
 * EL POTENCIAL TEORICO TOTAL DEL RIO FORTALEZA ES DE 114.2 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 280.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.41 MW/KM *

POTENCIAL TEORICO DEL RIO FORTALEZA 12/17/74

I	L	H	Z	AFQ	DL	DH	PE	UC	POT	ESP	CUM
AFLUENTE MANCA											
1	23.0	4415.0	0.0	0.0	13.0	1740.0	13.38	0.15	2.58	0.20	0.00
2	10.0	2675.0	0.3	0.0	10.0	950.0	9.50	0.41	3.83	0.38	2.58
3	0.0	1725.0	0.5	0.0							6.41
SUBTOTAL					23.0	2690.0			6.41	0.28	
AFLUENTE HUAYLLAPAMPA											
4	30.0	4420.0	0.0	0.0	10.0	1010.0	10.10	0.16	1.59	0.16	0.00
5	20.0	3410.0	0.3	0.0	10.0	1190.0	11.90	0.41	4.84	0.48	1.59
6	10.0	2220.0	0.5	0.0	10.0	795.0	7.95	0.58	4.55	0.46	6.43
7	0.0	1425.0	0.5	0.0							10.98
SUBTOTAL					30.0	2995.0			10.98	0.37	
AFLUENTE PURISIMA											
8	35.0	4525.0	0.0	0.0	5.0	445.0	8.90	0.05	0.21	0.04	0.00
9	30.0	4080.0	0.1	0.0	10.0	1580.0	15.80	0.23	3.62	0.36	0.21
10	20.0	2500.0	0.4	0.0	10.0	1085.0	10.85	0.48	5.09	0.51	5.83
11	10.0	1415.0	0.6	0.0	10.0	705.0	7.05	0.61	4.24	0.42	8.91
12	0.0	710.0	0.7	0.0							13.15
SUBTOTAL					35.0	3815.0			13.15	0.38	
AFLUENTE HUANCAPAMPA											
13	25.0	2150.0	0.0	0.0	5.0	650.0	13.00	0.01	0.07	0.01	0.00
14	20.0	1500.0	0.0	0.0	10.0	878.0	8.78	0.04	0.31	0.03	0.07
15	10.0	622.0	0.1	0.0	10.0	457.0	4.57	0.06	0.25	0.03	0.37
16	0.0	165.0	0.1	0.0							0.63
SUBTOTAL					25.0	1985.0			0.63	0.03	
AFLUENTE JULGUILLAS											
17	60.0	4500.0	0.0	0.0	10.0	1550.0	15.50	0.16	2.36	0.24	0.00
18	50.0	2950.0	0.3	0.0	10.0	1050.0	10.50	0.36	3.92	0.39	2.36
19	40.0	1900.0	0.5	0.0	10.0	700.0	7.00	0.54	3.71	0.37	6.28
20	30.0	1200.0	0.6	0.0	10.0	527.0	5.27	0.66	3.42	0.34	10.00
21	20.0	673.0	0.7	0.0	10.0	388.0	3.88	0.47	1.80	0.18	13.41
22	10.0	285.0	0.2	0.0	10.0	205.0	2.05	0.27	0.54	0.05	15.21
23	0.0	80.0	0.3	0.0							15.75
SUBTOTAL					60.0	4420.0			15.75	0.26	

POTENCIAL TEORICO DEL RIO FORTALEZA

12/17/75

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE FORTALEZA A											
24	107.0	4710.0	0.0	0.0							0.00
25	100.0	4150.0	0.2	0.0	7.0	560.0	8.00	0.06	0.44	0.06	0.44
26	90.0	3235.0	0.7	0.0	10.0	915.0	9.15	0.44	3.94	0.39	4.38
27	80.0	2590.0	1.1	0.0	10.0	645.0	6.45	0.91	5.74	0.57	10.12
28	70.0	1725.0	1.5	0.5	10.0	865.0	8.65	1.28	10.86	1.09	20.98
29	66.0	1425.0	2.0	0.6	4.0	300.0	7.50	2.03	5.98	1.49	26.95
30	59.0	1065.0	3.1	0.0	7.0	360.0	5.14	2.89	10.21	1.46	37.16
31	49.0	710.0	3.3	0.7	10.0	355.0	3.55	3.19	11.11	1.11	48.27
32	42.0	470.0	3.1	0.0	7.0	240.0	3.43	3.51	8.25	1.18	56.52
33	32.0	275.0	2.6	0.0	10.0	195.0	1.95	2.83	5.42	0.54	61.95
=====											
SUBTOTAL					75.0	4435.0			61.95	0.83	
=====											
AFLUENTE FORTALEZA B											
33	32.0	275.0	2.6	0.0							0.00
34	24.0	165.0	2.1	0.1	8.0	110.0	1.37	2.36	2.55	0.32	2.55
35	17.0	91.0	1.7	0.0	7.0	74.0	1.06	1.94	1.41	0.20	3.96
36	16.0	80.0	1.2	0.3	1.0	11.0	1.10	1.45	0.16	0.16	4.12
37	0.0	0.0	1.5	0.0	16.0	80.0	0.50	1.50	1.18	0.07	5.30
=====											
SUBTOTAL					32.0	275.0			5.30	0.17	

 * EL POTENCIAL TEORICO TOTAL DEL RIO PATIVILCA ES DE 1675.1 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 514.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 3.26 MW/KM *

POTENCIAL TEORICO DEL RIO PATIVILCA 12/17/78

I	L	H	Q	AFG	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE QUERO											
1	25.0	4350.0	0.1	0.0	5.0	390.0	7.80	0.40	1.55	0.31	0.00
2	20.0	3960.0	0.7	0.0	10.0	710.0	7.10	1.74	12.10	1.21	1.55
3	10.0	3250.0	2.8	0.0	10.0	600.0	6.00	3.54	20.85	2.09	13.65
4	0.0	2650.0	4.3	0.0							34.50
SUBTOTAL					25.0	1700.0			34.50	1.38	
=====											
AFLUENTE ACHIN											
5	22.0	4150.0	0.4	0.0	12.0	600.0	5.00	1.23	7.23	0.60	0.00
6	10.0	3550.0	2.1	0.0	10.0	775.0	7.75	2.41	18.29	1.83	7.23
7	0.0	2775.0	2.7	0.0							25.52
SUBTOTAL					22.0	1375.0			25.52	1.16	
=====											
AFLUENTE LLAMAC											
8	29.0	4550.0	0.0	0.0	7.0	400.0	5.71	0.25	0.98	0.14	0.00
9	22.0	4150.0	0.5	0.0	10.0	650.0	6.50	1.16	7.39	0.74	0.98
10	12.0	3500.0	1.9	0.0	10.0	725.0	7.25	2.17	15.40	1.54	8.37
11	2.0	2775.0	2.5	2.7	2.0	130.0	6.50	5.23	6.67	3.34	23.77
12	0.0	2645.0	5.2	0.0							30.44
SUBTOTAL					29.0	1905.0			30.44	1.05	
=====											
AFLUENTE YANAYACO											
13	19.0	4550.0	0.0	0.0	9.0	1750.0	19.44	0.27	4.59	0.51	0.00
14	10.0	2800.0	0.5	0.0	10.0	810.0	8.10	0.87	6.89	0.69	4.59
15	0.0	1990.0	1.2	0.0							11.48
SUBTOTAL					19.0	2560.0			11.48	0.60	
=====											
AFLUENTE HUAMPAY											
16	16.0	4550.0	0.0	0.0	6.0	750.0	12.50	0.42	3.11	0.52	0.00
17	10.0	3800.0	0.8	0.0	10.0	1850.0	18.50	1.10	20.04	2.00	3.11
18	0.0	1950.0	1.4	0.0							23.15
SUBTOTAL					16.0	2600.0			23.15	1.45	
=====											
AFLUENTE PUMARINRI											
19	30.0	4645.0	0.0	0.0	10.0	445.0	4.45	0.70	3.05	0.31	0.00
20	20.0	4200.0	1.4	0.0	10.0	300.0	3.00	2.17	6.38	0.64	3.05
21	10.0	3900.0	3.0	0.0	10.0	1055.0	10.55	3.28	33.96	3.40	9.43
22	0.0	2845.0	3.6	0.0							43.40
SUBTOTAL					30.0	1800.0			43.40	1.45	
=====											

POTENCIAL TEORICO DEL RIO PATIVILCA 12/17/78

I	L	H	Q	AFO	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE CUCHICHACA											
23	23.0	4620.0	0.1	0.0							0.00
					13.0	1620.0	12.46	1.13	17.96	1.38	
24	10.0	3000.0	2.2	0.0							17.96
					10.0	1110.0	11.10	2.36	25.74	2.57	
25	0.0	1890.0	2.5	0.0							43.70
					SUBTOTAL	23.0	2730.0		43.70	1.90	
=====											
AFLUENTE RAPAY											
26	38.0	4600.0	0.2	0.0							0.00
					5.0	600.0	12.00	0.67	3.92	0.78	
27	33.0	4000.0	1.2	0.0							3.92
					10.0	1155.0	11.55	2.63	29.77	2.98	
28	23.0	2845.0	4.1	3.6							33.69
					10.0	955.0	9.55	7.94	74.41	7.44	
29	13.0	1890.0	8.2	2.5							108.10
					13.0	515.0	3.96	11.15	56.34	4.33	
30	0.0	1375.0	11.6	0.0							164.44
					SUBTOTAL	38.0	3225.0		164.44	4.33	
=====											
AFLUENTE GORGOW											
31	45.0	4600.0	0.0	0.0							0.00
					5.0	450.0	9.00	0.39	1.72	0.34	
32	40.0	4150.0	0.8	0.0							1.72
					10.0	450.0	4.50	1.78	7.86	0.79	
33	30.0	3700.0	2.8	0.0							9.58
					10.0	675.0	6.75	3.99	26.40	2.64	
34	20.0	3025.0	5.2	0.0							35.98
					10.0	945.0	9.45	6.07	56.32	5.63	
35	10.0	2080.0	7.0	0.0							92.29
					10.0	890.0	8.90	7.31	63.81	6.38	
36	0.0	1190.0	7.6	0.0							156.10
					SUBTOTAL	45.0	3410.0		156.10	3.47	
=====											
AFLUENTE GUERRORAGRA											
37	23.0	4725.0	0.0	0.0							0.00
					13.0	2975.0	22.88	0.23	6.85	0.53	
38	10.0	1750.0	0.4	0.0							6.85
					10.0	910.0	9.10	0.46	4.09	0.41	
39	0.0	840.0	0.5	0.0							10.93
					SUBTOTAL	23.0	3885.0		10.93	0.48	
=====											
AFLUENTE LLATO											
40	27.0	4700.0	0.0	0.0							0.00
					7.0	1100.0	15.71	0.26	2.79	0.40	
41	20.0	3600.0	0.5	0.0							2.79
					10.0	850.0	8.50	1.00	8.36	0.84	
42	10.0	2750.0	1.5	0.0							11.15
					10.0	1575.0	15.75	1.59	24.50	2.45	
43	0.0	1175.0	1.6	0.0							35.65
					SUBTOTAL	27.0	3525.0		35.65	1.32	
=====											
AFLUENTE OCROS											
44	50.0	4550.0	0.1	0.0							0.00
					12.0	600.0	5.00	0.83	4.89	0.41	
45	38.0	3950.0	1.5	0.0							4.89
					10.0	850.0	8.50	2.63	21.95	2.20	
46	28.0	3100.0	3.7	0.0							26.84
					10.0	1100.0	11.00	3.99	43.06	4.31	
47	18.0	2000.0	4.3	0.0							69.90
					10.0	825.0	8.25	4.28	34.66	3.47	
48	8.0	1175.0	4.3	1.6							104.56
					8.0	520.0	6.50	5.96	30.39	3.80	
49	0.0	655.0	6.0	0.0							134.95
					SUBTOTAL	50.0	3895.0		134.95	2.70	
=====											

POTENCIAL TEORICO DEL RIO PATIVILCA 12/17/78

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
AFLUENTE PATIVILCASUP											
50	167.0	4680.0	0.0	0.0	7.0	540.0	7.71	0.69	3.65	0.52	0.00
51	160.0	4140.0	1.4	0.0	10.0	215.0	2.15	2.59	5.45	0.55	3.85
52	150.0	3925.0	3.8	0.0	10.0	425.0	4.25	5.20	21.66	2.17	9.10
53	140.0	3500.0	6.6	0.0	10.0	450.0	4.50	7.41	32.73	5.27	30.75
54	130.0	3050.0	8.2	0.0	10.0	400.0	4.00	8.79	34.48	5.45	63.49
55	120.0	2650.0	9.3	4.3	1.0	5.0	0.50	13.66	0.67	0.67	97.97
56	119.0	2645.0	13.7	5.2	5.0	190.0	3.80	19.08	55.56	7.11	98.84
57	114.0	2455.0	19.2	0.0	10.0	465.0	4.65	19.32	88.14	8.81	134.19
58	104.0	1990.0	19.4	1.2	1.0	40.0	4.00	20.65	8.10	8.10	222.34
59	103.0	1950.0	20.7	1.4	10.0	260.0	2.60	22.77	58.07	5.81	230.44
60	93.0	1690.0	23.5	0.0	10.0	315.0	3.15	23.63	73.03	7.30	268.51
61	83.0	1375.0	23.8	11.6	7.0	185.0	2.64	35.39	64.23	9.18	361.54
62	76.0	1190.0	35.5	7.6	10.0	170.0	1.70	43.34	72.27	7.23	425.77
63	66.0	1020.0	43.6	0.0	10.0	180.0	1.80	44.23	78.10	7.81	498.04
64	56.0	840.0	44.9	0.5	11.0	185.0	1.68	43.69	79.29	7.21	578.14
65	45.0	655.0	42.0	6.0	10.0	175.0	1.75	48.05	82.48	8.25	655.43
66	35.0	480.0	48.1	0.0							737.91
SUBTOTAL					132.0	4200.0			737.91	5.59	

AFLUENTE PATIVILCAINF											
66	35.0	480.0	48.1	0.0	2.0	30.0	1.50	47.60	14.01	7.01	0.00
67	33.0	450.0	47.1	0.0	13.0	160.0	1.23	47.17	74.04	5.70	14.01
68	20.0	290.0	47.2	0.0	10.0	160.0	1.60	47.35	74.32	7.43	88.05
69	10.0	130.0	47.5	0.0	10.0	130.0	1.30	47.53	60.61	6.06	162.36
70	0.0	0.0	47.6	0.0							222.98
SUBTOTAL					35.0	480.0			222.98	6.37	

 * EL POTENCIAL TEORICO TOTAL DEL RIO SUPE ES DE 77.8 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 114.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.68 MW/KM *

POTENCIAL TEORICO DEL RIO SUPE 12/17/78

I	L	H	Q	AFO	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE AYNACA											
1	23.0	4550.0	0.0	0.0	13.0	2600.0	20.00	0.43	10.94	0.84	0.00
2	10.0	1950.0	0.8	0.0	10.0	800.0	8.00	0.91	7.17	0.72	10.94
3	0.0	1150.0	1.0	0.0							18.11
SUBTOTAL					23.0	3400.0			18.11	0.79	
AFLUENTE SUPESUPERIOR											
4	91.0	4700.0	0.0	0.0	11.0	650.0	5.91	0.08	0.50	0.05	0.00
5	80.0	4050.0	0.1	0.0	10.0	1200.0	12.00	0.68	8.04	0.80	0.50
6	70.0	2850.0	1.2	0.0	10.0	1030.0	10.30	1.52	15.37	1.54	8.54
7	60.0	1820.0	1.8	0.0	10.0	670.0	6.70	1.89	12.43	1.24	23.91
8	50.0	1150.0	2.0	1.0	5.0	170.0	3.40	2.86	4.77	0.95	36.34
9	45.0	980.0	2.8	0.0	10.0	380.0	3.80	2.53	9.42	0.94	41.11
10	35.0	600.0	2.3	0.0	10.0	220.0	2.20	1.82	3.93	0.39	50.53
11	25.0	380.0	1.4	0.0	10.0	170.0	1.70	1.38	2.29	0.23	54.46
12	15.0	210.0	1.4	0.0							56.75
SUBTOTAL					76.0	4490.0			56.75	0.75	
AFLUENTE SUPEINFERIOR											
12	15.0	210.0	1.4	0.0	5.0	90.0	1.80	1.41	1.24	0.25	0.00
13	10.0	120.0	1.4	0.0	10.0	120.0	1.20	1.42	1.67	0.17	1.24
14	0.0	0.0	1.4	0.0							2.91
SUBTOTAL					15.0	210.0			2.91	0.19	

 * EL POTENCIAL TEORICO TOTAL DEL RIO HUAURA ES DE 1061.5 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 360.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 2.95 MW/KM *

POTENCIAL TEORICO DEL RIO HUAURA 1/12/79

I	L	H	Q	AFO	DL	DM	PE	GC	POT	ESP	CUM
=====											
AFLUENTE PATON SUPER.											
1	9.0	4325.0	0.8	0.0	4.0	260.0	6.50	1.22	3.12	0.78	0.00
2	5.0	4065.0	1.6	0.0							3.12
SUBTOTAL					4.0	260.0			3.12	0.78	
=====											
AFLUENTE PATON INFER.											
2	5.0	4065.0	1.6	0.0	5.0	415.0	8.30	1.90	7.75	1.55	0.00
3	0.0	3650.0	2.2	0.0							7.75
SUBTOTAL					5.0	415.0			7.75	1.55	
=====											
AFLUENTE PANPAHUAY											
4	19.0	4535.0	0.1	0.0	4.0	405.0	10.12	0.19	0.77	0.19	0.00
5	15.0	4130.0	0.3	0.0	10.0	65.0	0.65	0.78	0.50	0.05	0.77
6	5.0	4065.0	1.3	2.2	5.0	695.0	13.90	3.75	25.59	5.12	1.27
7	0.0	3370.0	4.0	0.0							26.86
SUBTOTAL					19.0	1165.0			26.86	1.41	
=====											
AFLUENTE CUCHAQUILLOS											
8	14.0	4625.0	0.1	0.0	7.0	425.0	6.07	0.36	1.51	0.22	0.00
9	7.0	4200.0	0.7	0.0							1.51
SUBTOTAL					7.0	425.0			1.51	0.22	
=====											
AFLUENTE CUCHAQUILLOI											
9	7.0	4200.0	0.7	0.0	7.0	735.0	10.50	1.14	8.20	1.17	0.00
10	0.0	3465.0	1.6	0.0							8.20
SUBTOTAL					7.0	735.0			8.20	1.17	
=====											
AFLUENTE CHECRAS SUP.											
11	50.0	4815.0	0.0	0.0	12.0	595.0	4.96	0.72	4.21	0.35	0.00
12	38.0	4220.0	1.4	0.0	10.0	755.0	7.55	2.68	19.87	1.99	4.21
13	28.0	3465.0	3.9	1.6	7.0	455.0	6.50	5.91	26.66	3.81	24.08
14	21.0	3010.0	6.4	0.0	11.0	530.0	4.82	8.09	42.07	3.82	50.74
15	10.0	2480.0	9.8	0.0	10.0	355.0	3.55	10.57	36.79	3.68	92.81
16	0.0	2125.0	11.3	0.0							129.60
SUBTOTAL					50.0	2690.0			129.60	2.59	
=====											
AFLUENTE YARUCAYA											
17	32.0	4730.0	0.0	0.0	12.0	1450.0	12.08	0.38	5.44	0.45	0.00
18	20.0	3280.0	0.7	0.0	10.0	1035.0	10.35	1.55	15.75	1.58	5.44
19	10.0	2245.0	2.4	0.0	10.0	1070.0	10.70	2.55	26.78	2.68	21.19
20	0.0	1175.0	2.7	0.0							47.97
SUBTOTAL					32.0	3555.0			47.97	1.50	
=====											

POTENCIAL TEORICO DEL RIO HUAURA

1/12/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE IHUARI											
21	27.0	4640.0	0.0	0.0							0.00
22	20.0	3575.0	0.3	0.0	7.0	1065.0	15.21	0.16	1.64	0.23	1.64
23	10.0	2550.0	0.5	0.0	10.0	1025.0	10.25	0.38	3.79	0.38	5.43
24	0.0	1700.0	0.8	0.0	10.0	850.0	8.50	0.60	5.04	0.50	10.46
SUBTOTAL					27.0	2940.0			10.46	0.39	
=====											
AFLUENTE HUANANQUE SU											
25	51.0	4600.0	0.1	0.0							0.00
26	41.0	3590.0	0.9	0.0	10.0	1010.0	10.10	0.49	4.88	0.49	4.88
27	31.0	2500.0	2.0	0.0	10.0	1090.0	10.90	1.46	15.64	1.56	20.52
28	21.0	1700.0	2.2	0.8	10.0	800.0	8.00	2.08	16.33	1.63	36.85
29	20.0	1625.0	2.4	0.0	1.0	75.0	7.50	2.67	1.96	1.96	38.81
30	10.0	1095.0	2.0	0.0	10.0	530.0	5.30	2.23	11.60	1.16	50.41
31	1.0	715.0	2.2	0.0	9.0	380.0	4.22	2.12	7.91	0.88	58.32
SUBTOTAL					50.0	3885.0			58.32	1.17	
=====											
AFLUENTE HUANANQUE IN											
31	1.0	715.0	2.2	0.0							0.00
32	0.0	665.0	2.2	0.0	1.0	50.0	5.00	2.21	1.09	1.09	1.09
SUBTOTAL					1.0	50.0			1.09	1.09	
=====											
AFLUENTE HUAURA A											
33	158.0	4700.0	0.0	0.0							0.00
34	146.0	4357.0	0.8	0.0	12.0	343.0	2.86	0.43	1.45	0.12	1.45
SUBTOTAL					12.0	343.0			1.45	0.12	
=====											
AFLUENTE HUAURA B											
34	146.0	4357.0	0.8	0.0							0.00
35	141.0	4050.0	1.8	0.0	5.0	307.0	6.14	1.34	4.03	0.81	4.03
36	131.0	3425.0	5.1	0.0	10.0	625.0	6.25	.45	21.15	2.11	25.18
37	126.5	3370.0	5.1	4.0	2.5	55.0	2.20	.10	2.75	1.10	27.93
38	123.0	3050.0	10.0	0.0	5.5	320.0	5.82	.59	30.10	5.47	58.03
39	113.0	2740.0	11.2	0.0	10.0	310.0	3.10	10.60	32.25	3.22	90.28
40	103.0	2125.0	12.8	11.3	10.0	615.0	6.15	12.02	72.49	7.25	162.77
41	93.0	1760.0	24.5	0.0	10.0	365.0	3.65	24.32	87.08	8.71	249.85
42	83.0	1400.0	28.5	0.0	10.0	360.0	3.60	26.48	93.50	9.35	343.35
43	73.0	1175.0	27.2	2.7	10.0	225.0	2.25	27.86	61.49	6.15	404.85
44	65.0	950.0	30.1	0.0	8.0	225.0	2.81	30.04	66.31	8.29	471.16
SUBTOTAL					81.0	3407.0			471.16	5.82	
=====											
AFLUENTE HUAURA C											
44	65.0	950.0	30.1	0.0							0.00
45	51.0	685.0	31.3	0.0	14.0	265.0	1.89	30.70	79.81	5.70	79.81
SUBTOTAL					14.0	265.0			79.81	5.70	
=====											
AFLUENTE HUAURA D											
45	51.0	685.0	31.3	0.0							0.00
46	50.0	665.0	31.3	2.2	1.0	20.0	2.00	31.30	6.14	6.14	6.14
47	49.5	640.0	33.5	0.0	0.5	25.0	5.00	33.53	8.22	16.45	14.36
48	40.0	490.0	32.6	0.0	9.5	150.0	1.58	33.07	48.66	5.12	63.03
49	30.0	365.0	31.9	0.0	10.0	125.0	1.25	32.24	39.54	3.95	102.56
50	20.0	250.0	31.0	0.0	10.0	115.0	1.15	31.43	35.46	3.55	138.03
51	0.0	0.0	31.1	0.0	20.0	250.0	1.25	31.05	76.14	3.81	214.17
SUBTOTAL					51.0	685.0			214.17	4.20	

 * EL POTENCIAL TEORICO TOTAL DEL RIO CHANCAY ES DE 575.6 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 243.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 2.37 MW/KM *

POTENCIAL TEORICO DEL RIO CHANCAY 1/12/79

I	L	H	Q	AFR	DL	DH	PE	RC	POT	ESP	CUM
=====											
AFLUENTE BANOS											
1	24.0	4500.0	0.1	0.0							0.00
2	10.0	3900.0	1.8	0.0	14.0	600.0	4.29	0.96	5.74	0.41	5.74
3	0.0	2750.0	4.1	0.0	10.0	1150.0	11.50	2.96	33.64	5.36	39.38
SUBTOTAL					24.0	1750.0			39.36	1.64	
=====											
AFLUENTE QUIMAN											
4	22.0	4700.0	0.0	0.0							0.00
5	10.0	3600.0	1.0	0.0	12.0	1100.0	9.17	0.50	5.35	0.45	5.35
6	0.0	2350.0	1.9	0.0	10.0	1250.0	12.50	1.43	17.48	1.75	22.83
SUBTOTAL					22.0	2450.0			22.83	1.64	
=====											
AFLUENTE CARAC											
7	29.0	4725.0	0.0	0.0							0.00
8	19.0	4025.0	0.7	0.0	10.0	700.0	7.00	0.45	2.57	0.24	2.57
9	9.0	2350.0	1.4	1.9	10.0	1675.0	16.75	1.04	17.12	1.71	19.49
10	0.0	1575.0	3.5	0.0	9.0	775.0	8.61	3.39	25.74	2.86	45.23
SUBTOTAL					29.0	3150.0			45.23	1.56	
=====											
AFLUENTE ANASMAYO											
11	26.0	4575.0	0.1	0.0							0.00
12	20.0	3800.0	0.4	0.0	6.0	775.0	12.92	0.23	1.78	0.30	1.78
13	10.0	2175.0	1.3	0.0	10.0	1625.0	16.25	0.85	13.60	1.56	15.37
14	0.0	1190.0	1.5	0.0	10.0	985.0	9.85	1.41	13.59	1.56	28.96
SUBTOTAL					26.0	3365.0			23.96	1.11	
=====											
AFLUENTE HUATAYO											
15	31.0	4550.0	0.0	0.0							0.00
16	20.0	2950.0	0.6	0.0	11.0	1700.0	15.45	0.32	5.36	0.49	5.36
17	10.0	1800.0	0.9	0.0	10.0	1150.0	11.50	0.75	8.52	0.85	13.90
18	0.0	920.0	1.0	0.0	10.0	880.0	8.80	0.91	7.87	0.79	21.77
SUBTOTAL					31.0	3730.0			21.77	0.70	
=====											
AFLUENTE CHANCAY A											
19	111.0	4600.0	0.6	0.0							0.00
20	106.0	4300.0	0.6	0.0	5.0	300.0	6.00	0.59	1.73	0.35	1.73
21	96.0	3500.0	1.4	0.0	10.0	800.0	8.00	1.02	7.97	0.80	9.70
22	86.0	2750.0	4.5	4.1	10.0	750.0	7.50	2.96	21.79	2.18	31.49
23	77.0	2150.0	10.5	0.0	9.0	600.0	6.67	9.58	56.39	6.27	87.88
24	67.0	1575.0	11.2	3.5	10.0	575.0	5.75	10.84	81.16	6.12	149.04
25	58.0	1190.0	15.5	1.5	9.0	385.0	4.28	15.09	56.98	6.33	206.02
26	49.0	920.0	16.5	1.0	9.0	270.0	3.00	16.76	44.36	4.43	250.41
27	39.0	625.0	17.7	0.0	10.0	295.0	2.95	17.54	50.87	5.09	301.28
SUBTOTAL					72.0	3975.0			301.26	4.18	
=====											
AFLUENTE CHANCAY B											
27	39.0	625.0	17.7	0.0							0.00
28	20.0	280.0	19.3	0.0	19.0	345.0	1.82	16.52	62.69	3.30	62.69
29	0.0	0.0	19.5	0.0	20.0	280.0	1.40	19.44	53.41	2.67	116.10
SUBTOTAL					39.0	625.0			116.10	2.98	

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*
* EL POTENCIAL TEORICO TOTAL DEL RIO CHILLON      ES DE    352.3 MW
*
*
*           Y TIENE UNA LONGITUD ACUMULADA DE    211.0 KM
*
*
*           Y UN POTENCIAL ESPECIFICO DE        1.57 MW/KM
*
*****

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POTENCIAL TEORICO DEL RIO CHILLON 1/12/79

I	L	H	Q	AFQ	DL	DH	PE	UC	POT	ESP	CUM
=====											
AFLUENTE YAMECUTU											
1	12.0	4750.0	0.0	0.0							0.00
2	0.0	3100.0	1.4	0.0	12.0	1650.0	13.75	0.73	11.89	0.99	11.89
SUBTOTAL					12.0	1650.0			11.89	0.99	
=====											
AFLUENTE QBA HUAUCHO											
3	15.0	4625.0	0.0	0.0							0.00
4	10.0	4200.0	0.4	0.0	5.0	425.0	8.50	0.20	0.85	0.17	0.85
5	0.0	2548.0	0.7	0.0	10.0	1652.0	16.52	0.54	8.73	0.87	9.57
SUBTOTAL					15.0	2077.0			9.57	0.64	
=====											
AFLUENTE QBA UCANAN											
6	19.0	4400.0	0.0	0.0							0.00
7	10.0	2850.0	0.2	0.0	9.0	1550.0	17.22	0.10	1.57	0.17	1.57
8	0.0	1500.0	0.3	0.0	10.0	1350.0	13.50	0.27	3.56	0.36	5.12
SUBTOTAL					19.0	2900.0			5.12	0.27	
=====											
AFLUENTE QUISQUICHACA											
9	41.0	4450.0	0.0	0.0							0.00
10	30.0	3650.0	0.8	0.0	11.0	800.0	7.27	0.44	3.46	0.31	3.46
11	20.0	2925.0	1.8	0.0	10.0	725.0	7.25	1.34	9.51	0.95	12.97
12	10.0	1700.0	2.2	0.0	10.0	1225.0	12.25	2.04	24.49	2.45	37.46
13	0.0	1140.0	3.2	0.0	10.0	560.0	5.60	2.70	14.86	1.49	52.31
SUBTOTAL					41.0	3310.0			52.31	1.28	
=====											
AFLUENTE CHILLON A											
14	124.0	4600.0	0.0	0.0							0.00
15	119.0	4548.0	0.5	0.0	5.0	52.0	1.04	0.25	0.13	0.03	0.13
16	109.0	3980.0	1.5	0.0	10.0	568.0	5.68	0.99	5.54	0.55	5.67
17	99.0	3200.0	2.5	0.0	10.0	780.0	7.80	2.01	15.36	1.54	21.02
SUBTOTAL					25.0	1400.0			21.02	0.84	
=====											
AFLUENTE CHILLON B											
17	99.0	3200.0	2.5	0.0							0.00
18	94.0	3100.0	2.8	1.4	5.0	100.0	2.00	2.64	2.59	0.52	2.59
19	89.0	2700.0	4.9	0.0	5.0	400.0	8.00	4.56	17.89	3.58	20.48
SUBTOTAL					10.0	500.0			20.48	2.05	
=====											

POTENCIAL TEORICO DEL RIO CHILLON

1/12/79

I	L	H	Q	AFQ	DL	DM	PE	PC	POT	ESP	CUM
=====											
AFLUENTE CHILLON C											
19	89.0	2700.0	4.9	0.0							0.00
20	88.0	2548.0	5.0	0.7	1.0	152.0	15.20	4.96	7.40	7.40	7.40
21	78.0	2000.0	6.3	0.0	10.0	548.0	5.48	6.01	32.31	3.23	39.70
22	68.0	1500.0	6.9	0.3	10.0	500.0	5.00	6.58	32.30	3.23	72.00
23	58.0	1170.0	7.3	0.0	10.0	330.0	3.30	7.29	23.59	2.36	95.59
24	57.0	1140.0	6.9	3.2	1.0	30.0	3.00	7.10	2.09	2.09	97.68
25	54.0	1050.0	9.4	0.0	3.0	90.0	3.00	9.72	8.58	2.86	106.27
26	51.0	950.0	9.5	0.0	3.0	100.0	3.33	9.46	9.28	3.09	115.55
SUBTOTAL					38.0	1750.0			115.55	3.04	
=====											
AFLUENTE CHILLON D											
26	51.0	950.0	9.5	0.0							0.00
27	47.0	820.0	10.1	0.0	4.0	130.0	3.25	9.80	12.44	3.12	12.49
28	34.0	470.0	10.3	0.0	13.0	350.0	2.69	10.22	35.00	2.70	47.58
29	21.0	295.0	10.5	0.0	13.0	175.0	1.35	10.44	17.92	1.38	65.49
30	11.0	125.0	10.7	0.0	10.0	170.0	1.70	10.62	17.70	1.77	83.20
31	1.0	30.0	10.7	0.0	10.0	95.0	0.95	10.72	9.99	1.00	93.19
32	0.0	0.0	10.7	0.0	1.0	30.0	3.00	10.75	3.16	3.16	96.35
SUBTOTAL					51.0	950.0			96.35	1.89	

 * EL POTENCIAL TEORICO TOTAL DEL RIO RIMAC ES DE 686.9 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 298.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 2.98 MW/KM *

POTENCIAL TEORICO DEL RIO RIMAC 1/12/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE RIO BLANCO 1											
1	33.0	4900.0	0.0	0.0							0.00
2	32.0	4800.0	1.2	0.0	1.0	100.0	10.00	0.64	0.63	0.63	0.63
3	21.0	4295.0	2.6	0.0	11.0	505.0	4.59	1.92	9.50	0.86	10.13
SUBTOTAL					12.0	605.0			10.13	0.84	
=====											
AFLUENTE RIO BLANCO 2											
3	21.0	4295.0	2.6	0.0							0.00
4	11.0	4120.0	4.7	0.0	10.0	175.0	1.75	3.67	6.29	0.63	6.29
5	1.0	3600.0	3.1	0.0	10.0	520.0	5.20	3.92	19.97	2.00	26.27
SUBTOTAL					20.0	695.0			26.27	1.31	
=====											
AFLUENTE RIO BLANCO 3											
5	1.0	3600.0	3.1	0.0							0.00
6	0.0	3570.0	4.2	0.0	1.0	30.0	3.00	3.67	1.08	1.08	1.08
SUBTOTAL					1.0	30.0			1.08	1.08	
=====											
AFLUENTE RIO PARAC											
7	20.0	4650.0	0.0	0.0							0.00
8	10.0	4025.0	1.1	0.0	10.0	625.0	6.25	0.54	3.31	0.33	3.31
9	0.0	3170.0	1.8	0.0	10.0	855.0	8.55	1.42	11.90	1.19	15.20
SUBTOTAL					20.0	1480.0			15.20	0.76	
=====											
AFLUENTE CANCHACALLA											
10	21.0	4600.0	0.0	0.0							0.00
11	10.0	2350.0	0.3	0.0	11.0	2250.0	20.45	0.15	3.31	0.30	3.31
12	0.0	1200.0	1.3	0.0	10.0	1150.0	11.50	0.76	8.62	0.86	11.92
SUBTOTAL					21.0	3400.0			11.92	0.57	
=====											
AFLUENTE RIO SUNCHI											
13	20.0	4680.0	0.1	0.0							0.00
14	10.0	4225.0	0.3	0.0	10.0	455.0	4.55	0.17	0.76	0.08	0.76
15	0.0	3460.0	0.5	0.0	10.0	765.0	7.65	0.39	2.96	0.30	3.72
SUBTOTAL					20.0	1220.0			3.72	0.19	
=====											
AFLUENTE ORCOBAMBA											
16	19.0	4400.0	0.3	0.0							0.00
17	10.0	3880.0	0.8	0.0	9.0	520.0	5.78	0.52	2.65	0.29	2.65
18	0.0	3130.0	1.1	0.0	10.0	750.0	7.50	0.93	6.87	0.69	9.52
SUBTOTAL					19.0	1270.0			9.52	0.50	
=====											

POTENCIAL TEORICO DEL RIO RIMAC

1/12/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE S EULALIA A											
19	59.0	4350.0	3.2	0.0	3.0	100.0	3.33	5.24	3.18	1.06	0.00
20	56.0	4250.0	3.3	0.0	4.0	300.0	7.50	3.56	10.49	2.62	3.18
21	52.0	3950.0	3.9	0.0	10.0	490.0	4.90	3.96	19.01	1.90	13.66
22	42.0	3460.0	4.0	0.5	5.0	330.0	6.60	4.85	15.70	3.14	32.68
23	37.0	3130.0	5.2	1.1	4.0	280.0	7.00	5.11	14.04	3.51	48.38
24	33.0	2850.0	4.0	0.0	10.0	700.0	7.00	4.38	30.09	3.01	62.42
25	23.0	2150.0	4.8	0.0							92.52
SUBTOTAL					36.0	2200.0			92.52	2.57	
=====											
AFLUENTE S EULALIA B											
25	23.0	2150.0	4.8	0.0	2.0	200.0	10.00	3.18	6.24	5.12	0.00
26	21.0	1950.0	1.6	0.0	11.0	625.0	5.68	2.23	13.70	1.25	6.24
27	10.0	1325.0	2.9	0.0	10.0	395.0	3.95	3.06	11.86	1.19	19.94
28	0.0	930.0	3.2	0.0							31.80
SUBTOTAL					23.0	1220.0			31.80	1.58	
=====											
AFLUENTE RIMAC A											
29	126.0	4800.0	0.1	0.0	7.0	620.0	8.86	1.64	9.98	1.43	0.00
30	119.0	4180.0	3.2	0.0	10.0	610.0	6.10	4.93	29.47	2.95	9.98
31	109.0	3570.0	6.7	4.2	5.0	370.0	7.40	11.47	41.62	8.32	39.45
32	104.0	3200.0	12.0	0.0							81.07
SUBTOTAL					22.0	1600.0			81.07	3.69	
=====											
AFLUENTE RIMAC B											
32	104.0	3200.0	12.0	0.0	1.0	15.0	1.50	12.04	1.77	1.77	0.00
33	103.0	3185.0	12.1	0.0	2.0	15.0	0.75	10.14	1.49	0.75	1.77
34	101.0	3170.0	8.2	1.8	6.0	570.0	9.50	12.18	68.12	11.35	3.26
35	95.0	2600.0	14.4	0.0	10.0	330.0	3.30	14.94	48.37	4.84	71.38
36	85.0	2270.0	15.5	0.0							119.75
SUBTOTAL					19.0	930.0			119.75	6.30	
=====											
AFLUENTE RIMAC C											
36	85.0	2270.0	15.5	0.0	5.0	276.0	5.52	14.31	38.75	7.75	0.00
37	80.0	1994.0	13.1	0.0	5.0	344.0	6.88	14.27	48.16	9.63	38.75
38	75.0	1650.0	15.4	0.0	10.0	450.0	4.50	15.78	69.68	6.97	86.91
39	65.0	1200.0	16.2	1.3	10.0	270.0	2.70	16.87	44.69	4.47	156.59
40	55.0	930.0	16.3	3.2	2.0	30.0	1.50	25.63	7.54	3.77	201.28
41	53.0	900.0	31.7	0.0							208.82
SUBTOTAL					32.0	1370.0			208.82	6.53	
=====											
AFLUENTE RIMAC D											
41	53.0	900.0	31.7	0.0	3.0	120.0	4.00	28.72	33.81	11.27	0.00
42	50.0	780.0	25.7	0.0	9.0	180.0	2.00	28.77	50.80	5.64	33.81
43	41.0	600.0	31.8	0.0	10.0	155.0	1.55	31.83	48.41	4.84	84.61
44	31.0	445.0	31.9	0.0	10.0	180.0	1.80	32.28	56.99	5.70	133.02
45	21.0	265.0	32.7	0.0	10.0	115.0	1.15	32.70	36.89	3.69	190.01
46	11.0	150.0	32.7	0.0	10.0	130.0	1.30	32.74	41.75	4.18	226.70
47	1.0	20.0	32.8	0.0	1.0	20.0	2.00	32.77	6.43	6.43	268.65
48	0.0	0.0	32.8	0.0							275.08
SUBTOTAL					53.0	900.0			275.08	5.19	
=====											

 * EL POTENCIAL TEORICO TOTAL DEL RIO LURIN ES DE 176.0 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 166.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 1.06 MW/KM *

POTENCIAL TEORICO DEL RIO LURIN 1/12/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
=====											
AFLUENTE TAQUIA											
1	23.0	4400.0	0.0	0.0							
2	10.0	3950.0	1.4	0.0	13.0	450.0	3.46	0.70	3.09	0.24	0.00
3	0.0	2995.0	2.1	0.0	10.0	955.0	9.55	1.72	16.16	1.62	3.09
SUBTOTAL					23.0	1405.0			19.25	0.84	19.25
=====											
AFLUENTE CANCHAHUARA											
4	37.0	4545.0	0.0	0.0							
5	30.0	4160.0	0.4	0.0	7.0	385.0	5.50	0.22	0.81	0.12	0.00
6	20.0	3710.0	1.0	0.0	10.0	450.0	4.50	0.69	3.05	0.50	0.81
7	10.0	2990.0	0.5	0.0	10.0	720.0	7.20	0.73	5.18	0.52	3.86
8	0.0	1790.0	0.8	0.0	10.0	1200.0	12.00	0.63	7.42	0.74	9.04
SUBTOTAL					37.0	2755.0			16.47	0.45	16.47
=====											
AFLUENTE LURIN 1											
9	106.0	4800.0	0.0	0.0							
10	93.0	3850.0	1.2	0.0	13.0	950.0	7.31	0.60	5.60	0.43	0.00
11	83.0	2995.0	2.0	2.1	10.0	855.0	8.55	1.59	13.55	1.53	5.60
12	80.0	2700.0	4.2	0.0	3.0	295.0	9.83	4.12	11.92	3.97	18.95
SUBTOTAL					26.0	2100.0			30.87	1.19	30.87
=====											
AFLUENTE LURIN 2											
12	80.0	2700.0	4.2	0.0							
13	67.0	1790.0	4.3	0.8	13.0	910.0	7.00	4.23	37.77	2.91	0.00
14	66.0	1740.0	4.1	0.0	1.0	50.0	5.00	4.58	2.25	2.25	37.77
15	57.0	1350.0	3.8	0.0	9.0	390.0	4.33	3.96	15.15	1.68	40.02
16	47.0	1040.0	4.0	0.0	10.0	310.0	3.10	3.84	11.83	1.18	55.17
SUBTOTAL					33.0	1660.0			67.01	2.03	67.01
=====											
AFLUENTE LURIN 3											
16	47.0	1040.0	4.0	0.0							
17	36.0	710.0	4.0	0.0	11.0	330.0	3.00	3.99	12.91	1.17	0.00
18	22.0	315.0	4.1	0.0	14.0	395.0	2.82	4.06	15.73	1.12	12.91
19	12.0	206.0	4.5	0.0	10.0	109.0	1.09	4.32	4.62	0.46	28.64
SUBTOTAL					35.0	834.0			33.27	0.95	33.27
=====											
AFLUENTE LURIN 4											
19	12.0	206.0	4.5	0.0							
20	2.0	20.0	4.5	0.0	10.0	186.0	1.86	4.52	8.25	0.82	0.00
21	0.0	0.0	4.5	0.0	2.0	20.0	1.00	4.54	0.89	0.45	8.25
SUBTOTAL					12.0	206.0			9.14	0.76	9.14
=====											

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*****
*
* EL POTENCIAL TEORICO TOTAL DEL RIO CHILCA      ES DE      29.0 MW
*
*           Y TIENE UNA LONGITUD ACUMULADA DE    96.0 KM
*
*           Y UN POTENCIAL ESPECIFICO DE        0.30 MW/KM
*
*****

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POTENCIAL TEORICO DEL RIO CHILCA 1/ 3/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE CUCULI											
1	32.0	3750.0	0.0	0.0							0.00
2	20.0	1750.0	0.2	0.0	12.0	2000.0	16.67	0.12	2.40	0.20	2.40
3	10.0	1000.0	0.4	0.0	10.0	750.0	7.50	0.33	2.43	0.24	4.83
4	0.0	500.0	0.5	0.0	10.0	500.0	5.00	0.47	2.33	0.23	7.15
SUBTOTAL					32.0	3250.0			7.15	0.22	
=====											
AFLUENTE CHILCA											
5	64.0	3600.0	0.0	0.0							0.00
6	58.0	3250.0	0.1	0.0	6.0	350.0	5.83	0.06	0.21	0.04	0.21
7	48.0	1900.0	0.6	0.0	10.0	1350.0	13.50	0.37	4.90	0.49	5.11
8	38.0	1100.0	0.7	0.0	10.0	800.0	8.00	0.67	5.29	0.53	10.41
9	28.0	500.0	0.8	0.5							14.97
10	26.0	475.0	1.4	0.0	2.0	25.0	1.25	1.35	0.33	0.17	15.31
11	20.0	278.0	1.4	0.0	6.0	197.0	3.28	1.38	2.66	0.44	17.97
12	10.0	80.0	1.4	0.0	10.0	198.0	1.98	1.42	2.75	0.28	20.72
13	0.0	0.0	1.4	0.0	10.0	80.0	0.80	1.44	1.13	0.11	21.85
SUBTOTAL					64.0	3600.0			21.05	0.34	
=====											

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*****
* EL POTENCIAL TEORICO TOTAL DEL RIO MALA           ES DE 527.4 MW
*
* Y TIENE UNA LONGITUD ACUMULADA DE 236.0 KM
*
* Y UN POTENCIAL ESPECIFICO DE 2.23 MW/KM
*
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POTENCIAL TEORICO DEL RIO MALA 1/ 3/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE ACACACHE											
1	30.0	1545.0	0.1	0.0							0.00
2	20.0	4000.0	1.5	0.0	10.0	545.0	5.45	0.78	4.20	0.42	4.20
3	10.0	3680.0	2.6	0.0	10.0	320.0	3.20	2.04	6.39	0.64	10.59
4	0.0	2620.0	2.6	0.0	10.0	1060.0	10.60	2.58	26.87	2.69	37.46
SUBTOTAL					30.0	1925.0			37.46	1.25	
=====											
AFLUENTE TANTARA											
5	23.0	4570.0	0.1	0.0							0.00
6	10.0	3650.0	1.0	0.0	13.0	920.0	7.08	0.53	4.78	0.37	4.78
7	0.0	2230.0	1.8	0.0	10.0	1420.0	14.20	1.40	19.77	1.95	24.24
SUBTOTAL					23.0	2340.0			24.24	1.05	
=====											
AFLUENTE SANJOAQUIN											
8	20.0	4376.0	0.1	0.0							0.00
9	10.0	3100.0	0.8	0.0	10.0	1276.0	12.76	0.43	5.43	0.54	5.43
10	0.0	2000.0	1.9	0.0	10.0	1100.0	11.00	1.35	14.57	1.46	20.00
SUBTOTAL					20.0	2376.0			20.00	1.00	
=====											
AFLUENTE AYAVIRI											
11	36.0	4210.0	0.5	0.0							0.00
12	26.0	3590.0	2.3	0.0	10.0	620.0	6.20	1.43	8.71	0.87	8.71
13	16.0	2650.0	3.1	0.0	10.0	940.0	9.40	2.72	25.04	2.50	33.75
14	6.0	2000.0	3.4	1.9	10.0	650.0	6.50	3.27	20.83	2.08	54.58
15	0.0	1550.0	5.5	0.0	6.0	450.0	7.50	5.41	23.90	3.98	78.48
SUBTOTAL					36.0	2660.0			78.48	2.18	
=====											


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=====
T      L      H      C      AFN      DL      DH      PL      QC      PDT      ESP      CUM
=====

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AFLUENTE MALA SUPERIO

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=====
16  127.0  4800.0  0.0  0.0      6.0  420.0  7.00  0.23  0.94  0.16  0.00
17  121.0  4380.0  0.4  0.0     10.0  285.0  2.85  1.02  2.86  0.29  0.94
18  111.0  4095.0  1.6  0.0     10.0  565.0  5.65  1.89  10.45  1.05  3.79
19  101.0  3530.0  2.2  0.0     10.0  910.0  9.10  2.88  25.73  2.57  14.25
20   91.0  2620.0  3.6  2.6      5.0  390.0  7.80  6.44  24.62  4.92  39.98
21   86.0  2230.0  6.7  1.8      6.0  330.0  5.50  8.93  28.89  4.82  64.60
22   80.0  1900.0  9.3  0.0     10.0  350.0  3.50  9.43  32.38  3.24  93.49
23   70.0  1550.0  9.5  5.5     10.0  315.0  3.15  15.17  46.87  4.69  125.87
24   60.0  1235.0  15.3  0.0     10.0  285.0  2.85  15.62  43.67  4.37  172.75
25   50.0   950.0  15.9  0.0     10.0  300.0  3.00  15.44  46.91  4.69  216.41
26   40.0   650.0  16.0  0.0     10.0  220.0  2.20  16.13  34.81  3.48  263.53
27   30.0   430.0  16.3  0.0      1.0   30.0  3.00  16.28   4.79  4.79  298.14
28   29.0   400.0  16.3  0.0
=====
SUBTOTAL      98.0  4400.0      302.93  3.09
=====

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AFLUENTE MALA INFERIO

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=====
28   29.0   400.0  16.3  0.0      9.0  150.0  1.67  16.34  24.04  2.67  0.00
29   20.0   250.0  16.4  0.0     10.0  155.0  1.55  16.40  24.94  2.49  24.04
30   10.0    95.0  16.4  0.0     10.0   95.0  0.95  16.46  15.34  1.53  48.98
31    0.0     0.0  16.5  0.0
=====
SUBTOTAL      29.0   400.0      64.32  2.22
=====

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*****
*
* EL POTENCIAL TEORICO TOTAL DEL RIO OMAS          ES DE      82.1 MW
*
*           Y TIENE UNA LONGITUD ACUMULADA DE      101.0 KM
*
*           Y UN POTENCIAL ESPECIFICO DE          0.81 MW/KM
*
*****

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POTENCIAL TEORICO DEL RIO OMAS 1/ 3/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE GUAYABO											
1	29.0	4440.0	0.0	0.0							0.00
2	20.0	3200.0	0.4	0.0	9.0	1240.0	13.78	0.24	2.88	0.32	2.88
3	10.0	1895.0	0.9	0.0	10.0	1305.0	13.05	0.68	8.71	0.87	11.58
4	0.0	1280.0	1.3	0.0	10.0	615.0	6.15	1.12	6.78	0.68	18.36
=====											
SUBTOTAL					29.0	3160.0			18.36	0.63	
=====											
AFLUENTE OMAS											
5	72.0	4180.0	0.1	0.0							0.00
6	64.0	3200.0	0.7	0.0	8.0	980.0	12.25	0.37	3.57	0.45	3.57
7	54.0	1860.0	1.2	0.0	10.0	1340.0	13.40	0.94	12.32	1.23	15.89
8	44.0	1280.0	1.4	1.3	10.0	580.0	5.80	1.32	7.49	0.75	23.37
9	30.0	670.0	3.2	0.0	14.0	610.0	4.36	2.96	17.71	1.26	41.08
10	20.0	370.0	3.5	0.0	10.0	300.0	3.00	3.30	9.73	0.97	50.81
11	10.0	160.0	3.5	0.0	10.0	210.0	2.10	3.48	7.18	0.72	57.98
12	0.0	0.0	3.8	0.0	10.0	160.0	1.60	3.67	5.76	0.58	63.74
=====											
SUBTOTAL					72.0	4180.0			63.74	0.89	

 * EL POTENCIAL TEORICO TOTAL DEL RIO CANETE ES DE 1927.2 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 563.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 3.42 MW/KM *

POTENCIAL TEORICO DEL RIO CANETE 1/ 3/79

I	L	H	U	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE MIRAFLORES											
1	15.0	4525.0	0.1	0.0	5.0	250.0	5.00	0.45	1.11	0.22	0.00
2	10.0	4275.0	0.8	0.0	10.0	1045.0	10.45	1.21	12.43	1.24	1.11
3	0.0	3250.0	1.7	0.0							13.54
SUBTOTAL					15.0	1295.0			13.54	0.90	
=====											
AFLUENTE ALIS											
4	32.0	4550.0	0.0	0.0	12.0	570.0	4.75	0.89	4.97	0.41	0.00
5	20.0	3980.0	1.7	0.0	10.0	410.0	4.10	2.33	9.37	0.94	4.97
6	10.0	3570.0	2.9	0.0	10.0	430.0	4.30	4.61	19.45	1.94	14.34
7	0.0	3140.0	6.3	0.0							33.79
SUBTOTAL					32.0	1410.0			33.79	1.06	
=====											
AFLUENTE LARAOS											
8	24.0	4725.0	0.0	0.0	14.0	775.0	5.54	0.81	6.19	0.44	0.00
9	10.0	3950.0	1.6	0.0	10.0	1015.0	10.15	2.13	21.26	2.13	6.19
10	0.0	2935.0	2.7	0.0							27.45
SUBTOTAL					24.0	1790.0			27.45	1.14	
=====											
AFLUENTE HUANTAN											
11	36.0	4550.0	0.2	0.0	6.0	240.0	4.00	0.44	1.05	0.17	0.00
12	30.0	4290.0	0.7	0.0	10.0	465.0	4.65	2.20	10.05	1.01	1.05
13	20.0	3825.0	3.7	0.0	10.0	445.0	4.45	4.35	19.00	1.90	11.10
14	10.0	3380.0	5.0	0.0	10.0	730.0	7.30	5.38	38.52	3.85	30.09
15	0.0	2650.0	5.7	0.0							68.61
SUBTOTAL					36.0	1880.0			68.61	1.91	
=====											
AFLUENTE PAMPAS											
16	20.0	4410.0	0.3	0.0	10.0	910.0	9.10	0.70	6.24	0.62	0.00
17	10.0	3500.0	1.1	0.0	10.0	1550.0	15.50	1.39	21.07	2.11	6.24
18	0.0	1950.0	1.7	0.0							27.31
SUBTOTAL					20.0	2460.0			27.31	1.37	
=====											
AFLUENTE QUICCHA											
19	19.0	4470.0	0.1	0.0	9.0	450.0	5.00	0.41	1.80	0.20	0.00
20	10.0	4020.0	0.8	0.0	10.0	1220.0	12.20	1.01	12.06	1.21	1.80
21	0.0	2800.0	1.3	0.0							13.86
SUBTOTAL					19.0	1670.0			13.86	0.73	
=====											

POTENCIAL TEORICO DEL RIO CANETE

1/ 3/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE AUCAMPI											
22	34.0	4486.0	0.0	0.0	14.0	736.0	5.26	0.58	4.16	0.30	0.00
23	20.0	3750.0	1.1	0.0	11.0	950.0	8.64	1.57	14.66	1.33	4.16
24	9.0	2400.0	2.0	1.3	9.0	1100.0	12.22	3.44	37.17	4.13	18.82
25	0.0	1700.0	3.6	0.0							55.99
SUBTOTAL					34.0	2786.0			55.99	1.65	
=====											
AFLUENTE TUPE											
26	33.0	4470.0	0.0	0.0	13.0	770.0	5.92	0.68	5.13	0.39	0.00
27	20.0	3900.0	1.3	0.0	10.0	1600.0	16.00	1.86	29.24	2.92	5.13
28	10.0	2300.0	2.4	0.0	10.0	950.0	9.50	2.48	23.13	2.31	34.36
29	0.0	1350.0	2.6	0.0							57.50
SUBTOTAL					33.0	3320.0			57.50	1.74	
=====											
AFLUENTE PALUCHE											
30	20.0	4600.0	0.0	0.0	10.0	600.0	6.00	0.42	2.46	0.25	0.00
31	10.0	4000.0	0.8	0.0	10.0	1900.0	19.00	1.05	19.62	1.96	2.46
32	0.0	2100.0	1.3	0.0							22.07
SUBTOTAL					20.0	2500.0			22.07	1.10	
=====											
AFLUENTE CACRA											
33	63.0	4750.0	0.0	0.0	9.0	425.0	4.72	0.24	0.99	0.11	0.00
34	54.0	4325.0	0.4	0.0	10.0	225.0	2.25	1.24	2.73	0.27	0.99
35	44.0	4100.0	2.0	0.0	10.0	390.0	3.90	2.88	11.02	1.10	3.72
36	34.0	3710.0	3.7	0.0	10.0	710.0	7.10	4.52	31.45	3.15	14.74
37	24.0	3000.0	5.3	0.0	10.0	900.0	9.00	5.59	49.36	4.94	46.19
38	14.0	2100.0	5.9	1.3	14.0	810.0	5.79	7.26	57.66	4.12	95.56
39	0.0	1290.0	7.4	0.0							153.22
SUBTOTAL					63.0	3460.0			153.22	2.43	
=====											
AFLUENTE HUANGASCAR											
40	45.0	4440.0	0.0	0.0	5.0	215.0	4.30	0.14	0.29	0.06	0.00
41	40.0	4225.0	0.3	0.0	10.0	685.0	6.85	0.64	4.32	0.43	0.29
42	30.0	3540.0	1.0	0.0	10.0	830.0	8.30	2.20	17.92	1.79	4.62
43	20.0	2710.0	3.4	0.0	10.0	980.0	9.80	4.25	40.85	4.08	22.54
44	10.0	1730.0	5.1	0.0	10.0	550.0	5.50	5.15	27.79	2.78	63.38
45	0.0	1180.0	5.2	0.0							91.17
SUBTOTAL					45.0	3260.0			91.17	2.03	
=====											

T	L	H	Q	AFQ	DL	DM	PE	WC	PUT	ESP	LUM
=====											
AFLUENTE CANETE 2											
46	222.0	4429.0	0.4	0.0	12.0	179.0	1.49	1.51	2.65	0.22	0.00
47	210.0	4250.0	2.6	0.0	10.0	100.0	1.00	3.86	5.78	0.38	2.65
48	200.0	4150.0	5.1	0.0	10.0	180.0	1.80	6.01	10.61	1.06	6.45
49	190.0	3970.0	6.9	0.0	10.0	140.0	1.40	7.64	10.49	1.05	17.05
50	180.0	3830.0	8.4	0.0	10.0	210.0	2.10	9.35	19.26	1.93	27.54
51	170.0	3620.0	10.3	0.0	11.0	390.0	3.55	10.97	41.95	3.81	46.80
52	159.0	3230.0	11.6	1.7	4.0	90.0	2.25	13.27	11.72	2.95	88.76
53	155.0	3140.0	15.3	6.3	6.0	205.0	3.42	19.62	39.85	6.64	100.47
54	149.0	2935.0	20.1	2.7	9.0	210.0	2.33	23.36	48.12	5.35	140.32
55	140.0	2725.0	24.0	0.0	5.0	75.0	1.50	24.17	17.78	3.56	188.44
56	135.0	2650.0	24.3	5.7	5.0	225.0	4.50	30.18	66.60	13.32	206.22
57	130.0	2425.0	30.3	0.0	10.0	235.0	2.35	31.44	72.47	7.25	272.82
58	120.0	2190.0	32.6	0.0	10.0	240.0	2.40	33.08	77.89	7.79	345.30
59	110.0	1950.0	33.6	1.7	8.0	250.0	3.12	35.39	86.79	10.85	423.19
60	102.0	1700.0	35.5	3.6	6.0	80.0	1.33	39.28	30.82	5.14	509.98
61	96.0	1620.0	39.4	0.0	10.0	200.0	2.00	39.74	77.96	7.80	540.81
62	86.0	1420.0	40.1	0.0	10.0	70.0	0.70	40.24	27.63	2.76	618.77
63	76.0	1350.0	40.4	2.6	1.0	60.0	6.00	43.02	25.32	25.32	646.40
64	75.0	1290.0	43.0	7.4	6.0	110.0	1.83	50.40	54.38	9.06	671.72
65	69.0	1180.0	50.4	5.2	9.0	355.0	3.94	55.39	192.90	21.43	726.10
66	60.0	825.0	55.2	0.0	20.0	350.0	1.75	54.87	188.40	9.42	919.00
67	40.0	475.0	54.6	0.0	12.0	155.0	1.12	54.67	72.40	6.03	1107.40
68	28.0	340.0	54.8	0.0	3.0	40.0	1.33	54.79	21.50	7.17	1179.80
69	25.0	300.0	54.8	0.0							1201.30
=====											
			SUATOTAL		197.0	4129.0			1201.30	6.10	
=====											
AFLUENTE CANETE 1											
69	25.0	300.0	54.8	0.0	25.0	300.0	1.20	54.83	161.38	6.46	0.00
70	0.0	0.0	54.9	0.0							161.38
=====											
			SUBTOTAL		25.0	300.0			161.38	6.46	
=====											

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*****
*
* EL POTENCIAL TEORICO TOTAL DEL RIO TOPARA      ES DE      24.4 MW
*
*           Y TIENE UNA LONGITUD ACUMULADA DE    60.0 KM
*
*           Y UN POTENCIAL ESPECIFICO DE        0.41 MW/KM
*
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POTENCIAL TEORICO DEL RIO TOPARA 1/ 3/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE TOPARA											
1	60.0	4025.0	0.1	0.0	10.0	1425.0	14.25	0.27	3.71	0.37	0.00
2	50.0	2600.0	0.5	0.0	10.0	900.0	9.00	0.58	5.15	0.51	3.71
3	40.0	1700.0	0.7	0.0	10.0	750.0	7.50	0.82	6.01	0.60	8.85
4	30.0	950.0	0.9	0.0	10.0	465.0	4.65	0.94	4.28	0.43	14.86
5	20.0	485.0	0.9	0.0	10.0	275.0	2.75	1.06	2.85	0.29	19.14
6	10.0	210.0	1.2	0.0	10.0	210.0	2.10	1.19	2.44	0.24	22.00
7	0.0	0.0	1.2	0.0							24.44
SUBTOTAL					60.0	4025.0			24.44	0.41	

 * EL POTENCIAL TEORICO TOTAL DEL RIO SAN JUAN ES DE 774,5 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 310,5 KM *
 * Y UN POTENCIAL ESPECIFICO DE 2,49 MW/KM *

POTENCIAL TEORICO DEL RIO SAN JUAN 1/ 3/79

I	L	H	Q	AFG	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE HUICHINGA											
1	14.0	4575.0	0.1	0.0	14.0	625.0	4.46	0.68	4.15	0.30	0.00
2	0.0	3950.0	1.2	0.0							4.15
					SUBTOTAL	14.0	625.0		4.15	0.30	
=====											
AFLUENTE COLLACAMBA											
3	24.0	4475.0	0.0	0.0	14.0	525.0	3.75	0.95	4.90	0.35	0.00
4	10.0	3950.0	1.9	0.0	10.0	442.0	4.42	2.87	12.46	1.25	4.90
5	0.0	3508.0	3.9	0.0							17.36
					SUBTOTAL	24.0	967.0		17.36	0.72	
=====											
AFLUENTE ARMA											
6	30.0	4650.0	0.0	0.0	10.0	600.0	6.00	0.21	1.25	0.13	0.00
7	20.0	4050.0	0.4	0.0	10.0	1050.0	10.50	0.80	8.28	0.83	1.25
8	10.0	3000.0	1.2	0.0	10.0	1000.0	10.00	2.54	24.89	2.49	9.53
9	0.0	2000.0	3.9	0.0							34.43
					SUBTOTAL	30.0	2650.0		34.43	1.15	
=====											
AFLUENTE HUACHOS											
10	25.5	4470.0	0.0	0.0	11.5	820.0	7.13	0.34	2.76	0.24	0.00
11	14.0	3650.0	0.7	0.0	10.0	1650.0	16.50	1.03	16.74	1.67	2.76
12	4.0	2000.0	1.4	3.9	4.0	240.0	6.00	4.79	11.29	2.82	19.51
13	0.0	1760.0	4.3	0.0							30.79
					SUBTOTAL	25.5	2710.0		30.79	1.21	
=====											
AFLUENTE OYOQUE											
14	50.0	4200.0	0.0	0.0	10.0	890.0	8.90	0.50	4.38	0.44	0.00
15	40.0	3310.0	1.0	0.0	10.0	700.0	7.00	0.95	6.50	0.65	4.38
16	30.0	2610.0	0.9	0.0	10.0	910.0	9.10	1.10	9.86	0.99	10.88
17	20.0	1700.0	1.3	0.0	10.0	850.0	8.50	0.86	7.15	0.72	20.75
18	10.0	850.0	0.4	0.0	10.0	430.0	4.30	0.42	1.76	0.18	27.90
19	0.0	420.0	0.4	0.0							29.66
					SUBTOTAL	50.0	3780.0		29.66	0.59	
=====											
AFLUENTE ALMACEN											
20	30.0	3000.0	0.0	0.0	10.0	1570.0	15.70	0.60	9.22	0.92	0.00
21	20.0	1430.0	1.2	0.0	10.0	560.0	5.60	1.22	6.71	0.67	9.22
22	10.0	870.0	1.2	0.0	10.0	470.0	4.70	0.76	3.51	0.35	15.94
23	0.0	400.0	0.3	0.0							19.44
					SUBTOTAL	30.0	2600.0		19.44	0.65	
=====											

POTENCIAL TEORICO DEL RIO SAN JUAN

1/ 3/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
AFLUENTE SANJUAN SUPER											
24	137.0	4670.0	1.1	0.0							0.00
25	127.0	4220.0	2.4	0.0	10.0	450.0	4.50	1.77	7.82	0.78	7.82
26	117.0	3850.0	8.1	1.2	10.0	570.0	3.70	5.25	19.06	1.91	26.87
27	109.0	3508.0	10.7	3.9	8.0	342.0	4.27	10.00	33.55	4.19	60.42
28	103.0	3080.0	14.9	0.0	6.0	428.0	7.13	14.74	61.86	10.31	122.29
29	93.0	2725.0	14.4	0.0	10.0	555.0	3.55	14.66	51.07	5.11	173.36
30	83.0	2175.0	14.0	0.0	10.0	550.0	5.50	14.21	76.66	7.67	250.01
31	73.0	1760.0	14.8	4.3	10.0	415.0	4.15	14.41	58.66	5.07	308.68
32	59.0	1175.0	19.1	0.0	14.0	585.0	4.18	19.10	109.60	7.83	418.28
33	49.0	910.0	19.1	0.0	10.0	235.0	2.65	19.10	49.66	4.97	467.94
34	39.0	675.0	18.8	0.0	10.0	235.0	2.35	18.97	43.74	4.37	511.68
35	29.0	420.0	18.4	0.4	1.0	20.0	2.55	18.58	46.48	4.65	558.16
36	28.0	400.0	18.6	0.3	4.0	80.0	2.00	18.79	3.69	3.69	561.84
37	24.0	320.0	19.6	0.0			2.00	19.33	15.17	3.79	577.01
SUBTOTAL					113.0	4350.0			577.91	5.11	
AFLUENTE SANJUAN INFER											
37	24.0	320.0	19.6	0.0	14.0	240.0	1.71	19.62	46.19	3.30	0.00
38	10.0	80.0	19.6	0.0	10.0	80.0	0.80	19.77	15.52	1.55	46.19
39	0.0	0.0	19.9	0.0							61.70
SUBTOTAL					24.0	320.0			61.70	2.57	


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*****
* EL POTENCIAL TEORICO TOTAL DEL RIO PISCO           ES DE    671.7 MW *
*                                                     *
* Y TIENE UNA LONGITUD ACUMULADA DE                349.0 KM *
*                                                     *
* Y UN POTENCIAL ESPECIFICO DE                      2.50 MW/KM *
*                                                     *
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POTENCIAL TEORICO DEL RIO PISCO 1/ 9/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE LUICHU											
1	20.0	4730.0	0.0	0.0							0.00
2	10.0	4290.0	0.9	0.0	10.0	440.0	4.40	0.45	1.93	0.19	1.93
3	0.0	4050.0	3.0	0.0	10.0	240.0	2.40	1.93	4.54	0.45	6.47
SUBTOTAL					20.0	680.0			6.47	0.32	
AFLUENTE SANTUARIO											
4	42.0	4800.0	0.0	0.0							0.00
5	30.0	4020.0	1.2	0.0	12.0	780.0	6.50	0.59	4.48	0.37	4.48
6	20.0	3390.0	3.4	0.0	10.0	630.0	6.30	2.26	13.97	1.40	18.45
7	10.0	2250.0	4.7	0.0	10.0	1140.0	11.40	4.02	45.00	4.50	63.45
8	0.0	1750.0	4.9	0.0	10.0	500.0	5.00	4.79	23.49	2.35	86.93
SUBTOTAL					42.0	3050.0			86.93	2.07	
AFLUENTE SACSQUERO											
9	23.0	4356.0	0.0	0.0							0.00
10	10.0	3720.0	1.5	0.0	13.0	636.0	4.89	0.77	4.80	0.37	4.80
11	0.0	3200.0	2.2	0.0	10.0	520.0	5.20	1.85	9.42	0.94	14.22
SUBTOTAL					23.0	1156.0			14.22	0.62	
AFLUENTE SANGUINIYOP											
12	20.0	4250.0	0.0	0.0							0.00
13	10.0	3420.0	0.7	0.0	10.0	830.0	8.30	0.33	2.72	0.27	2.72
14	0.0	2190.0	1.1	0.0	10.0	1230.0	12.30	0.87	10.54	1.05	13.26
SUBTOTAL					20.0	2060.0			13.26	0.66	
AFLUENTE HUAYTARA											
15	65.0	4500.0	0.0	0.0							0.00
16	55.0	4145.0	1.0	0.0	10.0	355.0	3.55	0.53	1.86	0.19	1.86
17	45.0	3800.0	1.6	0.0	10.0	345.0	3.45	1.30	4.40	0.44	6.25
18	35.0	3200.0	2.3	2.2	10.0	600.0	6.00	1.94	11.43	1.14	17.69
19	22.0	2190.0	5.2	1.1	13.0	1010.0	7.77	4.87	48.21	3.71	65.89
20	10.0	1610.0	6.7	0.0	12.0	580.0	4.83	6.52	37.08	3.09	102.97
21	0.0	1240.0	7.1	0.0	10.0	370.0	3.70	6.93	25.15	2.52	128.12
SUBTOTAL					65.0	3260.0			128.12	1.97	

POTENCIAL TEORICO DEL RIO PISCO

1/ 9/79

I	L	H	Q	AFO	DL	DM	PE	DC	POT	ESP	CUM
=====											
AFLUENTE PISCO SUPERI											
22	179.0	4640.0	0.1	0.0							0.00
23	165.0	4330.0	0.8	0.0	14.0	310.0	2.21	0.50	1.51	0.11	1.51
24	155.0	4050.0	4.0	3.0	10.0	280.0	2.80	2.41	6.63	0.66	8.14
25	141.0	3675.0	8.7	0.0	14.0	375.0	2.68	7.83	28.79	2.06	36.93
26	131.0	3380.0	10.7	0.0	10.0	295.0	2.95	9.72	28.14	2.81	65.07
27	121.0	2620.0	11.5	0.0	10.0	760.0	7.60	11.13	85.00	8.30	148.07
28	111.0	2010.0	12.1	0.0	10.0	610.0	6.10	11.82	70.74	7.07	218.81
29	101.0	1750.0	12.4	4.9	10.0	260.0	2.60	12.27	31.30	3.13	250.11
30	92.0	1490.0	17.6	0.0	9.0	260.0	2.89	17.46	44.54	4.95	294.65
31	82.0	1240.0	18.0	7.1	10.0	250.0	2.50	17.83	45.73	4.37	338.38
32	71.0	1015.0	25.3	0.0	11.0	225.0	2.05	25.23	55.68	5.06	394.06
33	61.0	820.0	25.1	0.0	10.0	195.0	1.95	25.18	48.17	4.82	442.23
34	51.0	640.0	25.6	0.0	10.0	180.0	1.80	25.35	44.76	4.48	486.99
=====											
SUBTOTAL					128.0	4000.0			486.99	3.80	
=====											
AFLUENTE PISCO INFERI											
34	51.0	640.0	25.6	0.0							0.00
35	40.0	440.0	23.8	0.0	11.0	200.0	1.82	24.62	48.31	4.39	48.31
36	30.0	285.0	21.7	0.0	10.0	155.0	1.55	22.65	34.45	3.44	82.76
37	20.0	170.0	19.7	0.0	10.0	115.0	1.15	20.68	23.33	2.33	106.09
38	10.0	80.0	17.7	0.0	10.0	90.0	0.90	18.70	16.51	1.65	122.60
39	0.0	0.0	15.7	0.0	10.0	50.0	0.80	16.71	13.11	1.31	135.71
=====											
SUBTOTAL					51.0	640.0			135.71	2.66	

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*****
* EL POTENCIAL TEORICO TOTAL DEL RIO ICA          ES DE 458.2 MW
*
* Y TIENE UNA LONGITUD ACUMULADA DE 339.0 KM
*
* Y UN POTENCIAL ESPECIFICO DE 1.35 MW/KM
*
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POTENCIAL TEORICO DEL RIO ICA 1/ 3/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CU
AFLUENTE OLAYA											
1	37.0	4150.0	0.1	0.0							0.00
2	30.0	3780.0	0.3	0.0	7.0	370.0	5.29	0.19	0.71	0.10	0.71
3	20.0	3240.0	1.6	0.0	10.0	500.0	5.00	0.94	4.62	0.46	5.33
4	10.0	3000.0	1.9	0.0	10.0	280.0	2.80	1.75	4.82	0.48	10.15
5	0.0	2400.0	2.1	0.0	10.0	600.0	6.00	2.01	11.85	1.19	22.00
SUBTOTAL					37.0	1750.0			22.00	0.59	
AFLUENTE SANTIAGO											
6	54.0	4500.0	0.0	0.0							0.00
7	44.0	3760.0	0.4	0.0	10.0	540.0	5.40	0.23	1.20	0.12	1.20
8	34.0	3350.0	0.9	0.0	10.0	410.0	4.10	0.66	2.64	0.26	3.83
9	24.0	3000.0	1.8	0.0	10.0	350.0	3.50	1.32	4.53	0.45	8.36
10	14.0	2400.0	2.0	2.1	10.0	600.0	6.00	1.89	11.12	1.11	19.48
11	0.0	1700.0	4.5	0.0	14.0	700.0	5.00	4.29	29.49	2.11	48.97
SUBTOTAL					54.0	2600.0			48.97	0.91	
AFLUENTE TAMBILLOS											
12	52.0	4150.0	0.1	0.0							0.00
13	20.0	2750.0	0.3	0.0	12.0	1420.0	11.83	0.19	2.59	0.22	2.59
14	10.0	1900.0	0.5	0.0	10.0	850.0	8.30	0.38	3.11	0.31	5.70
15	0.0	1200.0	0.7	0.0	10.0	700.0	7.00	0.57	3.93	0.39	9.63
SUBTOTAL					52.0	2950.0			9.63	0.50	
AFLUENTE ICA SUPERIOR											
16	216.0	4325.0	4.3	0.0							0.00
17	207.0	3975.0	4.9	0.0	9.0	350.0	3.89	4.60	15.79	1.75	15.79
18	197.0	3760.0	5.4	0.0	10.0	215.0	2.15	5.16	10.86	1.09	26.67
19	187.0	3170.0	6.1	0.0	10.0	590.0	5.90	5.79	33.51	3.35	60.18
20	177.0	2250.0	7.2	0.0	10.0	920.0	9.20	6.66	60.15	6.02	120.33
21	167.0	1700.0	7.3	4.5	10.0	550.0	5.50	7.25	39.11	3.91	159.45
22	154.0	1200.0	11.6	0.7	13.0	500.0	3.85	11.71	57.44	4.42	216.89
23	142.0	780.0	12.6	0.0	12.0	420.0	3.50	12.43	51.23	4.27	268.12
SUBTOTAL					74.0	3545.0			268.12	3.62	
AFLUENTE ICA INFERIOR											
24	142.0	780.0	12.6	0.0							0.00
24	130.0	520.0	12.8	0.0	12.0	260.0	2.17	12.68	32.34	2.69	32.34
25	120.0	425.0	12.9	0.0	10.0	95.0	0.95	12.84	11.96	1.20	44.30
26	110.0	380.0	13.1	0.0	10.0	45.0	0.45	12.97	5.73	0.57	50.03
27	100.0	375.0	13.1	0.0	10.0	5.0	0.05	13.10	0.64	0.06	50.67
28	80.0	320.0	15.1	0.0	20.0	55.0	0.27	14.12	7.62	0.38	58.29
29	60.0	275.0	16.1	0.0	20.0	45.0	0.23	15.61	6.89	0.34	65.18
30	40.0	220.0	16.3	0.0	20.0	55.0	0.27	16.22	8.75	0.44	73.94
31	20.0	75.0	16.4	0.0	20.0	145.0	0.73	16.37	23.29	1.16	97.22
32	0.0	0.0	16.8	0.0	20.0	75.0	0.37	16.62	12.23	0.61	109.45
SUBTOTAL					142.0	780.0			109.45	0.77	

 * EL POTENCIAL TEORICO TOTAL DEL RIO GRANDE ES DE 423.7 MW *
 * Y TIENE UNA LONGITUD ACUMULADA DE 1129.0 KM *
 * Y UN POTENCIAL ESPECIFICO DE 0.38 MW/KM *

POTENCIAL TEORICO DEL RIO GRANDE 1/ 8/79

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
=====											
AFLUENTE PALMA SUPER											
1	75.0	4500.0	0.0	0.0	6.0	365.0	6.08	0.06	0.22	0.04	0.00
2	69.0	3935.0	0.1	0.0	10.0	765.0	7.65	0.36	2.67	0.27	0.22
3	59.0	3170.0	0.6	0.0	10.0	940.0	9.40	0.99	9.10	0.91	2.89
4	49.0	2250.0	1.4	0.0	10.0	630.0	6.30	1.43	8.83	0.88	11.99
5	59.0	1600.0	1.5	0.0	10.0	580.0	5.80	1.52	8.63	0.86	20.33
6	29.0	1020.0	1.6	0.0	10.0	380.0	3.80	1.38	5.16	0.52	29.46
7	19.0	640.0	1.2	0.0	10.0	240.0	2.40	1.11	2.61	0.26	34.62
8	9.0	400.0	1.0	0.0							37.22
SUBTOTAL					66.0	3900.0			37.22	0.58	
=====											
AFLUENTE PALMA INFER											
9	9.0	400.0	1.0	0.0	9.0	133.0	1.48	1.00	1.31	0.15	0.00
9	0.0	267.0	1.0	0.0							1.31
SUBTOTAL					9.0	133.0			1.31	0.15	
=====											
AFLUENTE OCANA											
10	32.0	4150.0	0.0	0.0	2.0	335.0	16.75	0.01	0.03	0.02	0.00
11	30.0	3815.0	0.0	0.0	10.0	1000.0	10.00	0.08	0.83	0.08	0.03
12	20.0	2815.0	0.2	0.0	10.0	490.0	4.90	0.26	1.23	0.12	0.86
13	10.0	2325.0	0.4	0.0	10.0	825.0	8.25	0.39	3.19	0.32	2.09
14	0.0	1500.0	0.4	0.0							5.28
SUBTOTAL					32.0	2650.0			5.28	0.16	
=====											
AFLUENTE VIZCA SUPER											
15	76.0	4210.0	0.0	0.0	5.0	385.0	7.70	0.08	0.31	0.06	0.00
16	71.0	3825.0	0.2	0.0	10.0	825.0	8.25	0.46	3.76	0.38	0.31
17	61.0	3000.0	0.8	0.0	10.0	775.0	7.75	0.90	6.83	0.68	4.07
18	51.0	2225.0	1.0	0.0	10.0	725.0	7.25	1.07	7.60	0.76	10.90
19	41.0	1500.0	1.1	0.4	13.0	485.0	3.73	1.63	7.75	0.60	18.50
20	28.0	1015.0	1.7	0.0	10.0	365.0	3.65	1.73	6.20	0.62	26.25
21	18.0	650.0	1.8	0.0	10.0	265.0	2.65	1.50	3.89	0.39	32.46
22	8.0	385.0	1.2	0.0							36.35
SUBTOTAL					68.0	3825.0			36.35	0.53	
=====											
AFLUENTE VIZCA INFER											
22	8.0	385.0	1.2	0.0	8.0	125.0	1.56	1.24	1.52	0.19	0.00
23	0.0	260.0	1.2	0.0							1.52
SUBTOTAL					8.0	125.0			1.52	0.19	
=====											

POTENCIAL TEORICO DEL RIO GRANDE

1/ 8/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE INGENIO MED											
24	97.0	4220.0	0.0	0.0	7.0	370.0	5.29	0.05	0.19	0.03	0.00
25	90.0	3850.0	0.1	0.0	10.0	1250.0	12.50	0.29	3.55	0.36	0.19
26	80.0	2600.0	0.5	0.0	10.0	740.0	7.40	0.86	6.23	0.62	3.75
27	70.0	1860.0	1.2	0.0	10.0	270.0	2.70	1.62	4.28	0.43	9.98
28	60.0	1590.0	2.0	0.0	10.0	290.0	2.90	2.07	5.90	0.59	14.26
29	50.0	1300.0	2.2	0.0	10.0	430.0	4.30	2.22	9.36	0.94	20.16
30	40.0	870.0	2.3	0.0	10.0	285.0	2.85	2.30	6.44	0.64	29.52
31	30.0	585.0	2.3	0.0	10.0	160.0	1.60	2.18	3.43	0.34	35.96
32	20.0	425.0	2.0	0.0	10.0	100.0	1.00	2.12	2.08	0.21	39.39
33	10.0	325.0	2.2	0.0							41.47
SUBTOTAL					87.0	3895.0			41.47	0.48	
=====											
AFLUENTE INGENIO INF											
33	10.0	325.0	2.2	0.0	10.0	115.0	1.15	2.21	2.49	0.25	0.00
34	0.0	210.0	2.2	0.0							2.49
SUBTOTAL					10.0	115.0			2.49	0.25	
=====											
AFLUENTE STA CRUZ SUP											
35	85.0	3400.0	0.0	0.0	5.0	650.0	13.00	0.01	0.05	0.01	0.00
36	80.0	2750.0	0.0	0.0	10.0	790.0	7.90	0.10	0.78	0.08	0.05
37	70.0	1960.0	0.2	0.0	10.0	330.0	3.30	0.21	0.69	0.07	0.83
38	60.0	1630.0	0.2	0.0	10.0	340.0	3.40	0.27	0.88	0.09	1.52
39	50.0	1290.0	0.3	0.0	10.0	425.0	4.25	0.30	1.25	0.13	2.40
40	40.0	865.0	0.3	0.0	10.0	255.0	2.55	0.32	0.80	0.08	3.66
41	30.0	610.0	0.3	0.0	7.0	110.0	1.57	0.34	0.36	0.05	4.46
42	23.0	500.0	0.4	0.0							4.82
SUBTOTAL					62.0	2900.0			4.82	0.08	
=====											
AFLUENTE STA CRUZ INF											
42	23.0	500.0	0.4	0.0	13.0	220.0	1.69	0.35	0.77	0.06	0.00
43	10.0	280.0	0.4	0.0	10.0	115.0	1.15	0.37	0.42	0.04	0.77
44	0.0	165.0	0.4	0.0							1.18
SUBTOTAL					23.0	335.0			1.18	0.05	

POTENCIAL TEORICO DEL RIO GRANDE

1/ 8/79

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I	L	H	D	AFD	DI	DR	PE	QC	POT	ESP	CUM
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AFLUENTE PR BLANCAS S

45	67.0	4100.0	0.0	0.0	7.0	330.0	0.71	0.03	0.10	0.01	0.00
46	60.0	3770.0	0.1	0.0	10.0	255.0	2.55	0.12	0.29	0.03	0.10
47	50.0	3515.0	0.2	0.0	10.0	375.0	3.75	0.18	0.68	0.07	0.39
48	40.0	3140.0	0.2	0.0	10.0	475.0	4.75	0.22	1.89	0.19	1.07
49	30.0	2255.0	0.2	0.0	10.0	485.0	4.85	0.20	1.89	0.19	2.96
50	20.0	1500.0	0.2	0.0	10.0	450.0	4.50	0.23	1.01	0.10	4.85
SUBTOTAL					57.0	3250.0			5.86	0.10	

AFLUENTE TR BLANCAS I

51	10.0	850.0	0.3	0.0	10.0	220.0	2.20	0.30	0.66	0.07	0.00
52	0.0	630.0	0.3	0.0							0.66
SUBTOTAL					10.0	220.0			0.66	0.07	

AFLUENTE SOCOS SUPER

53	62.0	3710.0	0.0	0.0	6.0	275.0	6.87	0.00	0.01	0.00	0.00
54	58.0	3435.0	0.0	0.0	10.0	85.0	0.85	0.01	0.01	0.00	0.01
55	48.0	3350.0	0.0	0.0	10.0	620.0	6.20	0.02	0.15	0.02	0.02
56	38.0	2750.0	0.0	0.0	10.0	1070.0	10.70	0.03	0.33	0.03	0.17
57	28.0	1660.0	0.0	0.0	10.0	685.0	6.85	0.04	0.25	0.03	0.50
58	18.0	975.0	0.0	0.0							0.75
SUBTOTAL					44.0	2735.0			0.75	0.02	

AFLUENTE SOCOS INFER

58	18.0	975.0	0.0	0.0							0.00
59	8.0	600.0	0.1	0.0	10.0	375.0	3.75	0.05	0.17	0.02	0.17
60	0.0	435.0	0.1	0.0	8.0	164.0	2.05	0.05	0.09	0.01	0.25
SUBTOTAL					18.0	339.0			0.25	0.01	

AFLUENTE GUAMILLO SUP

61	107.0	4040.0	0.0	0.0	17.0	265.0	1.56	0.04	0.11	0.01	0.00
62	90.0	3775.0	0.1	0.0	10.0	450.0	4.50	0.10	0.42	0.04	0.11
63	80.0	3325.0	0.1	0.0	10.0	400.0	4.00	0.11	0.43	0.04	0.54
64	70.0	2925.0	0.1	0.0	10.0	925.0	9.25	0.15	1.37	0.14	0.97
65	60.0	2000.0	0.2	0.0	10.0	825.0	8.25	0.17	1.36	0.14	2.34
66	50.0	1175.0	0.2	0.0							3.70
SUBTOTAL					57.0	2865.0			3.70	0.06	