

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 SANTA-C

134	1 1	142.5	1940.0	4765.0	4340.4	877.	82.70	83.45	0.63	17.5
135	1 1	140.0	1850.0	4830.6	4319.7	873.	83.48	84.23	0.63	17.4
55+135		140.0	1850.0	4946.4	4333.1	878.	86.68	87.43	0.64	17.7
136	1 1	132.0	1400.0	4994.3	4322.5	875.	87.59	88.34	0.64	17.7
61+136		132.0	1400.0	5386.4	4307.7	873.	99.80	95.80	0.64	17.8
137	1 1	119.0	1107.0	5629.9	4272.6	863.	105.95	101.95	0.66	18.1
138	1 1	109.0	980.0	5801.4	4243.2	856.	109.39	105.39	0.67	18.2
70+138		109.0	980.0	6595.8	4180.3	837.	124.12	120.12	0.69	18.2
139	1 1	96.0	790.0	6803.2	4141.1	829.	126.62	122.62	0.69	18.0
140	1 1	86.0	640.0	6885.4	4118.6	824.	127.00	123.00	0.68	17.9
74+140		86.0	640.0	7121.2	4093.4	817.	132.77	128.77	0.70	18.1
141	1 1	72.0	483.0	7236.4	4060.2	809.	133.09	129.09	0.70	17.8
116+141		72.0	483.0	10443.2	3874.9	761.	159.39	158.99	0.63	15.2
142	1 1	70.0	475.0	10453.3	3872.1	760.	150.00	149.60	0.59	14.3

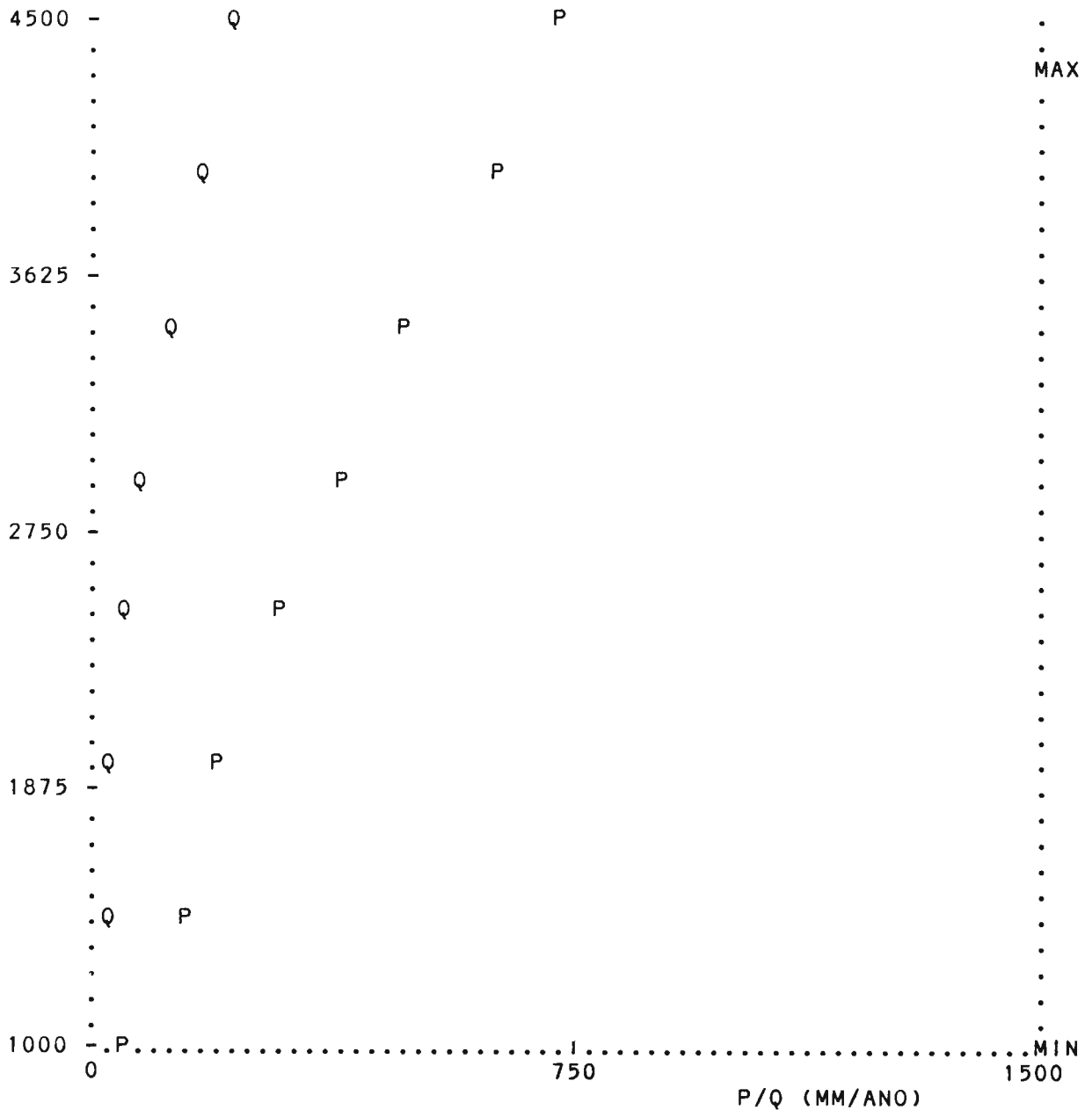
AFLUENTE SANTA-D

142	1 1	70.0	475.0	10453.3	3872.1	760.	150.00	149.60	0.59	14.3
143	1 1	53.5	340.0	10678.5	3823.0	747.	150.10	149.70	0.59	14.0
144	1 1	43.5	263.0	10923.1	3769.7	734.	149.19	149.79	0.59	13.7
145	1 1	23.5	125.0	11961.6	3542.7	677.	148.49	150.09	0.58	12.5
146	1 1	3.5	14.0	12437.0	3414.2	652.	147.56	150.16	0.58	12.1
147	1 1	0.0	0.0	12478.5	3403.4	650.	147.57	150.17	0.58	12.0

- 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 LACRAMARCA : REGIMEN # 1 \*  
 \* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) \*  
 \* AMAX = 4362. : AMIN = 1003. \*  
 \*\*\*\*\*

ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	80	140	190	240	280	330	460
P :	20	70	150	220	310	410	520	650	760	850	920	1000
K :	.100	.286	.200	.182	.194	.195	.269	.292	.316	.329	.359	.460

I	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 TANTARAN

1	25.0	3900.0	0.1	3900.0	624.	0.00	0.00	0.29	5.7
2	20.0	2425.0	17.8	2956.3	401.	0.04	0.04	0.20	2.5
3	10.0	1200.0	116.2	2609.7	332.	0.24	0.24	0.19	2.0
4	0.0	745.0	158.0	2278.8	278.	0.27	0.27	0.20	1.7

AFLUENTE LACRAMARCA

5	46.0	4050.0	0.7	4362.0	730.	0.01	0.01	0.31	7.2
6	33.0	1350.0	54.3	2802.4	371.	0.13	0.13	0.20	2.3
7	23.0	745.0	144.0	2113.8	251.	0.22	0.22	0.19	1.5
4+ 7	23.0	745.0	302.0	2200.1	265.	0.50	0.50	0.20	1.6
8	10.0	300.0	454.0	1843.2	207.	0.61	0.61	0.20	1.3
9	0.0	150.0	685.3	1559.6	161.	0.05	0.75	0.22	1.1

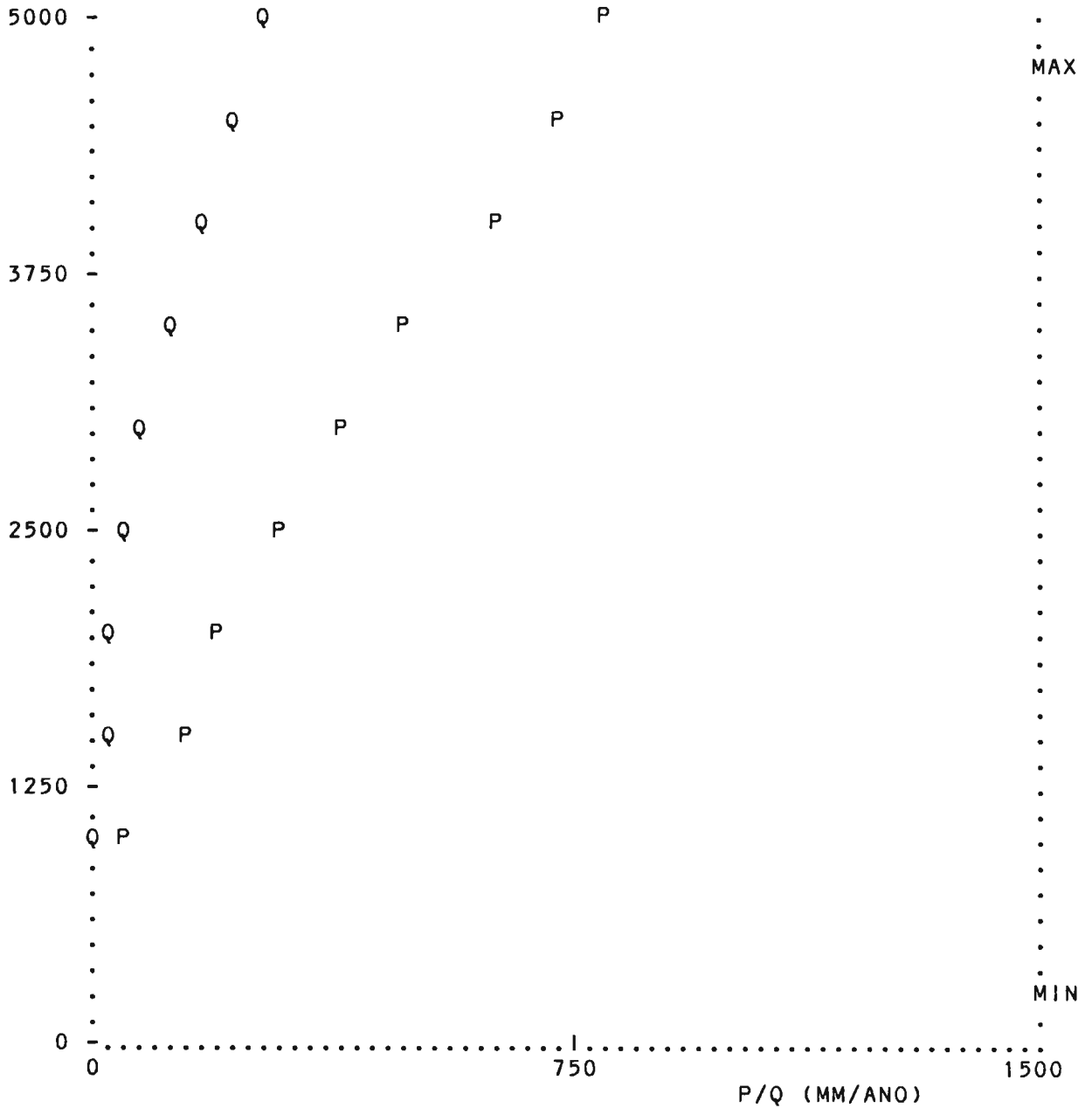
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- RQT = RENDIMIENTO DE TODA LA CUENCA HASTA EL PUNTO

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*          CUENCA DEL RIO NEPENA          : REGIMEN # 1          *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
*          AMAX = 4771. : AMIN = 250.          *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	80	140	190	240	280	330	460
P :	20	70	150	220	310	410	520	650	760	845	920	1000
K :	.100	.286	.200	.182	.194	.195	.269	.292	.316	.331	.359	.460

I	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 RIO GRANDE

1	19.0	4600.0	0.5	4771.0	806.	0.00	0.00	0.31	7.9
2	10.0	2750.0	39.2	4206.3	695.	0.25	0.25	0.29	6.4
3	0.0	1600.0	142.9	3471.7	519.	0.57	0.57	0.24	4.0

AFLUENTE RIO COSMA

4	17.0	3400.0	3.3	3900.0	624.	0.02	0.02	0.28	5.4
5	10.0	1975.0	22.7	3015.5	418.	0.06	0.06	0.21	2.7
6	0.0	1025.0	59.4	2754.4	363.	0.13	0.13	0.19	2.2

AFLUENTE RIO LAMPANIN

7	17.0	3000.0	4.6	3624.0	552.	0.02	0.02	0.26	4.6
8	10.0	1650.0	39.4	2625.0	337.	0.08	0.08	0.20	2.1
9	0.0	950.0	113.9	2226.0	262.	0.18	0.18	0.19	1.5

AFLUENTE RIO CHUNYA

10	18.0	4500.0	0.2	4500.0	760.	0.00	0.00	0.30	7.3
11	10.0	2600.0	35.4	3595.1	545.	0.16	0.16	0.26	4.5
12	0.0	1320.0	83.0	3010.1	419.	0.25	0.25	0.23	3.0

AFLUENTE UCHUPACANCHA

13	19.0	4450.0	0.3	4450.0	749.	0.00	0.00	0.30	7.1
14	10.0	2550.0	54.4	3651.4	559.	0.26	0.26	0.26	4.7
15	0.0	1350.0	114.7	3125.5	444.	0.38	0.38	0.23	3.3

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO NEPENA

12/17/78

I	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 RIO CHUMBE

16	49.0	4560.0	2.3	4580.0	774.	0.02	0.02	0.30	7.5
17	40.0	3900.0	24.6	4212.9	696.	0.16	0.16	0.29	6.4
18	30.0	2600.0	100.0	3702.5	570.	0.48	0.48	0.27	4.8
19	12.0	1350.0	123.1	3355.4	501.	0.51	0.51	0.26	4.1
12+ 19	12.0	1350.0	206.1	3216.4	468.	0.76	0.76	0.25	3.7
20	11.8	1320.0	206.2	3215.8	468.	0.76	0.76	0.25	3.7
15+ 20	11.8	1320.0	320.9	3183.5	459.	1.14	1.14	0.24	3.5
21	0.0	590.0	401.3	2854.4	398.	1.21	1.21	0.24	3.0

AFLUENTE RIO LOCO

22	49.0	4500.0	0.4	4550.0	769.	0.00	0.00	0.30	7.4
23	40.0	3430.0	52.2	4173.9	688.	0.33	0.33	0.29	6.3
24	30.0	2100.0	127.9	3647.2	561.	0.59	0.59	0.26	4.6
25	20.0	1050.0	210.7	3251.0	473.	0.75	0.75	0.24	3.6
26	10.0	500.0	263.5	2898.5	408.	0.80	0.80	0.23	3.0
27	0.0	245.0	443.3	2210.8	284.	0.60	0.93	0.23	2.1

AFLUENTE NEPENA SUP

28	78.0	4425.0	2.3	4588.0	775.	0.02	0.02	0.30	7.5
29	68.0	2950.0	30.1	4250.0	705.	0.20	0.20	0.29	6.5
30	58.0	1600.0	86.5	3530.2	533.	0.36	0.36	0.25	4.2
3+ 30	58.0	1600.0	229.4	3493.7	525.	0.94	0.94	0.25	4.1
31	52.0	1025.0	249.8	3368.6	499.	0.96	0.96	0.24	3.8
6+ 31	52.0	1025.0	309.2	3250.6	473.	1.09	1.09	0.24	3.5
32	51.0	950.0	313.0	3233.8	470.	1.10	1.10	0.24	3.5
9+ 32	51.0	950.0	426.9	2964.9	414.	1.27	1.27	0.23	3.0
33	44.0	590.0	504.4	2728.3	372.	1.01	1.34	0.23	2.7
21+ 33	44.0	590.0	905.7	2784.2	384.	2.22	2.55	0.23	2.8
34	32.0	290.0	928.9	2729.9	375.	1.90	2.56	0.23	2.8
27+ 34	32.0	290.0	1372.2	2562.2	346.	2.50	3.49	0.23	2.5
35	30.0	245.0	1545.4	2384.8	315.	2.15	3.64	0.24	2.4

AFLUENTE NEPENA INF

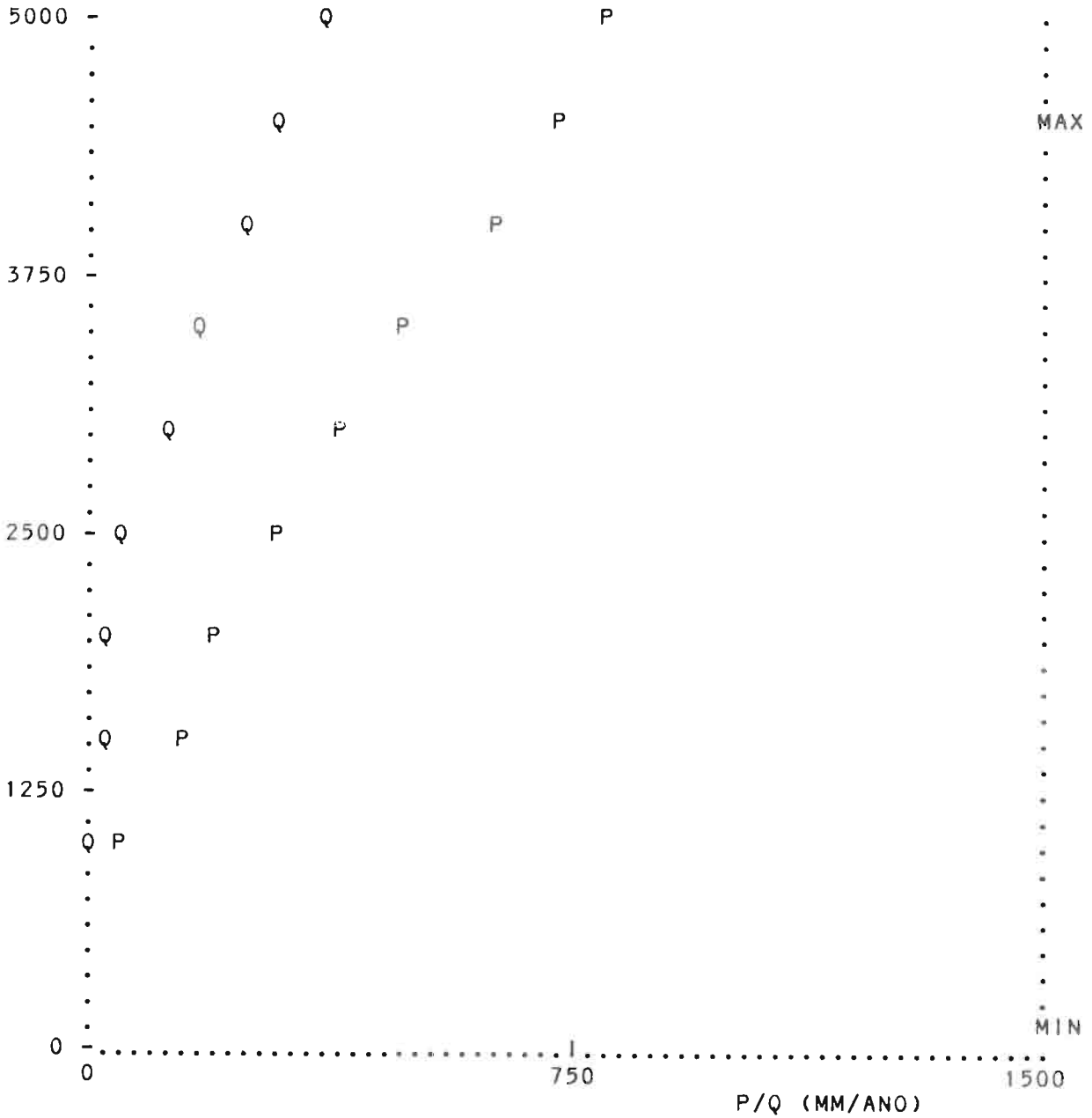
35	30.0	245.0	1545.4	2384.8	315.	2.15	3.64	0.24	2.4
36	20.0	130.0	1689.1	2233.7	292.	1.71	3.70	0.24	2.2
37	10.0	45.0	1806.7	2111.9	276.	1.24	3.73	0.24	2.1
38	0.0	0.0	1885.3	2034.3	266.	1.26	3.75	0.24	2.0

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* CUENCA DEL RIO CASMA : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4612. : AMIN = 138. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	6000
Q :	2	20	30	40	60	130	190	250	320	390	440	500
P :	20	70	150	220	310	410	520	650	760	845	920	1000
K :	.100	.286	.200	.182	.194	.317	.365	.385	.421	.462	.478	.500

I	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 PALLCA

1	12.0	4500.0	0.8	4500.0	760.	0.01	0.01	0.43	10.4
2	0.0	3200.0	76.6	4082.4	668.	0.65	0.65	0.40	8.5

AFLUENTE CHACHAN

3	18.0	4490.0	1.2	4535.0	766.	0.01	0.01	0.44	10.6
4	8.0	3200.0	45.3	3479.7	516.	0.28	0.28	0.37	6.1
2+ 4	8.0	3200.0	121.9	3858.4	612.	0.93	0.93	0.39	7.6
5	0.0	2150.0	182.3	3692.3	571.	1.27	1.27	0.39	7.0

AFLUENTE PIRA

6	20.0	4080.0	1.9	4204.0	695.	0.02	0.02	0.41	9.1
7	12.0	3175.0	81.5	4041.9	659.	0.68	0.68	0.40	8.3
8	2.0	2150.0	162.1	3766.0	589.	1.17	1.17	0.39	7.2
5+ 8	2.0	2150.0	344.4	3727.0	579.	2.45	2.45	0.39	7.1
9	0.0	1990.0	349.3	3713.0	576.	2.46	2.46	0.39	7.0

AFLUENTE AKRUN

10	19.0	4250.0	1.9	4475.0	754.	0.02	0.02	0.43	10.3
11	0.0	1215.0	81.9	2868.2	385.	0.30	0.30	0.30	3.6

AFLUENTE VICTORIA

12	17.0	4200.0	2.7	4400.0	738.	0.03	0.03	0.43	10.0
13	0.0	1190.0	92.1	2898.4	391.	0.35	0.35	0.30	3.8

AFLUENTE PUTACA

14	15.0	4530.0	0.6	4606.0	778.	0.01	0.01	0.44	11.0
15	0.0	2095.0	59.3	3511.2	523.	0.37	0.37	0.38	6.3



I	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 YAUTAN

16	40.0	4500.0	1.7	4612.0	779.	0.02	0.02	0.45	11.0
17	22.0	2095.0	158.2	3349.7	487.	0.89	0.89	0.37	5.6
15+ 17	22.0	2095.0	217.5	3393.7	497.	1.26	1.26	0.37	5.8
18	10.0	1010.0	299.8	3138.2	444.	1.42	1.42	0.34	4.7
19	0.0	440.0	359.4	2926.9	403.	1.49	1.49	0.33	4.2

AFLUENTE SECHIN A

20	63.0	3325.0	3.5	3601.0	546.	0.01	0.01	0.16	2.8
21	50.0	2800.0	185.0	3831.6	606.	0.59	0.59	0.17	3.2
22	40.0	1430.0	316.8	3468.1	521.	0.82	0.82	0.16	2.6
23	30.0	860.0	522.1	3341.9	490.	0.74	1.24	0.15	2.4
24	20.0	410.0	649.5	2915.3	413.	0.79	1.29	0.15	2.0
25	10.0	170.0	927.7	2330.1	310.	0.43	1.40	0.15	1.5

AFLUENTE SEBHIN B

25	10.0	170.0	927.7	2330.1	310.	0.43	1.40	0.15	1.5
26	0.0	40.0	1094.7	2017.7	268.	0.47	1.44	0.15	1.3

AFLUENTE CASMA A

27	101.3	4500.0	1.0	4550.0	768.	0.01	0.01	0.44	10.7
28	86.3	2830.0	104.2	4178.6	689.	0.93	0.93	0.41	9.0
29	76.3	1990.0	164.7	3931.9	628.	1.31	1.31	0.40	8.0
9+ 29	76.3	1990.0	514.0	3783.2	593.	3.77	3.77	0.39	7.3
30	63.3	1215.0	627.6	3500.9	532.	3.95	3.95	0.37	6.3
11+ 30	63.3	1215.0	709.5	3427.9	515.	4.25	4.25	0.37	6.0
31	62.5	1190.0	710.7	3424.1	515.	4.25	4.25	0.37	6.0
13+ 31	62.5	1190.0	802.8	3363.8	501.	4.59	4.59	0.36	5.7
32	52.5	700.0	927.1	3155.2	459.	4.74	4.74	0.35	5.1
33	44.0	496.0	1003.6	3004.4	432.	4.30	4.80	0.35	4.8

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

AFLUENTE CASMA B

33	44.0	496.0	1003.6	3004.4	432.	4.30	4.80	0.35	4.8
34	43.5	440.0	1006.6	2997.1	431.	4.30	4.80	0.35	4.8
19+ 34	43.5	440.0	1366.0	2978.6	423.	5.80	6.30	0.34	4.6
35	32.5	225.0	1628.3	2898.3	405.	5.80	6.80	0.33	4.2
36	22.5	140.0	1821.9	2658.5	367.	5.39	6.89	0.32	3.8
37	13.5	71.0	1875.7	2587.6	357.	4.90	6.90	0.32	3.7

AFLUENTE CASMA C

37	13.5	71.0	1875.7	2587.6	357.	4.90	6.90	0.32	3.7
38	10.0	40.0	1886.3	2573.9	356.	3.90	6.90	0.32	3.7
26+ 38	10.0	40.0	2981.0	2369.6	323.	4.37	8.34	0.27	2.8
39	0.0	0.0	3063.8	2309.4	315.	4.38	8.35	0.27	2.7

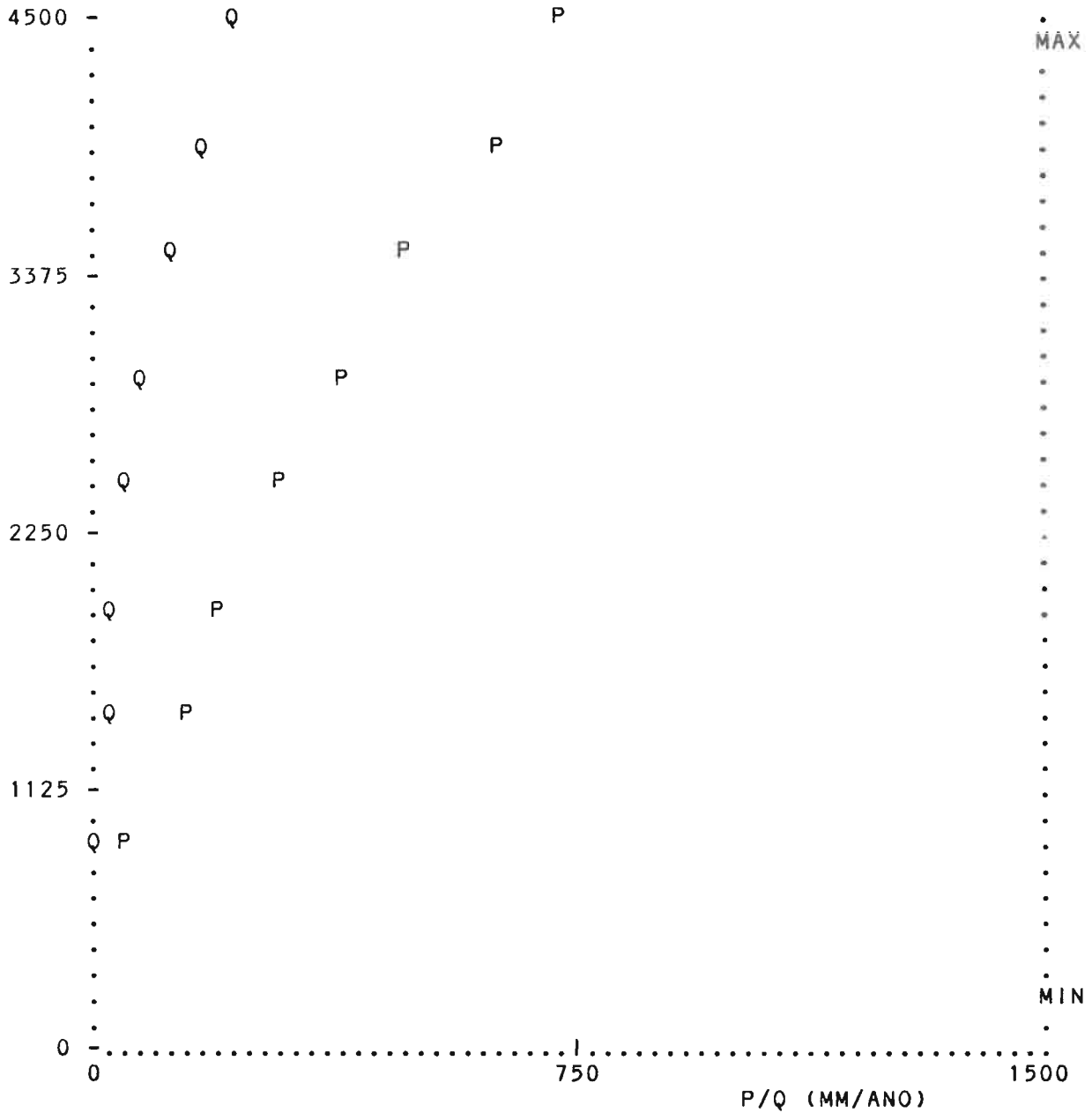
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- RQT = RENDIMIENTO DE TODA LA CUENCA HASTA EL PUNTO

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*****
* CUENCA DEL RIO CULEBRAS : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4480. : AMIN = 231. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	80	140	190	240	280	330	460
P :	20	70	150	220	310	410	520	650	760	850	920	1000
K :	.100	.286	.200	.182	.194	.195	.269	.292	.316	.329	.359	.460

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO CULEBRAS

12/17/78

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

AFLUENTE COTA PUQUIO

1	19.0	3650.0	0.5	3750.0	585.	0.00	0.00	0.28	5.2
2	10.0	1435.0	51.5	2284.4	272.	0.08	0.08	0.19	1.6
3	0.0	750.0	93.5	2042.5	232.	0.13	0.13	0.19	1.4

AFLUENTE ACRAY

4	20.5	3550.0	0.5	3670.0	564.	0.00	0.00	0.28	5.0
5	10.0	1055.0	42.5	1976.2	218.	0.05	0.05	0.19	1.3
6	0.0	575.0	114.5	1392.5	130.	0.10	0.10	0.22	0.9

AFLUENTE CULEBRAS

7	66.0	4430.0	2.0	4480.0	756.	0.02	0.02	0.31	7.5
8	59.0	3200.0	26.0	4018.5	653.	0.16	0.16	0.29	6.1
9	49.0	1495.0	148.0	3265.5	472.	0.52	0.52	0.23	3.5
10	39.0	750.0	210.0	2711.2	371.	0.57	0.57	0.23	2.7
3+ 10	39.0	750.0	303.5	2505.2	329.	0.70	0.70	0.22	2.3
11	34.5	575.0	312.0	2461.2	321.	0.71	0.71	0.22	2.3
6+ 11	34.5	575.0	426.5	2174.3	270.	0.81	0.81	0.22	1.9
12	30.0	437.0	472.5	2064.9	251.	0.51	0.84	0.22	1.8
13	20.0	235.0	555.0	1887.2	223.	0.23	0.89	0.23	1.6
14	10.0	98.0	611.0	1751.4	207.	-0.09	0.90	0.23	1.5
15	0.0	0.0	671.0	1615.4	191.	-0.08	0.91	0.23	1.4

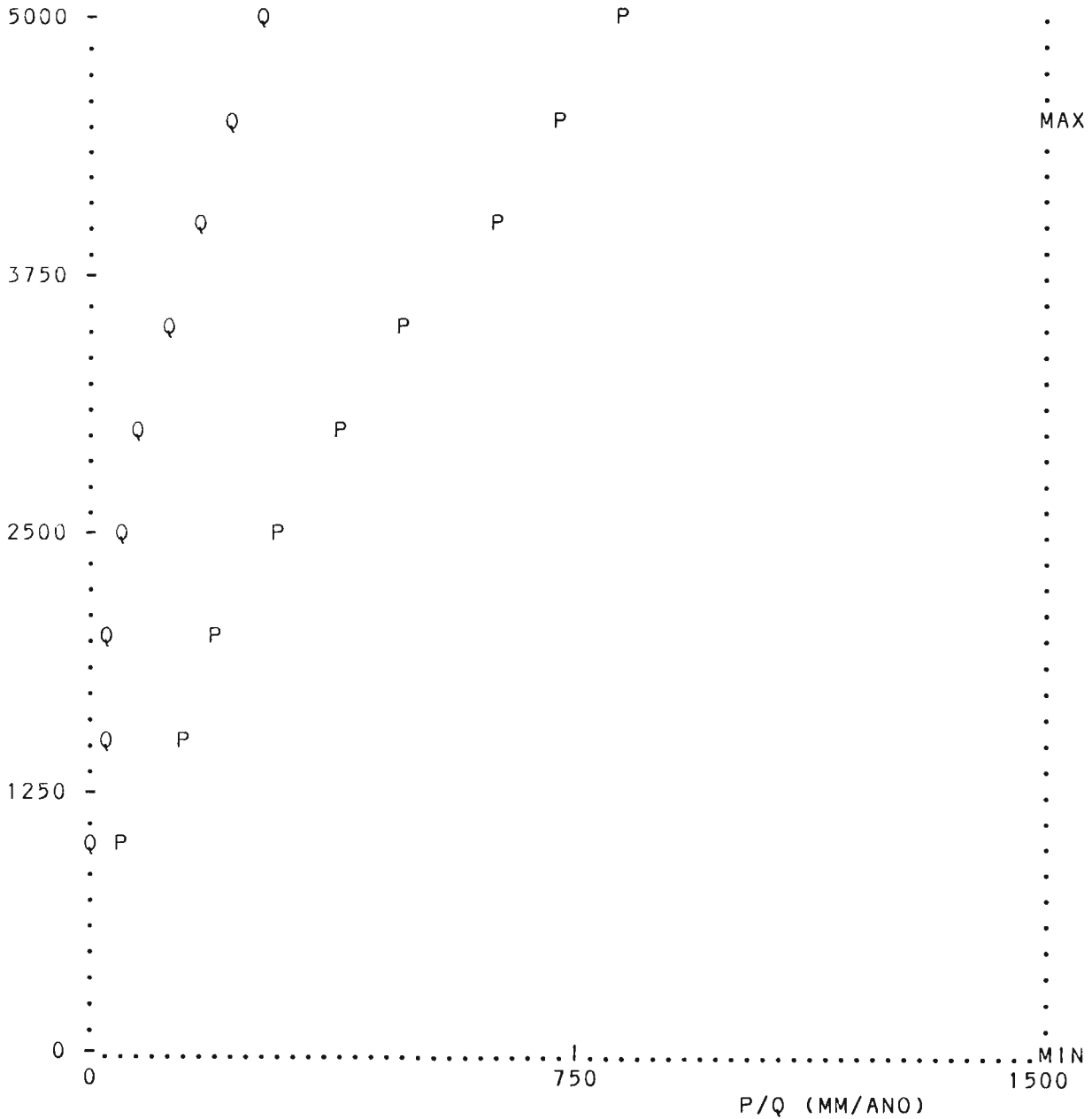
- I = NUMERO DEL PUNTO
- L = KILOMETRAJE
- H = ELEVACION DEL PUNTO
- AA = AREA TOTAL DE LA CUENCA HASTA EL PUNTO
- HM = ALTURA MEDIA DE TODA LA CUENCA HASTA EL PUNTO
- PREC = PRECIPITACION MEDIA SOBRE TODA LA CUENCA HASTA EL PUNTO
- QM = CAUDAL MEDIO EN EL PUNTO
- QN = CAUDAL NATURAL EN EL PUNTO
- CEAT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

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* CUENCA DEL RIO HUARMEY : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4600. : AMIN = 25. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	80	140	190	240	280	330	460
P :	20	70	150	220	310	410	520	650	760	850	920	1000
K :	.100	.286	.200	.182	.194	.195	.269	.292	.316	.329	.359	.460

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

AFLUENTE LA MERCED

1	16.0	4325.0	7.0	4600.0	778.	0.05	0.05	0.29	7.2
2	10.0	3650.0	17.0	4435.9	744.	0.11	0.11	0.29	6.8
3	0.0	2775.0	223.2	4225.4	699.	1.38	1.38	0.28	6.2

AFLUENTE COTAPARACO

4	42.0	4375.0	3.0	4588.0	776.	0.02	0.02	0.29	7.2
5	30.0	3300.0	116.0	4367.8	731.	0.76	0.76	0.28	6.6
6	20.0	2450.0	209.0	4036.4	651.	1.18	1.18	0.27	5.6
7	10.0	1600.0	296.0	3652.4	564.	1.35	1.35	0.25	4.6
8	0.0	850.0	356.0	3407.6	512.	1.43	1.43	0.25	4.0

AFLUENTE MALVAS

9	35.0	4350.0	2.0	4400.0	738.	0.01	0.01	0.29	6.7
10	29.0	3300.0	32.0	4334.4	724.	0.21	0.21	0.28	6.5
11	19.0	1820.0	94.0	3827.6	601.	0.47	0.47	0.26	5.0
12	9.0	850.0	189.5	3340.5	491.	0.68	0.68	0.23	3.6
8+ 12	9.0	850.0	545.5	3384.3	505.	2.11	2.11	0.24	3.9
13	0.0	480.0	626.0	3160.4	462.	2.19	2.19	0.24	3.5

AFLUENTE HUARMEY SUP

14	98.0	4000.0	5.0	4531.0	766.	0.04	0.04	0.29	7.0
15	88.0	3650.0	73.5	4520.7	764.	0.52	0.52	0.29	7.0
16	78.0	2775.0	127.5	4035.5	649.	0.71	0.71	0.27	5.6
3+ 16	78.0	2775.0	350.7	4156.3	681.	2.09	2.09	0.28	6.0
17	65.0	1800.0	644.7	4025.3	651.	3.60	3.60	0.27	5.6
18	55.0	1200.0	824.7	3737.1	586.	3.96	3.96	0.26	4.8
19	45.0	480.0	886.5	3574.1	554.	4.01	4.01	0.26	4.5
20	45.0	480.0	890.7	3560.5	552.	4.01	4.01	0.26	4.5
13+ 20	45.0	480.0	1516.7	3395.4	515.	6.20	6.20	0.25	4.1
21	37.0	300.0	1602.7	3260.7	491.	5.74	6.24	0.25	3.9
22	27.0	150.0	1901.7	2904.2	424.	5.41	6.41	0.25	3.4
23	17.0	100.0	2280.3	2549.7	364.	5.09	6.59	0.25	2.9
24	4.0	30.0	2343.2	2488.2	355.	4.80	6.60	0.25	2.8

AFLUENTE HUARMEY

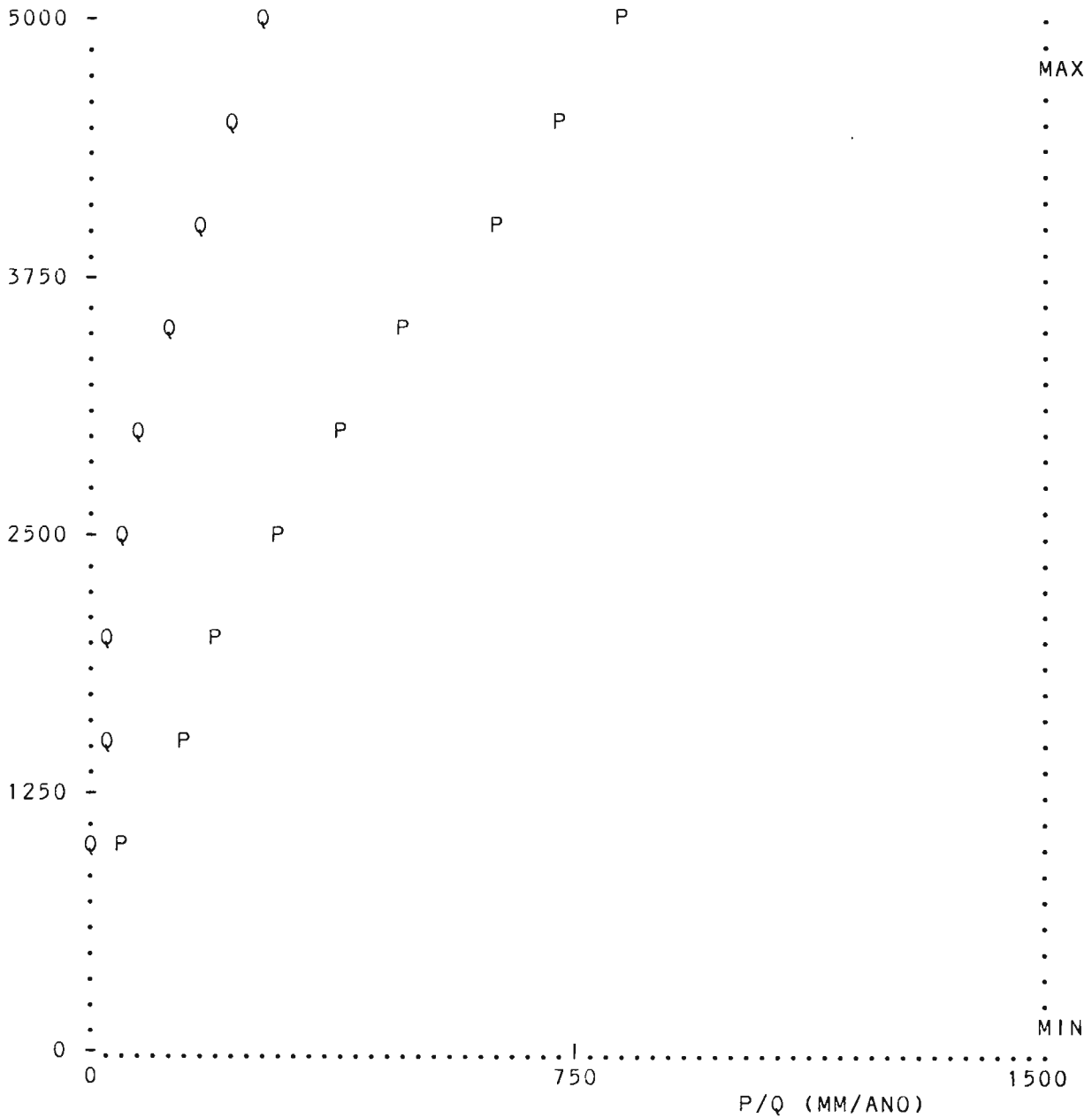
24	4.0	30.0	2343.2	2488.2	355.	4.80	6.60	0.25	2.8
25	0.0	0.0	2353.7	2477.2	353.	4.80	6.60	0.25	2.8

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* CUENCA DEL RIO FORTALEZA : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4787. : AMIN = 218. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	80	140	190	240	280	330	460
P :	20	70	150	220	310	410	520	650	760	850	920	1000
K :	.100	.286	.200	.182	.194	.195	.269	.292	.316	.329	.359	.460

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO FORTALEZA

12/17/78

I	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 MARCA									
1	23.0	4415.0	3.2	4621.0	782.	0.02	0.02	0.26	6.5
2	10.0	2675.0	50.0	4270.0	709.	0.28	0.28	0.25	5.6
3	0.0	1725.0	135.3	3660.4	563.	0.54	0.54	0.22	4.0
AFLUENTE HUAYLLAPAMPA									
4	30.0	4420.0	2.3	4647.0	786.	0.02	0.02	0.26	6.5
5	20.0	3410.0	49.1	4490.7	758.	0.31	0.31	0.26	5.2
6	10.0	2220.0	103.1	4055.6	655.	0.52	0.52	0.24	5.1
7	0.0	1425.0	163.5	3629.4	557.	0.64	0.64	0.22	3.9
AFLUENTE PURISIMA									
8	35.0	4525.0	1.7	4606.0	779.	0.01	0.01	0.26	6.5
9	30.0	4080.0	13.5	4482.8	756.	0.08	0.08	0.26	6.2
10	20.0	2500.0	89.8	3742.1	580.	0.38	0.38	0.23	4.3
11	10.0	1415.0	158.3	3514.4	527.	0.57	0.57	0.22	3.6
12	0.0	710.0	239.8	2971.8	419.	0.65	0.65	0.21	2.7
AFLUENTE HUANCAPAMPA									
13	25.0	2150.0	0.6	2233.0	262.	0.00	0.00	0.19	1.6
14	20.0	1500.0	16.5	1950.7	213.	0.02	0.02	0.18	1.2
15	10.0	622.0	51.2	1556.4	156.	0.05	0.05	0.20	1.0
16	0.0	165.0	75.4	1279.3	124.	0.06	0.06	0.21	0.3



CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO FORTALEZA

12/17/78

I	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 JULQUILLAS

17	60.0	4500.0	0.9	4652.0	789.	0.01	0.01	0.32	8.0
18	50.0	2950.0	51.4	3960.5	639.	0.30	0.30	0.29	5.9
19	40.0	1900.0	117.4	3341.3	494.	0.45	0.45	0.25	3.9
20	30.0	1200.0	225.7	2790.3	379.	0.62	0.62	0.23	2.8
21	20.0	673.0	302.8	2478.5	323.	0.70	0.70	0.23	2.3
22	10.0	285.0	369.8	2232.6	281.	0.25	0.75	0.23	2.0
23	0.0	80.0	452.3	1970.6	241.	0.29	0.79	0.23	1.7

AFLUENTE FORTALEZA A

24	107.0	4710.0	1.1	4787.0	812.	0.01	0.01	0.27	6.8
25	100.0	4150.0	23.4	4622.1	782.	0.15	0.15	0.26	6.5
26	90.0	3235.0	122.9	4377.5	732.	0.73	0.73	0.25	5.9
27	80.0	2590.0	209.6	4097.3	666.	1.09	1.09	0.25	5.2
28	70.0	1725.0	352.1	3733.7	580.	1.47	1.47	0.23	4.2
3+ 28	70.0	1725.0	487.4	3713.4	575.	2.01	2.01	0.23	4.1
29	66.0	1425.0	517.1	3624.9	557.	2.05	2.05	0.22	4.0
7+ 29	66.0	1425.0	680.6	3626.0	557.	2.69	2.69	0.22	4.0
30	59.0	1065.0	906.7	3392.1	505.	3.09	3.09	0.21	3.4
31	49.0	710.0	1054.3	3238.8	472.	3.29	3.29	0.21	3.1
12+ 31	49.0	710.0	1294.1	3189.3	462.	3.94	3.94	0.21	3.0
32	42.0	470.0	1453.4	2998.7	427.	3.07	4.07	0.21	2.8
33	32.0	275.0	1634.5	2828.6	396.	2.60	4.20	0.20	2.6

AFLUENTE FORTALEZA B

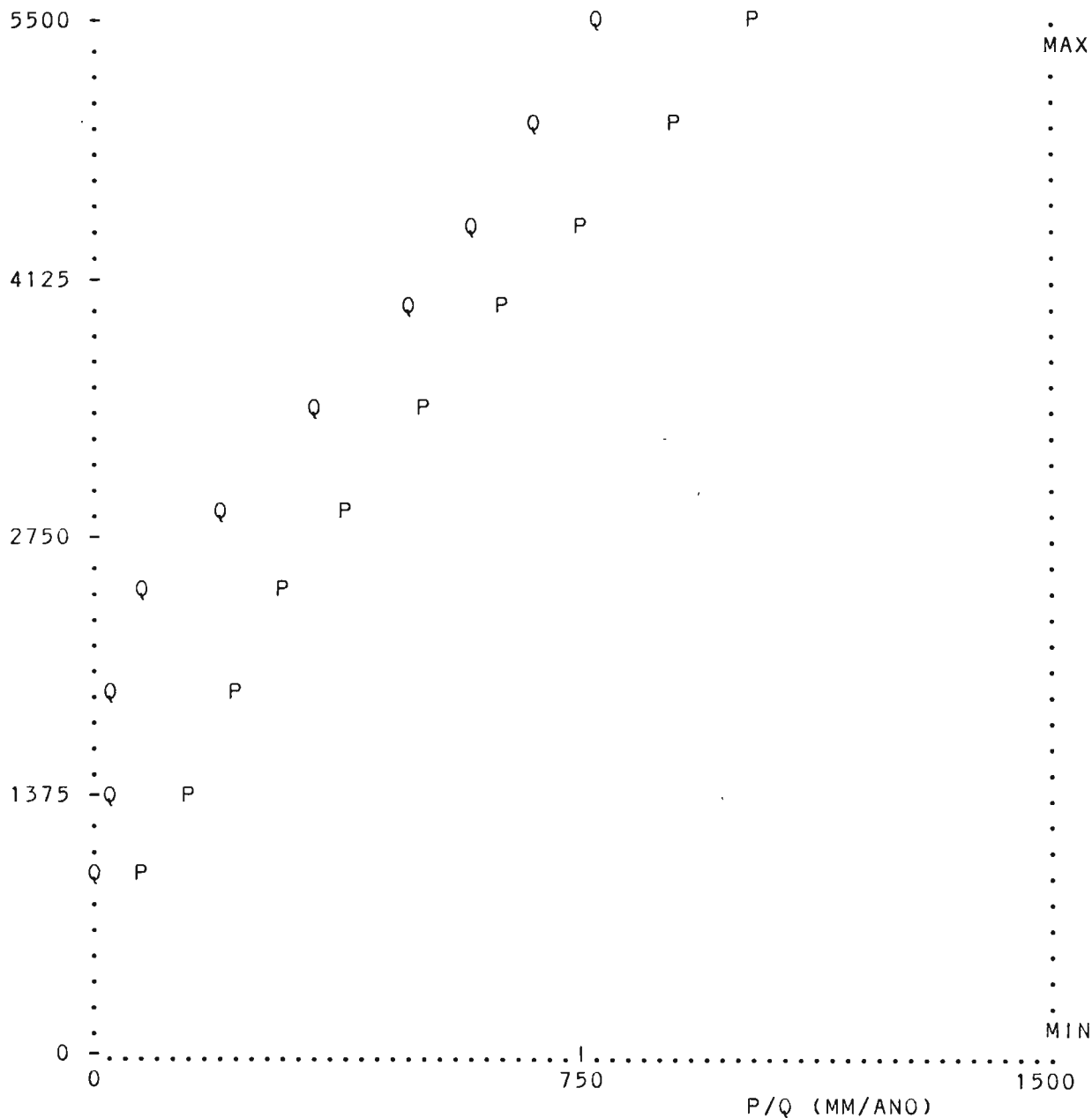
33	32.0	275.0	1634.5	2828.6	396.	2.60	4.20	0.20	2.6
34	24.0	165.0	1685.1	2765.7	386.	2.12	4.22	0.20	2.5
16+ 34	24.0	165.0	1760.5	2702.1	374.	2.19	4.29	0.21	2.4
35	17.0	91.0	1802.2	2653.8	367.	1.70	4.30	0.21	2.4
36	16.0	80.0	1805.1	2649.9	365.	1.20	4.30	0.21	2.4
23+ 36	16.0	80.0	2257.4	2513.8	341.	1.49	5.09	0.21	2.3
37	0.0	0.0	2341.7	2433.8	330.	1.51	5.11	0.21	2.2

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* CUENCA DEL RIO PATIVILCA : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 5451. : AMIN = 248. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	5	20	25	30	80	220	370	500	610	720	810	920
P :	20	80	150	225	310	410	530	650	790	940	1050	1150
K :	.250	.250	.167	.133	.258	.537	.698	.769	.772	.766	.771	.800

I	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 QUERO

1	25.0	4350.0	4.8	4450.0	776.	0.10	0.10	0.81	19.9
2	20.0	3960.0	34.9	4525.9	798.	0.71	0.71	0.81	20.5
3	10.0	3250.0	144.5	4338.6	745.	2.76	2.76	0.81	19.1
4	0.0	2650.0	249.2	4115.3	686.	4.33	4.33	0.80	17.4

AFLUENTE ACHIN

5	22.0	4150.0	15.0	5358.0	1019.	0.39	0.39	0.81	26.1
6	10.0	3550.0	88.4	4931.2	915.	2.06	2.06	0.81	23.4
7	0.0	2775.0	135.0	4531.8	804.	2.75	2.75	0.80	20.4

AFLUENTE LLAMAC

8	29.0	4550.0	2.0	4575.0	812.	0.04	0.04	0.81	20.8
9	22.0	4150.0	22.1	4559.5	808.	0.46	0.46	0.81	20.7
10	12.0	3500.0	96.2	4369.6	754.	1.86	1.86	0.81	19.3
11	2.0	2775.0	141.3	4139.9	694.	2.47	2.47	0.80	17.5
7+ 11	2.0	2775.0	276.3	4331.4	748.	5.22	5.22	0.80	18.9
12	0.0	2645.0	278.9	4321.8	745.	5.25	5.25	0.80	18.8

AFLUENTE YANAYACO

13	19.0	4550.0	1.4	4575.0	812.	0.03	0.03	0.81	20.8
14	10.0	2800.0	32.8	3865.6	619.	0.51	0.51	0.79	15.4
15	0.0	1990.0	108.5	3416.6	510.	1.23	1.23	0.70	11.3

AFLUENTE HUAMPAY

16	16.0	4550.0	0.5	4575.0	812.	0.01	0.01	0.81	20.8
17	10.0	3800.0	38.5	4693.4	848.	0.84	0.84	0.81	21.7
18	0.0	1950.0	78.4	4155.3	703.	1.37	1.37	0.79	17.5

AFLUENTE PUMARINRI

19	30.0	4645.0	0.5	4645.0	833.	0.01	0.01	0.81	21.3
20	20.0	4200.0	65.3	4631.1	829.	1.39	1.39	0.81	21.2
21	10.0	3900.0	137.3	4666.2	840.	2.95	2.95	0.81	21.5
22	0.0	2845.0	182.4	4444.8	779.	3.61	3.61	0.80	19.8

AFLUENTE CUCHICHACA

23	23.0	4620.0	3.4	4755.0	866.	0.08	0.08	0.81	22.1
24	10.0	3000.0	129.7	4030.5	659.	2.18	2.18	0.81	16.8
25	0.0	1890.0	167.0	3851.0	615.	2.54	2.54	0.78	15.2

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO PATIVILCA

12/17/78

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

AFLUENTE RAPAY

26	38.0	4600.0	6.1	5451.0	1039.	0.16	0.16	0.81	26.6
27	33.0	4000.0	47.7	5096.0	961.	1.17	1.17	0.80	24.5
28	23.0	2845.0	173.4	4953.2	924.	4.09	4.09	0.80	23.6
22+ 28	23.0	2845.0	355.8	4692.6	850.	7.70	7.70	0.80	21.6
29	13.0	1890.0	417.9	4450.1	787.	8.19	8.19	0.79	19.6
25+ 29	13.0	1890.0	584.9	4279.1	738.	10.73	10.73	0.78	18.3
30	0.0	1375.0	717.7	4023.2	673.	11.57	11.57	0.76	16.1

AFLUENTE GORGOR

31	45.0	4600.0	0.5	4700.0	850.	0.01	0.01	0.81	21.7
32	40.0	4150.0	35.6	4674.4	842.	0.77	0.77	0.81	21.6
33	30.0	3700.0	135.1	4554.0	806.	2.79	2.79	0.81	20.7
34	20.0	3025.0	283.6	4230.9	716.	5.18	5.18	0.80	18.3
35	10.0	2080.0	431.4	3973.7	651.	6.97	6.97	0.78	16.2
36	0.0	1190.0	559.0	3702.3	586.	7.65	7.65	0.74	13.7

AFLUENTE GUERRORAGRA

37	23.0	4725.0	1.3	4725.0	857.	0.03	0.03	0.81	21.9
38	10.0	1750.0	45.4	3247.6	470.	0.44	0.44	0.65	9.7
39	0.0	840.0	83.4	2526.5	336.	0.47	0.47	0.53	5.7

AFLUENTE LLATO

40	27.0	4700.0	2.2	4700.0	850.	0.05	0.05	0.81	21.7
41	20.0	3600.0	26.8	4120.8	684.	0.47	0.47	0.81	17.5
42	10.0	2750.0	109.0	3710.7	582.	1.53	1.53	0.76	14.1
43	0.0	1175.0	158.0	3280.3	488.	1.64	1.64	0.67	10.4

AFLUENTE OCROS

44	50.0	4550.0	5.2	4735.0	861.	0.11	0.11	0.81	22.0
45	38.0	3950.0	73.7	4597.4	819.	1.55	1.55	0.81	21.0
46	28.0	3100.0	182.0	4520.4	797.	3.72	3.72	0.81	20.4
47	18.0	2000.0	233.6	4256.4	728.	4.26	4.26	0.79	18.2
48	8.0	1175.0	273.9	3913.3	653.	4.30	4.30	0.76	15.7
43+ 48	8.0	1175.0	431.9	3681.8	592.	5.94	5.94	0.73	13.7
49	0.0	655.0	476.0	3490.7	553.	5.98	5.98	0.72	12.6

I	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 PATIVILCASUP

50	167.0	4680.0	0.7	4922.0	917.	0.02	0.02	0.80	23.4
51	160.0	4140.0	62.2	4716.3	855.	1.36	1.36	0.81	21.9
52	150.0	3925.0	177.5	4662.9	839.	3.81	3.81	0.81	21.5
53	140.0	3500.0	310.4	4625.2	828.	6.58	6.58	0.81	21.2
54	130.0	3050.0	407.7	4493.9	790.	8.25	8.25	0.81	20.2
55	120.0	2650.0	489.9	4341.7	750.	9.32	9.32	0.80	19.0
4+ 55	120.0	2650.0	739.1	4265.4	728.	13.65	13.65	0.80	18.5
56	119.0	2645.0	742.7	4259.6	727.	13.68	13.68	0.80	18.4
12+ 56	119.0	2645.0	1021.6	4276.6	732.	18.92	18.92	0.80	18.5
57	114.0	2455.0	1053.0	4245.6	724.	19.23	19.23	0.80	18.3
58	104.0	1990.0	1094.7	4186.8	710.	19.42	19.42	0.79	17.7
15+ 58	104.0	1990.0	1203.2	4117.3	692.	20.64	20.64	0.78	17.2
59	103.0	1950.0	1206.7	4112.0	691.	20.65	20.65	0.78	17.1
18+ 59	103.0	1950.0	1285.1	4114.7	691.	22.02	22.02	0.78	17.1
60	93.0	1690.0	1443.8	4014.8	666.	23.51	23.51	0.77	16.3
61	83.0	1375.0	1559.9	3889.5	637.	23.75	23.75	0.75	15.2
30+ 61	83.0	1375.0	2277.6	3931.6	649.	35.33	35.33	0.75	15.5
62	76.0	1190.0	2339.1	3889.1	639.	35.45	35.45	0.75	15.2
36+ 62	76.0	1190.0	2898.1	3853.1	629.	43.10	43.10	0.75	14.9
63	66.0	1020.0	2996.0	3816.3	620.	43.57	43.57	0.74	14.5
64	56.0	840.0	3213.0	3752.2	604.	44.89	44.89	0.73	14.0
39+ 64	56.0	840.0	3296.4	3721.1	597.	45.36	45.36	0.73	13.8
65	45.0	655.0	3416.4	3663.9	584.	42.02	45.52	0.72	13.3
49+ 65	45.0	655.0	3892.4	3642.7	581.	47.99	51.49	0.72	13.2
66	35.0	480.0	3963.8	3615.8	575.	48.10	51.60	0.71	13.0

AFLUENTE PATIVILCAINF

66	35.0	480.0	3963.8	3615.8	575.	48.10	51.60	0.71	13.0
67	33.0	450.0	3977.7	3606.9	573.	47.11	51.61	0.71	13.0
68	20.0	290.0	4147.9	3508.7	554.	47.23	51.73	0.71	12.5
69	10.0	130.0	4460.4	3361.8	525.	47.47	51.97	0.70	11.7
70	0.0	0.0	4908.4	3077.6	480.	47.59	52.09	0.70	10.6

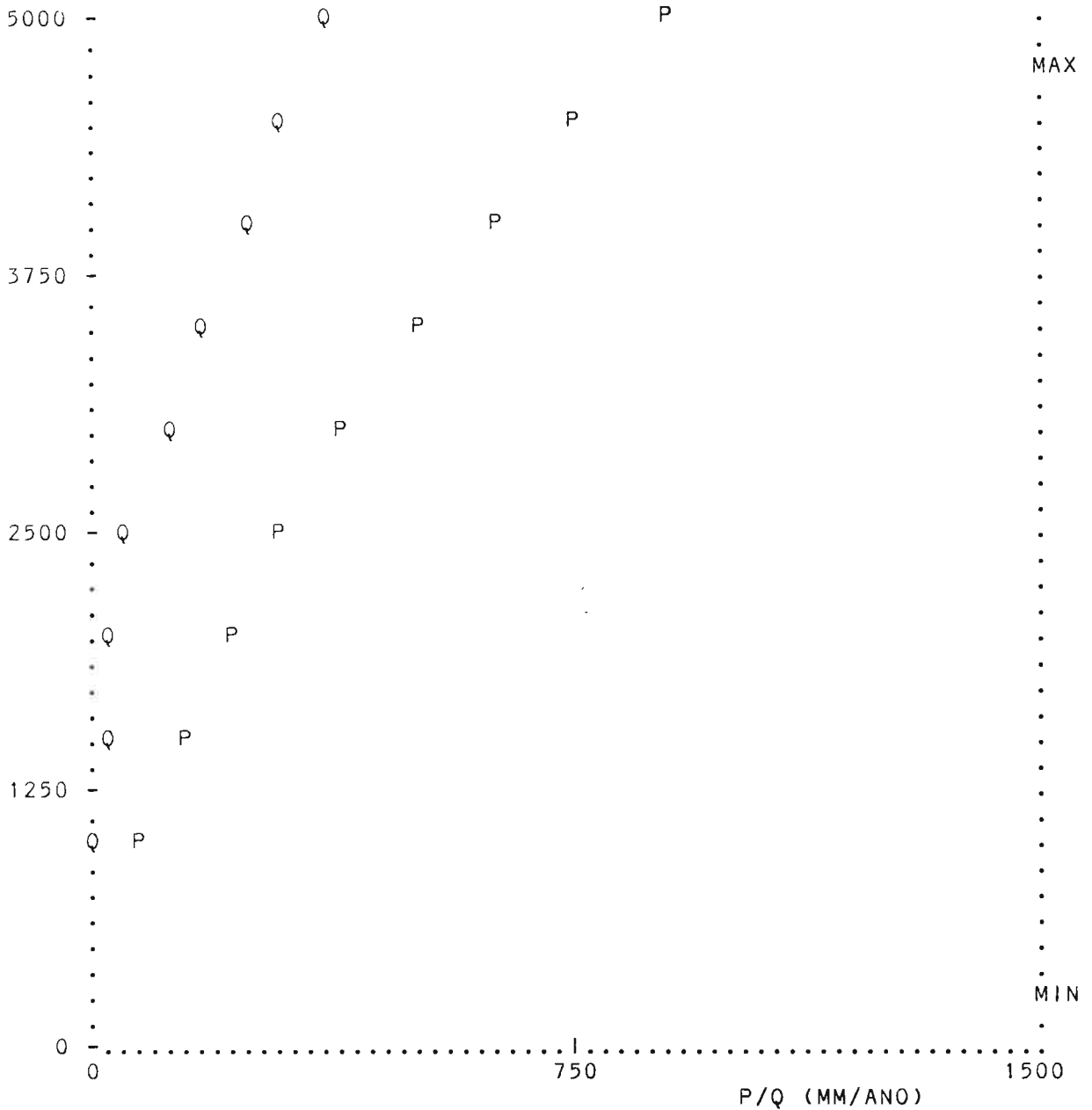
- I = NUMERO DEL PUNTO
- L = KILOMETRAJE
- H = ELEVACION DEL PUNTO
- AA = AREA TOTAL DE LA CUENCA HASTA EL PUNTO
- HM = ALTURA MEDIA DE TODA LA CUENCA HASTA EL PUNTO
- PREC = PRECIPITACION MEDIA SOBRE TODA LA CUENCA HASTA EL PUNTO
- QM = CAUDAL MEDIO EN EL PUNTO
- QN = CAUDAL NATURAL EN EL PUNTO
- CEAT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

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* CUENCA DEL RIO SUPE : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4833. : AMIN = 252. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	2	20	30	40	60	130	190	250	320	390	440	500
P :	20	80	150	225	310	410	530	650	790	940	1050	1150
K :	.100	.250	.200	.178	.194	.317	.358	.385	.405	.415	.419	.435

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

AFLUENTE AYNACA

1	23.0	4550.0	1.3	4776.0	873.	0.01	0.01	0.40	11.1
2	10.0	1950.0	135.8	3580.6	550.	0.84	0.84	0.36	6.2
3	0.0	1150.0	212.5	3187.3	463.	0.99	0.99	0.32	4.6

AFLUENTE SUPESUPERIOR

4	91.0	4700.0	1.6	4833.0	390.	0.02	0.02	0.40	11.4
5	80.0	4050.0	13.9	4515.3	795.	0.14	0.14	0.40	10.0
6	70.0	2850.0	140.4	4223.1	713.	1.23	1.23	0.39	8.7
7	60.0	1820.0	244.1	3889.6	629.	1.81	1.81	0.37	7.4
8	50.0	1150.0	326.6	3536.3	548.	1.97	1.97	0.35	6.0
3+ 8	50.0	1150.0	539.1	3398.7	514.	2.95	2.95	0.34	5.5
9	45.0	980.0	610.4	3163.2	470.	2.76	3.01	0.33	4.9
10	35.0	600.0	742.5	2872.9	414.	2.29	3.14	0.32	4.2
11	25.0	380.0	852.2	2615.2	370.	1.35	3.20	0.32	3.8
12	15.0	210.0	962.8	2392.6	334.	1.40	3.25	0.32	3.4

AFLUENTE SUPEINFERIOR

12	15.0	210.0	962.8	2392.6	334.	1.40	3.25	0.32	3.4
13	10.0	120.0	1022.0	2269.5	317.	1.41	3.26	0.32	3.2
14	0.0	0.0	1078.0	2164.7	302.	1.42	3.27	0.32	3.0

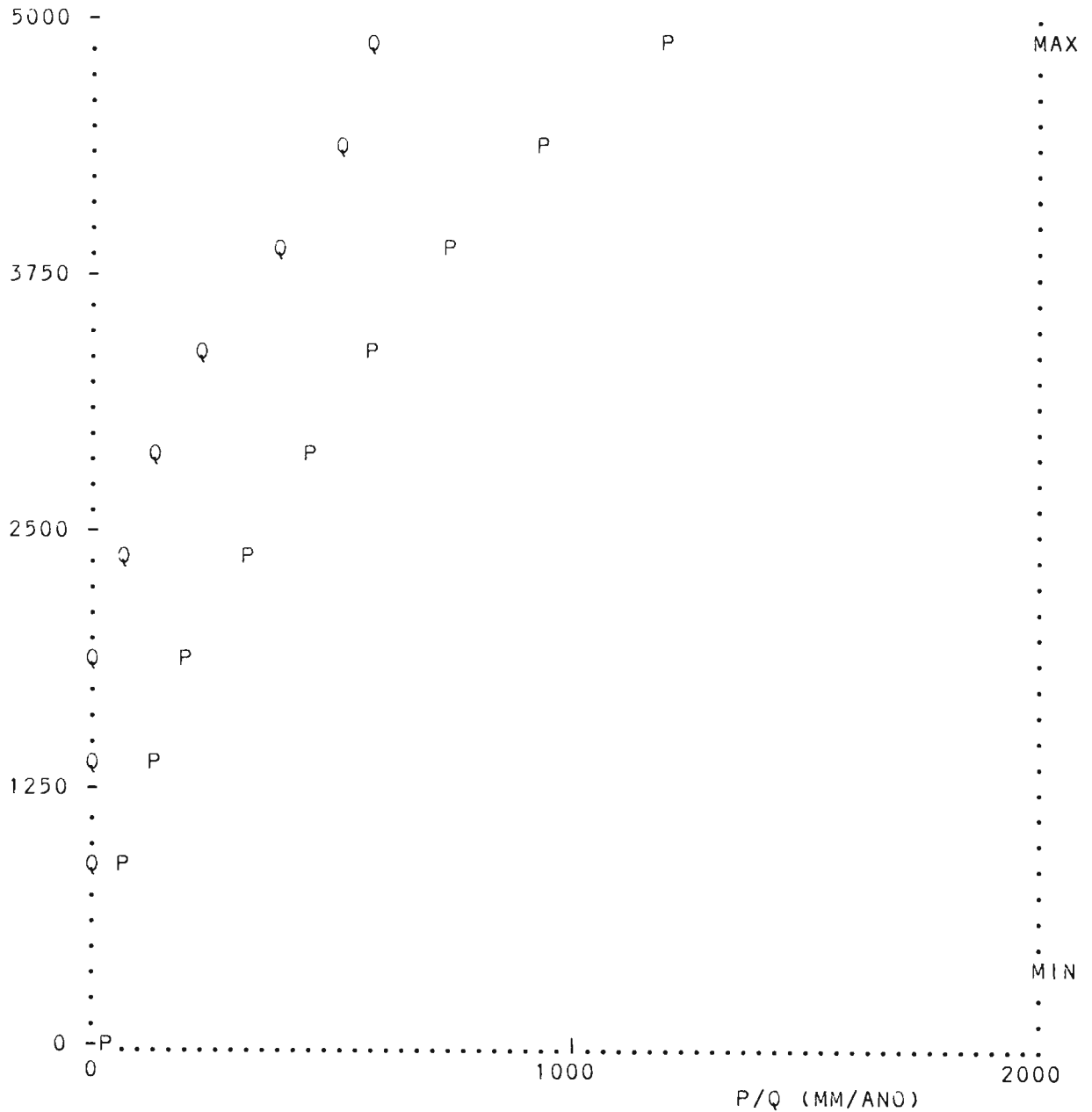
- I = NUMERO DEL PUNTO
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- RQT = RENDIMIENTO DE TODA LA CUENCA HASTA EL PUNTO

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* CUENCA DEL RIO HUAURA : REGIMEN # 1 *
* CURVAS ENTRE PRECIPITACION (P) / ESCURRIMIENTO (E) VS ALTURA (A) *
* AMAX = 4956. : AMIN = 391. *
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ALTURA (M.S.N.M.)



A :	0	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500	5999
Q :	5	20	25	30	70	144	259	401	534	610	705	800
P :	40	85	150	230	340	480	630	800	1000	1250	1370	1500
K :	.125	.235	.167	.130	.206	.300	.411	.501	.534	.488	.515	.533



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

AFLUENTE PATON SUPER.

1	9.0	4325.0	9.8	4775.0	1137.	0.85	0.25	0.70	25.1
2	5.0	4065.0	40.6	4700.7	1100.	1.60	1.00	0.71	24.6

AFLUENTE PATON INFER.

2	5.0	4065.0	40.6	4700.7	1100.	1.60	1.00	0.71	24.6
3	0.0	3650.0	77.2	4661.5	1081.	2.21	1.61	0.61	20.8

AFLUENTE PANPAHUAY

4	19.0	4535.0	5.2	4956.0	1228.	0.09	0.09	0.46	18.1
5	15.0	4130.0	16.9	4795.4	1148.	0.29	0.29	0.48	17.4
6	5.0	4065.0	75.0	4681.2	1091.	1.26	1.26	0.49	16.8
3+ 6	5.0	4065.0	152.2	4671.2	1086.	3.47	2.87	0.55	18.9
7	0.0	3370.0	196.3	4544.9	1031.	4.04	3.44	0.54	17.5

AFLUENTE COCHAQUILLOS

8	14.0	4625.0	2.9	4919.0	1209.	0.06	0.06	0.58	22.2
9	7.0	4200.0	30.8	4780.4	1140.	0.66	0.66	0.59	21.4

AFLUENTE COCHAQUILLOI

9	7.0	4200.0	30.8	4780.4	1140.	0.66	0.66	0.59	21.4
10	0.0	3465.0	90.9	4583.1	1043.	1.61	1.61	0.54	17.8

AFLUENTE CHECRAS SUP.

11	50.0	4815.0	0.7	4888.0	1194.	0.01	0.01	0.47	17.8
12	38.0	4220.0	82.4	4793.8	1147.	1.43	1.43	0.48	17.4
13	28.0	3465.0	237.3	4624.9	1062.	3.94	3.94	0.49	16.6
10+ 13	28.0	3465.0	328.2	4613.3	1057.	5.55	5.55	0.50	16.9
14	21.0	3010.0	390.8	4545.2	1028.	6.40	6.40	0.50	16.4
15	10.0	2480.0	639.7	4410.5	970.	9.79	9.79	0.50	15.3
16	0.0	2125.0	779.5	4318.6	933.	11.35	11.35	0.49	14.6

CARACTERISTICAS HIDROLOGICAS DE LOS PUNTOS DEL RIO HUAURA

12/17/78

I	L	H	AA	HM	PREC	QM	QN	CEAT	RQT
	KM	M	<sup>2</sup> KM	M	MM	<sup>3</sup> M /S	<sup>3</sup> M /S	(-)	<sup>2</sup> L/S/KM
=====									
AFLUENTE YARUCAYA									
=====									
17	32.0	4730.0	0.9	4891.0	1195.	0.02	0.02	0.47	17.8
18	20.0	3280.0	46.1	4546.9	1023.	0.75	0.75	0.50	16.2
19	10.0	2245.0	174.5	4189.4	877.	2.35	2.35	0.49	13.5
20	0.0	1175.0	242.3	3916.4	784.	2.75	2.75	0.46	11.3
=====									
AFLUENTE IHUARI									
=====									
21	27.0	4640.0	1.7	4763.0	1131.	0.02	0.02	0.29	10.6
22	20.0	3575.0	32.2	4375.6	952.	0.30	0.30	0.30	9.2
23	10.0	2550.0	69.5	3853.1	763.	0.46	0.46	0.27	6.6
24	0.0	1700.0	151.8	3506.6	644.	0.75	0.75	0.24	4.9
=====									
AFLUENTE HUANANQUE SU									
=====									
25	51.0	4600.0	5.5	4816.0	1158.	0.06	0.06	0.29	10.7
26	41.0	3590.0	87.0	4793.5	1147.	0.93	0.93	0.29	10.6
27	31.0	2500.0	210.8	4483.7	1006.	2.00	2.00	0.30	9.5
28	21.0	1700.0	274.8	4127.9	880.	2.16	2.16	0.28	7.9
24+ 28	21.0	1700.0	426.6	3906.8	796.	2.91	2.91	0.27	6.8
29	20.0	1625.0	433.7	3880.4	788.	2.42	2.92	0.27	6.7
30	10.0	1095.0	538.5	3599.9	693.	2.04	3.04	0.26	5.7
31	1.0	715.0	851.6	2902.5	509.	2.20	3.20	0.23	3.8
=====									
AFLUENTE HUANANQUE IN									
=====									
31	1.0	715.0	851.6	2902.5	509.	2.20	3.20	0.23	3.8
32	0.0	665.0	839.1	2824.6	491.	2.22	3.22	0.23	3.6
=====									
AFLUENTE HUAURA A									
=====									
33	158.0	4700.0	1.8	4950.0	1225.	0.03	0.03	0.42	16.4
34	145.0	4357.0	51.6	4833.4	1192.	0.83	0.83	0.43	16.1
=====									