

POTENCIAL TEORICO DEL RIO TAMBO

1/12/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE CHILOTA											
28	25.0	4950.0	0.0	0.0	5.0	450.0	9.00	0.03	0.12	0.02	0.00
29	20.0	4500.0	0.0	0.0	10.0	175.0	1.75	0.88	1.51	0.15	0.12
30	10.0	4325.0	1.7	0.0	10.0	60.0	0.60	1.63	1.08	0.11	1.63
31	0.0	4265.0	1.9	0.0							2.70
SUBTOTAL					25.0	685.0			2.70	0.11	
=====											
AFLUENTE ARUNTAYA											
32	23.0	4875.0	0.1	0.0	3.0	205.0	6.83	0.12	0.25	0.08	0.00
33	20.0	4670.0	0.2	0.0	10.0	275.0	2.75	0.51	1.37	0.14	0.25
34	10.0	4395.0	0.8	0.0	10.0	55.0	0.55	1.03	0.55	0.06	1.62
35	0.0	4340.0	1.2	0.0							2.17
SUBTOTAL					23.0	535.0			2.17	0.09	
=====											
AFLUENTE TITERE											
36	54.0	4855.0	0.0	0.0	9.0	355.0	3.94	0.11	0.39	0.04	0.00
37	45.0	4500.0	0.2	0.0	10.0	95.0	0.95	0.41	0.38	0.04	0.39
38	35.0	4405.0	0.6	0.0	10.0	35.0	0.35	0.92	0.32	0.03	0.77
39	25.0	4370.0	1.2	0.0	10.0	30.0	0.30	1.60	0.47	0.05	1.09
40	15.0	4340.0	2.0	1.2	5.0	10.0	0.20	3.24	0.32	0.06	1.50
41	10.0	4330.0	3.3	0.0	10.0	270.0	2.70	3.40	9.02	0.40	1.88
42	0.0	4060.0	3.5	0.0							10.90
SUBTOTAL					54.0	795.0			10.90	0.20	
=====											
AFLUENTE CORALAGUE A											
43	114.0	4780.0	0.0	0.0	10.0	140.0	1.40	0.15	0.21	0.02	0.00
44	104.0	4640.0	0.3	0.0	10.0	100.0	1.00	0.72	0.70	0.07	0.21
45	94.0	4540.0	1.1	0.0	10.0	35.0	0.35	1.97	0.58	0.07	0.91
46	84.0	4505.0	2.8	0.0							1.59
SUBTOTAL					30.0	275.0			1.59	0.05	
=====											
AFLUENTE CORALAGUE B											
46	84.0	4505.0	2.8	0.0	12.0	120.0	1.00	2.93	3.44	0.29	0.00
47	72.0	4385.0	3.1	0.0	12.0	115.0	0.96	3.77	4.25	0.35	3.44
48	60.0	4270.0	4.5	0.0	1.0	5.0	0.50	4.49	0.22	0.22	7.70
49	59.0	4265.0	4.5	1.9	9.0	115.0	1.28	6.75	7.61	0.65	7.92
50	50.0	4150.0	7.1	0.0	3.0	90.0	3.00	7.12	6.28	2.09	15.53
51	47.0	4060.0	7.2	3.5	7.0	185.0	2.64	10.76	19.53	2.79	21.82
52	40.0	3875.0	10.9	0.0	10.0	235.0	2.35	11.54	26.61	2.66	41.35
53	30.0	3640.0	12.2	0.0	10.0	90.0	0.90	12.44	10.98	1.10	67.96
54	20.0	3550.0	12.7	0.0	10.0	375.0	3.75	13.22	48.62	4.86	78.93
55	10.0	3175.0	13.8	0.0	10.0	475.0	4.75	13.85	64.52	6.45	127.56
56	0.0	2700.0	13.9	0.0							192.08
SUBTOTAL					84.0	1805.0			192.08	2.29	
=====											

I	L	V	AFU	DL	HA	PE	IC	PAT	ESD	CS	
=====											
AFLUENTE PARA											
57	26.0	4650.0	0.0	0.0	6.0	335.0	5.58	0.10	0.32	0.05	0.00
58	20.0	4315.0	0.2	0.0	10.0	940.0	9.40	0.37	3.37	0.34	0.32
59	10.0	3375.0	0.6	0.0	10.0	835.0	8.35	0.59	4.83	0.48	3.69
60	0.0	2540.0	0.6	0.0							8.52
SUBTOTAL					26.0	2110.0			8.52	0.35	
=====											
AFLUENTE CHINGANE											
61	25.0	4825.0	0.0	0.0	5.0	175.0	3.50	0.08	0.14	0.03	0.00
62	20.0	4650.0	0.2	0.0	10.0	1125.0	11.25	0.35	3.87	0.39	0.14
63	10.0	3525.0	0.5	0.0	10.0	1175.0	11.75	0.68	7.85	0.78	4.01
64	0.0	2350.0	0.8	0.0							11.86
SUBTOTAL					25.0	2475.0			11.86	0.47	
=====											
AFLUENTE CARUMAS											
65	41.0	4445.0	0.1	0.0	11.0	320.0	2.91	0.70	2.21	0.20	0.00
66	30.0	4125.0	1.3	0.0	10.0	1135.0	11.35	1.39	15.48	1.55	2.21
67	20.0	2990.0	1.5	0.0	9.0	640.0	7.11	1.57	9.83	1.09	17.69
68	11.0	2350.0	1.6	0.8	1.0	140.0	14.00	2.46	3.37	3.57	27.52
69	10.0	2210.0	2.5	0.0	10.0	585.0	5.85	2.47	14.18	1.42	50.89
70	0.0	1625.0	2.5	0.0							45.06
SUBTOTAL					41.0	2820.0			45.06	1.10	
=====											
AFLUENTE AMARILLO											
71	26.0	4500.0	0.0	0.0	6.0	1550.0	25.83	0.06	0.85	0.14	0.00
72	20.0	2950.0	0.1	0.0	10.0	925.0	9.25	0.12	1.11	0.11	0.85
73	10.0	2025.0	0.1	0.0	10.0	550.0	5.50	0.16	0.85	0.08	1.96
74	0.0	1475.0	0.2	0.0							2.80
SUBTOTAL					26.0	3025.0			2.80	0.11	
=====											
AFLUENTE OMATE											
75	32.0	4800.0	0.0	0.0	12.0	2000.0	16.67	0.17	3.24	0.27	0.00
76	20.0	2800.0	0.3	0.0	10.0	910.0	9.10	0.34	3.03	0.30	3.24
77	10.0	1890.0	0.4	0.0	7.0	415.0	5.93	0.37	1.50	0.21	6.27
78	3.0	1475.0	0.4	0.2	3.0	180.0	6.00	0.56	0.98	0.33	7.77
79	0.0	1295.0	0.6	0.0							8.75
SUBTOTAL					32.0	3505.0			8.75	0.27	
=====											
AFLUENTE PUGUINA											
80	22.0	4675.0	0.0	0.0	12.0	2025.0	16.87	0.04	0.77	0.06	0.00
81	10.0	2650.0	0.1	0.0	10.0	750.0	7.50	0.09	0.66	0.07	0.77
82	0.0	1900.0	0.1	0.0							1.43
SUBTOTAL					22.0	2775.0			1.43	0.07	
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*****
* EL POTENCIAL TEGRICO TOTAL DEL RIO OSMORE      ES DE  164.0 MW  *
*
*           Y TIENE UNA LONGITUD ACUMULADA DE  321.0 KM  *
*
*           Y UN POTENCIAL ESPECIFICO DE      0.51 MW/KM  *
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POTENCIAL TEORICO DEL RIO OSMORE 1/ 5/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE CHUJULAY											
1	57.0	4700.0	0.0	0.0	7.0	650.0	9.29	0.06	0.38	0.05	0.00
2	30.0	4050.0	0.1	0.0	10.0	825.0	8.25	0.13	1.02	0.10	0.38
3	20.0	3225.0	0.2	0.0	10.0	805.0	8.05	0.19	1.48	0.15	1.40
4	10.0	2420.0	0.2	0.0	10.0	620.0	6.20	0.22	1.33	0.13	2.88
5	0.0	1800.0	0.2	0.0							4.21
SUBTOTAL					57.0	2900.0			4.21	0.11	
=====											
AFLUENTE HUACARANE											
6	56.0	4700.0	0.0	0.0	6.0	400.0	6.67	0.08	0.31	0.05	0.00
7	50.0	4500.0	0.1	0.0	10.0	400.0	4.00	0.26	1.00	0.10	0.31
8	40.0	3900.0	0.4	0.0	10.0	880.0	8.80	0.43	3.71	0.37	1.31
9	30.0	3020.0	0.5	0.0	10.0	620.0	6.20	0.57	3.48	0.35	5.02
10	20.0	2400.0	0.6	0.0	10.0	600.0	6.00	0.67	3.93	0.39	8.49
11	10.0	1800.0	0.7	0.2	10.0	455.0	4.55	0.91	4.04	0.40	12.42
12	0.0	1345.0	0.9	0.0							16.47
SUBTOTAL					56.0	3355.0			16.47	0.29	
=====											
AFLUENTE CAPILLONE											
13	33.0	4650.0	0.0	0.0	3.0	325.0	10.83	0.07	0.23	0.08	0.00
14	30.0	4325.0	0.1	0.0	10.0	775.0	7.75	0.20	1.52	0.15	0.23
15	20.0	3550.0	0.3	0.0	10.0	455.0	4.55	0.32	1.43	0.14	1.75
16	10.0	3095.0	0.4	0.0	10.0	745.0	7.45	0.40	2.92	0.29	3.18
17	0.0	2350.0	0.4	0.0							6.10
SUBTOTAL					33.0	2500.0			6.10	0.18	
=====											
AFLUENTE TUMILACA SUP											
18	64.0	4850.0	0.0	0.0	9.0	485.0	5.39	0.26	1.24	0.14	0.00
19	55.0	4365.0	0.5	0.0	3.0	115.0	3.83	0.59	0.67	0.22	1.24
20	52.0	4250.0	0.7	0.0	10.0	675.0	6.75	0.95	6.31	0.63	1.91
21	42.0	3575.0	1.2	0.0							8.22
SUBTOTAL					22.0	1275.0			8.22	0.37	
=====											

POTENCIAL TEORICO DEL RIO OSMORE

1/ 5/79

I	L	H	W	AFQ	OL	DH	PE	GC	POT	ESP	CUM
AFLUENTE TUMILACA MED											
21	42.0	3575.0	1.2	0.0	5.0	300.0	6.00	1.21	3.57	0.71	0.00
22	37.0	3275.0	1.2	0.0	13.0	925.0	7.12	1.24	11.27	0.87	3.57
23	24.0	2350.0	1.3	0.4	2.0	150.0	7.50	1.69	2.49	1.25	14.85
24	22.0	2200.0	1.7	0.0	7.0	375.0	5.36	1.67	6.15	0.88	17.34
25	15.0	1825.0	1.7	0.0							23.49
SUBTOTAL					27.0	1750.0			23.49	0.87	
AFLUENTE TUMILACA INF											
25	15.0	1825.0	1.7	0.0	5.0	225.0	4.50	1.65	3.65	0.73	0.00
26	10.0	1600.0	1.7	0.0	10.0	320.0	3.20	1.66	5.21	0.52	3.65
27	0.0	1280.0	1.7	0.0							8.86
SUBTOTAL					15.0	545.0			8.86	0.59	
AFLUENTE OSMORE SUP											
28	131.0	4575.0	0.1	0.0	8.0	135.0	1.69	0.46	0.61	0.08	0.00
29	123.0	4440.0	0.8	0.0	10.0	540.0	5.40	1.11	5.87	0.59	0.61
30	113.0	3900.0	1.4	0.0	10.0	620.0	6.20	1.46	8.91	0.89	6.48
31	103.0	3280.0	1.5	0.0	5.0	230.0	4.60	1.41	3.19	0.64	15.39
32	98.0	3050.0	1.3	0.0	10.0	825.0	8.25	1.30	10.52	1.05	18.57
33	88.0	2225.0	1.3	0.0							29.09
SUBTOTAL					43.0	2350.0			29.09	0.68	
AFLUENTE OSMORE INF											
33	88.0	2225.0	1.3	0.0	6.0	350.0	5.83	1.30	4.47	0.75	0.00
34	82.0	1875.0	1.3	0.9	10.0	530.0	5.30	2.21	11.50	1.15	4.47
35	72.0	1345.0	2.2	1.7	2.0	65.0	3.25	3.87	2.47	1.23	15.98
36	70.0	1280.0	3.9	0.0	10.0	210.0	2.10	3.88	8.00	0.80	18.45
37	60.0	1070.0	3.9	0.0	10.0	165.0	1.65	3.89	6.30	0.63	26.44
38	50.0	905.0	3.9	0.0	10.0	230.0	2.30	3.90	8.80	0.88	32.74
39	40.0	675.0	3.9	0.0	10.0	230.0	2.30	3.90	8.80	0.88	41.54
40	30.0	445.0	3.9	0.0	10.0	200.0	2.00	3.92	7.69	0.77	50.35
41	20.0	245.0	3.9	0.0	10.0	125.0	1.25	3.94	4.83	0.48	58.04
42	10.0	120.0	3.9	0.0	10.0	120.0	1.20	3.95	4.65	0.46	62.87
43	0.0	0.0	3.9	0.0							67.52
SUBTOTAL					88.0	2225.0			67.52	0.77	

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 \* EL POTENCIAL TEORICO TOTAL DEL RIO LOCUMBA ES DE 97.1 MW \*  
 \* Y TIENE UNA LONGITUD ACUMULADA DE 384.0 KM \*  
 \* Y UN POTENCIAL ESPECIFICO DE 0.25 MW/KM \*  
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POTENCIAL TEORICO DEL RIO LOCUMBA 1/ 5/79

I	L	H	Q	AFG	DL	DH	PE	QC	PUT	ESP	CUM
=====											
AFLUENTE SALADO SUP											
1	47.0	5000.0	0.0	0.0							0.00
2	41.0	4520.0	0.1	0.0	6.0	480.0	8.00	0.07	0.54	0.06	0.34
3	31.0	4255.0	0.4	0.0	10.0	265.0	2.65	0.27	0.71	0.07	1.06
4	21.0	3650.0	0.6	0.0	10.0	605.0	6.05	0.52	3.08	0.31	4.14
5	11.0	3100.0	0.7	0.0	10.0	550.0	5.50	0.68	3.66	0.57	7.80
6	1.0	2830.0	0.8	0.0	10.0	270.0	2.70	0.76	2.02	0.20	9.82
SUBTOTAL					46.0	2170.0			9.82	0.21	
=====											
AFLUENTE SALADO INF											
6	1.0	2830.0	0.8	0.0							0.00
7	0.0	2825.0	0.6	0.0	1.0	5.0	0.50	0.70	0.03	0.03	0.03
SUBTOTAL					1.0	5.0			0.03	0.03	
=====											
AFLUENTE BOROQUENA											
8	30.0	4800.0	0.0	0.0							0.00
9	20.0	4225.0	0.1	0.0	10.0	575.0	5.75	0.03	0.16	0.02	0.16
10	10.0	3510.0	0.0	0.0	10.0	715.0	7.15	0.05	0.35	0.03	0.51
11	0.0	2200.0	0.1	0.0	10.0	1310.0	13.10	0.05	0.69	0.07	1.20
SUBTOTAL					30.0	2600.0			1.20	0.04	
=====											
AFLUENTE ILABAYA SUP											
12	66.0	4840.0	0.0	0.0							0.00
13	62.0	4480.0	0.1	0.0	4.0	360.0	9.00	0.08	0.29	0.07	0.29
14	52.0	4150.0	0.2	0.0	10.0	330.0	3.30	0.19	0.63	0.06	0.92
SUBTOTAL					14.0	690.0			0.92	0.07	
=====											
AFLUENTE ILABAYA MED											
14	52.0	4150.0	0.2	0.0							0.00
15	42.0	3725.0	0.4	0.0	10.0	425.0	4.25	0.30	1.27	0.13	1.27
16	32.0	2850.0	0.4	0.0	10.0	875.0	8.75	0.40	3.44	0.34	4.71
17	22.0	2200.0	0.5	0.1	10.0	650.0	6.50	0.44	2.83	0.28	7.54
18	11.0	1470.0	0.3	0.0	11.0	730.0	6.64	0.43	3.05	0.28	10.59
19	1.0	1170.0	0.4	0.0	10.0	300.0	3.00	0.37	1.08	0.11	11.67
SUBTOTAL					51.0	2980.0			11.67	0.23	
=====											
AFLUENTE ILABAYA INF											
19	1.0	1170.0	0.4	0.0							0.00
20	0.0	1105.0	0.4	0.0	1.0	65.0	6.50	0.40	0.26	0.26	0.26
SUBTOTAL					1.0	65.0			0.26	0.26	
=====											

POTENCIAL TEORICO DEL RIO LUCUMBA 1/ 5/79

I	L	H	Q	AFQ	DL	DM	PE	OC	POT	ESP	CUM
AFLUENTE CINTO SUP											
21	72.0	4690.0	0.1	0.0							0.00
					9.0	540.0	6.00	0.13	0.71	0.08	0.71
SUBTOTAL					9.0	540.0			0.71	0.08	
AFLUENTE CINTO INF											
22	63.0	4150.0	0.2	0.0							0.00
23	50.0	3400.0	0.2	0.0	13.0	850.0	6.54	0.18	1.49	0.11	1.49
24	40.0	2550.0	0.2	0.0	10.0	750.0	7.50	0.21	1.56	0.16	3.06
25	30.0	1744.0	0.2	0.0	10.0	802.0	8.02	0.23	1.83	0.18	4.89
26	20.0	1155.0	0.3	0.0	10.0	593.0	5.93	0.25	1.45	0.14	6.34
27	10.0	820.0	0.3	0.0	10.0	335.0	3.35	0.26	0.85	0.09	7.19
28	0.0	550.0	0.3	0.0	10.0	270.0	2.70	0.26	0.69	0.07	7.88
SUBTOTAL					63.0	3600.0			7.88	0.13	
AFLUENTE LUCUMBA A											
29	164.0	4470.0	0.8	0.0							0.00
30	159.0	4420.0	1.0	0.0	10.0	50.0	0.50	0.92	0.45	0.05	0.45
31	149.0	4345.0	1.5	0.0	10.0	75.0	0.75	1.23	0.91	0.09	1.36
32	139.0	4120.0	1.7	0.0	10.0	225.0	2.25	1.58	3.48	0.35	4.84
SUBTOTAL					30.0	350.0			4.84	0.16	
AFLUENTE LUCUMBA B											
32	139.0	4120.0	1.7	0.0							0.00
33	124.0	3825.0	0.8	0.0	10.0	495.0	4.95	1.26	6.14	0.61	6.14
34	119.0	3150.0	0.9	0.0	10.0	475.0	4.75	0.86	4.03	0.40	10.17
SUBTOTAL					20.0	970.0			10.17	0.51	
AFLUENTE LUCUMBA C											
34	119.0	3150.0	0.9	0.0							0.00
35	109.0	2825.0	1.0	0.6	10.0	325.0	3.25	0.93	2.98	0.30	2.98
36	98.0	2350.0	1.6	0.0	11.0	475.0	4.32	1.58	7.38	0.67	10.36
37	84.0	1500.0	1.6	0.0	14.0	850.0	6.07	1.61	13.45	0.96	23.81
38	74.0	1145.0	1.6	0.0	10.0	355.0	3.55	1.61	5.62	0.56	29.43
SUBTOTAL					45.0	2005.0			29.43	0.65	
AFLUENTE LUCUMBA D											
38	74.0	1145.0	1.6	0.0							0.00
39	72.0	1105.0	1.6	0.4	2.0	40.0	2.00	1.60	0.63	0.31	0.63
40	65.0	950.0	2.0	0.0	7.0	155.0	2.21	2.00	3.05	0.44	3.68
41	55.0	745.0	2.2	0.0	10.0	205.0	2.05	2.09	4.20	0.42	7.87
42	45.0	575.0	2.2	0.0	10.0	170.0	1.70	2.18	3.64	0.36	11.51
SUBTOTAL					29.0	570.0			11.51	0.40	
AFLUENTE LUCUMBA E											
42	45.0	575.0	2.2	0.0							0.00
43	43.0	550.0	2.2	0.3	2.0	25.0	1.25	2.20	0.54	0.27	0.54
44	30.0	390.0	2.0	0.0	13.0	160.0	1.23	2.22	3.49	0.27	4.03
45	20.0	273.0	1.5	0.0	10.0	117.0	1.17	1.75	2.60	0.20	6.03
46	10.0	148.0	1.0	0.0	10.0	125.0	1.25	1.26	1.55	0.15	7.58
47	0.0	0.0	0.5	0.0	10.0	148.0	1.48	0.77	1.11	0.11	8.69
SUBTOTAL					45.0	575.0			8.69	0.19	

\*\*\*\*\*  
 \* EL POTENCIAL TEORICO TOTAL DEL RIO SAMA ES DE 82.8 MW \*  
 \* Y TIENE UNA LONGITUD ACUMULADA DE 278.0 KM \*  
 \* Y UN POTENCIAL ESPECIFICO DE 0.30 MW/KM \*  
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POTENCIAL TEORICO DEL RIO SAMA 1/ 5/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE TARATA											
1	25.0	5150.0	0.0	0.0	5.0	675.0	13.50	0.04	0.24	0.05	0.00
2	20.0	4475.0	0.1	0.0	10.0	675.0	6.75	0.10	0.64	0.06	0.24
3	10.0	3800.0	0.1	0.0	10.0	1000.0	10.00	0.14	1.39	0.14	0.88
4	0.0	2800.0	0.2	0.0							2.27
SUBTOTAL					25.0	2350.0			2.27	0.09	
=====											
AFLUENTE ESTIQUE											
5	19.0	5200.0	0.0	0.0	9.0	1450.0	16.11	0.02	0.30	0.03	0.00
6	10.0	3750.0	0.0	0.0	10.0	840.0	8.40	0.06	0.46	0.05	0.30
7	0.0	2910.0	0.1	0.0							0.76
SUBTOTAL					19.0	2290.0			0.76	0.04	
=====											
AFLUENTE ARUMA											
8	30.0	5075.0	0.0	0.0	10.0	1050.0	10.50	0.06	0.58	0.06	0.00
9	20.0	4025.0	0.1	0.0	10.0	1115.0	11.15	0.14	1.58	0.16	0.58
10	10.0	2910.0	0.2	0.1	10.0	510.0	5.10	0.28	1.42	0.14	2.16
11	0.0	2400.0	0.3	0.0							3.56
SUBTOTAL					30.0	2675.0			3.58	0.12	
=====											
AFLUENTE SALADO A											
12	37.0	4525.0	0.0	0.0	11.0	425.0	3.86	0.15	0.62	0.06	0.00
13	26.0	4100.0	0.3	0.0	10.0	900.0	9.00	0.39	3.44	0.34	0.62
14	16.0	3200.0	0.5	0.0							4.07
SUBTOTAL					21.0	1325.0			4.07	0.19	
=====											
AFLUENTE SALADO B											
14	16.0	3200.0	0.5	0.0	6.0	470.0	7.83	0.53	2.43	0.41	0.00
15	10.0	2730.0	0.6	0.0	10.0	580.0	5.80	0.63	3.56	0.36	2.43
16	0.0	2150.0	0.7	0.0							5.99
SUBTOTAL					16.0	1050.0			5.99	0.37	
=====											
AFLUENTE SAMA A											
17	167.0	4749.0	0.0	0.0	4.0	214.0	5.35	0.05	0.11	0.03	0.00
18	163.0	4535.0	0.1	0.0	10.0	60.0	0.60	0.39	0.23	0.02	0.11
19	153.0	4475.0	0.7	0.0							0.33
SUBTOTAL					14.0	274.0			0.33	0.02	
=====											



POTENCIAL TEORICO DEL RIO SAMA

1/ 5/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
AFLUENTE SAMA B											
19	153.0	4475.0	0.7	0.0							
20	142.0	3820.0	0.8	0.0	11.0	655.0	5.95	0.73	4.67	0.42	0.00
21	132.0	2800.0	0.8	0.2	10.0	1020.0	10.20	0.78	7.83	0.78	4.67
22	125.0	2400.0	1.0	0.3	7.0	400.0	5.71	0.99	3.90	0.56	12.50
23	116.0	2150.0	1.4	0.7	9.0	250.0	2.78	1.35	3.31	0.37	16.40
24	107.0	1875.0	2.1	0.0	9.0	275.0	3.06	2.09	5.63	0.63	19.71
25	97.0	1553.0	2.2	0.0	10.0	322.0	3.22	2.14	6.75	0.68	25.33
26	87.0	1225.0	2.2	0.0	10.0	328.0	3.28	2.17	7.00	0.70	32.09
27	77.0	975.0	2.2	0.0	10.0	250.0	2.50	2.18	5.36	0.54	39.08
28	67.0	775.0	2.2	0.0	10.0	200.0	2.00	2.19	4.50	0.43	44.44
29	57.0	620.0	2.2	0.0	10.0	155.0	1.55	2.20	3.34	0.33	48.74
SUBTOTAL					96.0	3855.0			52.09	0.54	52.09
AFLUENTE SAMA C											
29	57.0	620.0	2.2	0.0							
30	50.0	535.0	2.2	0.0	7.0	85.0	1.21	2.21	1.85	0.26	0.00
31	40.0	400.0	2.2	0.0	10.0	135.0	1.35	2.23	2.95	0.30	1.85
32	30.0	287.0	2.2	0.0	10.0	113.0	1.13	2.23	2.48	0.25	4.80
33	20.0	180.0	2.2	0.0	10.0	107.0	1.07	2.24	2.35	0.24	7.27
34	10.0	75.0	2.4	0.0	10.0	105.0	1.05	2.31	2.38	0.24	9.63
35	0.0	0.0	2.4	0.0	10.0	75.0	0.75	2.38	1.75	0.16	12.01
SUBTOTAL					57.0	620.0			13.76	0.24	13.76

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 \* EL POTENCIAL TEORICO TOTAL DEL RIO CAPLINA ES DE 54.0 MW \*  
 \* Y TIENE UNA LONGITUD ACUMULADA DE 126.0 KM \*  
 \* Y UN POTENCIAL ESPECIFICO DE 0.43 MW/KM \*  
 \*\*\*\*\*

POTENCIAL TEORICO DEL RIO CAPLINA 1/ 5/79

I	L	H	Q	AFU	DL	DH	PE	QC	PUT	ESP	CUM
=====											
AFLUENTE UCHUSUMA SUP											
1	50.0	4480.0	0.6	0.0	7.0	755.0	10.79	0.63	4.69	0.67	0.00
2	43.0	3725.0	0.6	0.0	10.0	1025.0	10.25	0.60	6.07	0.61	4.69
3	33.0	2700.0	0.6	0.0	10.0	915.0	9.15	0.62	5.55	0.55	10.75
4	23.0	1785.0	0.7	0.0	10.0	580.0	5.80	0.62	3.52	0.35	16.30
5	13.0	1205.0	0.6	0.0	10.0	392.0	3.92	0.59	2.26	0.23	19.82
6	3.0	813.0	0.6	0.0							22.08
SUBTOTAL					47.0	3667.0			22.08	0.47	
=====											
AFLUENTE UCHUSUMA INF											
6	3.0	813.0	0.6	0.0	3.0	1.0	0.03	0.60	0.01	0.00	0.00
7	0.0	812.0	0.6	0.0							0.01
SUBTOTAL					3.0	1.0			0.01	0.00	
=====											
AFLUENTE CAPLINA SUP											
8	76.0	5300.0	0.0	0.0	13.0	1225.0	9.42	0.19	2.31	0.18	0.00
9	63.0	4075.0	0.4	0.0	10.0	800.0	8.00	0.44	3.45	0.34	2.31
10	53.0	3275.0	0.5	0.0	10.0	1027.0	10.27	0.70	7.07	0.71	5.76
11	43.0	2248.0	0.9	0.0	10.0	548.0	5.48	0.95	5.08	0.51	12.83
12	33.0	1700.0	1.0	0.0	10.0	400.0	4.00	1.00	3.91	0.39	17.92
13	23.0	1300.0	1.0	0.0							21.83
SUBTOTAL					53.0	4000.0			21.83	0.41	
=====											
AFLUENTE CAPLINA INF											
13	23.0	1300.0	1.0	0.0	10.0	352.0	3.52	1.15	3.97	0.40	0.00
14	13.0	948.0	1.3	0.0	4.0	136.0	3.40	1.30	1.74	0.43	3.97
15	9.0	812.0	1.3	0.6	9.0	237.0	2.63	1.90	4.43	0.49	5.71
16	0.0	575.0	1.9	0.0							10.14
SUBTOTAL					23.0	725.0			10.14	0.44	
=====											

\*\*\*\*\*  
 \* EL POTENCIAL TEORICO TOTAL DEL RIO ALTO MARANON ES DE 8635.5 MW \*  
 \* Y TIENE UNA LONGITUD ACUMULADA DE 1932.0 KM \*  
 \* Y UN POTENCIAL ESPECIFICO DE 4.47 MW/KM \*  
 \*\*\*\*\*

POTENCIAL TEORICO DEL RIO ALTO MARANON 1/17/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE NUPE											
1	55.0	4440.0	0.0	0.0							0.00
2	48.0	4099.0	1.3	0.0	7.0	341.0	4.87	0.64	2.13	0.30	2.13
3	38.0	3825.0	2.4	0.0	10.0	274.0	2.74	1.81	4.86	0.49	6.99
4	28.0	3625.0	9.3	0.0	10.0	200.0	2.00	5.85	11.47	1.15	18.46
5	20.0	3520.0	10.3	0.0	8.0	105.0	1.31	9.84	10.14	1.27	28.59
6	10.0	3385.0	12.2	0.0	10.0	135.0	1.35	11.26	14.91	1.49	43.51
7	0.0	3300.0	14.7	0.0	10.0	85.0	0.85	13.41	11.18	1.12	54.69
SUBTOTAL					55.0	1140.0			54.69	0.99	
=====											
AFLUENTE SANTA ROSA											
8	24.0	4390.0	0.1	0.0							0.00
9	10.0	3880.0	1.0	0.0	14.0	510.0	3.64	0.57	2.84	0.20	2.84
10	0.0	3500.0	1.6	0.0	10.0	380.0	3.80	1.31	4.90	0.49	7.74
SUBTOTAL					24.0	890.0			7.74	0.32	
=====											
AFLUENTE ANDACHUPA											
11	28.0	4224.0	0.3	0.0							0.00
12	20.0	3930.0	1.8	0.0	8.0	294.0	3.68	1.06	3.05	0.38	3.05
13	10.0	3560.0	2.5	0.0	10.0	370.0	3.70	2.16	7.84	0.78	10.88
14	0.0	3380.0	5.5	0.0	10.0	180.0	1.80	4.03	7.12	0.71	18.00
SUBTOTAL					28.0	844.0			18.00	0.64	
=====											
AFLUENTE SHIULLA											
15	24.0	4390.0	0.1	0.0							0.00
16	10.0	3880.0	1.0	0.0	14.0	510.0	3.64	0.57	2.84	0.20	2.84
17	0.0	3500.0	1.6	0.0	10.0	380.0	3.80	1.31	4.89	0.49	7.73
SUBTOTAL					24.0	890.0			7.73	0.32	
=====											
AFLUENTE LAMPAS											
18	28.0	4430.0	0.1	0.0							0.00
19	15.0	3890.0	1.4	0.0	13.0	540.0	4.15	0.73	3.85	0.30	3.85
20	5.0	3500.0	2.2	1.6	10.0	390.0	3.90	1.76	6.72	0.67	10.57
21	0.0	3340.0	4.0	0.0	5.0	160.0	3.20	3.86	6.06	1.21	16.63
SUBTOTAL					28.0	1090.0			16.63	0.59	
=====											
AFLUENTE TAPARACO											
22	33.0	4300.0	0.2	0.0							0.00
23	20.0	3850.0	3.6	0.0	13.0	450.0	3.46	1.90	8.37	0.64	8.37
24	10.0	3640.0	4.3	0.0	10.0	210.0	2.10	3.94	8.11	0.81	16.48
25	0.0	3300.0	4.8	0.0	10.0	340.0	3.40	4.54	15.15	1.51	31.63
SUBTOTAL					33.0	1000.0			31.63	0.96	
=====											

POTENCIAL TEORICO DEL RIO ALTO MARANON 1/17/79

I	L	H	Q	AFQ	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE VIZCARRA											
26	70.0	4550.0	0.0	0.0	6.0	375.0	6.25	0.16	0.59	0.10	0.00
27	64.0	4175.0	0.3	0.0	10.0	275.0	2.75	0.93	2.50	0.25	0.59
28	54.0	3900.0	1.6	0.0	10.0	400.0	4.00	2.77	10.87	1.09	3.09
29	44.0	3500.0	4.0	1.6	8.0	120.0	1.50	5.92	6.96	0.87	13.97
30	36.0	3380.0	6.3	5.5	1.0	40.0	4.00	11.78	4.62	4.62	20.93
31	35.0	3340.0	11.8	4.0	3.0	40.0	1.33	15.82	6.21	2.07	25.55
32	32.0	3300.0	15.9	4.8	12.0	170.0	1.42	23.20	38.69	3.22	31.76
33	20.0	3150.0	25.8	0.0	10.0	90.0	0.90	26.92	23.77	2.38	70.45
34	10.0	3040.0	28.1	0.0	10.0	80.0	0.80	28.41	22.29	2.23	94.22
35	0.0	2960.0	28.7	0.0							116.51
SUBTOTAL					70.0	1590.0			116.51	1.66	
=====											
AFLUENTE TANTAMAYO											
36	20.0	4026.0	0.2	0.0	10.0	476.0	4.76	0.85	3.96	0.40	0.00
37	10.0	3550.0	1.5	0.0	10.0	910.0	9.10	2.17	19.39	1.94	3.96
38	0.0	2640.0	2.9	0.0							23.35
SUBTOTAL					20.0	1386.0			23.35	1.17	
=====											
AFLUENTE CARPA											
39	12.0	3550.0	0.7	0.0	12.0	1100.0	9.17	1.23	13.25	1.10	0.00
40	0.0	2450.0	1.8	0.0							13.25
SUBTOTAL					12.0	1100.0			13.25	1.10	
=====											
AFLUENTE PACHACHACA											
41	15.0	4410.0	0.0	0.0	5.0	210.0	4.20	0.28	0.58	0.12	0.00
42	10.0	4200.0	0.5	0.0	10.0	400.0	4.00	1.78	6.97	0.70	0.58
43	0.0	3800.0	3.0	0.0							7.55
SUBTOTAL					15.0	610.0			7.55	0.50	
=====											
AFLUENTE MOSNA											
44	25.0	4600.0	0.0	0.0	8.0	350.0	4.37	0.53	1.82	0.23	0.00
45	17.0	4250.0	1.0	0.0	10.0	450.0	4.50	1.35	5.95	0.60	1.82
46	7.0	3800.0	1.7	3.0	7.0	350.0	5.00	4.97	17.08	2.44	7.77
47	0.0	3450.0	5.3	0.0							24.85
SUBTOTAL					25.0	1150.0			24.85	0.99	
=====											
AFLUENTE RUMICHINCHAY											
48	21.0	4500.0	0.1	0.0	11.0	1100.0	10.00	0.80	6.65	0.79	0.00
49	10.0	3400.0	1.5	0.0	10.0	700.0	7.00	2.54	17.47	1.75	8.65
50	0.0	2700.0	3.6	0.0							26.13
SUBTOTAL					21.0	1800.0			26.13	1.24	
=====											
AFLUENTE HUARI											
51	29.0	4320.0	0.0	0.0	9.0	730.0	8.11	0.56	3.99	0.44	0.00
52	20.0	3590.0	1.1	0.0	10.0	540.0	5.40	1.84	9.73	0.97	3.99
53	10.0	3050.0	2.6	0.0	10.0	400.0	4.00	4.28	16.79	1.68	13.73
54	0.0	2650.0	6.0	0.0							30.51
SUBTOTAL					29.0	1670.0			30.51	1.05	
=====											
AFLUENTE COLCA											
55	34.0	4350.0	0.0	0.0	14.0	850.0	6.07	1.20	9.99	0.71	0.00
56	20.0	3500.0	2.4	0.0	10.0	600.0	6.00	3.39	19.97	2.00	9.99
57	10.0	2900.0	4.4	0.0	10.0	450.0	4.50	4.89	21.58	2.16	29.96
58	0.0	2450.0	5.4	0.0							51.54
SUBTOTAL					34.0	1900.0			51.54	1.52	

POTENCIAL TEORICO DEL RIO ALTO MARANON 1/17/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE CHINCHORAGHA											
59	18.0	4200.0	0.0	0.0	8.0	450.0	5.62	0.23	1.01	0.13	0.00
60	10.0	3750.0	0.4	0.0	10.0	1580.0	15.80	0.67	10.37	1.04	1.01
61	0.0	2170.0	0.9	0.0							11.37
SUBTOTAL					18.0	2030.0			11.37	0.63	
=====											
AFLUENTE PUSMCA											
62	104.0	4650.0	0.0	0.0	12.0	640.0	5.33	0.59	3.70	0.31	0.00
63	92.0	4010.0	1.1	0.0	10.0	560.0	5.60	1.71	9.39	0.94	3.70
64	82.0	3450.0	2.3	5.3	9.0	300.0	3.33	8.68	25.54	2.84	13.09
65	73.0	3150.0	4.8	0.0	10.0	240.0	2.40	12.68	29.86	2.99	38.63
66	63.0	2910.0	15.5	0.0	10.0	210.0	2.10	16.92	34.86	3.49	68.49
67	53.0	2700.0	18.3	3.6	5.0	50.0	1.00	22.12	10.85	2.17	103.35
68	48.0	2650.0	22.3	6.0	5.0	100.0	2.00	28.72	28.17	5.63	114.20
69	43.0	2550.0	29.1	0.0	10.0	100.0	1.00	29.97	29.40	2.94	142.37
70	33.0	2450.0	30.8	5.4	6.0	110.0	1.83	37.71	40.70	6.78	171.78
71	27.0	2340.0	39.2	0.0	10.0	100.0	1.00	41.02	40.25	4.02	212.47
72	17.0	2240.0	42.8	0.0	10.0	70.0	0.70	43.99	30.21	3.02	252.72
73	7.0	2170.0	45.2	0.9	7.0	80.0	1.14	46.74	36.68	5.24	282.93
74	0.0	2090.0	47.4	0.0							319.61
SUBTOTAL					104.0	2560.0			319.61	3.07	
=====											
AFLUENTE MIRGAS											
75	28.0	4250.0	0.0	0.0	8.0	600.0	7.50	0.37	2.21	0.28	0.00
76	20.0	3650.0	0.7	0.0	10.0	900.0	9.00	1.51	13.30	1.33	2.21
77	10.0	2750.0	2.3	0.0	10.0	720.0	7.20	2.62	18.54	1.85	15.51
78	0.0	2030.0	5.0	0.0							34.05
SUBTOTAL					28.0	2220.0			34.05	1.22	
=====											
AFLUENTE AKMA											
79	16.0	4100.0	0.2	0.0	6.0	500.0	8.33	0.77	3.76	0.63	0.00
80	10.0	3600.0	1.4	0.0	10.0	640.0	6.40	1.90	11.95	1.20	3.76
81	0.0	2960.0	2.4	0.0							15.71
SUBTOTAL					16.0	1140.0			15.71	0.98	
=====											
AFLUENTE YURMA											
82	34.0	4500.0	0.0	0.0	14.0	1100.0	7.86	0.79	8.51	0.61	0.00
83	20.0	3400.0	1.6	0.0	10.0	650.0	6.50	3.47	22.16	2.22	8.51
84	10.0	2750.0	5.4	0.0	10.0	370.0	3.70	5.89	21.37	2.14	30.67
85	0.0	2380.0	6.4	0.0							52.04
SUBTOTAL					34.0	2120.0			52.04	1.53	
=====											
AFLUENTE PUMABAMBA											
86	39.0	4060.0	0.1	0.0	7.0	880.0	12.57	0.81	7.01	1.00	0.00
87	32.0	3180.0	1.6	0.0	10.0	520.0	3.20	3.19	10.00	1.00	7.01
88	22.0	2860.0	4.8	0.0	10.0	270.0	2.70	6.27	16.61	1.66	17.01
89	12.0	2590.0	7.7	0.0	12.0	300.0	2.50	9.31	27.40	2.28	33.62
90	0.0	2290.0	10.9	0.0							61.02
SUBTOTAL					39.0	1770.0			61.02	1.56	
=====											
AFLUENTE YANAMAYO											
91	69.0	4800.0	0.0	0.0	10.0	1150.0	11.50	0.59	6.65	0.66	0.00
92	59.0	3650.0	1.2	0.0	10.0	690.0	6.90	3.52	23.83	2.38	6.65
93	49.0	2960.0	5.9	2.4	10.0	370.0	3.70	10.84	39.34	3.93	30.48
94	39.0	2590.0	13.4	0.0	10.0	210.0	2.10	13.91	28.65	2.87	69.82
95	29.0	2380.0	14.5	6.4	7.0	90.0	1.29	21.13	18.65	2.66	98.47
96	22.0	2290.0	21.4	10.9	12.0	260.0	2.17	33.92	86.51	7.21	117.13
97	10.0	2030.0	35.5	0.0	10.0	100.0	1.00	37.80	37.08	3.71	203.64
98	0.0	1930.0	40.1	0.0							240.72
SUBTOTAL					69.0	2870.0			240.72	3.49	

I	L	H	Q	AFQ	DL	DH	PE	GC	POT	ESP	CUM
=====											
AFLUENTE MANTA											
99	27.0	4025.0	0.0	0.0							0.00
100	20.0	3190.0	0.5	0.0	7.0	835.0	11.93	0.27	2.25	0.32	2.25
101	10.0	2350.0	2.1	0.0	10.0	840.0	8.40	1.29	10.62	1.06	12.86
102	0.0	1805.0	3.0	0.0	10.0	545.0	5.45	2.54	13.58	1.36	26.45
SUBTOTAL					27.0	2220.0			26.45	0.98	
=====											
AFLUENTE HUACHACHUCO											
103	38.0	3700.0	0.1	0.0							0.00
104	30.0	3240.0	1.5	0.0	8.0	460.0	5.75	0.82	3.70	0.46	3.70
105	20.0	2525.0	3.4	0.0	10.0	715.0	7.15	2.48	17.40	1.74	21.10
106	10.0	2060.0	6.1	0.0	10.0	465.0	4.65	4.77	21.75	2.17	42.85
107	0.0	1740.0	6.9	0.0	10.0	320.0	3.20	6.51	20.44	2.04	63.29
SUBTOTAL					38.0	1960.0			63.29	1.67	
=====											
AFLUENTE RUPAC											
108	58.0	4200.0	0.1	0.0							0.00
109	50.0	3545.0	0.6	0.0	8.0	655.0	8.19	0.33	2.15	0.27	2.15
110	40.0	2850.0	2.0	0.0	10.0	695.0	6.95	1.33	9.08	0.91	11.23
111	30.0	2410.0	4.2	0.0	10.0	440.0	4.40	3.11	13.42	1.34	24.65
112	20.0	2145.0	10.9	0.0	10.0	265.0	2.65	7.53	19.57	1.96	44.22
113	10.0	1950.0	14.4	0.0	10.0	195.0	1.95	12.64	24.18	2.42	68.40
114	0.0	1709.0	15.5	0.0	10.0	241.0	2.41	14.95	35.34	3.53	103.73
SUBTOTAL					58.0	2491.0			103.73	1.79	
=====											
AFLUENTE LLAMA											
115	33.0	4340.0	0.0	0.0							0.00
116	20.0	3470.0	1.1	0.0	13.0	870.0	6.69	0.54	4.60	0.35	4.60
117	10.0	2750.0	2.5	0.0	10.0	720.0	7.20	1.80	12.74	1.27	17.34
118	0.0	1890.0	3.6	0.0	10.0	860.0	8.60	3.09	26.10	2.61	43.44
SUBTOTAL					33.0	2450.0			43.44	1.32	
=====											
AFLUENTE ACTUY											
119	36.0	3980.0	0.2	0.0							0.00
120	30.0	3750.0	0.8	0.0	6.0	230.0	3.83	0.48	1.09	0.18	1.09
121	20.0	2750.0	1.9	0.0	10.0	1000.0	10.00	1.31	12.87	1.29	13.96
122	10.0	1890.0	3.2	3.6	10.0	860.0	8.60	2.55	21.52	2.15	35.48
123	0.0	1620.0	8.0	0.0	10.0	270.0	2.70	7.42	19.65	1.96	55.12
SUBTOTAL					36.0	2360.0			55.12	1.53	
=====											
AFLUENTE UCTUBAMBA											
124	18.0	3790.0	0.0	0.0							0.00
125	10.0	2100.0	0.4	0.0	8.0	1690.0	21.12	0.23	3.88	0.48	3.88
126	0.0	1290.0	1.5	0.0	10.0	810.0	8.10	1.00	7.92	0.79	11.80
SUBTOTAL					18.0	2500.0			11.80	0.66	
=====											
AFLUENTE SAN MIGUEL											
127	40.0	4000.0	0.0	0.0							0.00
128	20.0	2110.0	0.4	0.0	20.0	1890.0	9.45	0.20	3.68	0.18	3.68
129	10.0	1850.0	0.8	0.0	10.0	260.0	2.60	0.57	1.46	0.15	5.14
130	0.0	1265.0	1.2	0.0	10.0	585.0	5.85	0.97	5.56	0.56	10.71
SUBTOTAL					40.0	2735.0			10.71	0.27	

I	L	H	Q	AFQ	PL	Q/M	PE	Q/C	PIT	PSP	CR
=====											
AFLUENTE GANSUL											
131	18.0	3740.0	0.0	0.0	8.0	1510.0	18.87	0.25	3.69	0.46	0.00
132	10.0	2230.0	0.5	0.0	10.0	1070.0	10.70	0.83	8.73	0.87	3.69
133	0.0	1160.0	1.2	0.0							12.42
SUBTOTAL					18.0	2580.0			12.42	0.69	
=====											
AFLUENTE LAVASEN											
134	29.0	4020.0	0.0	0.0	9.0	920.0	10.22	0.45	4.06	0.45	0.00
135	20.0	3100.0	0.9	0.0	10.0	1240.0	12.40	1.67	20.32	2.03	4.06
136	10.0	1860.0	2.5	0.0	10.0	745.0	7.45	2.88	21.02	2.10	24.37
137	0.0	1115.0	3.3	0.0							45.59
SUBTOTAL					29.0	2905.0			45.39	1.57	
=====											
AFLUENTE CHUSGON											
138	81.0	4160.0	0.0	0.0	11.0	970.0	8.82	0.25	2.35	0.21	0.00
139	70.0	3190.0	0.5	0.0	10.0	530.0	5.30	1.57	8.14	0.81	2.35
140	60.0	2660.0	2.6	0.0	10.0	270.0	2.70	5.26	13.93	1.39	10.49
141	50.0	2390.0	7.9	0.0	10.0	360.0	3.60	9.55	33.74	3.37	24.43
142	40.0	2030.0	11.2	0.0	10.0	260.0	2.60	12.62	52.18	3.22	58.17
143	30.0	1770.0	14.0	0.0	10.0	390.0	3.90	15.32	58.62	5.86	90.35
144	20.0	1380.0	16.6	0.0	10.0	170.0	1.70	16.76	27.95	2.80	148.97
145	10.0	1210.0	16.9	0.0	10.0	135.0	1.35	17.58	23.01	2.30	176.93
146	0.0	1075.0	17.9	0.0							199.94
SUBTOTAL					81.0	3085.0			199.94	2.47	
=====											
AFLUENTE CHON CHON											
147	28.0	3750.0	0.0	0.0	8.0	1150.0	14.37	0.33	3.67	0.46	0.00
148	20.0	2600.0	0.6	0.0	10.0	1070.0	10.70	1.50	15.70	1.57	3.67
149	10.0	1530.0	2.4	0.0	10.0	490.0	4.90	2.58	12.41	1.24	19.37
150	0.0	1040.0	2.8	0.0							31.78
SUBTOTAL					28.0	2710.0			31.78	1.13	
=====											
AFLUENTE SUTE											
151	35.0	3730.0	0.1	0.0	5.0	300.0	6.00	0.20	0.58	0.12	0.00
152	30.0	3430.0	0.3	0.0	10.0	1080.0	10.80	1.10	11.68	1.17	0.58
153	20.0	2350.0	1.9	0.0	10.0	800.0	8.00	3.11	24.43	2.44	12.27
154	10.0	1550.0	4.3	0.0	10.0	558.0	5.58	4.57	25.03	2.50	36.70
155	0.0	992.0	4.8	0.0							61.73
SUBTOTAL					35.0	2738.0			61.73	1.76	
=====											
AFLUENTE YANGAS SUP											
156	50.0	4200.0	0.2	0.0	15.0	650.0	4.33	0.44	2.80	0.19	0.00
157	35.0	3550.0	0.7	0.0							2.80
SUBTOTAL					15.0	650.0			2.80	0.19	
=====											
AFLUENTE YANGAS INF											
157	35.0	3550.0	0.7	0.0	35.0	2791.0	7.97	5.67	155.21	4.43	0.00
158	0.0	759.0	10.6	0.0							155.21
SUBTOTAL					35.0	2791.0			155.21	4.43	

POTENCIAL TEORICO DEL RIO ALTO MARANON 1/17/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE A MARANON S											
159	715.0	3845.0	3.0	0.0							0.00
160	690.0	3570.0	13.2	0.0	25.0	275.0	1.10	8.11	21.88	0.88	21.88
161	670.0	3380.0	17.3	0.0	20.0	190.0	0.95	15.25	28.42	1.42	50.30
162	662.0	3300.0	18.0	14.7	8.0	80.0	1.00	17.66	13.86	1.73	64.16
163	647.0	3170.0	36.0	0.0	15.0	130.0	0.87	34.34	43.79	2.92	107.95
164	637.0	3090.0	40.2	0.0	10.0	80.0	0.80	38.14	29.93	2.99	137.88
165	627.0	3035.0	43.0	0.0	10.0	55.0	0.55	41.60	22.44	2.24	160.32
166	622.0	3000.0	45.6	0.0	5.0	35.0	0.70	44.26	15.20	3.04	175.52
167	612.0	2960.0	48.2	28.7	10.0	40.0	0.40	46.90	18.40	1.84	193.92
168	608.0	2940.0	79.5	0.0	4.0	20.0	0.50	78.24	15.35	3.84	209.27
169	601.0	2840.0	81.9	0.0	7.0	100.0	1.43	80.69	79.16	11.31	288.43
170	592.0	2760.0	89.8	0.0	9.0	80.0	0.89	85.85	67.37	7.49	355.80
171	582.0	2710.0	94.4	0.0	10.0	50.0	0.50	92.13	45.19	4.52	400.99
172	572.0	2610.0	98.2	2.9	10.0	100.0	1.00	96.32	94.49	9.45	495.48
173	565.0	2450.0	101.7	1.8	7.0	160.0	2.29	101.38	159.12	22.73	654.60
174	560.0	2410.0	103.8	0.0	5.0	40.0	0.80	103.64	40.67	8.13	695.26
175	550.0	2360.0	106.3	0.0	10.0	50.0	0.50	105.05	51.53	5.15	746.79
176	540.0	2275.0	108.2	0.0	10.0	85.0	0.85	107.24	69.42	8.94	836.21
177	526.0	2090.0	110.3	47.4	14.0	185.0	1.32	109.26	198.29	14.16	1034.51
178	520.0	2060.0	158.6	0.0	6.0	30.0	0.50	158.17	46.55	7.76	1081.06
179	512.0	2030.0	160.1	3.0	8.0	30.0	0.37	159.32	46.89	5.86	1127.95
180	500.0	1975.0	164.8	0.0	12.0	55.0	0.46	163.90	88.43	7.37	1216.38
181	487.0	1930.0	167.3	0.0	13.0	45.0	0.35	166.05	73.30	5.64	1289.68
182	480.0	1910.0	168.1	40.1	7.0	20.0	0.29	167.70	32.90	4.70	1322.58
183	470.0	1860.0	212.9	0.0	10.0	50.0	0.50	210.51	103.25	10.33	1425.84
184	462.0	1830.0	215.9	0.0	8.0	30.0	0.37	214.39	63.10	7.89	1488.93
185	452.0	1805.0	217.1	3.0	10.0	25.0	0.25	216.49	53.09	5.31	1542.03
186	437.0	1740.0	222.5	6.9	15.0	65.0	0.43	221.29	141.11	9.41	1683.13
187	430.0	1709.0	231.4	15.5	7.0	31.0	0.44	230.40	70.07	10.01	1753.20
188	400.0	1620.0	254.3	8.0	30.0	89.0	0.30	250.58	218.78	7.29	1971.97
189	380.0	1540.0	262.9	0.0	20.0	80.0	0.40	262.56	206.06	10.30	2178.03
190	370.0	1490.0	265.9	0.0	10.0	50.0	0.50	264.37	129.67	12.97	2307.71
191	360.0	1440.0	268.9	0.0	10.0	50.0	0.50	267.38	131.15	13.12	2438.86
192	350.0	1385.0	272.7	0.0	10.0	55.0	0.55	270.80	146.11	14.61	2584.97
193	340.0	1325.0	278.8	0.0	10.0	60.0	0.60	275.76	162.31	16.23	2747.28
194	332.0	1290.0	281.1	1.5	8.0	35.0	0.44	279.95	96.12	12.02	2843.40
195	325.0	1265.0	283.1	1.2	7.0	25.0	0.36	282.86	69.37	9.91	2912.77
196	320.0	1240.0	285.2	0.0	5.0	25.0	0.50	284.73	69.83	13.97	2982.61
197	310.0	1190.0	287.9	0.0	10.0	50.0	0.50	286.56	140.56	14.06	3123.17
198	298.0	1160.0	290.6	1.2	12.0	30.0	0.25	289.25	85.13	7.09	3208.29
199	285.0	1115.0	294.0	3.3	13.0	45.0	0.35	292.87	129.29	9.95	3337.58
200	270.0	1075.0	302.2	17.9	15.0	40.0	0.27	299.74	117.62	7.84	3455.20
201	255.0	1045.0	322.6	2.8	15.0	30.0	0.20	321.37	94.58	6.31	3549.78
202	250.0	1035.0	325.6	0.0	5.0	10.0	0.20	325.53	31.93	6.39	3581.71
203	237.0	1015.0	365.3	0.0	13.0	20.0	0.15	345.45	67.78	5.21	3649.49
204	227.0	992.0	366.3	4.8	10.0	23.0	0.23	365.76	82.53	8.25	3732.02
205	210.0	893.0	389.3	0.0	17.0	99.0	0.58	380.20	369.25	21.72	4101.26
206	160.0	759.0	404.5	10.6	50.0	134.0	0.27	396.93	521.78	10.44	4623.04
207	100.0	595.0	482.5	0.0	60.0	164.0	0.27	448.82	722.09	12.03	5345.13
208	65.0	495.0	496.6	0.0	35.0	100.0	0.29	489.55	480.25	13.72	5825.37
SUBTOTAL					650.0	3350.0			5825.37	8.96	
AFLUENTE A MARANON I											
208	65.0	495.0	496.6	0.0							0.00
209	40.0	425.0	615.5	0.0	25.0	70.0	0.28	556.05	381.84	15.27	381.84
210	0.0	359.0	743.1	0.0	40.0	66.0	0.17	679.30	439.82	11.00	821.66
SUBTOTAL					65.0	136.0			821.66	12.64	



\*\*\*\*\*  
 \* EL POTENCIAL TEORICO TOTAL DEL RIO CRISNEJAS ES DE 605.6 MW \*  
 \* Y TIENE UNA LONGITUD ACUMULADA DE 699.9 KM \*  
 \* Y UN POTENCIAL ESPECIFICO DE 0.87 MW/KM \*  
 \*\*\*\*\*

POTENCIAL TEORICO DEL RIO CRISNEJAS 2/ 9/79

I	L	H	Q	AFQ	DL	DH	PE	QC	POT	ESP	CUM
=====											
AFLUENTE TRES CRUCES											
1	6.0	3750.0	0.0	0.0	6.0	343.0	5.72	0.06	0.19	0.03	0.00
2	0.0	3407.0	0.1	0.0							0.19
SUBTOTAL					6.0	343.0			0.19	0.03	
=====											
AFLUENTE CONACHUGO											
3	11.0	3950.0	0.0	0.0	10.7	523.0	4.89	0.19	0.95	0.09	0.00
4	0.3	3407.0	0.4	0.1	0.3	7.0	2.33	0.45	0.03	0.10	0.95
5	0.0	3400.0	0.5	0.0							0.98
SUBTOTAL					11.0	530.0			0.98	0.09	
=====											
AFLUENTE CHICHIRCUCHO											
6	13.0	3450.0	0.0	0.0	13.0	750.0	5.77	0.33	2.42	0.19	0.00
7	0.0	2700.0	0.7	0.0							2.42
SUBTOTAL					13.0	750.0			2.42	0.19	
=====											
AFLUENTE HUAYRO											
8	32.0	4085.0	0.0	0.0	10.0	705.0	7.05	0.27	1.86	0.19	0.00
9	22.0	3380.0	0.5	0.0	10.0	400.0	4.00	0.82	3.24	0.32	1.86
10	12.0	2980.0	1.1	0.0	10.0	280.0	2.80	1.42	3.90	0.39	5.10
11	2.0	2700.0	1.7	0.7	2.0	35.0	1.75	2.38	0.82	0.41	9.00
12	0.0	2665.0	2.4	0.0							9.82
SUBTOTAL					32.0	1420.0			9.82	0.31	
=====											
AFLUENTE QUAONDA											
13	9.0	3500.0	0.0	0.0	9.0	475.0	5.28	0.17	0.77	0.09	0.00
14	0.0	3025.0	0.3	0.0							0.77
SUBTOTAL					9.0	475.0			0.77	0.09	
=====											
AFLUENTE CUEVAS											
15	18.0	3900.0	0.0	0.0	11.0	875.0	7.95	0.11	0.97	0.09	0.00
16	7.0	3025.0	0.2	0.3	7.0	525.0	7.50	0.75	3.89	0.56	0.97
17	0.0	2500.0	1.0	0.0							4.86
SUBTOTAL					18.0	1400.0			4.86	0.27	
=====											
AFLUENTE HUAMACHUCO											
18	22.0	4070.0	0.0	0.0	19.0	1570.0	8.26	0.28	4.27	0.22	0.00
19	3.0	2500.0	0.5	1.0	3.0	125.0	4.17	1.55	1.90	0.63	4.27
20	0.0	2375.0	1.6	0.0							6.17
SUBTOTAL					22.0	1695.0			6.17	0.28	
=====											
AFLUENTE LANLA											
21	25.0	3455.0	0.0	0.0	15.0	905.0	6.03	0.48	4.28	0.00	0.00
22	10.0	2550.0	0.9	0.0	10.0	420.0	4.20	1.15	4.74	0.00	4.28
23	0.0	2130.0	1.4	0.0							9.02
SUBTOTAL					25.0	1325.0			9.02	0.36	
=====											

POTENCIAL TEORICO DEL RIO CRISNEJAS 2/ 9/79

I	L	H	Q	AFO	DL	DM	PE	QC	POT	ESP	CUM
=====											
AFLUENTE HUACADAY											
24	13.0	4050.0	0.0	0.0	13.0	1270.0	9.77	0.39	4.81	0.37	0.00
25	0.0	2780.0	0.7	0.0							4.81
					SUBTOTAL	13.0	1270.0		4.81	0.37	
=====											
AFLUENTE CULLHUAN											
26	21.0	4000.0	0.0	0.0	11.0	950.0	8.64	0.17	1.59	0.14	0.00
27	10.0	3050.0	0.3	0.0	10.0	800.0	8.00	0.58	4.59	0.46	1.59
28	0.0	2250.0	0.8	0.0							6.18
					SUBTOTAL	21.0	1750.0		6.18	0.29	
=====											
AFLUENTE MARABAMBA											
29	21.0	4200.0	0.0	0.0	11.0	1250.0	11.36	0.17	2.06	0.19	0.00
30	10.0	2950.0	0.3	0.0	10.0	770.0	7.70	0.54	4.06	0.41	2.06
31	0.0	2180.0	0.7	0.0							6.12
					SUBTOTAL	21.0	2020.0		6.12	0.29	
=====											
AFLUENTE CHIMIN											
32	42.0	3640.0	0.0	0.0	13.0	470.0	3.62	0.47	2.16	0.17	0.00
33	29.0	3170.0	0.9	0.0	10.0	390.0	3.90	1.23	4.69	0.47	2.16
34	19.0	2780.0	1.5	0.7	6.0	550.0	8.83	2.41	12.52	2.09	6.65
35	13.0	2250.0	2.6	0.8	3.0	70.0	2.33	3.42	2.55	0.78	19.37
36	10.0	2180.0	3.4	0.7	10.0	155.0	1.55	4.32	6.57	0.66	21.72
37	0.0	2025.0	4.5	0.0							28.29
					SUBTOTAL	42.0	1615.0		28.29	0.67	
=====											
AFLUENTE MALCA											
38	13.0	3000.0	0.0	0.0	13.0	980.0	7.54	0.21	1.97	0.15	0.00
39	0.0	2020.0	0.4	0.0							1.97
					SUBTOTAL	13.0	980.0		1.97	0.15	
=====											
AFLUENTE AZUFRE											
40	16.0	4050.0	0.0	0.0	6.0	400.0	6.67	0.09	0.35	0.06	0.00
41	10.0	3650.0	0.2	0.0	10.0	760.0	7.60	0.33	2.44	0.24	0.35
42	0.0	2890.0	0.5	0.0							2.79
					SUBTOTAL	16.0	1160.0		2.79	0.17	
=====											
AFLUENTE PACCHA											
43	13.0	4050.0	0.0	0.0	13.0	1163.0	8.95	0.20	2.33	0.18	0.00
44	0.0	2887.0	0.4	0.0							2.33
					SUBTOTAL	13.0	1163.0		2.33	0.18	
=====											
AFLUENTE CALLEJON											
45	17.0	3900.0	0.0	0.0	7.0	600.0	8.57	0.09	0.52	0.07	0.00
46	10.0	3300.0	0.2	0.0	10.0	520.0	5.20	0.32	1.61	0.16	0.52
47	0.0	2780.0	0.5	0.0							2.13
					SUBTOTAL	17.0	1120.0		2.13	0.13	
=====											
AFLUENTE PORCON											
48	23.0	3700.0	0.0	0.0	10.0	920.0	9.20	0.25	2.30	0.23	0.00
49	13.0	2780.0	0.5	0.5	13.0	140.0	1.08	1.50	2.06	0.16	2.30
50	0.0	2640.0	2.0	0.0							4.35
					SUBTOTAL	23.0	1060.0		4.35	0.19	
=====											

TEORICO DEL RIO CRISNEJAS 2/ 9/79

	H	AFQ	DL	DH	PE	GC	POT	ESP	CUM		
=====											
AFLUENTE LAS QUINUAS											
	9.0	3800.0	0.1	0.0	9.0	820.0	9.11	0.29	2.32	0.26	0.00
52	0.0	2980.0	0.5	0.0							2.32
=====											
SUBTOTAL											
				9.0	820.0		2.32	0.26			
=====											
AFLUENTE TAMBOMAYO											
53	12.5	3650.0	0.1	0.0	11.0	670.0	6.09	0.46	5.04	0.28	0.00
54	1.5	2980.0	0.8	0.5	1.5	35.0	2.33	1.32	0.45	0.30	3.04
55	0.0	2945.0	1.3	0.0							3.49
=====											
SUBTOTAL											
				12.5	705.0		5.49	0.28			
=====											
AFLUENTE MATARA SUP											
56	8.0	2840.0	0.1	0.0	6.0	160.0	2.67	0.76	1.19	0.20	0.00
57	2.0	2680.0	1.4	0.0							1.19
=====											
SUBTOTAL											
				6.0	160.0		1.19	0.20			
=====											
AFLUENTE MATARA INF											
57	2.0	2680.0	1.4	0.0	2.0	25.0	1.25	1.47	0.36	0.18	0.00
58	0.0	2655.0	1.5	0.0							0.36
=====											
SUBTOTAL											
				2.0	25.0		0.36	0.18			
=====											
AFLUENTE SECO											
59	16.0	3875.0	0.1	0.0	14.0	1220.0	8.71	0.24	2.82	0.20	0.00
60	2.0	2655.0	0.4	1.5	2.0	50.0	2.50	1.97	0.97	0.48	2.82
61	0.0	2605.0	2.0	0.0							5.79
=====											
SUBTOTAL											
				16.0	1270.0		5.79	0.24			
=====											
AFLUENTE NAMORA 'A'											
62	34.0	3780.0	0.0	0.0	5.0	500.0	10.00	0.10	0.50	0.10	0.00
63	29.0	3280.0	0.2	0.0							0.50
=====											
SUBTOTAL											
				5.0	500.0		0.50	0.10			
=====											
AFLUENTE NAMORA 'B'											
63	29.0	3280.0	0.2	0.0	9.0	335.0	3.72	0.34	1.12	0.12	0.00
64	20.0	2945.0	0.5	1.3	7.0	145.0	2.07	2.21	3.14	0.45	1.12
65	13.0	2800.0	2.6	0.0							4.26
=====											
SUBTOTAL											
				16.0	480.0		4.26	0.27			
=====											
AFLUENTE NAMORA 'C'											
65	13.0	2800.0	2.6	0.0	7.0	195.0	2.79	2.25	4.30	0.61	0.00
66	6.0	2605.0	1.9	2.0	4.0	155.0	3.87	3.95	6.00	1.50	4.30
67	2.0	2450.0	4.0	0.0							10.50
=====											
SUBTOTAL											
				11.0	350.0		10.50	0.94			
=====											
AFLUENTE NAMORA 'D'											
67	2.0	2450.0	4.0	0.0	2.0	103.0	5.15	4.01	4.05	2.03	0.00
68	0.0	2347.0	4.0	0.0							4.05
=====											
SUBTOTAL											
				2.0	103.0		4.05	2.03			
=====											
AFLUENTE SHILAMALCA											
69	17.0	3820.0	0.0	0.0	7.0	995.0	14.21	0.07	0.70	0.10	0.00
70	10.0	2825.0	0.1	0.0	10.0	660.0	6.60	0.53	3.40	0.34	0.70
71	0.0	2165.0	0.9	0.0							4.10
=====											
SUBTOTAL											
				17.0	1655.0		4.10	0.24			
=====											
AFLUENTE MAYOC											
72	29.0	3825.0	0.1	0.0	7.0	355.0	5.07	0.33	1.15	0.16	0.00
73	22.0	3470.0	0.6	0.0	10.0	910.0	9.10	0.99	8.86	0.89	1.15
74	12.0	2560.0	1.4	0.0	10.0	395.0	3.95	1.62	6.27	0.63	10.01
75	2.0	2165.0	1.8	0.9	2.0	5.0	0.25	2.78	0.14	0.07	16.28
76	0.0	2160.0	2.8	0.0							16.41
=====											
SUBTOTAL											
				29.0	1665.0		16.41	0.57			

I	L	H	Q	AFQ	DL	DH	PE	QC	PQT	ESP	CUM
=====											
AFLUENTE CHILCA											
77	19.0	4050.0	0.0	0.0							0.00
78	10.0	2950.0	0.4	0.0	9.0	1120.0	12.44	0.20	2.21	0.25	2.21
79	0.0	2150.0	0.8	0.0	10.0	780.0	7.80	0.59	4.49	0.45	6.70
SUBTOTAL					19.0	1900.0			6.70	0.35	
=====											
AFLUENTE CAJAMARCA SU											
80	100.1	3950.0	0.0	0.0							0.00
81	90.1	3355.0	0.4	0.0	10.0	595.0	5.95	0.19	1.13	0.11	1.13
82	80.1	2890.0	0.7	0.5	0.1	3.0	6.00	1.18	0.03	0.70	3.60
83	80.0	2887.0	1.2	0.4	6.0	137.0	2.28	1.70	2.29	0.38	3.64
84	74.0	2750.0	1.8	0.0	10.0	110.0	1.10	1.97	2.12	0.21	5.93
85	64.0	2640.0	2.1	2.0	14.0	150.0	1.07	4.51	6.64	0.47	8.05
86	50.0	2490.0	4.9	0.0							14.69
SUBTOTAL					50.1	1460.0			14.69	0.29	
=====											
AFLUENTE CAJAMARCA IN											
87	50.0	2490.0	4.9	0.0							0.00
88	40.0	2347.0	5.6	4.0	10.0	143.0	1.43	5.25	7.36	0.74	7.36
89	24.0	2160.0	10.3	2.8	4.0	10.0	0.25	13.08	1.28	0.32	25.60
90	20.0	2150.0	13.1	0.8	10.0	90.0	0.90	14.30	12.62	1.26	26.88
91	10.0	2060.0	14.7	0.0	10.0	64.0	0.64	15.16	9.52	0.95	39.51
92	0.0	1996.0	15.6	0.0							49.03
SUBTOTAL					50.0	494.0			49.03	0.98	
=====											
AFLUENTE SHIRAE											
93	17.0	3200.0	0.0	0.0							0.00
94	0.0	1580.0	0.6	0.0	17.0	1820.0	10.71	0.32	5.79	0.34	5.79
SUBTOTAL					17.0	1820.0			5.79	0.34	
=====											
AFLUENTE CRISNEJAS SU											
95	123.5	4030.0	0.0	0.0							0.00
96	110.3	3400.0	0.5	0.5	13.0	630.0	4.85	0.28	1.74	0.13	1.74
97	105.3	3275.0	1.4	0.0	5.0	125.0	2.50	1.20	1.47	0.29	3.21
98	95.3	3000.0	2.1	0.0	10.0	275.0	2.75	1.76	4.75	0.47	7.96
99	85.3	2665.0	2.5	2.4	10.0	335.0	3.35	2.32	7.64	0.76	15.59
100	76.3	2375.0	5.4	1.6	9.0	290.0	3.22	5.17	14.70	1.63	30.50
101	61.3	2130.0	8.5	1.4	15.0	245.0	1.63	7.75	18.64	1.24	48.94
102	48.3	2025.0	10.7	4.5	13.0	105.0	0.81	10.28	10.59	0.81	59.53
103	48.0	2020.0	15.1	0.4	0.3	5.0	1.67	15.14	0.74	2.47	60.27
104	43.0	1996.0	15.6	15.6	5.0	24.0	0.48	15.58	5.67	0.73	63.94
105	41.0	1980.0	31.5	0.0	2.0	16.0	0.80	31.37	4.92	2.46	68.86
SUBTOTAL					82.3	2050.0			68.86	0.84	
=====											
AFLUENTE CRISNEJAS IN											
106	41.0	1980.0	31.5	0.0							0.00
107	34.0	1750.0	32.2	0.0	7.0	230.0	3.29	31.86	71.89	10.27	71.89
108	29.0	1455.0	52.5	0.0	5.0	295.0	5.90	32.35	93.62	18.72	165.51
109	24.0	1380.0	33.3	0.6	5.0	75.0	1.50	32.90	24.20	4.84	189.71
110	10.0	1220.0	36.1	0.0	14.0	160.0	1.14	35.00	54.94	3.92	244.65
111	0.0	1020.0	37.2	0.0	10.0	200.0	2.00	36.64	71.89	7.19	316.54
SUBTOTAL					41.0	960.0			316.54	7.72	

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*****
* EL POTENCIAL TEORICO TOTAL DEL RIO LLAUCANO ES DE 856.5 MW *
* Y TIENE UNA LONGITUD ACUMULADA DE 303.0 KM *
* Y UN POTENCIAL ESPECIFICO DE 2.83 MW/KM *
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POTENCIAL TEORICO DEL RIO LLAUCANO 2/12/79

I	L	H	Q	AFO	DL	DH	PE	QC	POT	ESP	CUM
AFLUENTE PINGUYO											
1	12.0	4000.0	0.0	0.0							0.00
2	0.0	2910.0	1.2	0.0	12.0	1190.0	9.92	0.59	6.88	0.57	6.88
SUBTOTAL					12.0	1190.0			6.88	0.57	
AFLUENTE TAMBILLO											
3	18.0	3975.0	0.0	0.0							0.00
4	0.0	2700.0	1.5	0.0	18.0	1275.0	7.08	0.79	9.83	0.55	9.83
SUBTOTAL					18.0	1275.0			9.83	0.55	
AFLUENTE NUNNUN SUP											
5	26.0	3925.0	0.0	0.0							0.00
6	18.0	3525.0	0.5	0.0	8.0	400.0	5.00	0.28	1.09	0.14	1.09
7	8.0	2850.0	1.6	0.0	10.0	675.0	6.75	1.06	7.04	0.70	8.13
SUBTOTAL					18.0	1075.0			8.13	0.45	
AFLUENTE NUNNUN INF											
7	8.0	2850.0	1.6	0.0							0.00
8	0.0	2544.0	2.1	0.0	8.0	306.0	3.82	1.85	5.56	0.70	5.56
SUBTOTAL					8.0	306.0			5.56	0.70	
AFLUENTE ARASCORGUE A											
9	13.0	3675.0	0.1	0.0							0.00
10	3.0	2680.0	0.8	0.0	10.0	995.0	9.95	0.43	4.18	0.42	4.18
SUBTOTAL					10.0	995.0			4.18	0.42	
AFLUENTE ARASCORGUE B											
10	3.0	2680.0	0.8	0.0							0.00
11	0.0	2540.0	0.9	0.0	3.0	140.0	4.67	0.87	1.20	0.40	1.20
SUBTOTAL					3.0	140.0			1.20	0.40	
AFLUENTE QDA PANTEON											
12	7.0	3200.0	0.0	0.0							0.00
13	0.0	2535.0	0.2	0.0	7.0	665.0	9.50	-0.09	0.60	0.09	0.60
SUBTOTAL					7.0	665.0			0.60	0.09	
AFLUENTE TINGO SUP											
14	23.0	3850.0	0.0	0.0							0.00
15	16.0	3425.0	0.4	0.0	7.0	425.0	6.07	0.21	0.86	0.12	0.86
16	6.0	2850.0	1.3	0.0	10.0	575.0	5.75	0.85	4.79	0.48	5.64
SUBTOTAL					17.0	1000.0			5.64	0.33	