447 0.2447 0.1857 0.1857 0.7412 0.7412 0.7747 0.7747 -0.5343 -0.5343
0.1177 0.1177 0.1484 0.1484 0.4548 0.4548 0.1382 0.1382 0.0988 0.0988
0.8866 0.8866 0.5415 0.5415
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00
79.50 79.50 22.30 22.30 9.76 9.76 5.25 5.25 11.28 11.28
57.28 57.28 334.04 334.04 426.60 426.60 430.44 430.44 110.44 110.44
22.66 22.66 15.76 15.76

```

0.1583 0.1583 0.2262 0.2262 0.256 0.256 0.7695 0.7695 0.6089 0.6089  
 -0.0056 -0.0056 0.395 0.395 0.3113 0.3113 0.1476 0.1476 0.0321 0.0321  
 0.551 0.551 5.0158 5.0158  
 37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75  
 75 75 75 75 75 75 75 75 75 75 37.5 37.5  
 600 600 600 600 600 600 600 600 600 600  
 600 600 600 600 600 600 600 600 600 600 600 600  
 37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75  
 75 75 75 75 75 75 75 75 75 75 37.5 37.5  
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 37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75  
 75 75 75 75 75 75 75 75 75 75 37.5 37.5  
 900 900 900 900 900 900 900 900 900 900 900 900  
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 1350 1350 1200 1200 1050 1050 1050 1050 900 900 900 900  
 1200 1200 1350 1350 1350 1350 1350 1350 1350 1350 1350 1350  
 1200 1200 1050 1050 900 900 900 900 750 750 750 750  
 1050 1050 1200 1200 1350 1350 1200 1200 1200 1200 1200 1200  
 2550 2550 2400 2400 2400 2400 2250 2250 2100 2100 1950 1650 1200 1200  
 2700 2700 2700 3150 3300 3000 3000 3000 3000 2850 2700

### A5.3 Archivo de datos para ΔV=150 millones de m³

SIMULACION DEL SISTEMA HIDROELECTRICO DEL RIO SANTIAGO  
 LA YESCA  
 EL CAJON  
 AGUAMILPA  
 28 1 150.0  
 10 9 18  
 1500.0 0.0 0.0 1563.62 1300.0 0.0 1335.13 2600.0 0.0 2629.31  
 1.0E7 1.0E7 1.0E7  
 518.0 346.0 190.0  
 1200.0 1300.0 1800.0  
 391.0 221.24 66.29  
 127.0 124.76 123.71  
 1.0 1.0 1.0  
 18 55 46  
 518.00 520.00 525.00 530.00 535.00 540.00 545.00 550.00 555.00  
 560.00 565.00 570.00 575.00 580.00 585.00 590.00 595.00 600.00  
 22.84 23.21 24.80 26.25 27.70 29.16 30.61 32.06 33.96  
 35.86 37.93 40.00 42.07 44.14 46.64 49.13 51.62 54.11  
 0.0 39.25 143.90 254.72 371.85 495.29 625.05 761.12 904.46  
 1056.05 1216.25 1385.44 1563.52 1750.79 1947.87 2155.78 2374.51 2604.06  
 346.00 347.00 348.00 349.00 350.00 351.00 352.00 353.00 354.00 355.00  
 356.00 357.00 358.00 359.00 360.00 361.00 362.00 363.00 364.00 365.00  
 366.00 367.00 368.00 369.00 370.00 371.00 372.00 373.00 374.00 375.00  
 376.00 377.00 378.00 379.00 380.00 381.00 382.00 383.00 384.00 385.00  
 386.00 387.00 388.00 389.00 390.00 391.00 392.00 393.00 394.00 395.00  
 396.00 397.00 398.00 399.00 400.00  
 20.87 21.15 21.44 21.73 22.02 22.40 22.78 23.16 23.54 23.92  
 24.30 24.68 25.07 25.45 25.83 26.21 26.59 26.97 27.35 27.74  
 28.12 28.50 28.88 29.26 29.64 30.02 30.40 30.79 31.17 31.55  
 31.99 32.42 32.86 33.29 33.73 34.16 34.60 35.03 35.47 35.90  
 36.34 36.77 37.21 37.65 38.08 38.52 38.95 39.39 39.82 40.26  
 40.69 41.13 41.56 42.00 42.43  
 0.0 18.43 36.85 55.28 73.70 100.49 127.27 154.05 180.83 207.62  
 234.40 261.18 287.97 314.74 341.53 368.31 395.09 421.87 448.66 475.44  
 502.22 529.00 555.78 582.57 609.35 636.13 662.91 689.70 716.48 743.26  
 780.25 817.24 854.24 891.23 928.22 965.21 1002.20 1039.19 1076.19 1113.18  
 1150.17 1187.16 1224.15 1261.14 1298.14 1335.13 1372.12 1409.11 1446.10 1483.10  
 1520.09 1557.08 1594.07 1631.06 1668.05  
 190.00 191.00 192.00 193.00 194.00 195.00 196.00 197.00 198.00 199.00  
 200.00 201.00 202.00 203.00 204.00 205.00 206.00 207.00 208.00 209.00  
 210.00 211.00 212.00 213.00 214.00 215.00 216.00 217.00 218.00 219.00  
 220.00 221.00 222.00 223.00 224.00 225.00 226.00 227.00 228.00 229.00  
 230.00 231.00 232.00 233.00 234.00 235.00  
 70.42 71.54 72.67 73.80 72.94 76.05 77.71 78.30 79.43 80.55  
 81.68 82.80 83.93 85.37 86.81 88.24 89.83 91.12 92.56 94.00  
 95.43 96.87 98.31 99.75 101.19 102.62 104.06 105.50 106.94 108.38  
 109.81 111.25 112.69 114.13 115.57 117.00 118.44 120.05 121.58 123.28  
 124.98 126.69 128.39 130.09 131.79 133.49  
 0.00 69.74 140.58 212.53 285.58 359.73 434.99 511.45 589.09 667.95  
 748.04 829.38 911.94 995.72 1080.75 1167.01 1254.55 1343.40 1433.58 1525.10  
 1618.01 1712.32 1808.07 1905.28 2003.99 2104.21 2205.99 2309.36 2414.34 2520.99  
 2629.31 2739.26 2850.71 2963.65 3078.02 3193.80 3311.03 3429.80 3550.11 3672.01  
 3795.50 3920.60 4047.31 4175.63 4305.60 4437.21

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69.59 104.71 179.03 211.42 223.49 31.27
-133.32 -96.67 -49.58 48.85 68.79 50.84
69.00 95.00 143.00 170.00 191.00 37.00
-125.00 -103.00 -55.00 43.00 83.00 54.00
23.50 63.10 97.40 115.60 115.00 -40.60
-269.10 -221.10 -154.60 0.10 33.20 24.30
81.06 81.06 41.59 41.59 37.80 37.80 34.02 34.02 35.21 35.21
88.01 88.01 350.68 350.68 366.51 366.51 321.46 321.46 125.05 125.05
50.35 50.35 47.14 47.14
0.2447 0.2447 0.1857 0.1857 0.7412 0.7412 0.7747 0.7747 -0.5343 -0.5343
0.1177 0.1177 0.1484 0.1484 0.4548 0.4548 0.1382 0.1382 0.0988 0.0988
0.8866 0.8866 0.5415 0.5415
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
0.00 0.00 0.00 0.00
79.50 79.50 22.30 22.30 9.76 9.76 5.25 5.25 11.28 11.28
57.28 57.28 334.04 334.04 426.60 426.60 430.44 430.44 110.44 110.44
22.66 22.66 15.76 15.76
0.1583 0.1583 0.2262 0.2262 0.256 0.256 0.7695 0.7695 0.6089 0.6089
-0.0056 -0.0056 0.395 0.395 0.3113 0.3113 0.1476 0.1476 0.0321 0.0321
0.551 0.551 5.0158 5.0158
37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75
75 75 75 75 75 75 75 75 75 75 75 75 75 37.5 37.5
600 600 600 600 600 600 600 600 600 600
600 600 600 600 600 600 600 600 600 600 600 600
37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75
75 75 75 75 75 75 75 75 75 75 75 75 75 37.5 37.5
650 650 650 650 650 650 650 650 650 650 650
650 650 650 650 650 650 650 650 650 650 650 650
37.5 37.5 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75 18.75
75 75 75 75 75 75 75 75 75 75 75 75 75 37.5 37.5
900 900 900 900 900 900 900 900 900 900 900 900
900 900 900 900 900 900 900 900 900 900 900 900
1350 1350 1200 1200 1050 1050 1050 1050 900 900 900 900
1200 1200 1350 1350 1350 1350 1350 1350 1350 1350 1350 1350 1350
1200 1200 1050 1050 900 900 900 900 750 750 750 750
1050 1050 1200 1200 1350 1350 1200 1200 1200 1200 1200 1200
2550 2550 2400 2400 2400 2250 2250 2100 2100 1950 1650 1200 1200
2700 2700 2700 3150 3300 3000 3000 3000 3000 2850 2700

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### A5.4 Listado de programa SIMQ3P.FOR

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C.... PROGRAMA SIMQ3P.FOR
C   OBJETIVO: SIMULAR EL FUNCIONAMIENTO QUINCENAL CONJUNTO DE TRES PRESAS
C           QUE OPERAN EN CASCADA
C           SE GENERA TAMBIÉN COMO RESULTADO DE LA SIMULACIÓN
C           UNA MATRIZ DE FRECUENCIA DE OCURRENCIA DEL ALMACENAMIENTO
C           INICIAL Y DE LAS EXTRACCIONES
C   SE SUSTITUYE EL PROCESO DE INTERPOLACION BILINEAL QUE SE USA AL SIMULAR
C   DOS PRESAS, AHORA SE TOMA LA EXTRACCION TAL CUAL LA DICTA LA POLÍTICA
C
C   AUTORES: ROSALVA MENDOZA Y DR. RAMON DOMINGUEZ
C
C   INSTITUTO DE INGENIERIA - UNAM
C
C   MARZO DEL 2000: NUEVO ESTUDIO
C   VERSIÓN: AGOSTO DEL 2000  ULTIMA REVISION: 20-MARZO-2001,29-03-01
C   SE AGREGA FRECUENCIA DE ENERGIA 19-NOV-01 19-MAR 03 CAMBIOS EN VECTORES
C
C   VERSION TERMINADA: SEPTIEMBRE DEL 2009
C
C.....

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PARAMETER (NP = 3,NQUIN = 24,NAS=110, IENTE = 10, NUMES = 12)
PARAMETER (MAXPUN= 60, NE1= 8, NE2=7, NE3 =13)

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COMMON/GENERALES/NS (NP), VMIN (NP), ENAMINO (NP), VTUMAX (NP),
*           DESF (NP), CAPMUE (NP), NPUN (NP), VUTIL (NP),
*           PEND (NP, NQUIN), ICONT (NP),
*           HPR (NP)
COMMON/TITULOS/TITGEN, TIT (NP)
COMMON/TIEMPO/NAN, AIN, IAXO (NAS), IASGUIA (NP, NQUIN*NAS)
COMMON/COEFIC/CDV (NP), MAXP (NP, NQUIN), CG (NP, NQUIN)
COMMON/SUMAS/SUMADERR (NP, NAS), SUMADEFI (NP, NAS), SUMAINGH (NP, NAS),

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*          SUMALMA (NP, NAS) , SUMAVINGH (NP, NAS)
COMMON/VARIQUI/ELEQUI (NP, NQUIN) , ALMAQUI (NP, NQUIN) ,
*          ENERQUI (NP, NQUIN) , ENERGIA (NP, NQUIN)
COMMON/PROMEDIOS/ALPRO (NP, NAS) , ELEPRO (NP, NQUIN)
COMMON/TOTALES/TOTEN (NP, NAS) , GEXTO (NP, NAS) , SUMATENE (NP) ,
*          SUMATDER (NP) , SUMATDEF (NP)
COMMON/VOLS/VINGH (NP, NAS) , VIMED (NP, NQUIN) , DELVOL (NP, NQUIN) ,
*          VMI (NP, NQUIN) , VMA (NP, NQUIN) , VINGHQ (NP, NAS, NQUIN)
COMMON/CASTIGOS/DEFICIT (NP, NAS, NQUIN) , DERRAME (NP, NAS, NQUIN)
COMMON/ALMACENA/ALMAF (NP, NAS, NQUIN) , ALMINI (NP)
COMMON/EVAPORA/EPM (NP, NUMES) , EPQ (NP, NQUIN)

INTEGER AIN

DIMENSION ELE (NP, MAXPUN) , AREAS (NP, MAXPUN) , VOLUM (NP, MAXPUN)
!   DIMENSION IFREC (NQUIN, 50, 50, 50) , IFRECE (NQUIN, 150, 150, 150)
DIMENSION VEV (NP, NQUIN)
DIMENSION EXTQM (NP, NQUIN)
DIMENSION GEXREAL (NP, NQUIN)
DIMENSION ALMA (NP, NUMES, NE1, NE2, NE3) , VOLEX (NP, NUMES, NE1, NE2, NE3)
!   DIMENSION IFREE (IENTE, NP, NQUIN)
DIMENSION ALSGUIA (NP, NAS* NQUIN)
DIMENSION APRO (NP, NQUIN)
DIMENSION EXPOL (NP, NQUIN) , VT (NP, NQUIN)
DIMENSION IUES (NP)

CHARACTER*6 QUIN (NQUIN)
CHARACTER*6 IQSGUIA (NP, NQUIN* NAS)
CHARACTER*7 CADE (NP) , CADE3, CADE4
CHARACTER*5 ARCHS1, ARCHS2, ARCHS3, ARCHF1, ARCHF2, ARCHF3
CHARACTER*5 ARCHS (NP)
CHARACTER*60 TITGEN
CHARACTER*13 TIT

DATA QUIN/'1Q ENE', '2Q ENE', '1Q FEB', '2Q FEB', '1Q MAR', '2Q MAR',
*'1Q ABR', '2Q ABR', '1Q MAY', '2Q MAY', '1Q JUN', '2Q JUN', '1Q JUL',
*'2Q JUL', '1Q AGO', '2Q AGO', '1Q SEP', '2Q SEP', '1Q OCT', '2Q OCT',
*'1Q NOV', '2Q NOV', '1Q DIC', '2Q DIC'/

!CADENAS DE CARACTERES PARA ARCHIVOS DE LOSVOL HISTORICOS DE CADA PRESA
DO IK = 1, NP
IF (IK.EQ.1) CADE (IK) = 'VOLPRE1'
IF (IK.EQ.2) CADE (IK) = 'VOLPRE2'
IF (IK.EQ.3) CADE (IK) = 'VOLPRE3'
ENDDO

C.. DECLARACION DE LOS NOMBRES DE LOS ARCHIVOS DE DATOS GENERALES Y EL
C DE LAS POLITICAS

CADE3 = 'DATOSGE'
CADE4 = 'ARPOLVS'

C.
C ... ABRE ARCHIVOS DE RESULTADOS
C
ARCHS1 = 'SIQP1'
ARCHS2 = 'SIQP2'
ARCHS3 = 'SIQP3'
ARCHF1 = 'FRQP1'
ARCHF2 = 'FRQP2'
ARCHF3 = 'FRQP3'

C... DEFINIMOS UNIDADES DE ESCRITURA DE RESULTADOS
DO LO = 1, NP
IF (LO.EQ.1) THEN
IUES (LO) = 5
ARCHS (LO) = ARCHS1
ENDIF
IF (LO.EQ.2) THEN
IUES (LO) = 8
ARCHS (LO) = ARCHS2
ENDIF
IF (LO.EQ.3) THEN
IUES (LO) = 9
ARCHS (LO) = ARCHS3
ENDIF
OPEN (IUES (LO) , FILE=ARCHS (LO) , STATUS='UNKNOWN')
ENDDO

C... ARCHIVOS PARA ESCRIBIR RESULTADOS DE FRECUENCIAS DE ENERGIAS

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```

OPEN (25,FILE=ARCHF1,STATUS='UNKNOWN')
OPEN (26,FILE=ARCHF2,STATUS='UNKNOWN')
OPEN (27,FILE=ARCHF3,STATUS='UNKNOWN')

! FACTORES
FAC = 9.81/3600.0
EFIC = 0.9
IP = 1

CALL LEE_DATOS (CADE3,CADE,ELE,AREAS,VOLUM,DV)

C...INICIALIZA VARIABLES PARA CADA PRESA
DO I = 1,NP
  SUMATDEF(I)=0.0
  SUMATDER(I)=0.0
  SUMATENE(I) =0.0
ENDDO
  ICLA = 0
C... INICIALIZACIÓN DE LA VARIABLE PARA CONTABILIZAR LA FRECUENCIA
C DE OCURRENCIA DE LOS ALMACENAMIENTOS
C
! DO L = 1,NQUIN
! DO I1 = 1,NS(IP)
! DO I2 = 1,NS(IP+1)
C DO I3 =1, NS(IP+2)
C IFREC(L,I1,I2,I3) = 0
C ENDDO
C ENDDO
C ENDDO
C ENDDO
C
C DO L = 1,NQUIN
C DO I = 1,150
C DO J = 1,150
C DO K =1,150
C IFRECE(L,I,J,K) = 0
C ENDDO
C ENDDO
C ENDDO
C ENDDO
C
DO I = 1,NP
DO J = I,NQUIN
MAXF(I,J) =0
ENDDO
ENDDO

C....INICIALIZACIÓN DE VARIABLES ANUALES
C
DO I = 1,NP
DO K = 1,NAN
SUMADERR(I,K)=0.0
SUMADEFI(I,K)=0.0
SUMAINGH(I,K)=0.0
TOTEN(I,K)= 0.0
SUMALMA(I,K)=0.0
GEXTO(I,K)=0.0
ALPRO(I,K) = 0.0
ENDDO
ENDDO

C INICIALIZA VARIABLES QUINCENALES
! DO I=1,IENTE
! DO KK=1,NP
! DO JJ=1,NQUIN
! IFREE(I,KK,JJ)=0
! ENDDO
! ENDDO
! ENDDO

C....INICIALIZACIÓN DE VARIABLES QUINCENALES
C
DO I = 1,NP
DO L = 1,NQUIN
ELEQUI(I,L)=0.0 !ELEVACION QUINCENAL PROMEDIO
ALMAQUI(I,L)=0.0 !ALMACENAMIENTO FINAL PROMEDIO
ENERQUI(I,L)=0.0 !ENERGIA PROMEDIO
ENDDO
ENDDO

```



```

C... LECTURA DEL ARCHIVO DE POLÍTICAS ÓPTIMAS
CALL LEE_POLITICAS(CADE4,ALMA,VOLEX,IP)
C..
    DO NN = 1,NP
      WRITE(IUES(NN),55)TITGEN
      WRITE(IUES(NN),*)
      WRITE(IUES(NN),56)TIT(NN)
      WRITE(IUES(NN),*)
    ENDDO

C..      ***** INICIO DEL PROCESO DE SIMULACION CONJUNTA *****
C...

    DO II = 1,NAN
      PRINT*, 'AÑO', II
    !
      READ*
      DO JJ = 1,NQUIN
        PRINT*, 'QUINCENA:', JJ
      !
      READ*
C... BUSCA EL VOLUMEN DE EXTRACCION PARA CADA PRESA QUE DICTA LA POLITICA OPTIMA
      CALL POLEX(IP, JJ, DV, VOLEX, EXPOL)
      PRINT*, 'SALI DE POLEX Y EXTRAIGO SEGUN LA POLITICA:'
      PRINT*, (EXPOL(I, JJ), I=1, NP)
    !
      READ*

      DO KK =1, NP
        ICONT(KK) = 0 !CONTADOR PARA SABER CUANTAS VECES SE PASA LA CURVA GUIA
        PRINT*, 'PRESA:', KK
        CALL CORREL(II, JJ, KK, EXPOL, EXTQM)
        PRINT*, 'SALI DE CORREL CON', EXTQM(KK, JJ)
        IF(EXTQM(KK, JJ).LE.0.0) THEN
          PRINT*, 'MODIFIQUE LA EXTRACCION PROPUESTA POR LA POL'
          PRINT*, EXTQM(KK, JJ)
          PRINT*, 'PRESA ', KK
          PRINT*, ALMINI(KK), VINGHQ(KK, II, JJ)
        !
          READ*
        ENDIF
        ALMAF(KK, II, JJ) = ALMINI(KK)+VINGHQ(KK, II, JJ)
    ! CALCULA EL ALMACENAMIENTO PROMEDIO PARA CALCULAR LA EVAPORACION
        APRO(KK, JJ) = (ALMINI(KK)+ALMAF(KK, II, JJ))/2.0
        PRINT*, 'ALMACENAMIENTO PROMEDIO', APRO(KK, JJ)
        AX = APRO(KK, JJ)
        CALL INTERLIN(VOLUM, AREAS, AX, AREAI, KK)
        PRINT*, 'AREA CORRESPONDIENTE', AREAI
      !
      READ*
C...CALCULAMOS EL VOLUMEN EVAPORADO EN M3
        VEV(KK, JJ) = (AREAI*1.E06) * (EPQ(KK, JJ)/1.E03) ! VEV en metros cubicos
    ! TRANSFORMAMOS A MILLONES DE M3 PARA SER CONGRUENTES CON LAS UNIDADES
        VEV(KK, JJ) = VEV(KK, JJ)/1.0E06
        PRINT*, 'LAM EVAP VOLUMEN EVAPORADO', EPQ(KK, JJ), VEV(KK, JJ)
      *
      * , KK, JJ, II
    !
      READ*
    ! CALCULA EL ALMACENAMIENTO FINAL PRELIMINAR
      IF (KK.EQ.1) THEN
        *
        ALMAF(KK, II, JJ) = ALMAF(KK, II, JJ)-EXTQM(KK, JJ)
        *
        * -VEV(KK, JJ)
      ELSE
        *
        ALMAF(KK, II, JJ) = ALMAF(KK, II, JJ)+
        *
        * GEXREAL(KK-1, JJ)-EXTQM(KK, JJ)-VEV(KK, JJ)
      ENDIF

C ***** ANALIZA LOS POSIBLES CASOS *****

C... PARTIMOS DE CERO DEFICITS Y CERO DERRAMES
      DERRAME(KK, II, JJ) = 0.0
      DEFICIT(KK, II, JJ) = 0.0

C
      1. CASO NO DEFICIT-NO DERRAME
      IF(ALMAF(KK, II, JJ).GT.CAPMUE(KK).AND.ALMAF(KK, II, JJ).
      *
      * LT.VUTIL(KK)) THEN
        print*, 'entre a caso normal'
        ALMAF(KK, II, JJ) = ALMAF(KK, II, JJ)
        GEXREAL(KK, JJ) = EXTQM(KK, JJ)
        VT(KK, JJ) = GEXREAL(KK, JJ)
      ENDIF

C..
    !
      2. CASO DE DERRAME
      IF(ALMAF(KK, II, JJ).GE.VUTIL(KK)) THEN
        print*, 'entre al caso de derrame'
        DERRAME(KK, II, JJ) = ALMAF(KK, II, JJ)-VUTIL(KK)

```

```

        ALMAF(KK,II,JJ) = VUTIL(KK)
        GEXREAL(KK,JJ) = EXTQM(KK,JJ)+DERRAME(KK,II,JJ)
        VT(KK,JJ) = EXTQM(KK,JJ)
    ENDIF

C.. CASO DE DEFICIT
    IF (ALMAF(KK,II,JJ).LE.CAPMUE(KK)) THEN
        print*, 'entre al caso de deficit'
        DEFICIT(KK,II,JJ)=CAPMUE(KK)-ALMAF(KK,II,JJ)
        ALMAF(KK,II,JJ) = CAPMUE(KK)
        GEXREAL(KK,JJ) = EXTQM(KK,JJ)-DEFICIT(KK,II,JJ)
        VT(KK,JJ) = GEXREAL(KK,JJ)
    ENDIF

C
C.. ESCRITURA DE LAS PRINCIPALES VARIABLES DEL PROCESO
C
    SUMADERR(KK,II)=SUMADERR(KK,II)+DERRAME(KK,II,JJ)
    SUMADEFI(KK,II)=SUMADEFI(KK,II)+DEFICIT(KK,II,JJ)
    SUMAINGH(KK,II)=SUMAINGH(KK,II)+VINGHQ(KK,II,JJ)
    SUMALMA(KK,II) = SUMALMA(KK,II)+ALMAF(KK,II,JJ)

    GEXTO(KK,II)=GEXTO(KK,II)+GEXREAL(KK,JJ)
    VPINT = ALMINI(KK)
    CALL INTERLIN(VOLUM,ELE,VPINT,E1,KK)
    VPINT=ALMAF(KK,II,JJ)
    CALL INTERLIN(VOLUM,ELE,VPINT,E2,KK)
    ELEPRO(KK,JJ) = (E1+E2)/2.0

C... CÁLCULO DE LA ENERGÍA GENERADA PARA CADA PRESA (EN GWH)
    ET1 = ELEPRO(KK,JJ)-DESF(KK)+HPR(KK)
    ENERGIA(KK,JJ)=EFIC*FAC*ET1*VT(KK,JJ)
    TOTEN(KK,II) = TOTEN(KK,II)+ENERGIA(KK,JJ)
    ENERQUI(KK,JJ) = ENERQUI(KK,JJ)+ENERGIA(KK,JJ)
    ELEQUI(KK,JJ) = ELEQUI(KK,JJ) +ELEPRO(KK,JJ)

C... PARA GUARDAR LAS VECES QUE SE REBASA LA CURVA GUIA
    IF (ALMAF(KK,II,JJ).GE.CG(KK,JJ)) THEN
        ICONT(KK)=ICONT(KK)+1
        ALSGUA(KK,ICONT(KK))=ALMAF(KK,II,JJ)
        IQSGUA(KK,ICONT(KK))=QUIN(JJ)
        IASGUA(KK,ICONT(KK))=IAXO(II)
    ENDIF
    ENDDO ! FIN DEL DO DE LAS PRESAS

    IF (JJ.EQ.1) THEN
        DO NI = 1,NP
            WRITE(IUES(NI),103)
            WRITE(IUES(NI),104)
            WRITE(IUES(NI),105) IAXO(II)
        ENDDO
    ENDIF

    DO LP =1, NP
        WRITE(IUES(LP),106) QUIN(JJ),ALMINI(LP),VINGHQ(LP,II,JJ),
*           VEV(LP,JJ),EXPOL(LP,JJ),EXTQM(LP,JJ),
*           GEXREAL(LP,JJ),DERRAME(LP,II,JJ),
*           DEFICIT(LP,II,JJ),ENERGIA(LP,JJ)
    ENDDO ! FIN DEL DO DE LAS PRESAS PARA ESCRIBIR

!
! DO KK=1,NP
! CALL MATEN(KK,JJ,IFREE,ICLA)
! ENDDO

DO IK = 1,NP
    ALMINI(IK) = ALMAF(IK,II,JJ)
    IF (ALMINI(IK).LT.VMIN(IK)) VMIN(IK) = ALMINI(IK)
    ALMAQUI(IK,JJ) = ALMAQUI(IK,JJ)+ALMINI(IK)
    ENDDO
ENDDO ! FIN DEL DO DE LOS MESES

DO IK = 1,NP
    ALPRO(IK,II) = SUMALMA(IK,II)/NQUIN
    ENDDO

DO KJ = 1,NP
    WRITE(IUES(KJ),*)
    ENDDO

```

```

ENDDO ! FIN DEL DO DE LOS AÑOS

DO IK = 1,NP
DO JJ = 1,NQUIN
  ELEQUI (IK, JJ) = ELEQUI (IK, JJ) /NAN
  ENERQUI (IK, JJ) =ENERQUI (IK, JJ) /NAN
  ALMAQUI (IK, JJ) = ALMAQUI (IK, JJ) /NAN
ENDDO
ENDDO

C... SUMA TOTAL DE DERRAMES Y DÉFICITS EN EL AÑO. SE OBTIEN TAMBIÉN EL
C ALMACENAMIENTO INICIAL MÍNIMO DEL PERIODO
DO I=1,NP
  DO J=1,NAN
    SUMATDER (I)=SUMATDER (I)+SUMADERR (I, J)
    SUMATDEF (I)=SUMATDEF (I)+SUMADEFI (I, J)
    SUMATENE (I)=SUMATENE (I)+TOTEN (I, J)
  ENDDO
ENDDO
C

C... RESUMEN ANUAL
DO I =1,NP
  WRITE (IUES (I) , 2000)
  DO J = 1,NAN
    VPINT = ALPRO (I, J)
    CALL INTERLIN (VOLUM, ELE, VPINT, VINT, I)
    EPRO = VINT
    * WRITE (IUES (I) , 2001) IAXO (J) , SUMADERR (I, J) , SUMADEFI (I, J) ,
    * SUMAINGH (I, J) , GEXTO (I, J) , ALPRO (I, J) ,
    * EPRO, TOTEN (I, J)
  ENDDO
  WRITE (IUES (I) , 2002) SUMATDER (I) , SUMATDEF (I)
  WRITE (IUES (I) , 2003) VMIN (I)
  WRITE (IUES (I) , 2004) NAN, SUMATENE (I) / (NAN*NQUIN)
ENDDO

C..
C...RESUMEN QUINCENAL PROMEDIO
C
DO I = 1,NP
  WRITE (IUES (I) , 3000)
  DO J = 1,NQUIN
    WRITE (IUES (I) , 3001) QUIN (J) , ELEQUI (I, J) , ALMAQUI (I, J) , ENERQUI (I, J)
  ENDDO
ENDDO

DO L =1,NP
  CLOSE (IUES (L) )
ENDDO

C... ESCRITURA DE LA MATRIZ DE FRECUENCIA DE LOS ALMACENAMIENTOS
!
! OPEN (15, FILE='MATFREAL', STATUS='UNKNOWN')
! DO JQ =1,NQUIN
! WRITE (15, 4002) QUIN (JQ)
! WRITE (15, 4000) (J, J=1, NS (2) )
! DO I = NS (IP) , 1, -1
! WRITE (15, 4001) I, (IFREC (JQ, I, J) , J=1, NS (IP+1) )
! ENDDO
! ENDDO
! CLOSE (15)

c... ESCRITURA DE LA MATRIZ DE FRECUENCIA DE LAS EXTRACCIONES
! OPEN (16, FILE='MATFREX', STATUS='UNKNOWN')
! DO JQ = 1,NQUIN
! WRITE (16, 4002) QUIN (JQ)
! WRITE (16, 5000) (J, J=1, MAXP (IP+1, JQ) )
! DO I = MAXP (IP, JQ) , 1, -1
! WRITE (16, 5001) I, (IFRECE (JQ, I, J) , J=1, MAXP (IP+1, JQ) )
! ENDDO
! ENDDO
! CLOSE (16)

C*****IMPRESION DE FRECUENCIA DE ENERGIA*****19-NOV-01

! WRITE (25, 6000) (IC, IC=1, IENTE)
! WRITE (26, 6000) (IC, IC=1, IENTE)
! DO SQ=1, NP
! DO JQ=1, NQUIN

```

```

!      IF (SQ.EQ.1) THEN
!      WRITE (25,6001) QUIN(JQ), (IFREE(IC,SQ,JQ), IC=1,IENTE)
!      ELSE
!      WRITE (26,6001) QUIN(JQ), (IFREE(IC,SQ,JQ), IC=1,IENTE)
!      ENDIF
!      ENDDO
!
!      CLOSE (25)
!      CLOSE (26)

C... IMPRESION DE ALMACENAMIENTOS CUYO VALOR ES MAYOR QUE LA CURVA GUIA

      OPEN (74,FILE='SUPGUIAP1',STATUS='UNKNOWN')
      OPEN (75,FILE='SUPGUIAP2',STATUS='UNKNOWN')
      OPEN (76,FILE='SUPGUIAP3',STATUS='UNKNOWN')

      DO I=1,NP
        IF (I.EQ.1) IUN = 74
        IF (I.EQ.2) IUN = 75
        IF (I.EQ.3) IUN = 76
        WRITE (IUN,602)
        WRITE (IUN,500) TIT(I)
        WRITE (IUN,600)
      DO IC=1,ICONT(I)
        WRITE (IUN,601) IASGUIA(I,IC), IQSGUIA(I,IC), ALSGUIA(I,IC)
      ENDDO
      CLOSE (IUN)
    ENDDO

C..CIERRE DE UNIDADES DE LECTURA Y ESCRITURA
C
      DO L = 1,2
        CLOSE(L)
      ENDDO

      CLOSE(4)

      DO L = 6,7
        CLOSE(L)
      ENDDO

C..FORMATOS DE ESCRITURA

50  FORMAT (I4,1X,12F8.2)
55  FORMAT (1X,5('-',),A60,5('-',))
56  FORMAT (28X,' PRESA:',1X,A13)
103 FORMAT ('QUINCENA',1X,'ALM.INICIAL',1X,'INGRESO',4X,'VOL EVAP',
*2X,'EXT POL',3X,'EXT MODIF',2X,'EXT TOTAL',2X,'DERRAME',
*3X,'DEFICIT',2X,'ENERGÍA')
104 FORMAT (10X,'MILL M^3',3X,'MILL M^3',3X,'MILL M^3',2X,
*'MILL M^3',2X,'MILL M^3',4X,'MILL M^3',2X,'MILL M^3',2X,
*'MILL M^3',2X,'(GWH)')
105 FORMAT (46('-',),3X,I4,3X,46('-',))
106 FORMAT (A6,2X,F9.2,1X,F9.2,1X,F10.3,3X,F7.2,4X,F7.2,4X,F8.2,
*3X,F8.2,2X,F8.2,1X,F8.2)
500 FORMAT (A)
600 FORMAT (3X,'AÑO',3X,'QUINCENA',2X,'ALMACENAMIENTO(MILL M3)')
601 FORMAT (2X,I4,3X,A6,5X,F9.2)
602 FORMAT (5X,'ALMACENAMIENTOS MAYORES O IGUALES A LA CURVA GUIA')
2000 FORMAT (30('-',),1X,'RESUMEN ANUAL',1X,36('-',),/,
*1X,'AÑO',3X,'DERRAME',3X,'DEFICIT',2X,'ING HIST',
*2X,'EXT TOTAL',2X,'ALMAC PRO',2X,'ELEV PRO',2X,
*'ENER TOTAL',/,
*7X,'MILL M^3',2X,'MILL M^3',1X,'MILL M^3',2X,'MILL M^3',
*3X,'MILL M^3',4X,'(MSNM)',5X,'(GWH)')
2001 FORMAT (I4,1X,2(F8.2,1X),2X,F8.2,2X,F9.1,1X,2(F10.2),1X,F10.2)
2002 FORMAT ('TOTAL',2(F8.2,1X))
2003 FORMAT ('ALMACENAMIENTO INICIAL MÍNIMO REGISTRADO:',F9.2,1X
*'MILL M^3')
2004 FORMAT ('ENERGÍA PROMEDIO GENERADA EN LOS',1X,I3,1X,
*'AÑOS',':',1X,F8.2,1X,'GWH')
3000 FORMAT (/,/,1X,25('x'),1X,'RESUMEN QUINCENAL',1X,25('x'),/,
*26X,'P R O M E D I O S',/,14X,'ELEVACIÓN',5X,'ALMACENAMIENTO',
*5X,'ENERGÍA',/,16X,'MSNM',11X,'MILL M^3',10X,'GWH')
3001 FORMAT (1X,A6,6X,F8.2,9X,F8.2,8X,F8.2)
4000 FORMAT (6X,50(1X,I3))
4001 FORMAT (2X,I3,1X,50(I4))
4002 FORMAT (27X,'QUINCENA:',A6)
5000 FORMAT (24X,50(1X,I3))
5001 FORMAT (20X,I3,1X,50(I4))

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6000 FORMAT (27X, 50 (2X, I2))
6001 FORMAT (20X, A6, 1X, 50 (I4))
END

C-----
C      ***** DEFINICION DE SUBROUTINAS *****
C-----

      SUBROUTINE LEE_DATOS (CADE3, CADE, ELE, AREAS, VOLUM, DV)
!      USE MSFLIB

      PARAMETER (NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
      PARAMETER (MAXPUN= 60)

      COMMON/GENERALES/NS (NP), VMIN (NP), ENAMINO (NP), VTUMAX (NP),
*           DESF (NP), CAPMUE (NP), NPUN (NP), VUTIL (NP),
*           PEND (NP, NQUIN), ICONT (NP),
*           HPR (NP)
      COMMON/TITULOS/TITGEN, TIT (NP)
      COMMON/TIEMPO/NAN, AIN, IAXO (NAS), IASGUIA (NP, NQUIN*NAS)
      COMMON/COEFIC/CDV (NP), MAXP (NP, NQUIN), CG (NP, NQUIN)
      COMMON/VOLS/VINGH (NP, NAS), VIMED (NP, NQUIN), DELVOL (NP, NQUIN),
*           VMI (NP, NQUIN), VMA (NP, NQUIN), VINGHQ (NP, NAS, NQUIN)
      COMMON/ALMACENA/ALMAF (NP, NAS, NQUIN), ALMINI (NP)
      COMMON/EVAPORA/EPM (NP, NUMES), EPQ (NP, NQUIN)

      INTEGER AIN

      DIMENSION ELE (NP, MAXPUN), AREAS (NP, MAXPUN), VOLUM (NP, MAXPUN)
      DIMENSION IUL (NP)

C
C ...VARIABLES LOCALES
C
      CHARACTER*7 CADE (NP), CADE3
      CHARACTER*60 TITGEN
      CHARACTER*13 TIT

! DEFINIMOS LAS UNIDADES DE LECTURA
      DO L = 1, NP
          IUL (L) = L+1
      ENDDO

      OPEN (1, FILE=CADE3, STATUS='OLD') !ARCHIVO DE DATOS GENERALES
C
      READ (1, 555) TITGEN
      WRITE (*, 555) TITGEN
      DO KN = 1, NP
          READ (1, 555) TIT (KN)
          WRITE (*, 555) TIT (KN)
      ENDDO
      READ (1, *) NAN, AIN, DV
      PRINT *, NAN, AIN, DV
      READ (1, *) (NS (I), I=1, NP)
      PRINT *, (NS (I), I=1, NP)
      READ (1, *) (ALMINI (I), CAPMUE (I), VUTIL (I), I=1, NP)
      PRINT *, (ALMINI (I), CAPMUE (I), VUTIL (I), I=1, NP)
      READ (1, *) (VMIN (I), I=1, NP)
      PRINT *, (VMIN (I), I=1, NP)
      READ (1, *) (ENAMINO (I), I=1, NP)
      PRINT *, (ENAMINO (I), I=1, NP)
      READ (1, *) (VTUMAX (I), I=1, NP)
      PRINT *, (VTUMAX (I), I=1, NP)
      READ (1, *) (DESF (I), I=1, NP)
      PRINT *, (DESF (I), I=1, NP)
      READ (1, *) (HPR (I), I=1, NP)
      PRINT *, (HPR (I), I=1, NP)
      READ (1, *) (CDV (I), I=1, NP)
      PRINT *, (CDV (I), I=1, NP)
      READ (1, *) (NPUN (I), I=1, NP)
      PRINT *, (NPUN (I), I=1, NP)
      DO I = 1, NP
          READ (1, *) (ELE (I, J), J=1, NPUN (I))
          READ (1, *) (AREAS (I, J), J=1, NPUN (I))
          READ (1, *) (VOLUM (I, J), J=1, NPUN (I))
          WRITE (*, *) (ELE (I, J), J=1, NPUN (I))
          WRITE (*, *) (AREAS (I, J), J=1, NPUN (I))
          WRITE (*, *) (VOLUM (I, J), J=1, NPUN (I))
      ENDDO

```

```

!
!... LEE LAS LAMINAS MENSUALES PROMEDIO DE EVAPORACIÓN
DO I = 1, NP
  READ(1,*) (EPM(I,J),J=1,NUMES)
  WRITE(*,*) (EPM(I,J),J=1,NUMES)
!
  READ*
ENDDO
!... OBTIENE DE LAS LAMINAS MENSUALES DE EVAPORACION LAS QUINCENALES

DO I = 1, NP
  KON = 0
  DO K = 1, NUMES
    DO KO = 1, 2
      KON = KON+1
      EPQ(I,KON) = EPM(I,K)/2.0
      PRINT*, EPQ(I,KON), I, KON
!
      READ*
    ENDDO
  ENDDO
ENDDO

DO I= 1, NP
  READ(1,*) (VIMED(I,J),J=1,NQUIN)
  PRINT*, (VIMED(I,J),J=1,NQUIN)
  READ(1,*) (PEND(I,J),J=1,NQUIN)
  PRINT*, (PEND(I,J),J=1,NQUIN)
!
  READ*
ENDDO

DO I= 1, NP
  READ(1,*) (VMI(I,J),J=1,NQUIN)
  READ(1,*) (VMA(I,J),J=1,NQUIN)
ENDDO

DO I= 1, NP
  READ(1,*) (CG(I,J), J=1,NQUIN)
ENDDO

C... ABRE Y LEE LAS UNIDADES DE LECTURA DE LOS VOL HIST DE INGRESO
DO KO = 1, NP
  OPEN(IUL(KO), FILE=CADE(KO), STATUS='OLD')
  DO J = 1, NAN
    READ(IUL(KO),*) IAXO(J), (VINGHQ(KO,J,K), K =1,NQUIN)
  ENDDO
ENDDO

555 FORMAT(A)
END SUBROUTINE

SUBROUTINE LEE_POLITICAS(CADE4,ALMA,VOLEX,IP)
PARAMETER(NP =3,NQUIN = 24,NAS=110, NUMES = 12)
PARAMETER(NE1 = 8, NE2 =7, NE3 =13)
PARAMETER(MAXPUN= 60)

COMMON/GENERALES/NS(NP),VMIN(NP),ENAMINO(NP),VTUMAX(NP),
* DESF(NP),CAPMUE(NP),NPUN(NP),VUTIL(NP),
* PEND(NP,NQUIN),ICONT(NP),
* HPR(NP)

DIMENSION ALMA(NP,NUMES,NE1,NE2,NE3),VOLEX(NP,NUMES,NE1,NE2,NE3)
C
C.. VARIABLES LOCALES
C
CHARACTER*7 CADE4

OPEN(31,FILE=CADE4,STATUS='OLD')

DO J =1,NUMES
  DO I1 = 1, NS(IP)
    DO I2 = 1, NS(IP+1)
      DO I3 = 1,NS(IP+2)
        READ(31,*)
* (ALMA(I,J,I1,I2,I3),I=1,NP),(VOLEX(I,J,I1,I2,I3),I=1,NP)
      ENDDO
    ENDDO
  ENDDO
ENDDO

```

```

END SUBROUTINE

SUBROUTINE POLEX (IP, IQ, DV, VOLEX, EXTRAQ)
PARAMETER (NP = 3, NQUIN = 24, NAS=110, NUMES =12)
PARAMETER (NE1=8, NE2=7, NE3 =13)
PARAMETER (MAXPUN= 60)

COMMON/GENERALES/NS (NP), VMIN (NP), ENAMINO (NP), VTUMAX (NP),
*          DESF (NP), CAPMUE (NP), NPUN (NP), VUTIL (NP),
*          PEND (NP, NQUIN), ICONT (NP),
*          HPR (NP)

COMMON/TIEMPO/NAN, AIN, IAXO (NAS), IASGUIA (NP, NQUIN*NAS)
COMMON/ALMACENA/ALMAF (NP, NAS, NQUIN), ALMINI (NP)
INTEGER AIN

DIMENSION EXTRAQ (NP, NQUIN)
DIMENSION VOLEX (NP, NUMES, NE1, NE2, NE3)
INTEGER ESTADO (NP)

C... AHORA DEBEMOS DE TOMAR LA EXTRACCION TAL COMO LO DICTA LA POLÍTICA
C SIN INTERPOLAR
C
      IAUX = NINT (IQ/2.0)
      DO IX = 1, NP
        IF (ALMINI (IX) .LE. 0.0) THEN
          PRINT*, 'PRESA CON ALMINI CERO O NEGATIVO:', IX
          READ*
          ENDIF
          EAUX = ALMINI (IX) /DV

          PRINT*, 'EAUX', EAUX
          ESTADO (IX) = NINT (EAUX)
          IF (ESTADO (IX) .LE. 0) THEN
            ESTADO (IX) = 1
            PRINT*, 'ESTADO CORRESPONDIENTE', ESTADO (IX), 'PRESA', IX
            PRINT*, 'ALMACENAMIENTO:', ALMINI (IX)
            READ*
            ENDIF
          ENDDO
          DO IX1 = 1, NP
            *      EXTRAQ (IX1, IQ) = (VOLEX (IX1, IAUX, ESTADO (IP),
            *          ESTADO (IP+1), ESTADO (IP+2))) /2.0
            EXTRAQ (IX1, IQ) = EXTRAQ (IX1, IQ)
            PRINT*, 'LAS EXTRACCIONES SON'
            PRINT*, EXTRAQ (IX1, IQ)
            READ*
          ENDDO
        RETURN
      END SUBROUTINE

SUBROUTINE CORREL (II, JJ, KK, EXPOL, EXTQM)
PARAMETER (NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
PARAMETER (MAXPUN= 60)

COMMON/GENERALES/NS (NP), VMIN (NP), ENAMINO (NP), VTUMAX (NP),
*          DESF (NP), CAPMUE (NP), NPUN (NP), VUTIL (NP),
*          PEND (NP, NQUIN), ICONT (NP),
*          HPR (NP)
COMMON/TIEMPO/NAN, AIN, IAXO (NAS), IASGUIA (NP, NQUIN*NAS)
COMMON/COEFIC/CDV (NP), MAXP (NP, NQUIN), CG (NP, NQUIN)
COMMON/VOLS/VINGH (NP, NAS), VIMED (NP, NQUIN), DELVOL (NP, NQUIN),
*          VMI (NP, NQUIN), VMA (NP, NQUIN), VINGHQ (NP, NAS, NQUIN)
COMMON/ALMACENA/ALMAF (NP, NAS, NQUIN), ALMINI (NP)
INTEGER AIN
DIMENSION EXTQM (NP, NQUIN)
DIMENSION EXPOL (NP, NQUIN)

C...
C ...SE ASIGNA EL VOL DE LA POLITICA PARA VER SI SE MODIFICA O NO
C
      EXTQM (KK, JJ) = EXPOL (KK, JJ)

      IF (II.EQ.1) THEN !PARA AÑO UNO
        EXTQM (KK, JJ) = EXPOL (KK, JJ)
      ELSE

      IF (KK.EQ.1) THEN

```

```

      IF (JJ.EQ.1.OR.JJ.EQ.2) THEN
        CALL AJUSTA(KK, JJ, II, EXTQM)
        CALL COMPARA(KK, JJ, EXTQM)
      ELSE ! ESTE ES EL ELSE DE JJ.EQ.1.OR.JJ.EQ.2
        CALL AJUSTA(KK, JJ, II, EXTQM)
        CALL COMPARA(KK, JJ, EXTQM)
      ENDIF ! FIN DEL IF DE JJ.EQ.1.OR.JJ.EQ.2
    ELSE ! ESTE ES EL ELSE DE KK.EQ.1
      IF (JJ.EQ.1.OR.JJ.EQ.2) THEN
        CALL AJUSTA(KK, JJ, II, EXTQM)
        CALL COMPARA(KK, JJ, EXTQM)
      ELSE ! ESTE ES EL ELSE DE JJ.EQ.1.OR.JJ.EQ.2 PERO DE LA PRESA 2
        CALL AJUSTA(KK, JJ, II, EXTQM)
        CALL COMPARA(KK, JJ, EXTQM)
      ENDIF ! FIN DEL CONDICIONANTE DE JJ PARA PRESA 2

    ENDIF ! FIN DEL CONDICIONANTE DE KK.EQ.1
  ENDIF ! FIN DEL IF DE II IGUAL A UNO
  RETURN
END SUBROUTINE

SUBROUTINE COMPARA(PRESA, IQ, EXTQM)
!
  USE MSFLIB
  PARAMETER(NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
  PARAMETER(MAXPUN= 60)

  COMMON/GENERALES/NS(NP), VMIN(NP), ENAMINO(NP), VTUMAX(NP),
*      DESF(NP), CAPMUE(NP), NPUN(NP), VUTIL(NP),
*      PEND(NP, NQUIN), ICONT(NP),
*      HPR(NP)
  COMMON/VOLS/VINGH(NP, NAS), VIMED(NP, NQUIN), DELVOL(NP, NQUIN),
*      VMI(NP, NQUIN), VMA(NP, NQUIN), VINGHQ(NP, NAS, NQUIN)

  DIMENSION EXTQM(NP, NQUIN)
  INTEGER PRESA

  IF (EXTQM(PRESA, IQ).LT.VMI(PRESA, IQ))
*      EXTQM(PRESA, IQ)=VMI(PRESA, IQ) ! SE REVISAS SI ES MENOR QUE EL VMIN
  IF (EXTQM(PRESA, IQ).GT.(VTUMAX(PRESA)/2.0))
*      EXTQM(PRESA, IQ)=VTUMAX(PRESA)/2.0 ! SE REVISAS SI ES MAYOR QUE EL VOL TUR

  END SUBROUTINE

SUBROUTINE AJUSTA(PRESA, IQ, IAX, EXTQM)
!
  USE MSFLIB
  PARAMETER(NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
  PARAMETER(MAXPUN= 60)

  COMMON/GENERALES/NS(NP), VMIN(NP), ENAMINO(NP), VTUMAX(NP),
*      DESF(NP), CAPMUE(NP), NPUN(NP), VUTIL(NP),
*      PEND(NP, NQUIN), ICONT(NP),
*      HPR(NP)
  COMMON/COEFIC/CDV(NP), MAXP(NP, NQUIN), CG(NP, NQUIN)
  COMMON/TIEMPO/NAN, AIN, IAXO(NAS), IASGUIA(NP, NQUIN*NAS)
  COMMON/VOLS/VINGH(NP, NAS), VIMED(NP, NQUIN), DELVOL(NP, NQUIN),
*      VMI(NP, NQUIN), VMA(NP, NQUIN), VINGHQ(NP, NAS, NQUIN)

  INTEGER AIN

  DIMENSION EXTQM(NP, NQUIN)
  INTEGER PRESA

  IF (IQ.EQ.1.OR.IQ.EQ.2) THEN
    IAJ=(NUMES*2)
    IAO=IAJ-1
  ELSE
    IAJ = IQ-2
    IAO = IAJ
  ENDIF

  DELVOL(PRESA, IQ)=CDV(PRESA)*PEND(PRESA, IAJ)*
*      (VINGHQ(PRESA, IAO, IAJ)-VIMED(PRESA, IAJ)) ! CDV
  EXTQM(PRESA, IQ)=EXTQM(PRESA, IQ)+DELVOL(PRESA, IQ)

  END SUBROUTINE

SUBROUTINE INTERLIN(X, Y, VPINT, VINT, IP)
  PARAMETER(NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
  PARAMETER(MAXPUN= 60)

  COMMON/GENERALES/NS(NP), VMIN(NP), ENAMINO(NP), VTUMAX(NP),

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*           DESF (NP) , CAPMUE (NP) , NPUN (NP) , VUTIL (NP) ,
*           PEND (NP, NQUIN) , ICONT (NP) ,
*           HPR (NP)

DIMENSION X (NP, MAXPUN) , Y (NP, MAXPUN)
PRINT* , 'ENTRE A INTERPOLAR CON ' , VPINT , 'EN LA PRESA' , IP
PRINT* , NPUN (IP)
! READ*

DO KI = 1, NPUN (IP) -1
  IF (VPINT .GE. X (IP, KI) .AND. VPINT .LE.
*     X (IP, KI+1)) THEN
    T1 = (VPINT - X (IP, KI)) / (X (IP, KI+1) - X (IP, KI))
    T = T1 * (Y (IP, KI+1) - Y (IP, KI))
    VINT = T + Y (IP, KI)
    IF (VINT .GE. Y (IP, NPUN (IP))) THEN
      PRINT* , 'ALGO ANDA MAL EN' , IP , KI , KI+1
      PRINT* , Y (IP, KI+1) , Y (IP, KI)
!     READ*
      ENDIF
      GO TO 1000
    ENDIF
1000 ENDDO
RETURN
END SUBROUTINE

! SUBROUTINE MATEN (KK, JJ, IFREE, ICLA)
! PARAMETER (NP = 3, NQUIN = 24, NAS=110, NUMES = 12)
! PARAMETER (IENTE = 10)
! PARAMETER (MAXPUN= 60)

! COMMON/VARIQUI/ELEQUI (NP, NQUIN) , ALMAQUI (NP, NQUIN) ,
! * ENERQUI (NP, NQUIN) , ENERGIA (NP, NQUIN)
! DIMENSION IFREE (IENTE, NP, NQUIN)

! DO IC=1, IENTE
! ICLA = ICLA+100
! IF (ENERGIA (KK, JJ) .LE. ICLA) then
! IFREE (IC, KK, JJ) = IFREE (IC, KK, JJ) +1
! GOTO 325
! ENDF
! ENDDO

!325 RETURN
! END SUBROUTINE

CHARACTER*2 FUNCTION CAR (K)
KD=10
MU = MOD ( K , KD) + 48
MD = K / KD + 48
CAR = CHAR ( MD ) // CHAR ( MU )
END

```