

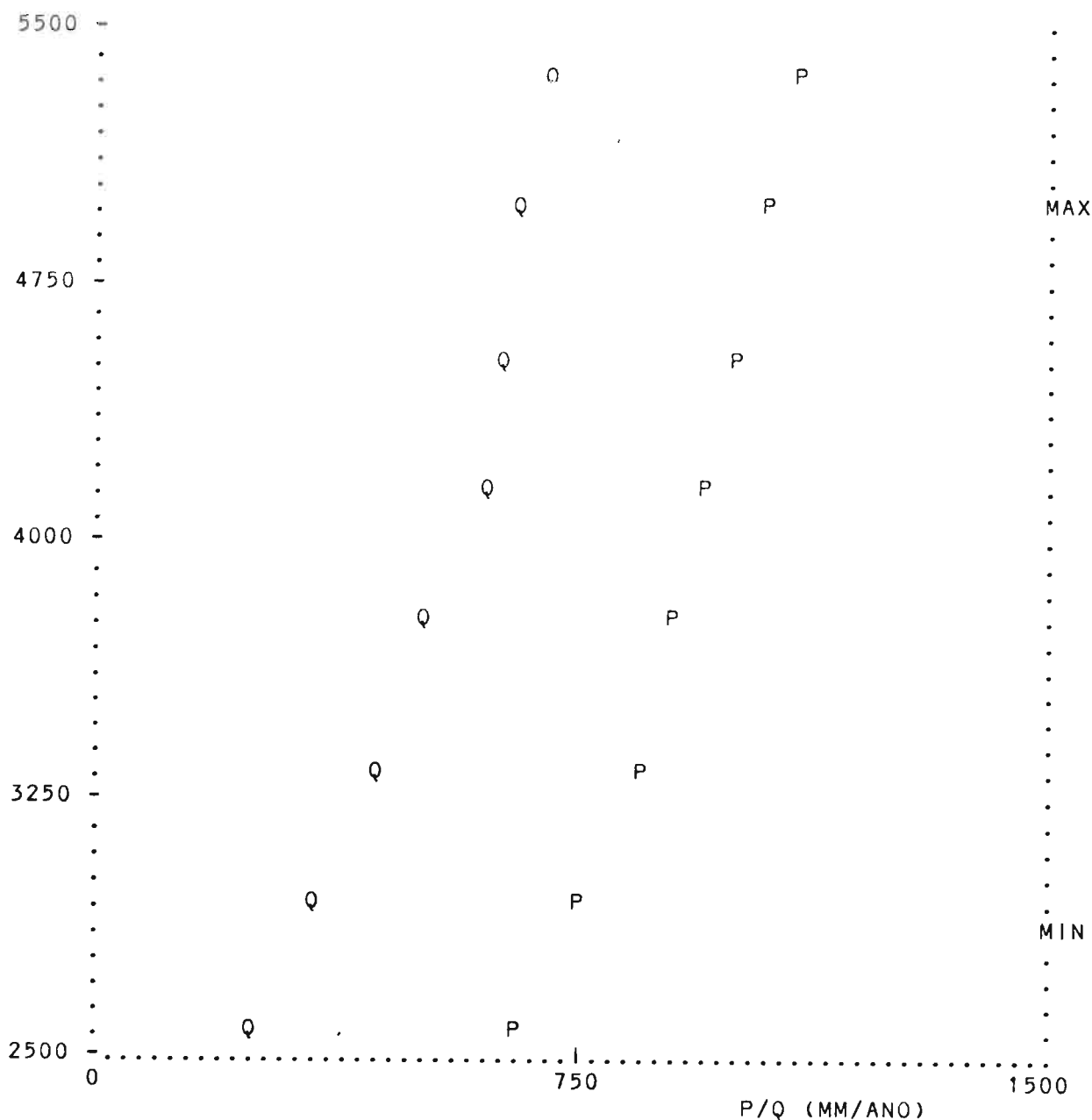
CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO VILCABAMBA

2/14/79

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM
AFLUENTE ANCAHUAYO										
1	1 1	39.0	4900.0	0.3	4980.0	1017.	0.01	0.01	0.69	22.1
2	1 1	20.0	4153.0	292.8	4591.4	959.	6.12	6.12	0.69	20.9
3	1 1	10.0	3759.0	554.8	4539.3	954.	11.53	11.53	0.69	20.8
4	1 1	0.0	3330.0	659.8	4520.3	952.	13.68	13.68	0.69	20.7
AFLUENTE PARAJAY										
5	1 1	25.0	4720.0	0.2	4752.0	983.	0.00	0.00	0.69	21.4
6	1 1	0.0	2990.0	160.8	4565.2	957.	3.35	3.35	0.69	20.8
AFLUENTE CHUQUIBAMBIL										
7	1 1	39.0	4610.0	0.1	4650.0	967.	0.00	0.00	0.69	21.1
8	1 1	30.0	3896.0	75.2	4465.2	947.	1.55	1.55	0.69	20.6
9	1 1	20.0	3290.0	197.1	4316.7	932.	3.99	3.99	0.69	20.3
10	1 1	10.0	3003.0	454.9	4176.9	914.	8.90	8.90	0.68	19.6
11	1 1	0.0	2730.0	536.2	4121.9	906.	10.30	10.30	0.67	19.2
AFLUENTE YAURIQUILLA										
12	1 1	25.0	4450.0	3.2	4730.0	979.	0.07	0.07	0.69	21.3
13	1 1	10.0	3305.0	113.1	4307.3	931.	2.29	2.29	0.69	20.2
14	1 1	0.0	2630.0	250.3	4095.0	902.	4.76	4.76	0.66	19.0
AFLUENTE VILCABAMBA										
15	1 1	99.0	4760.0	9.5	5125.0	1029.	0.21	0.21	0.69	22.6
16	1 1	81.0	4300.0	217.2	4828.6	994.	4.70	4.70	0.69	21.7
17	1 1	71.0	4095.0	312.0	4785.5	988.	6.71	6.71	0.69	21.5
18	1 1	61.0	3815.0	458.4	4725.0	979.	9.78	9.78	0.69	21.3
19	1 1	41.0	3330.0	602.9	4659.3	971.	12.75	12.75	0.69	21.1
4+ 19		41.0	3330.0	1262.7	4586.7	961.	26.43	26.43	0.69	20.9
20	1 1	31.0	3148.0	1394.1	4564.4	958.	29.10	29.10	0.69	20.9
21	1 1	21.0	2990.0	1463.9	4531.5	954.	30.34	30.34	0.68	20.7
6+ 21		21.0	2990.0	1624.7	4534.8	955.	33.69	33.69	0.69	20.7
22	1 1	10.0	2730.0	1747.7	4484.2	948.	35.81	35.81	0.68	20.5
11+ 22		10.0	2730.0	2283.9	4399.1	938.	46.11	46.11	0.68	20.2
23	1 1	0.0	2630.0	2324.6	4383.7	936.	46.75	46.75	0.68	20.1
14+ 23		0.0	2630.0	2574.9	4355.7	932.	51.50	51.50	0.68	20.0

 * CUENCA DEL RIO PACHACHACA : REGIMEN # 1 *
 * CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
 * AMAX = 5050. : AMIN = 2900. *

ALTURA (M.S.N.M.)



A :	2600	3000	3400	3800	4200	4600	5000	5400	5800
Q :	260	360	470	540	630	660	700	740	750
P :	680	800	890	950	1000	1050	1100	1140	1200
K :	.382	.450	.528	.568	.630	.629	.636	.649	.625

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	² KM	M	MM	³ M /S	³ M /S	(-)	² L/S/KM
AFLUENTE CONDORCARCA										
1	1 1	35.0	4455.0	0.2	4510.0	1039.	0.00	0.00	0.63	20.7
2	1 1	10.0	3846.0	263.6	4383.1	1023.	5.38	5.38	0.63	20.4
3	1 1	0.0	3530.0	396.3	4338.5	1017.	8.05	8.05	0.63	20.3
AFLUENTE CARAYBAMBA										
4	1 1	34.0	4650.0	0.4	4780.0	1072.	0.01	0.01	0.63	21.5
5	1 1	20.0	4196.0	137.1	4603.5	1050.	2.87	2.87	0.63	20.9
6	1 1	10.0	3540.0	268.9	4532.7	1042.	5.58	5.58	0.63	20.8
7	1 1	0.0	3100.0	362.1	4448.9	1031.	7.45	7.45	0.63	20.6
AFLUENTE HUACASA										
8	1 1	14.0	4325.0	0.3	4420.0	1027.	0.01	0.01	0.63	20.5
9	1 1	0.0	2553.0	48.7	3803.8	950.	0.83	0.83	0.57	17.1
AFLUENTE CAPAYA										
10	1 1	10.0	4325.0	0.4	4450.0	1031.	0.01	0.01	0.63	20.6
11	1 1	0.0	2551.0	34.4	3822.4	953.	0.59	0.59	0.57	17.3
AFLUENTE SEGUINA										
12	1 1	28.0	4890.0	0.5	4930.0	1097.	0.01	0.01	0.64	22.1
13	1 1	10.0	4030.0	140.5	4671.1	1059.	2.97	2.97	0.63	21.2
14	1 1	0.0	3475.0	193.3	4594.3	1049.	4.05	4.05	0.63	21.0
AFLUENTE JAJANTIA										
15	1 1	54.0	4800.0	2.0	4910.0	1089.	0.04	0.04	0.63	21.9
16	1 1	40.0	4203.0	125.6	4803.7	1075.	2.71	2.71	0.63	21.6
17	1 1	30.0	3795.0	248.4	4727.7	1066.	5.30	5.30	0.63	21.3
18	1 1	20.0	3494.0	368.0	4625.8	1053.	7.75	7.75	0.63	21.1
19	1 1	10.0	3115.0	910.5	4522.8	1040.	18.91	18.91	0.63	20.8
20	1 1	0.0	2960.0	983.1	4474.2	1034.	20.19	20.19	0.63	20.5

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	KM	M	MM	M /S	M /S	(-)	L/S/KM

AFLUENTE ANTABAMBA

21	1 1	113.0	4980.0	0.4	5050.0	1105.	0.01	0.01	0.64	22.4
22	1 1	102.0	4589.0	34.3	4852.3	1082.	0.75	0.75	0.63	21.7
23	1 1	92.0	4349.0	104.6	4710.3	1064.	2.23	2.23	0.63	21.3
24	1 1	82.0	4040.0	217.0	4681.7	1060.	4.60	4.60	0.63	21.2
25	1 1	71.0	3475.0	271.2	4609.4	1051.	5.70	5.70	0.63	21.0
14+ 25		71.0	3475.0	464.5	4603.1	1050.	9.75	9.75	0.63	21.0
26	1 1	62.0	3148.0	558.7	4536.8	1042.	11.63	11.63	0.63	20.8
27	1 1	52.0	2960.0	671.0	4448.8	1031.	13.72	13.72	0.63	20.5
20+ 27		52.0	2960.0	1654.1	4463.9	1033.	33.91	33.91	0.63	20.5
28	1 1	40.0	2743.0	1916.2	4403.9	1025.	38.82	38.82	0.62	20.3
29	1 1	30.0	2618.0	2109.2	4363.5	1020.	42.35	42.35	0.62	20.1
30	1 1	20.0	2491.0	2260.2	4320.3	1015.	44.87	44.87	0.62	19.9
31	1 1	10.0	2373.0	2461.6	4264.7	1008.	48.14	48.14	0.61	19.6
32	1 1	0.0	2275.0	2517.8	4236.7	1003.	48.78	48.78	0.61	19.4

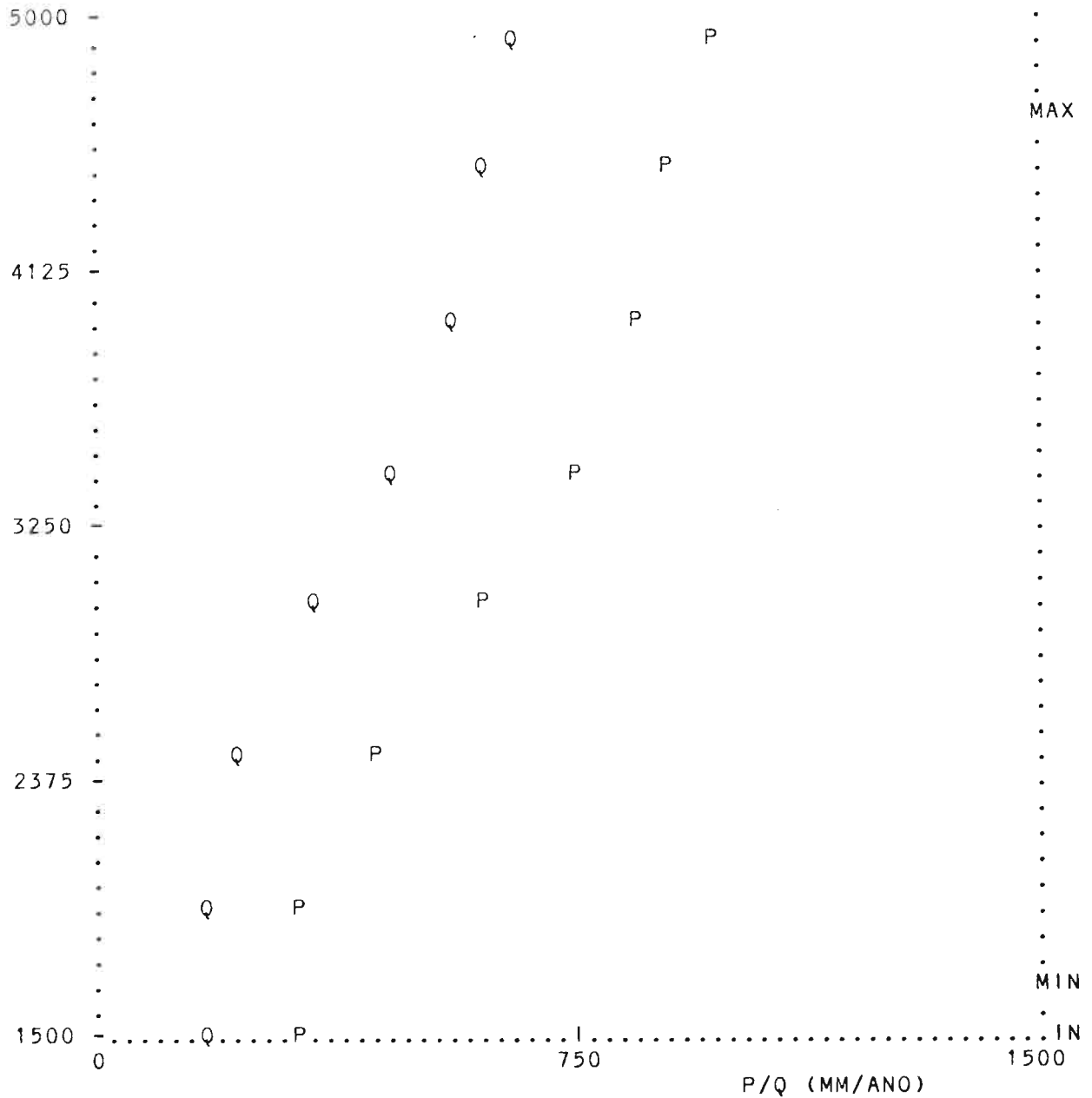
AFLUENTE PACHACHACA

33	1 1	139.0	4740.0	0.1	4760.0	1070.	0.00	0.00	0.63	21.4
34	1 1	121.0	4160.0	114.9	4645.1	1056.	2.42	2.42	0.63	21.1
35	1 1	111.0	3782.0	501.4	4494.7	1037.	10.37	10.37	0.63	20.7
36	1 1	101.0	3530.0	592.8	4449.0	1031.	12.20	12.20	0.63	20.6
3+ 36		101.0	3530.0	989.1	4404.7	1026.	20.24	20.24	0.63	20.5
37	1 1	84.0	3100.0	1273.6	4365.7	1021.	25.95	25.95	0.63	20.4
7+ 37		84.0	3100.0	1635.7	4384.1	1023.	33.40	33.40	0.63	20.4
38	1 1	75.0	2915.0	1734.5	4381.3	1023.	35.40	35.40	0.63	20.4
39	1 1	65.0	2805.0	1892.5	4332.8	1017.	38.11	38.11	0.62	20.1
40	1 1	55.0	2710.0	2021.5	4297.5	1012.	40.30	40.30	0.62	19.9
41	1 1	46.0	2553.0	2142.8	4264.8	1008.	42.33	42.33	0.62	19.8
9+ 41		46.0	2553.0	2191.5	4254.6	1007.	43.16	43.16	0.62	19.7
42	1 1	44.0	2551.0	2192.4	4254.0	1007.	43.17	43.17	0.62	19.7
11+ 42		44.0	2551.0	2226.8	4247.3	1006.	43.76	43.76	0.62	19.7
43	1 1	35.0	2400.0	2297.3	4225.3	1003.	44.87	44.87	0.61	19.5
44	1 1	25.0	2275.0	2521.2	4180.4	997.	48.60	48.60	0.61	19.3
32+ 44		25.0	2275.0	5039.0	4208.5	1000.	97.38	97.38	0.61	19.3
45	1 1	10.0	2155.0	5488.5	4170.2	995.	104.93	104.93	0.61	19.1
46	1 1	0.0	2062.0	5607.9	4157.0	993.	106.81	106.81	0.60	19.0

- I = NUMERO DEL PUNTO
- L = KILOMETRAJE
- H = ELEVACION DEL PUNTO
- AA = AREA TOTAL DE LA CUENCA HASTA EL PUNTO
- HM = ALTURA MEDIA DE TODA LA CUENCA HASTA EL PUNTO
- PREC = PRECIPITACION MEDIA SOBRE TODA LA CUENCA HASTA EL PUNTO
- QM = CAUDAL MEDIO EN EL PUNTO
- QN = CAUDAL NATURAL EN EL PUNTO
- CEAT = COEFICIENTE DE ESCURRIMIENTO DE TODA LA CUENCA HASTA EL PUNTO
- RQT = RENDIMIENTO DE TODA LA CUENCA HASTA EL PUNTO
- RP = REGIMEN DE PRECIPITACION
- RE = REGIMEN DE ESCURRIMIENTO

 * CUENCA DEL RIO APURIMAC INF : REGIMEN # 1 *
 * CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
 * AMAX = 4672. : AMIN = 1680. *

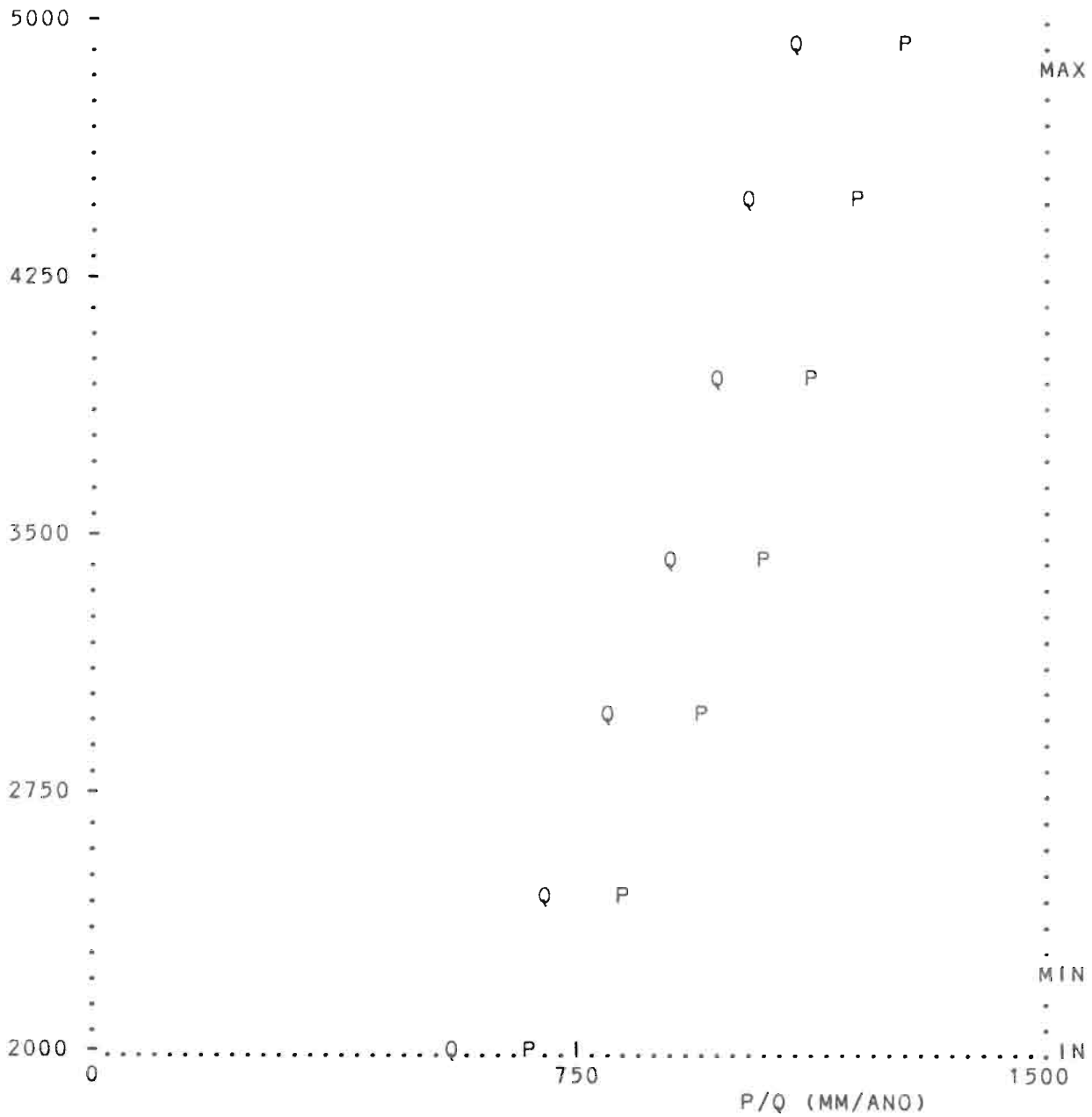
ALTURA (M.S.N.M.)



A :	500	800	1200	1500	2000	2500	3000	3500	4000	4500	5000
Q :	200	200	200	200	200	250	360	500	600	650	700
P :	350	350	350	350	350	470	640	800	900	950	1020
K :	.571	.571	.571	.571	.571	.532	.562	.625	.667	.684	.686

 * CUENCA DEL RIO APURIMAC INF : REGIMEN # 2 *
 * CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
 * AMAX = 4920. : AMIN = 2300. *

ALTURA (M.S.N.M.)



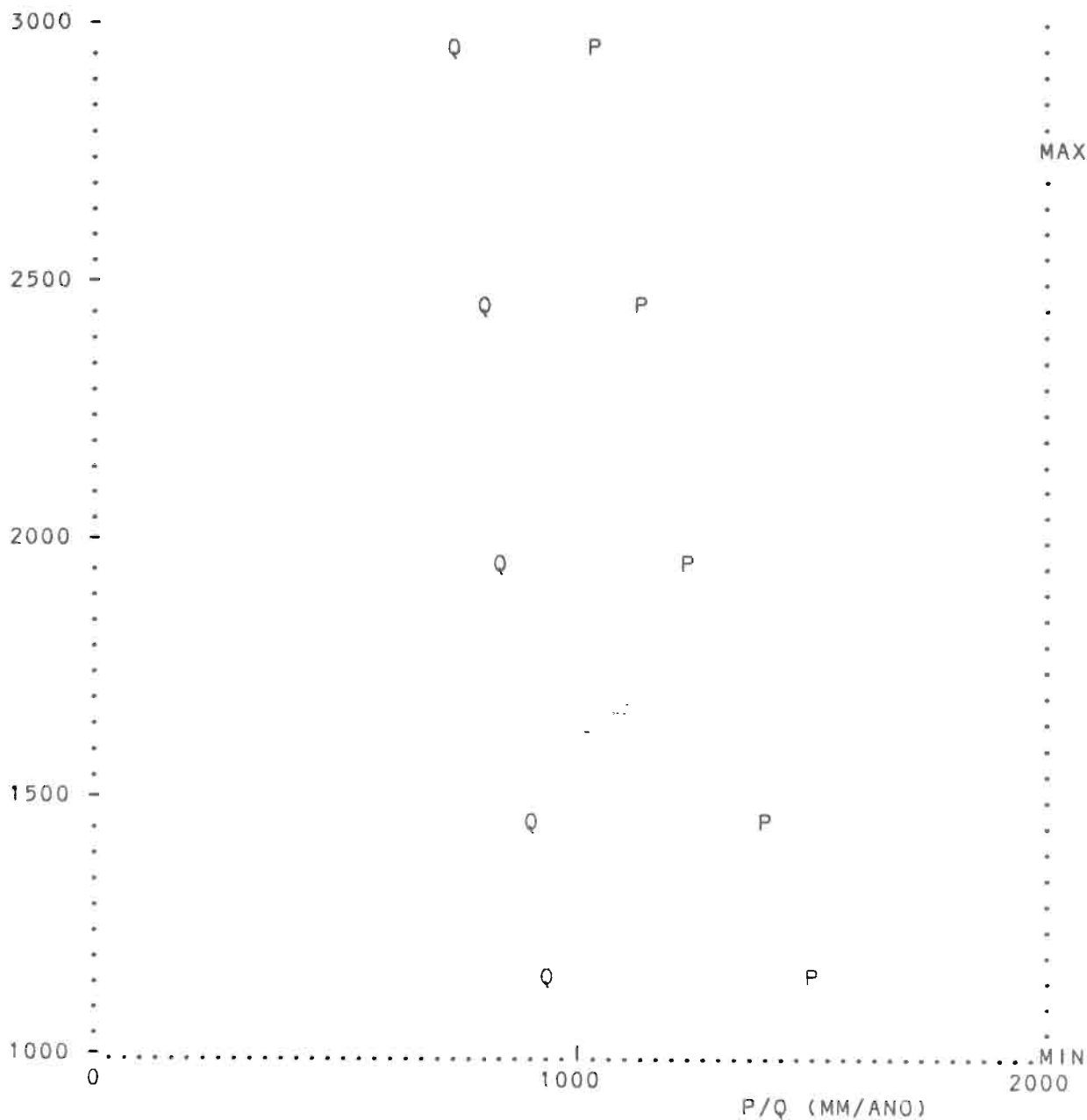
A :	500	800	1200	1500	2000	2500	3000	3500	4000	4500	5000
Q :	350	350	350	450	600	740	850	930	1020	1070	1140
P :	400	400	450	550	710	870	1000	1100	1170	1250	1320
K :	.875	.875	.778	.818	.845	.851	.850	.845	.872	.856	.864

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* CUENCA DEL RIO APURIMAC INF : REGIMEN # 3 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 2800. ; AMIN = 1040. *
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ALTURA (M.S.N.M.)



A :	500	800	1200	1500	2000	2500	3000	3500	4000	4500	5000
Q :	1100	1080	1000	960	900	850	790	750	700	730	680
P :	1870	1700	1550	1460	1300	1200	1090	970	860	877	670
K :	.588	.635	.645	.658	.692	.708	.725	.773	.814	.832	.101

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO APURIMAC INF 2/14/79

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM
AFLUENTE PUNANQUI										
1	1 1	14.0	3175.0	0.1	4103.0	910.	15.10	0.00	0.67	19.4
2	1 1	0.0	2388.0	346.7	3270.2	726.	19.89	4.79	0.60	13.8
AFLUENTE STO TOMAS										
3	1 1	27.0	2645.0	0.1	4144.0	914.	52.20	0.00	0.67	19.5
4	1 1	11.0	2388.0	190.9	3435.4	779.	55.12	2.92	0.62	15.3
2+	4	11.0	2388.0	537.6	3328.9	745.	75.01	7.71	0.61	14.3
5	1 1	0.0	2211.0	679.9	3268.0	726.	76.68	9.38	0.60	13.8
AFLUENTE TRAPICHE										
6	1 1	25.0	4274.0	0.1	4280.0	928.	0.00	0.00	0.68	19.9
7	1 1	0.0	2100.0	143.6	3150.8	688.	1.83	1.83	0.58	12.8
AFLUENTE PAMPUTA										
8	1 1	31.0	4480.0	0.4	4672.0	974.	0.01	0.01	0.68	21.2
9	1 1	0.0	2379.0	244.4	3844.4	869.	4.41	4.41	0.65	18.0
AFLUENTE VILCABAMBA										
10	1 1	47.0	2630.0	0.1	4356.0	936.	51.50	0.00	0.68	20.2
11	1 1	26.0	2379.0	453.1	3511.2	802.	58.72	7.22	0.63	15.9
9+	11	26.0	2379.0	697.5	3627.9	826.	63.12	11.62	0.64	16.7
12	1 1	20.0	2307.0	1125.5	3532.1	801.	69.44	17.94	0.63	15.9
13	1 1	0.0	1888.0	1351.6	3483.6	787.	72.51	21.01	0.62	15.5
AFLUENTE PACHACHACA										
14	1 1	77.0	2062.0	0.1	4157.0	916.	106.80	0.00	0.67	19.5
15	1 1	43.0	1825.0	1662.6	3224.1	712.	129.09	22.29	0.59	13.4
16	1 1	25.0	1700.0	2106.6	3227.0	713.	135.09	28.29	0.59	13.4
17	1 1	0.0	919.0	2487.8	3231.0	714.	140.30	33.50	0.59	13.5

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO APURIMAC INF 2/14/79

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	KM	M	MM	M /S	M /S	(-)	L/S/KM
=====										
AFLUENTE MUPILLO										
=====										
18	2 2	31.0	4300.0	0.2	4850.0	1299.	0.01	0.01	0.86	35.5
19	2 2	0.0	854.0	228.4	3007.6	1001.	6.16	6.16	0.85	27.0
=====										
AFLUENTE PACAYJAMBAS										
=====										
20	2 2	23.0	4700.0	0.1	4710.0	1279.	0.00	0.00	0.86	34.9
21	2 2	0.0	1546.0	109.3	3291.3	1058.	3.11	3.11	0.85	28.4
=====										
AFLUENTE PAMPAONAS										
=====										
22	2 2	53.0	4841.0	0.2	4920.0	1309.	0.01	0.01	0.86	35.8
23	2 2	15.0	1546.0	263.4	3575.0	1111.	7.88	7.88	0.85	29.9
21+ 23		15.0	1546.0	372.7	3491.8	1095.	10.99	10.99	0.85	29.5
24	2 2	0.0	763.0	670.7	3107.6	1010.	18.24	18.24	0.85	27.2
=====										
AFLUENTE APUR1										
=====										
25	2 2	23.0	2200.0	1.4	2500.0	870.	0.03	0.03	0.85	23.5
26	3 3	0.0	678.0	261.9	1877.3	1338.	7.59	7.59	0.68	29.0
=====										
AFLUENTE APUR2										
=====										
27	2 2	15.0	2200.0	0.8	2300.0	805.	0.02	0.02	0.85	21.7
28	3 3	0.0	654.0	81.1	1836.6	1348.	2.36	2.36	0.68	29.1
=====										
AFLUENTE CHIRUMPIARI										
=====										
29	2 2	10.0	2900.0	0.7	3033.0	1007.	0.02	0.02	0.85	27.1
30	3 3	0.0	628.0	44.0	1981.0	1307.	1.26	1.26	0.69	28.7
=====										
AFLUENTE SACHABAMBA										
=====										
31	2 2	32.0	4334.0	4.2	4450.0	1242.	0.14	0.14	0.86	33.8
32	2 2	0.0	1530.0	345.6	3733.8	1133.	10.65	10.65	0.86	30.8
=====										
AFLUENTE APARITABUMCO										
=====										
33	2 2	42.0	4205.0	2.6	4335.0	1224.	0.09	0.09	0.86	33.4
34	2 2	9.0	1530.0	301.4	3526.0	1104.	8.93	8.93	0.85	29.6
32+ 34		9.0	1530.0	647.0	3637.0	1119.	19.58	19.58	0.85	30.3
35	2 2	0.0	626.0	736.5	3514.3	1093.	21.76	21.76	0.85	29.5
=====										

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO APURIMAC INF 2/14/79

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2	M	MM	3	3	(-)	2
				KM	M		M /S	M /S		L/S/KM

AFLUENTE SAMOGAN

36	2 2	23.0	3000.0	1.6	3200.0	1040.	0.04	0.04	0.85	28.0
37	3 3	0.0	572.0	80.3	1825.9	1358.	2.35	2.35	0.68	29.3

AFLUENTE SAMANIATADO

38	2 2	13.0	3000.0	1.2	3300.0	1060.	0.03	0.03	0.85	28.5
39	3 3	0.0	566.0	92.6	1817.5	1361.	2.71	2.71	0.68	29.3

AFLUENTE SANTAROSA

40	2 2	29.0	3000.0	7.4	3300.0	1060.	0.21	0.21	0.85	28.5
41	3 3	15.0	1000.0	75.0	2050.8	1301.	2.16	2.16	0.70	28.8
42	3 3	0.0	562.0	307.7	1844.5	1354.	9.00	9.00	0.68	29.2

AFLUENTE CHURITIARU

43	3 3	10.0	2100.0	0.6	2325.0	1235.	0.02	0.02	0.70	27.5
44	3 3	0.0	519.0	26.6	1572.4	1438.	0.80	0.80	0.66	30.2

AFLUENTE PIENE

45	2 2	70.0	4200.0	0.2	4314.0	1220.	0.01	0.01	0.86	33.3
46	2 2	40.0	2613.0	265.6	3460.6	1092.	7.78	7.78	0.85	29.3
47	2 2	0.0	510.0	846.7	3249.5	1050.	23.89	23.89	0.85	28.2

AFLUENTE PICHARI

48	2 2	37.0	3500.0	0.1	3528.0	1104.	0.00	0.00	0.85	29.6
49	3 3	0.0	508.0	383.4	2794.2	1135.	9.91	9.91	0.72	25.8

AFLUENTE ACON

50	2 2	34.0	4000.0	1.6	4000.0	1170.	0.05	0.05	0.87	32.3
51	2 2	15.0	2600.0	199.2	3206.4	1041.	5.58	5.58	0.85	28.0
52	3 3	0.0	477.0	300.9	2528.3	1213.	8.80	8.80	0.76	29.3

AFLUENTE QUISTO

53	2 2	10.0	3000.0	0.7	3500.0	1100.	0.02	0.02	0.85	29.5
54	3 3	0.0	456.0	68.7	2510.2	1199.	1.85	1.85	0.71	27.0

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO APURIMAC INF 2/14/79

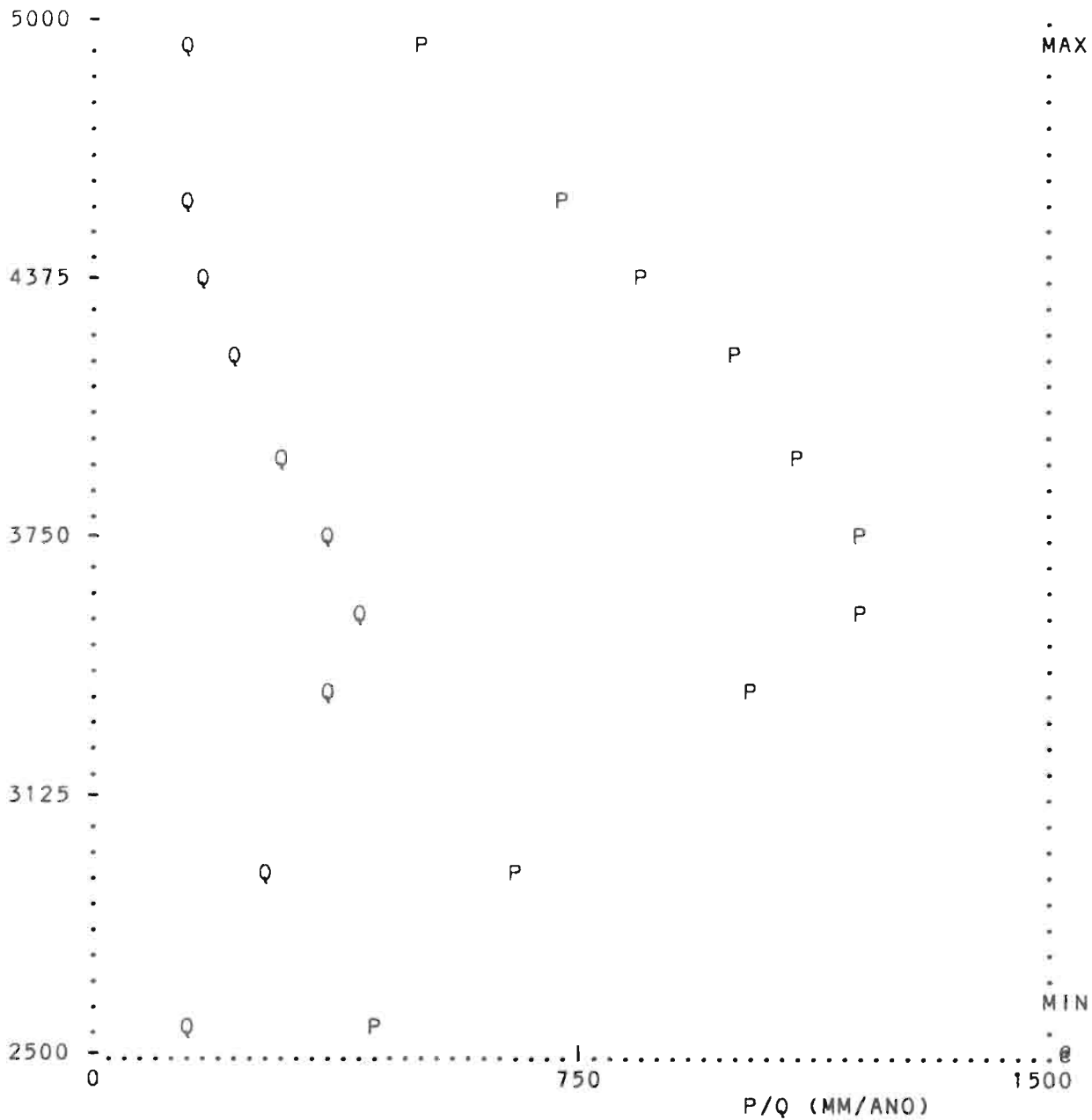
I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM
AFLUENTE APURIMAC										
55	1 1	376.0	2547.0	0.1	4131.0	913.	143.90	0.00	0.67	19.4
56	1 1	366.0	2362.0	350.7	3600.1	820.	149.68	5.78	0.63	16.5
57	1 1	349.0	2211.0	532.0	3584.8	817.	152.62	8.72	0.63	16.4
5+ 57		348.0	2211.0	1211.9	3407.1	766.	229.30	18.10	0.62	14.9
58	1 1	335.0	2100.0	1403.7	3421.3	771.	232.35	21.15	0.62	15.1
7+ 58		335.0	2100.0	1547.3	3396.2	763.	234.19	22.99	0.61	14.9
59	1 1	310.0	1888.0	2204.4	3412.5	769.	244.32	33.12	0.62	15.0
13+ 59		310.0	1888.0	3556.0	3439.5	776.	316.82	54.12	0.62	15.2
60	1 1	297.0	1777.0	3735.6	3434.9	775.	319.42	56.72	0.62	15.2
61	1 1	272.0	1565.0	4813.6	3400.4	765.	334.42	71.72	0.61	14.9
62	1 1	241.0	1303.0	5215.2	3386.9	761.	339.80	77.10	0.61	14.8
63	1 1	226.0	1175.0	5707.0	3374.7	757.	346.49	83.79	0.61	14.7
64	1 1	196.0	919.0	6258.8	3360.9	753.	353.85	91.15	0.61	14.6
17+ 64		196.0	919.0	8746.6	3323.9	742.	494.15	124.65	0.61	14.3
65	1 1	194.0	902.0	8754.1	3322.5	741.	736.00	124.70	0.61	14.2
66	3 3	174.0	854.0	9002.3	3308.1	752.	742.41	131.11	0.61	14.6
19+ 66		174.0	854.0	9230.7	3300.7	758.	743.57	137.27	0.62	14.9
67	3 3	144.0	763.0	9659.9	3277.5	775.	759.68	148.38	0.62	15.4
24+ 67		144.0	763.0	10330.6	3266.5	791.	777.93	166.63	0.64	16.1
68	3 3	109.0	678.0	10733.5	3205.2	814.	789.99	178.69	0.64	16.6
26+ 68		109.0	678.0	10995.4	3173.6	827.	797.58	186.28	0.65	16.9
69	3 3	99.0	654.0	11059.0	3164.7	830.	799.49	188.19	0.65	17.0
28+ 69		99.0	654.0	11140.1	3155.0	834.	801.85	190.55	0.65	17.1
70	3 3	88.0	628.0	11230.7	3142.7	838.	804.56	193.26	0.65	17.2
30+ 70		88.0	628.0	11274.7	3138.2	840.	805.82	194.52	0.65	17.3
71	3 3	87.0	626.0	11279.8	3137.5	841.	805.97	194.67	0.65	17.3
35+ 71		87.0	626.0	12016.3	3160.6	856.	827.73	216.43	0.66	18.0
72	3 3	71.0	572.0	12341.9	3120.4	371.	837.47	226.17	0.66	18.3
37+ 72		71.0	572.0	12422.2	3112.1	874.	839.82	228.52	0.66	18.4
73	3 3	68.0	566.0	12431.6	3110.6	874.	840.12	228.82	0.66	18.4
39+ 73		68.0	566.0	12524.2	3101.0	878.	842.84	231.54	0.66	18.5
74	3 3	66.0	562.0	12536.6	3099.3	879.	843.22	231.92	0.66	18.5
42+ 74		66.0	562.0	12844.3	3069.3	890.	852.22	240.92	0.66	18.8
75	3 3	51.0	530.0	13192.5	3030.3	904.	862.70	251.40	0.66	19.1
76	3 3	46.0	519.0	13243.4	3023.0	907.	864.33	253.03	0.66	19.1
44+ 76		46.0	519.0	13270.0	3020.1	908.	865.13	253.83	0.66	19.1
77	3 3	42.0	510.0	13298.0	3016.0	909.	866.05	254.75	0.66	19.2
47+ 77		42.0	510.0	14144.7	3030.0	918.	889.94	278.64	0.68	19.7
78	3 3	41.0	508.0	14148.1	3029.5	918.	890.05	278.75	0.68	19.7
49+ 78		41.0	508.0	14531.5	3023.3	924.	899.96	288.66	0.68	19.9
79	3 3	27.0	477.0	14679.6	3005.4	930.	904.62	293.32	0.68	20.0
52+ 79		27.0	477.0	14980.5	2995.8	936.	913.42	302.12	0.68	20.2
80	3 3	17.0	456.0	15137.2	2978.9	941.	918.29	306.98	0.68	20.3
54+ 80		17.0	456.0	15205.9	2976.8	943.	920.14	308.84	0.68	20.3
81	3 3	0.0	419.0	15356.0	2959.8	948.	924.87	313.57	0.68	20.4

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*****
*          CUENCA DEL RIO PAMPAS          : REGIMEN # 1          *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
*          AMAX = 4974. ; AMIN = 2631.          *
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ALTURA (M.S.N.M.)



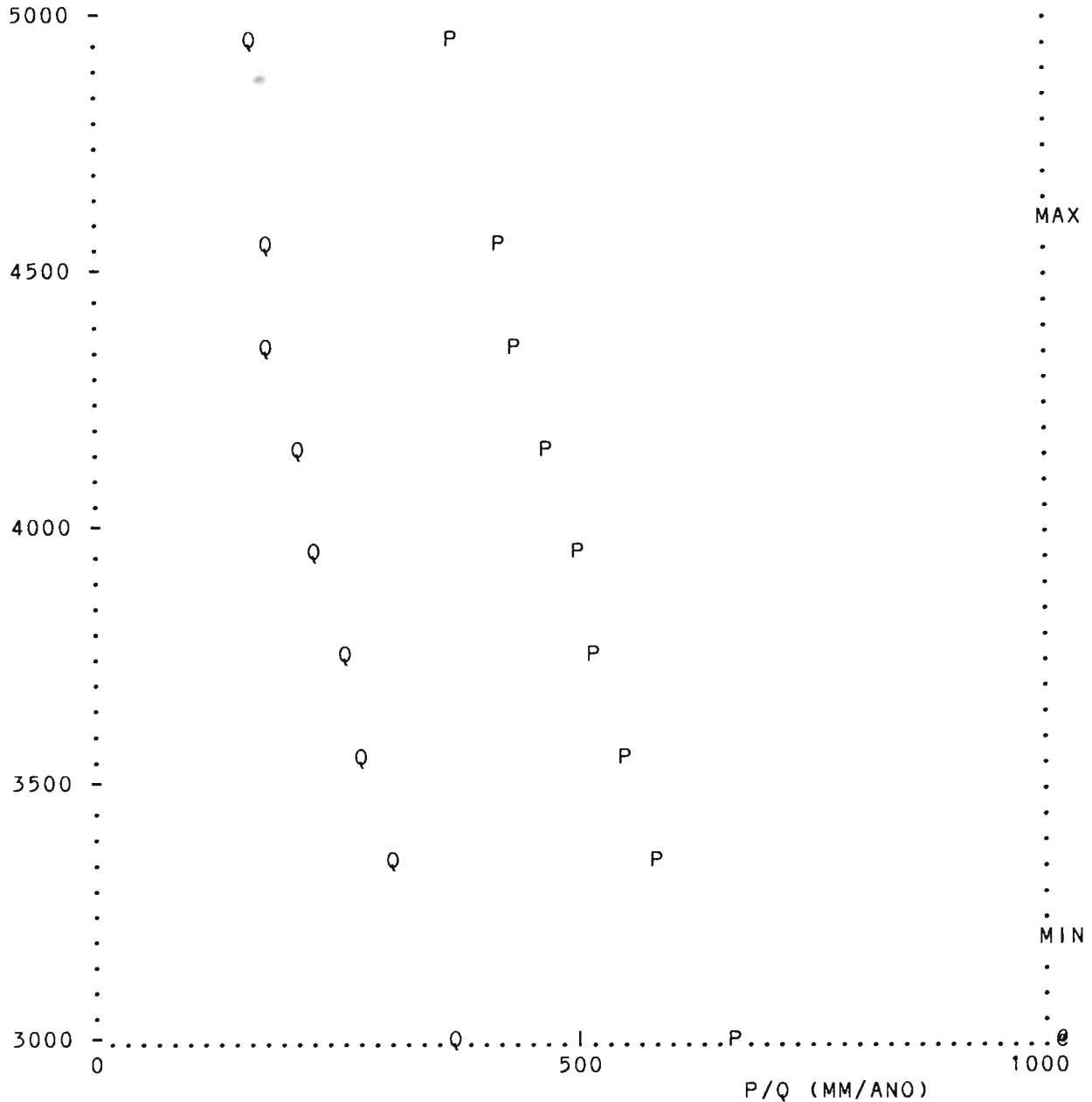
A :	2000	2400	2600	3000	3400	3600	3800	4000	4200	4400	4600	5000
Q :	240	160	170	280	400	450	400	320	250	200	170	160
P :	600	450	470	700	1070	1250	1230	1150	1050	900	770	550
K :	.400	.356	.362	.400	.374	.360	.325	.278	.238	.222	.221	.291

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* CUENCA DEL RIO PAMPAS : REGIMEN # 2 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4633. : AMIN = 3210. *
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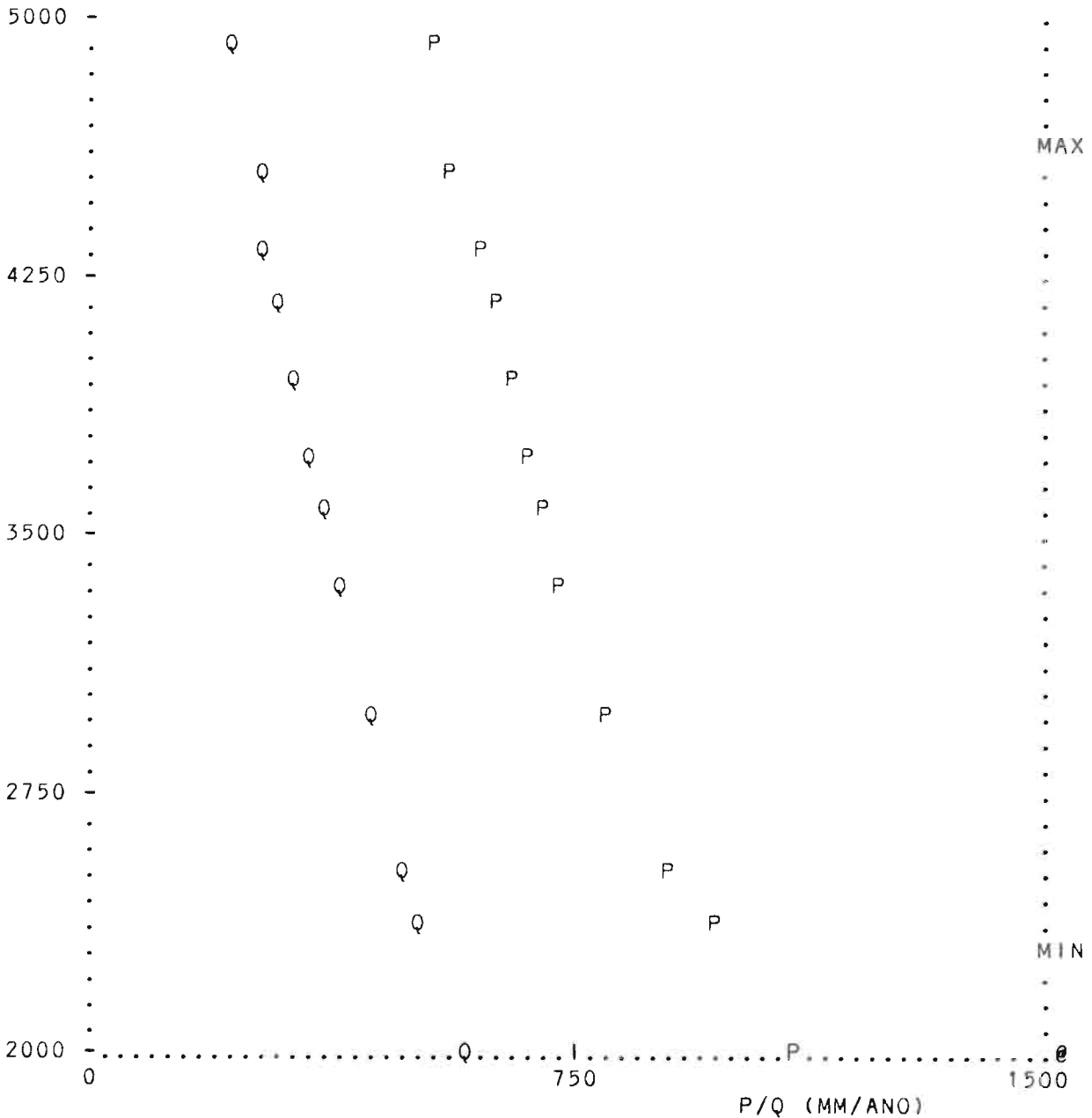
ALTURA (M.S.N.M.)



A :	2000	2400	2600	3000	3400	3600	3800	4000	4200	4400	4600	5000
Q :	500	470	450	390	330	300	280	250	230	200	190	170
P :	950	830	770	690	610	570	550	520	490	460	440	400
K :	.526	.566	.584	.565	.541	.526	.509	.481	.469	.435	.432	.425

 * CUENCA DEL RIO PAMPAS : REGIMEN # 3 *
 * CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
 * AMAX = 4638. : AMIN = 2341. *

ALTURA (M.S.N.M.)



A :	2000	2400	2600	3000	3400	3600	3800	4000	4200	4400	4600	5000
Q :	610	550	520	470	420	400	370	350	320	300	280	250
P :	1150	1010	950	850	775	740	710	680	660	630	600	560
K :	.530	.545	.547	.553	.542	.541	.521	.515	.485	.476	.467	.446

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO PAMPAS

2/14/79

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM

AFLUENTE PALMITOS

1	1 1	34.0	4850.0	1.8	4974.0	564.	0.01	0.01	0.29	5.2
2	1 1	30.0	4465.0	13.2	4773.6	674.	0.07	0.07	0.25	5.4
3	1 1	20.0	4190.0	102.2	4677.3	727.	0.55	0.55	0.24	5.4
4	1 1	10.0	4050.0	310.8	4661.7	736.	1.69	1.69	0.23	5.4
5	1 1	0.0	3690.0	361.1	4622.1	761.	2.02	2.02	0.23	5.6

AFLUENTE SECO

6	1 1	32.0	4435.0	24.2	4492.0	840.	0.15	0.15	0.23	6.0
7	1 1	30.0	4395.0	32.2	4472.9	853.	0.20	0.20	0.23	6.1
8	1 1	20.0	4160.0	136.1	4416.5	889.	0.87	0.87	0.23	6.4
9	1 1	10.0	3930.0	249.5	4374.9	920.	1.67	1.67	0.23	6.7
10	1 1	0.0	3475.0	298.0	4332.0	948.	2.11	2.11	0.24	7.1

AFLUENTE CHALHUAMAYO

11	1 1	41.0	4310.0	1.6	4355.0	934.	0.01	0.01	0.23	6.8
12	1 1	35.0	4045.0	43.9	4312.6	966.	0.31	0.31	0.23	7.2
13	1 1	25.0	3825.0	137.3	4263.2	1003.	1.04	1.04	0.24	7.6
14	1 1	15.0	3670.0	425.6	4232.6	1026.	3.32	3.32	0.24	7.8
15	1 1	5.0	3475.0	578.6	4202.8	1043.	4.70	4.70	0.25	8.1
10+ 15		5.0	3475.0	876.6	4246.7	1011.	6.81	6.81	0.24	7.8
16	1 1	0.0	3350.0	893.2	4237.2	1015.	7.03	7.03	0.24	7.9

AFLUENTE ALPACANCHA

17	1 1	42.0	4450.0	0.5	4513.0	827.	0.00	0.00	0.23	5.9
18	1 1	40.0	4415.0	9.3	4479.9	848.	0.06	0.06	0.23	6.1
19	1 1	30.0	4305.0	161.8	4529.0	816.	0.94	0.94	0.23	5.8
20	1 1	20.0	3990.0	238.9	4480.9	848.	1.45	1.45	0.23	6.1
21	1 1	10.0	3560.0	330.3	4440.0	876.	2.09	2.09	0.23	6.3
22	1 1	0.0	3285.0	465.8	4323.0	950.	3.44	3.44	0.24	7.4

AFLUENTE URABAMBA

23	1 1	60.0	4200.0	1.4	4211.0	1042.	0.01	0.01	0.24	8.0
24	1 1	50.0	4045.0	39.2	4212.0	1041.	0.31	0.31	0.24	8.0
25	1 1	40.0	3940.0	355.6	4172.8	1063.	2.98	2.98	0.25	8.4
26	1 1	30.0	3915.0	450.8	4140.6	1079.	3.94	3.94	0.26	8.7
27	1 1	20.0	3904.0	731.0	4149.9	1075.	6.32	6.32	0.25	8.6
28	1 1	10.0	3855.0	1131.2	4164.1	1068.	9.59	9.59	0.25	8.5
29	1 1	0.0	3500.0	1164.0	4150.4	1073.	10.05	10.05	0.25	8.6

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	KM	M	MM	M /S	M /S	(-)	L/S/KM

AFLUENTE LUCANAMARCA

30	1 1	40.0	4500.0	0.5	4690.0	720.	0.00	0.00	0.24	5.4
31	1 1	30.0	4025.0	103.6	4492.0	840.	0.62	0.62	0.23	6.0
32	1 1	20.0	3830.0	198.1	4359.8	935.	1.37	1.37	0.23	6.9
33	1 1	10.0	3450.0	630.4	4285.9	987.	4.68	4.68	0.24	7.4
34	1 1	0.0	3055.0	761.4	4210.5	1026.	6.30	6.30	0.25	8.3

AFLUENTE CARACHA SUPE

35	1 1	110.0	4300.0	3.1	4393.0	905.	0.01	0.01	0.12	3.3
36	1 1	100.0	4020.0	82.7	4270.8	997.	0.32	0.32	0.12	3.8
37	1 1	90.0	3940.0	308.2	4251.2	1012.	1.21	1.21	0.12	3.9
38	1 1	80.0	3390.0	501.5	4204.1	1040.	2.08	2.08	0.13	4.2
39	1 1	70.0	3870.0	1244.9	4303.8	969.	4.63	4.63	0.12	3.7
40	1 1	60.0	3852.0	1356.3	4293.8	977.	5.10	5.10	0.12	3.8

AFLUENTE CARACHA INFE

40	1 1	60.0	3852.0	1356.3	4293.8	977.	5.10	5.10	0.12	3.8
41	1 1	50.0	3500.0	1415.9	4278.8	985.	5.76	5.76	0.13	4.1
29+ 41		50.0	3500.0	2579.9	4220.9	1025.	15.82	15.82	0.19	6.1
42	1 1	40.0	3175.0	2898.6	4202.9	1035.	18.90	18.90	0.20	6.5
43	1 1	30.0	3055.0	2986.0	4182.7	1039.	20.11	20.11	0.20	6.7
34+ 43		30.0	3055.0	3747.4	4188.3	1037.	26.41	26.41	0.21	7.0
44	1 1	20.0	2870.0	4148.5	4164.2	1050.	30.87	30.87	0.22	7.4
45	1 1	10.0	2748.0	4352.0	4146.0	1058.	33.54	33.54	0.23	7.7
45	1 1	0.0	2625.0	4412.8	4134.3	1057.	34.26	34.26	0.23	7.8

AFLUENTE HUANCAPU

47	1 1	42.0	4350.0	7.5	4350.0	937.	0.05	0.05	0.23	6.9
48	1 1	40.0	4245.0	23.1	4279.1	991.	0.17	0.17	0.24	7.4
49	1 1	30.0	3880.0	77.2	4091.9	1098.	0.72	0.72	0.27	9.4
50	1 1	20.0	3530.0	126.0	3940.1	1153.	1.39	1.39	0.30	11.1
51	1 1	10.0	3050.0	203.1	3683.6	1080.	2.37	2.37	0.33	11.4
52	1 1	0.0	2490.0	255.6	3513.9	985.	2.70	2.70	0.34	10.6

AFLUENTE VISCHONGO

53	1 1	54.0	4048.0	3.2	4148.0	1076.	0.03	0.03	0.25	8.7
54	1 1	50.0	3850.0	12.8	4098.5	1101.	0.12	0.12	0.26	9.2
55	1 1	40.0	3520.0	41.4	3812.8	1198.	0.51	0.51	0.33	12.4
56	1 1	30.0	3295.0	143.2	3813.0	1217.	1.81	1.81	0.33	12.7
57	1 1	20.0	3255.0	475.7	3836.1	1213.	5.91	5.91	0.32	12.4
58	1 1	10.0	2990.0	593.2	3833.1	1215.	7.40	7.40	0.32	12.5
59	1 1	0.0	2460.0	737.6	3816.4	1219.	9.32	9.32	0.33	12.6

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM
AFLUENTE NEGROMAYO										
60	2 2	56.0	4350.0	1.1	4428.0	457.	0.01	0.01	0.44	6.4
61	2 2	50.0	4225.0	28.3	4357.8	466.	0.19	0.19	0.45	6.6
62	2 2	46.0	4155.0	48.3	4306.6	474.	0.33	0.33	0.46	6.9
63	2 2	36.0	4120.0	143.7	4289.6	477.	1.00	1.00	0.46	6.9
64	2 2	26.0	4070.0	286.3	4278.3	478.	2.00	2.00	0.46	7.0
65	2 2	16.0	3900.0	335.8	4270.5	479.	2.36	2.36	0.46	7.0
66	2 2	6.0	3275.0	624.9	4313.7	473.	4.26	4.26	0.45	6.8
67	2 2	0.0	3030.0	652.0	4286.3	477.	4.51	4.51	0.46	6.9
AFLUENTE PANCOY										
68	2 2	41.0	4450.0	0.4	4600.0	440.	0.00	0.00	0.44	6.1
69	2 2	30.0	4148.0	28.1	4327.9	471.	0.19	0.19	0.46	6.8
70	2 2	20.0	3375.0	256.4	4144.6	498.	1.95	1.95	0.48	7.6
71	2 2	10.0	3025.0	363.4	4049.0	513.	2.90	2.90	0.49	8.0
72	2 2	0.0	2700.0	451.3	3975.0	522.	3.73	3.73	0.50	8.3
AFLUENTE HUANCARAMA										
73	2 2	40.0	4375.0	2.4	4633.0	437.	0.01	0.01	0.44	6.1
74	2 2	30.0	4125.0	35.9	4427.7	457.	0.23	0.23	0.44	6.4
75	2 2	20.0	3850.0	70.4	4204.4	490.	0.51	0.51	0.47	7.3
76	2 2	10.0	3555.0	128.1	4083.5	508.	1.00	1.00	0.48	7.8
77	2 2	0.0	2435.0	202.7	3762.0	559.	1.86	1.86	0.52	9.2
AFLUENTE SONDONDO SUP										
78	2 2	114.0	4385.0	23.0	4440.0	456.	0.15	0.15	0.44	6.3
79	2 2	104.0	4315.0	88.9	4463.7	454.	0.56	0.56	0.44	6.3
80	2 2	94.0	4125.0	255.6	4431.3	457.	1.62	1.62	0.44	6.4
81	2 2	84.0	3950.0	437.7	4401.2	461.	2.82	2.82	0.44	6.5
82	2 2	76.0	3650.0	1055.0	4397.0	461.	6.79	6.79	0.44	6.4
83	2 2	64.0	3235.0	1148.3	4389.1	462.	7.44	7.44	0.44	6.5
84	2 2	54.0	3030.0	1291.1	4327.4	471.	8.69	8.69	0.45	6.7
67+ 84		54.0	3030.0	1943.1	4313.6	473.	13.21	13.21	0.45	6.8
85	2 2	47.0	2900.0	1984.0	4299.0	475.	13.60	13.60	0.46	6.9
AFLUENTE SONDONDO INF										
85	2 2	47.0	2900.0	1984.0	4299.0	475.	13.60	13.60	0.46	6.9
86	2 2	40.0	2700.0	2205.7	4228.9	485.	15.75	15.75	0.46	7.1
72+ 86		40.0	2700.0	2657.0	4185.8	491.	19.48	19.48	0.47	7.3
87	2 2	30.0	2575.0	2887.5	4150.4	496.	21.61	21.61	0.48	7.5
88	2 2	20.0	2515.0	3113.0	4100.3	504.	23.95	23.95	0.48	7.7
89	2 2	10.0	2435.0	3190.9	4080.4	507.	24.82	24.82	0.48	7.8
77+ 89		10.0	2435.0	3393.6	4061.4	510.	26.68	26.68	0.48	7.9
90	2 2									

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M / S	3 M / S	(-)	2 L/S/KM

AFLUENTE YANAMAYO

91	3 3	30.0	4260.0	24.8	4399.0	630.	0.24	0.24	0.49	9.7
92	3 3	20.0	3945.0	57.6	4337.5	639.	0.57	0.57	0.49	9.9
93	3 3	10.0	3695.0	101.6	4195.2	657.	1.07	1.07	0.50	10.5
94	3 3	0.0	3480.0	141.6	4067.5	674.	1.55	1.55	0.51	11.0

AFLUENTE PAUCHE

95	3 3	40.0	4230.0	3.6	4395.0	631.	0.03	0.03	0.49	9.7
96	3 3	30.0	3965.0	100.4	4259.1	651.	1.02	1.02	0.49	10.1
97	3 3	20.0	3770.0	232.1	4205.7	658.	2.40	2.40	0.50	10.3
98	3 3	10.0	3275.0	372.7	4100.2	671.	4.02	4.02	0.51	10.8
99	3 3	0.0	2610.0	411.4	4049.7	678.	4.53	4.53	0.51	11.0

AFLUENTE SORAS

100	3 3	107.0	4450.0	1.8	4525.0	611.	0.02	0.02	0.48	9.3
101	3 3	97.0	4080.0	58.2	4351.5	637.	0.57	0.57	0.49	9.8
102	3 3	87.0	3852.0	206.4	4262.8	651.	2.09	2.09	0.49	10.1
103	3 3	77.0	3645.0	269.1	4238.2	654.	2.75	2.75	0.49	10.2
104	3 3	67.0	3480.0	350.0	4142.7	666.	3.71	3.71	0.50	10.6
94+104		67.0	3480.0	491.6	4121.0	668.	5.27	5.27	0.51	10.7
105	3 3	57.0	3200.0	775.0	4102.0	670.	8.38	8.38	0.51	10.8
106	3 3	47.0	2955.0	1524.2	4038.1	677.	16.91	16.91	0.52	11.1
107	3 3	40.0	2610.0	1631.4	4029.5	678.	18.16	18.16	0.52	11.1
99+107		40.0	2610.0	2042.8	4033.6	678.	22.69	22.69	0.52	11.1
108	3 3	30.0	2470.0	2543.6	3981.5	685.	28.75	28.75	0.52	11.3
109	3 3	20.0	2355.0	2676.4	3962.1	688.	30.47	30.47	0.52	11.4
110	3 3	10.0	2260.0	2992.2	3921.8	694.	34.57	34.57	0.53	11.6
111	3 3	0.0	2135.0	3035.7	3908.5	696.	35.23	35.23	0.53	11.6

AFLUENTE HUANCARAY

112	3 3	48.0	4210.0	9.7	4323.0	642.	0.10	0.10	0.49	9.9
113	3 3	40.0	3730.0	79.0	4182.6	661.	0.83	0.83	0.50	10.4
114	3 3	30.0	3370.0	238.7	4065.8	673.	2.62	2.62	0.52	11.0
115	3 3	20.0	2970.0	389.6	3940.8	691.	4.47	4.47	0.52	11.5
116	3 3	10.0	2560.0	552.3	3868.4	701.	6.50	6.50	0.53	11.8
117	3 3	0.0	2090.0	812.8	3721.1	724.	10.02	10.02	0.54	12.3

AFLUENTE TOROBAMBA

118	1 1	52.0	3870.0	60.0	3923.0	1181.	0.67	0.67	0.30	11.1
119	1 1	40.0	2900.0	240.7	3874.2	1200.	2.83	2.83	0.31	11.7
120	1 1	30.0	2580.0	378.0	3802.6	1216.	4.70	4.70	0.32	12.4
121	1 1	20.0	2245.0	533.9	3672.5	1161.	6.62	6.62	0.34	12.4
122	1 1	10.0	1830.0	759.9	3472.8	1024.	8.62	8.62	0.35	11.3
123	1 1	0.0	1570.0	860.9	3374.0	962.	9.20	9.20	0.35	10.7

I	RP/RE	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
		KM	M	2 KM	M	MM	3 M /S	3 M /S	(-)	2 L/S/KM

AFLUENTE CHUMBAO

124	3 3	50.0	4260.0	14.3	4638.0	596.	0.13	0.13	0.46	8.8
125	3 3	50.0	3720.0	81.5	4455.8	622.	0.76	0.76	0.47	9.3
126	3 3	40.0	3050.0	130.0	4125.7	668.	1.38	1.38	0.50	10.6
127	3 3	30.0	2790.0	405.5	3782.1	715.	4.85	4.85	0.53	12.0
128	3 3	20.0	2410.0	589.2	3755.9	718.	7.09	7.09	0.53	12.0
129	3 3	10.0	1910.0	648.7	3683.0	731.	7.99	7.99	0.53	12.3
130	3 3	0.0	1275.0	631.9	3638.6	740.	8.51	8.51	0.53	12.5

AFLUENTE PAMPAS SUPER

131	1 1	403.0	4529.0	252.1	4892.0	609.	1.32	1.32	0.27	5.3
132	1 1	393.0	4325.0	303.0	4845.0	635.	1.60	1.60	0.26	5.3
133	1 1	338.0	4050.0	651.9	4706.9	712.	3.54	3.54	0.24	5.4
134	1 1	378.0	3895.0	775.5	4674.9	731.	0.03	4.28	0.24	5.5
135	1 1	368.0	3690.0	822.2	4642.5	752.	0.45	4.70	0.24	5.7
5+135		368.0	3690.0	1183.3	4636.3	755.	2.48	6.73	0.24	5.7
136	1 1	358.0	3525.0	1264.7	4614.0	769.	3.08	7.33	0.24	5.8
137	1 1	348.0	3350.0	1449.3	4559.9	806.	4.59	8.84	0.24	6.1
16+137		348.0	3350.0	2342.5	4436.8	885.	11.62	15.87	0.24	6.8
138	1 1	342.0	3285.0	2476.9	4416.2	898.	12.93	17.18	0.24	6.9
22+138		342.0	3285.0	2942.7	4401.4	907.	16.36	20.61	0.24	7.0
139	1 1	335.0	3215.0	3067.5	4388.4	915.	17.54	21.79	0.24	7.1
140	1 1	325.0	3090.0	3302.3	4373.5	925.	19.49	23.74	0.25	7.2
141	1 1	315.0	2960.0	3442.0	4359.3	934.	20.90	25.15	0.25	7.3
142	1 1	305.0	2865.0	3571.5	4335.8	945.	22.66	26.91	0.25	7.5
143	1 1	295.0	2700.0	3755.9	4316.7	956.	24.69	28.94	0.25	7.7
144	1 1	285.0	2625.0	3856.1	4292.7	959.	25.98	30.23	0.26	7.8
46+144		285.0	2625.0	8268.9	4208.2	1011.	60.25	64.50	0.24	7.8
145	1 1	278.0	2580.0	8337.3	4199.5	1010.	60.96	65.21	0.24	7.8
146	1 1	268.0	2545.0	8570.1	4185.7	1016.	64.17	68.42	0.25	8.0
147	1 1	258.0	2490.0	8876.5	4164.0	1023.	68.52	72.77	0.25	8.2
52+147		258.0	2490.0	9132.1	4145.8	1022.	71.22	75.47	0.26	8.3
148	1 1	249.0	2460.0	9218.0	4135.9	1019.	72.06	76.31	0.26	8.3
59+148		249.0	2460.0	9955.6	4112.2	1034.	81.38	85.63	0.26	8.6
149	1 1	243.0	2435.0	9997.3	4108.4	1034.	81.84	86.09	0.26	8.6
150	1 1	233.0	2405.0	10125.4	4099.2	1034.	83.47	87.72	0.26	8.7
151	1 1	222.0	2298.0	10292.2	4086.4	1033.	85.48	89.73	0.27	8.7
152	1 1	213.0	2275.0	10396.3	4079.2	1033.	86.79	91.04	0.27	8.8
90+152		213.0	2275.0	14062.3	4063.2	898.	116.27	120.52	0.30	8.6
153	3 3	204.0	2235.0	14124.1	4060.0	898.	117.13	121.38	0.30	8.6
154	3 3	193.0	2165.0	14355.9	4048.9	896.	120.30	124.55	0.31	8.7
155	3 3	185.0	2135.0	14418.0	4044.4	896.	121.24	125.49	0.31	8.7
111+155		185.0	2135.0	17453.7	4020.8	861.	156.46	160.71	0.34	9.2
156	3 3	174.0	2090.0	17547.9	4016.0	861.	157.85	162.10	0.34	9.2
117+156		174.0	2090.0	18360.7	4002.9	855.	167.87	172.12	0.35	9.4
157	3 3	162.0	2030.0	18532.1	3995.5	854.	170.33	174.58	0.35	9.4
158	3 3	152.0	1985.0	18692.7	3989.1	854.	172.61	176.86	0.35	9.5
159	3 3	142.0	1970.0	18794.4	3984.2	854.	174.12	178.37	0.35	9.5
160	3 3	129.0	1920.0	19205.5	3967.7	853.	180.00	184.25	0.35	9.6