

```

*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 9 *
* # DE PUNTOS : 42 *
* DEL RIO ACARI , CODIGO 140 * # DE ESTACIONES HIDROMETRICAS : 3 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 YAURIHUIRI 1 3 110.6 4170.3 671.1 20.0 0.28 5.11 0.18 *
* 2 JOCHANGAY 4 6 268.9 3870.5 623.3 23.0 0.51 7.92 0.09 *
* 3 SNPEDRO SUP. 7 9 166.0 4262.1 686.7 20.0 0.41 3.72 0.12 *
* 4 SNPEDRO INF. 9 11 74.4 3517.7 541.6 18.0 0.23 6.98 0.24 *
* 5 CHONTAY 12 14 247.0 3952.7 639.6 17.0 0.85 5.55 0.07 *
* 6 IRURO A 15 20 487.1 4097.5 662.1 43.0 0.26 5.16 0.09 *
* 7 IRURO B 20 23 333.9 3643.7 575.8 27.0 0.46 10.91 0.08 *
* 8 ACARI A 24 40 2229.9 2502.6 320.3 146.0 0.10 12.23 0.07 *
* 9 ACARI B 40 42 164.0 360.7 38.0 25.0 0.26 1.90 0.15 *
*****

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*****
* CARACTERISTICAS DE LA CUENCA 4081.8 3013.3 438.4 339.0 0.04 8.64 0.08 *
*****

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 6 *
* # DE PUNTOS : 42 *
* DEL RIO YAUCA , CODIGO 141 * # DE ESTACIONES HIDROMETRICAS : 2 *
*****
* TRAMO * PUNTOS * AREA ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 PARARIMAYO 1 7 600.9 3296.7 483.6 55.0 0.20 7.89 0.09 *
* 2 LANGUIRE 8 14 520.2 2841.7 378.4 62.0 0.14 7.62 0.12 *
* 3 ACAVILLE 15 21 679.3 2606.0 326.9 63.0 0.17 8.80 0.09 *
* 4 YAUCA A 22 35 1982.2 3247.2 480.7 125.0 0.13 10.67 0.06 *
* 5 YAUCA B 35 39 292.9 1625.9 146.3 27.0 0.40 17.73 0.09 *
* 6 YAUCA C 39 42 513.6 995.7 77.2 25.0 0.82 10.56 0.05 *
*****

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*****
* CARACTERISTICAS DE LA CUENCA 4589.1 2757.3 380.2 357.0 0.04 9.91 0.08 *
*****

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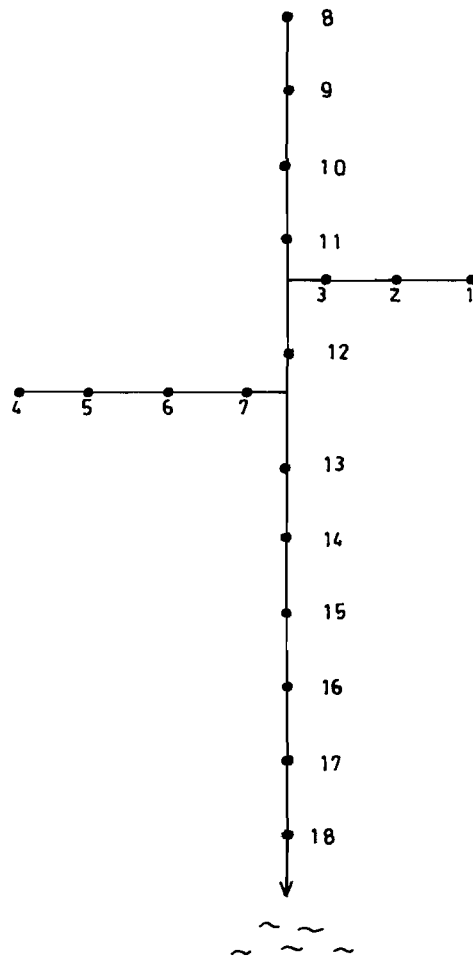
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* # DE PUNTOS : 20 *
* DEL RIO CHALA , CODIGO 142 * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * AREA ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 HUICHO 1 3 88.7 3316.2 447.1 22.0 0.18 11.14 0.25 *
* 2 HUANUHUANU 4 7 181.2 3061.6 385.4 30.0 0.20 13.42 0.17 *
* 3 SAN ANDRES 8 11 268.0 2383.7 253.8 34.0 0.23 8.84 0.13 *
* 4 CHALA 12 20 746.1 1572.3 164.8 75.0 0.13 6.56 0.10 *
*****

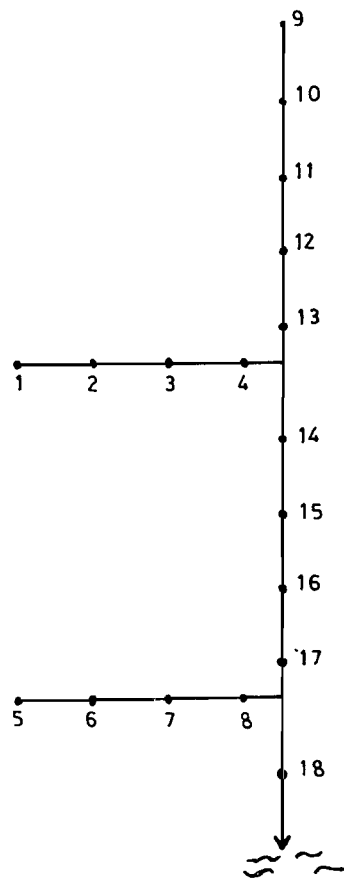
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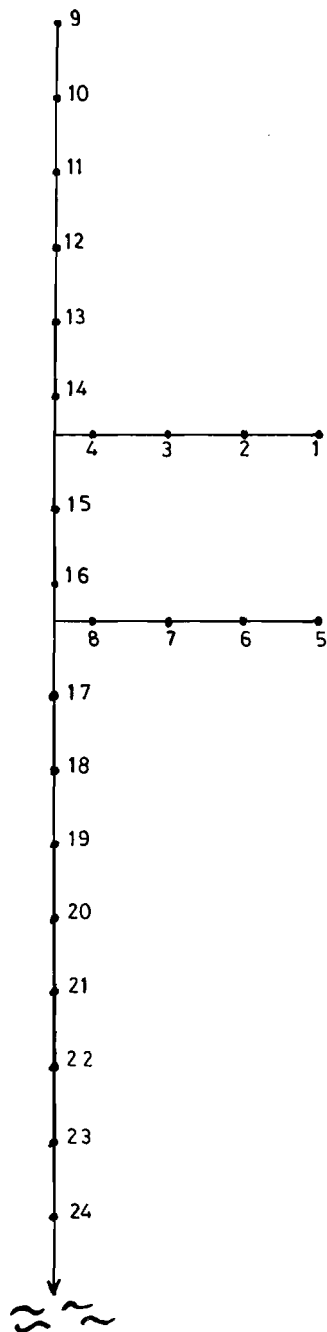
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*****
* CARACTERISTICAS DE LA CUENCA 1284.0 2072.3 234.0 161.0 0.05 8.95 0.13 *
*****

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EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL:

CARAVELI 145

FLOW DIAGRAM:

Fig. 50

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 3 *
* # DE PUNTOS : 18 *
* DEL RIO CHAPARRA , CODIGO 143 * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 VIUCO 1 3 82.5 3211.4 408.9 20.0 0.21 5.16 0.24 *
* 2 PUICUTO 4 7 281.5 3733.0 540.0 30.0 0.31 8.06 0.11 *
* 3 CHAPARRA 8 18 1022.9 2478.0 268.7 91.0 0.12 11.26 0.09 *
*

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*****
* CARACTERISTICAS DE LA CUENCA 1386.9 2776.3 332.1 141.0 0.07 9.71 0.10 *
*****

```

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 3 *
* # DE PUNTOS : 18 *
* DEL RIO ATICO , CODIGO 144 * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 HUINLLO 1 4 309.5 2915.3 343.7 32.0 0.30 7.22 0.10 *
* 2 BANDURRIAS 5 8 104.0 1585.9 118.8 29.0 0.12 4.48 0.28 *
* 3 ATICO 9 18 1011.5 2098.9 200.9 90.0 0.12 7.96 0.09 *
*

```

```

*****
* CARACTERISTICAS DE LA CUENCA 1425.0 2238.7 225.9 151.0 0.06 7.13 0.11 *
*****

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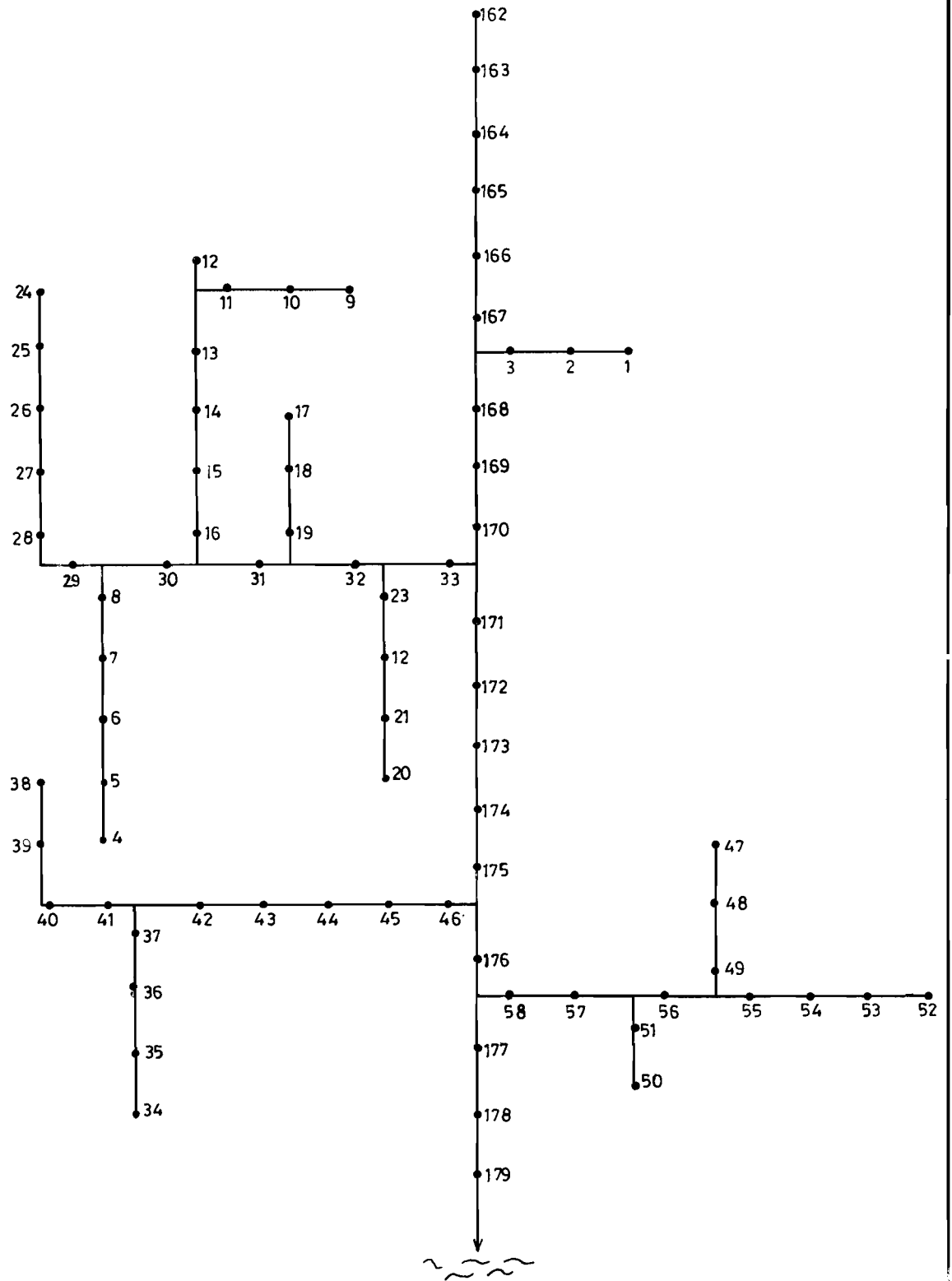
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 3 *
* # DE PUNTOS : 24 *
* DEL RIO CARAVELI , CODIGO 145 * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 GRND OCURURO 1 4 130.9 3278.9 424.3 28.0 0.17 4.01 0.21 *
* 2 CHUICANE 5 8 204.7 2937.5 351.8 28.0 0.26 7.96 0.14 *
* 3 CARAVELI 9 24 1673.2 2404.6 267.7 140.0 0.09 6.77 0.08 *
*

```

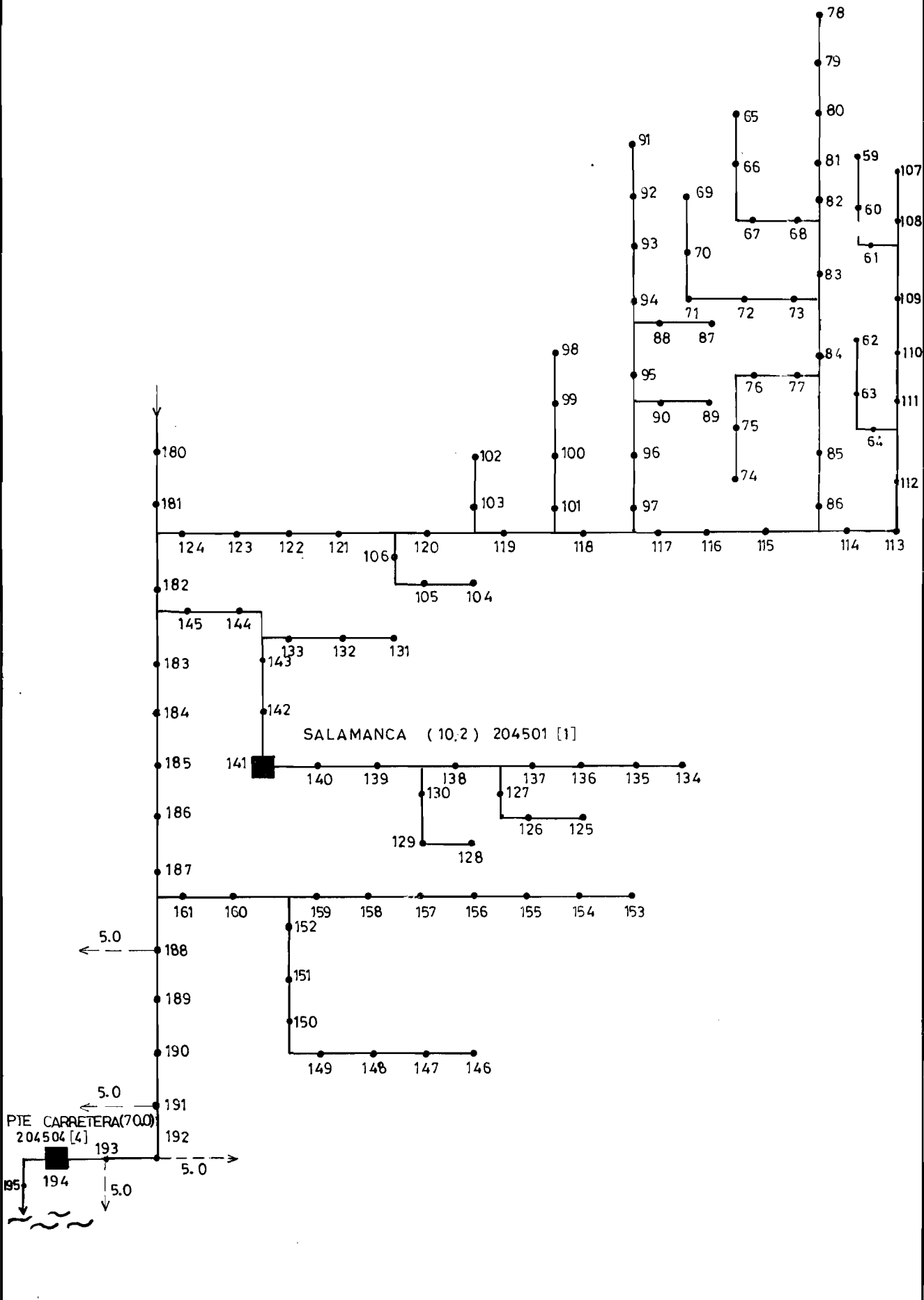
```

*****
* CARACTERISTICAS DE LA CUENCA 2008.8 2515.9 286.5 196.0 0.05 6.55 0.10 *
*****

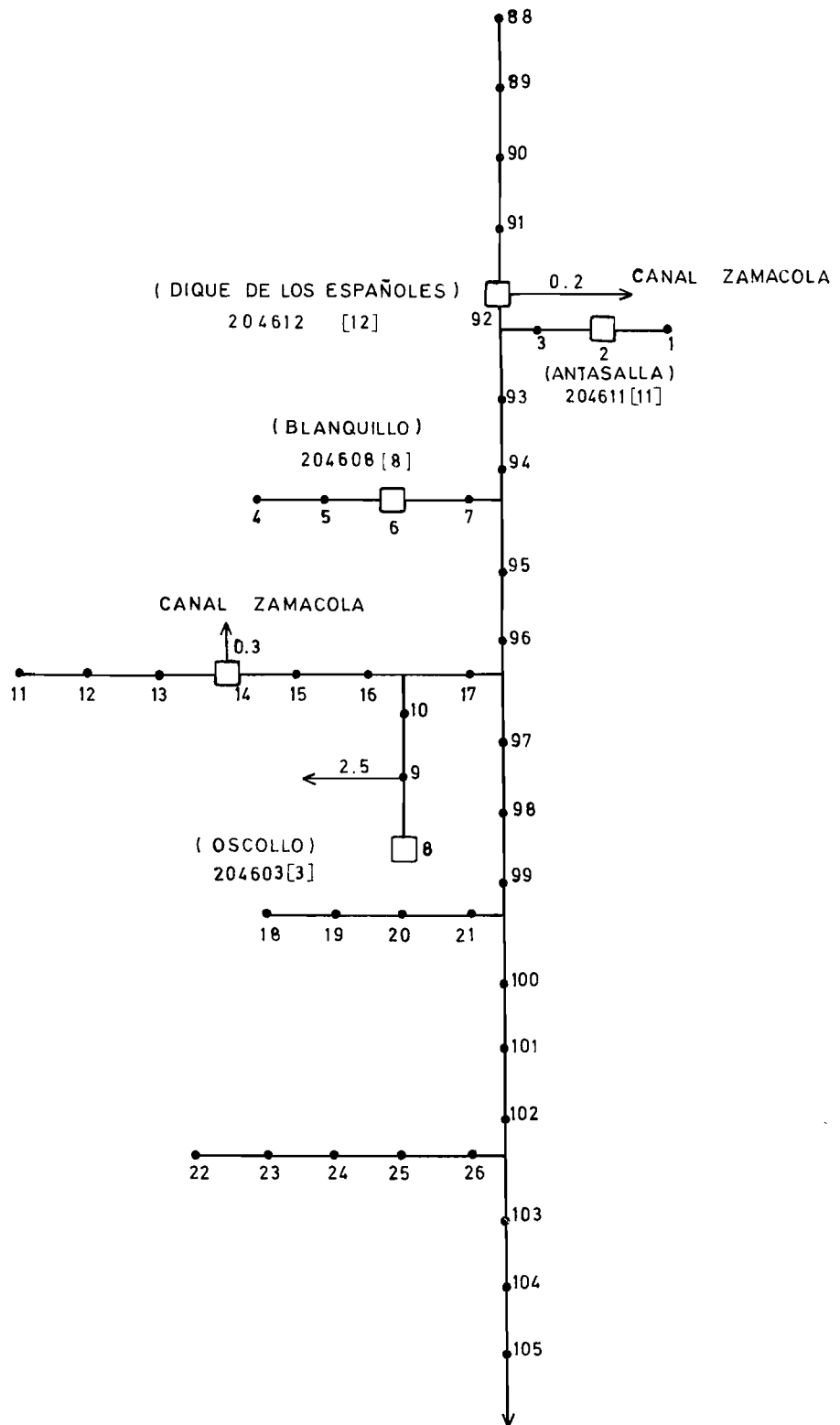
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EVALUACION DEL POTENCIAL HIDROELECTRICO NACIONAL	DIAGRAMA FLUVIAL : OCOÑA 146 (1/2) FLOW DIAGRAM :	Fig. 51
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EVALUACION DEL POTENCIAL HIDROELECTRICO NACIONAL	DIAGRAMA FLUVIAL : <p style="text-align: center;">OCOÑA 146 (2/2)</p> FLOW DIAGRAM :	<p style="text-align: center;">Fig. 52</p>
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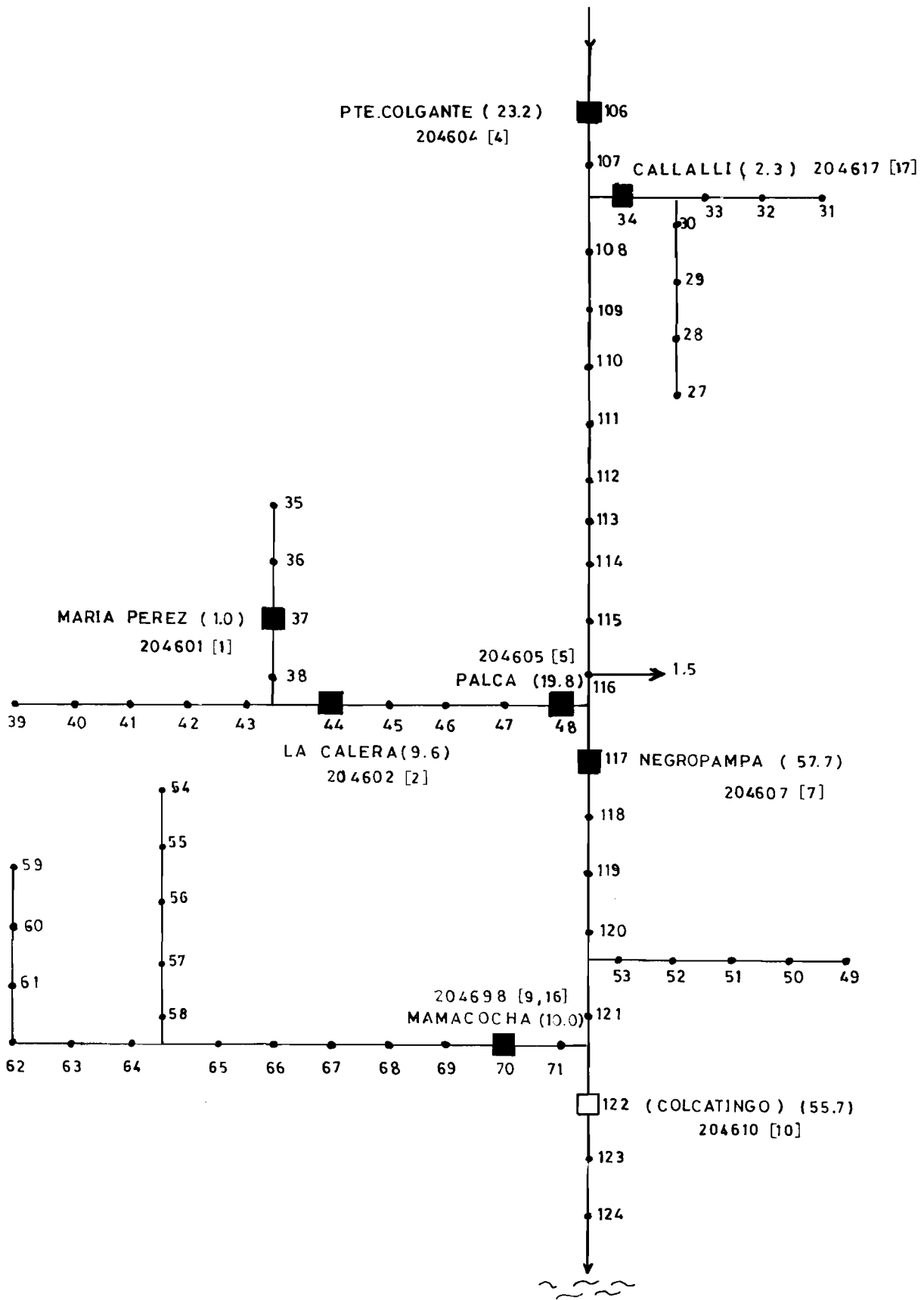
EVALUACION DEL
POTENCIAL
HIDROELECTRICO
NACIONAL

DIAGRAMA FLUVIAL:

MAJES 147 (1/3)

FLOW DIAGRAM :

Fig. 53



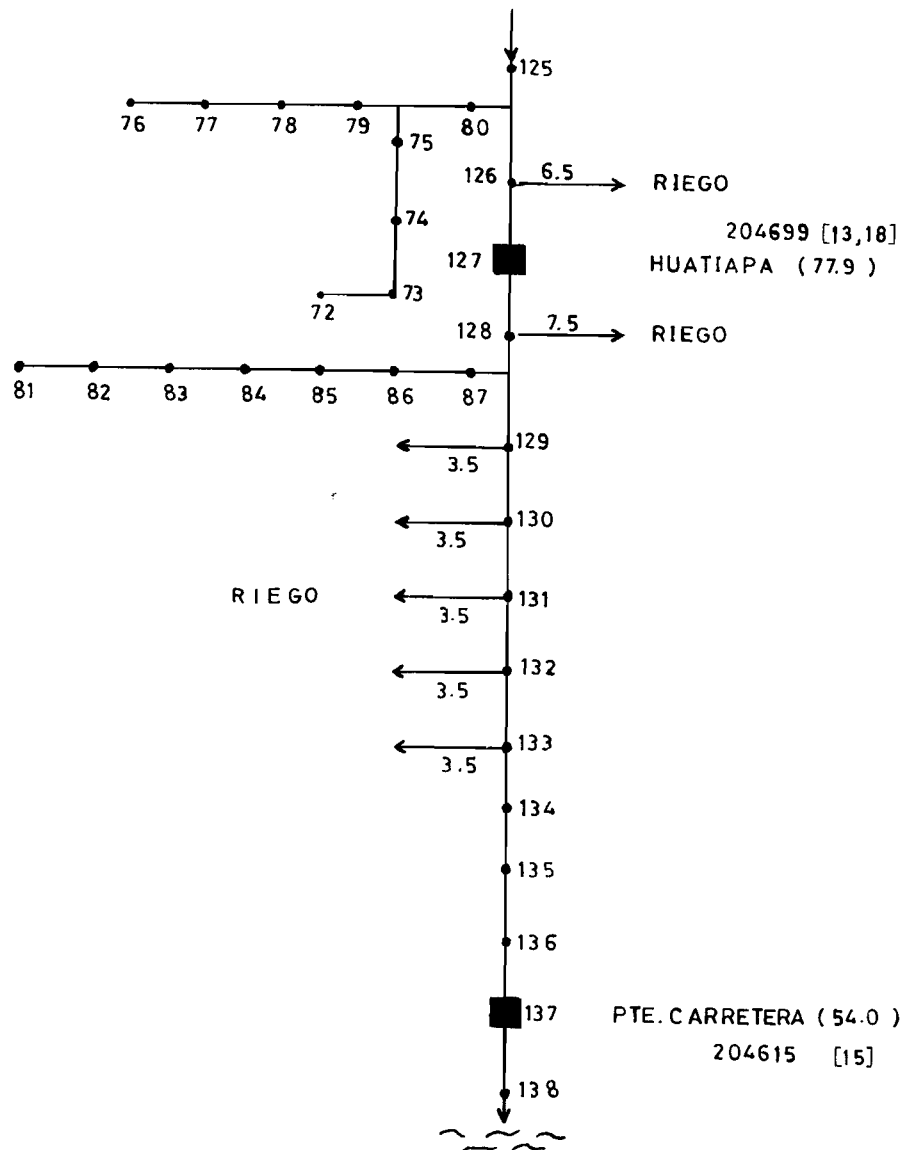
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL:

MAJES 147 (2/3)

FLOW DIAGRAM:

Fig. 54



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :
 MAJES 147 (3/3)
 FLOW DIAGRAM :

Fig. 55

* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *										# DE TRAMOS : 34 *
										# DE PUNTOS : 195 *
* DEL RIO OCONA , CODIGO 146 *										# DE ESTACIONES HIDROMETRICAS : 2 *

TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD		
CODIGO	NOMBRE	DE A	(KM*KM)	(METROS)	(MM/ANO)	(KM)	(%)	(1/KM)		

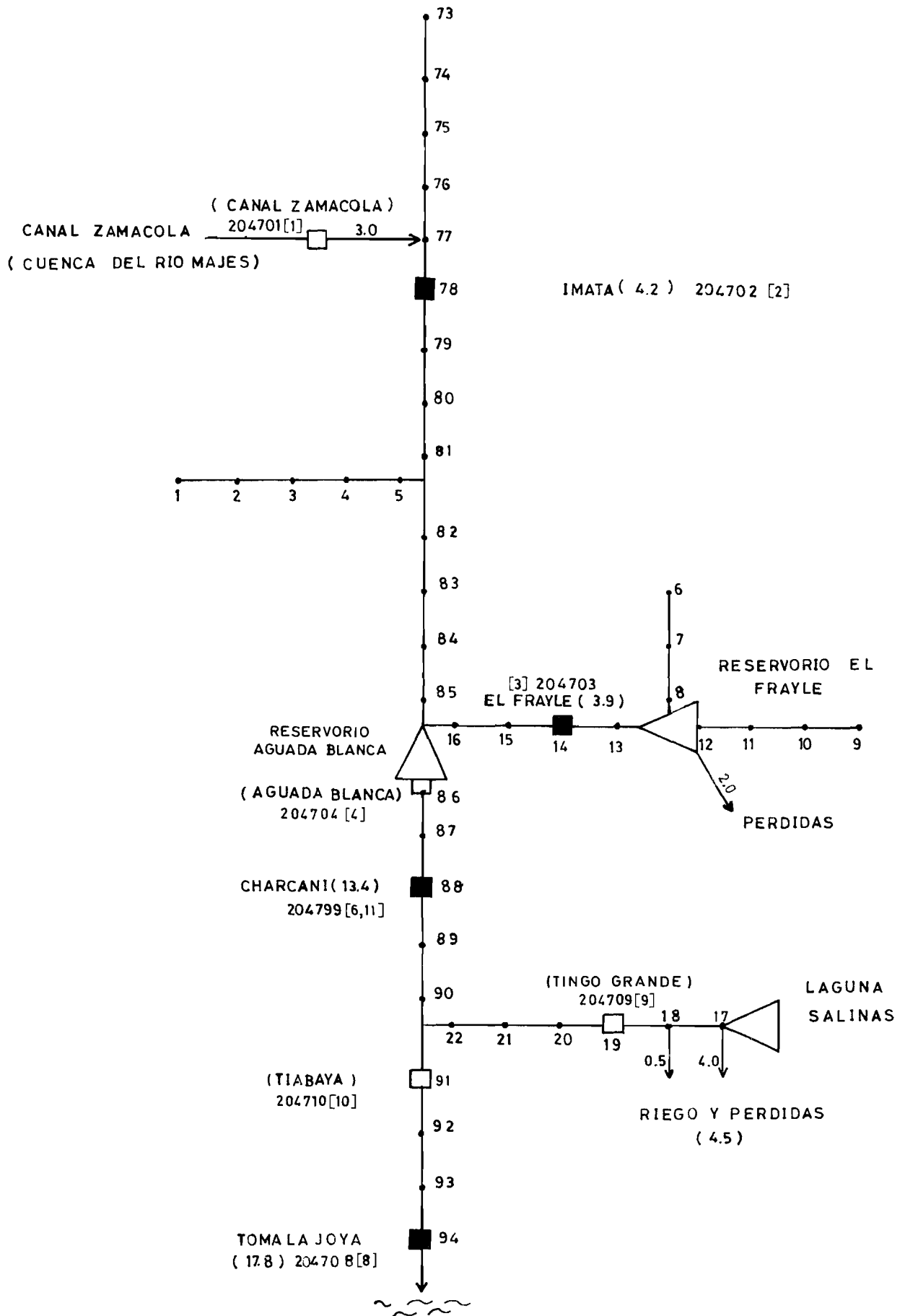
* 1	PARARANI	1 3	102.1	4488.4	1081.9	16.0	0.40	4.99	0.16	*
* 2	HUACSAPALLCA	4 8	326.0	4169.1	907.9	37.0	0.24	2.11	0.11	*
* 3	PAUCACORRAL	9 11	155.5	4331.4	992.3	23.0	0.29	3.31	0.15	*
* 4	PISQUICOCHA	12 16	149.0	4163.6	903.7	36.0	0.11	3.60	0.24	*
* 5	LOLLOTA	17 19	161.5	4232.9	938.1	23.0	0.31	7.06	0.14	*
* 6	PACCHICHACA	20 23	218.1	4013.9	823.2	30.0	0.24	5.85	0.14	*
* 7	CALPAMAYO	24 33	627.6	4127.5	883.8	64.0	0.15	5.59	0.10	*
* 8	BREAMAYO	34 37	199.4	4061.7	846.4	30.0	0.22	3.22	0.15	*
* 9	PARARCA	38 46	1386.8	3740.3	684.3	74.0	0.25	5.91	0.05	*
* 10	HUANCARAMA	47 49	235.9	4640.2	1176.1	22.0	0.49	1.83	0.09	*
* 11	HUANIPACO	50 51	77.0	4520.6	1108.9	9.0	0.95	8.68	0.12	*
* 12	OYULO	52 58	804.9	4230.7	954.5	64.0	0.20	7.19	0.08	*
* 13	CONDORILLO	59 61	74.5	4935.4	1367.9	15.0	0.33	4.02	0.20	*
* 14	ECMA	62 64	27.6	5065.6	1447.5	14.0	0.14	5.89	0.51	*
* 15	CACHAYCO	65 68	237.7	4919.5	1357.6	24.0	0.41	6.95	0.10	*
* 16	AGUAS CALIEN	69 73	342.2	4812.2	1287.9	34.0	0.30	5.04	0.10	*
* 17	JARHUAYOC	74 77	215.8	4609.8	1159.7	27.0	0.30	5.83	0.13	*
* 18	HUARCAYA	78 86	531.8	4701.0	1225.1	56.0	0.17	7.67	0.11	*
* 19	HUANCOCYOYOC	87 88	11.5	4768.7	1259.3	13.0	0.07	4.98	1.13	*
* 20	CUNUCANEO	89 90	58.5	4721.0	1228.5	11.0	0.48	6.46	0.19	*
* 21	PAMPAMARCA	91 97	526.9	4578.0	1143.1	54.0	0.18	8.04	0.10	*
* 22	CRUZPATA	98 101	251.7	2848.2	392.5	25.0	0.40	3.02	0.10	*
* 23	CHUQUIBAMBA	102 103	88.9	3960.1	791.8	13.0	0.53	19.12	0.15	*
* 24	PUCAMANTA	104 106	60.5	3572.8	628.0	17.0	0.21	14.90	0.28	*
* 25	COTAHUASI	107 124	1977.4	4040.7	872.2	148.0	0.09	13.81	0.07	*
* 26	CHORRILLOS	125 127	123.0	4834.0	1302.7	15.0	0.55	5.67	0.12	*
* 27	COLPAHUAICO	128 130	131.8	4976.6	1386.2	15.0	0.59	9.21	0.11	*
* 28	CELAMAYO	131 133	141.2	3906.4	769.0	19.0	0.39	23.57	0.13	*
* 29	ARMA SUP	134 141	799.0	4704.4	1219.3	54.0	0.27	6.16	0.07	*
* 30	ARMA INF	141 145	337.5	3276.9	536.8	31.0	0.35	17.89	0.09	*

* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *										# DE TRAMOS : 24 *
										# DE PUNTOS : 138 *
* DEL RIO MAJES , CODIGO 147 *										# DE ESTACIONES HIDROMETRICAS : 9 *

TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD		
CODIGO	NOMBRE	DE A	(KM*KM)	(METROS)	(MM/ANO)	(KM)	(%)	(1/KM)		

* 1	ANTASALLA	1 3	57.9	4841.0	855.4	14.0	0.30	4.38	0.24	*
* 2	BLANQUILLO	4 7	163.0	4538.1	770.4	21.0	0.37	1.72	0.13	*
* 3	OSCOLLO	8 10	354.6	4761.9	833.3	20.0	0.89	4.78	0.06	*
* 4	JAGUAY SUP	11 17	291.3	4584.3	782.9	49.0	0.12	2.24	0.17	*
* 5	CONDOROMA	18 21	208.0	4688.7	812.7	30.0	0.23	3.11	0.14	*
* 6	CHALHUANCA	22 26	450.1	4614.0	791.1	37.0	0.33	4.33	0.08	*
* 7	PULPERA	27 30	201.5	4433.6	739.7	23.0	0.38	4.34	0.11	*
* 8	LLAPA	31 34	354.1	4447.4	743.3	27.0	0.49	6.77	0.08	*
* 9	AJANA SUP	35 37	125.8	4683.2	811.3	16.0	0.49	2.41	0.13	*
* 10	AJANA INF	37 38	22.0	4509.0	762.5	5.0	0.88	1.98	0.23	*
* 10	HUARURO SUP	39 44	687.5	4828.7	852.1	33.0	0.63	4.99	0.05	*
* 12	HUARURO INF	44 48	765.0	4722.3	821.3	40.0	0.48	9.90	0.05	*
* 13	HUAMBO	49 53	275.1	4072.9	637.0	35.0	0.22	13.30	0.13	*
* 14	ORCOPAMPA	54 58	472.9	4634.5	796.8	36.0	0.36	7.22	0.08	*
* 15	ANDAGUA SUP	59 70	2190.4	4387.0	725.2	107.0	0.19	6.42	0.05	*
* 16	ANDAGUA INF	70 71	10.0	1611.0	119.4	5.0	0.40	5.02	0.50	*
* 17	SIHUARPO	72 75	430.7	3812.7	563.7	30.0	0.48	16.53	0.07	*
* 18	TAPAZA	76 80	463.5	3701.1	547.6	37.0	0.34	18.05	0.08	*
* 19	BLANCO	81 87	424.9	3179.8	427.1	53.0	0.15	9.69	0.12	*
* 20	MAJES A	88 106	1851.1	4761.4	768.6	142.0	0.09	3.66	0.08	*
* 21	MAJES B	106 117	1730.9	4761.8	778.0	99.0	0.18	10.67	0.06	*
* 22	MAJES C	117 127	1653.5	3403.4	466.1	72.0	0.32	25.65	0.04	*
* 23	MAJES D	127 137	3936.2	1015.1	79.7	100.0	0.39	7.83	0.03	*
* 24	MAJES E	137 138	21.5	219.0	30.5	8.0	0.34	2.74	0.37	*

* CARACTERISTICAS DE LA CUENCA										17141.5 3509.4 552.5 1039.0 0.02 8.46 0.06 *



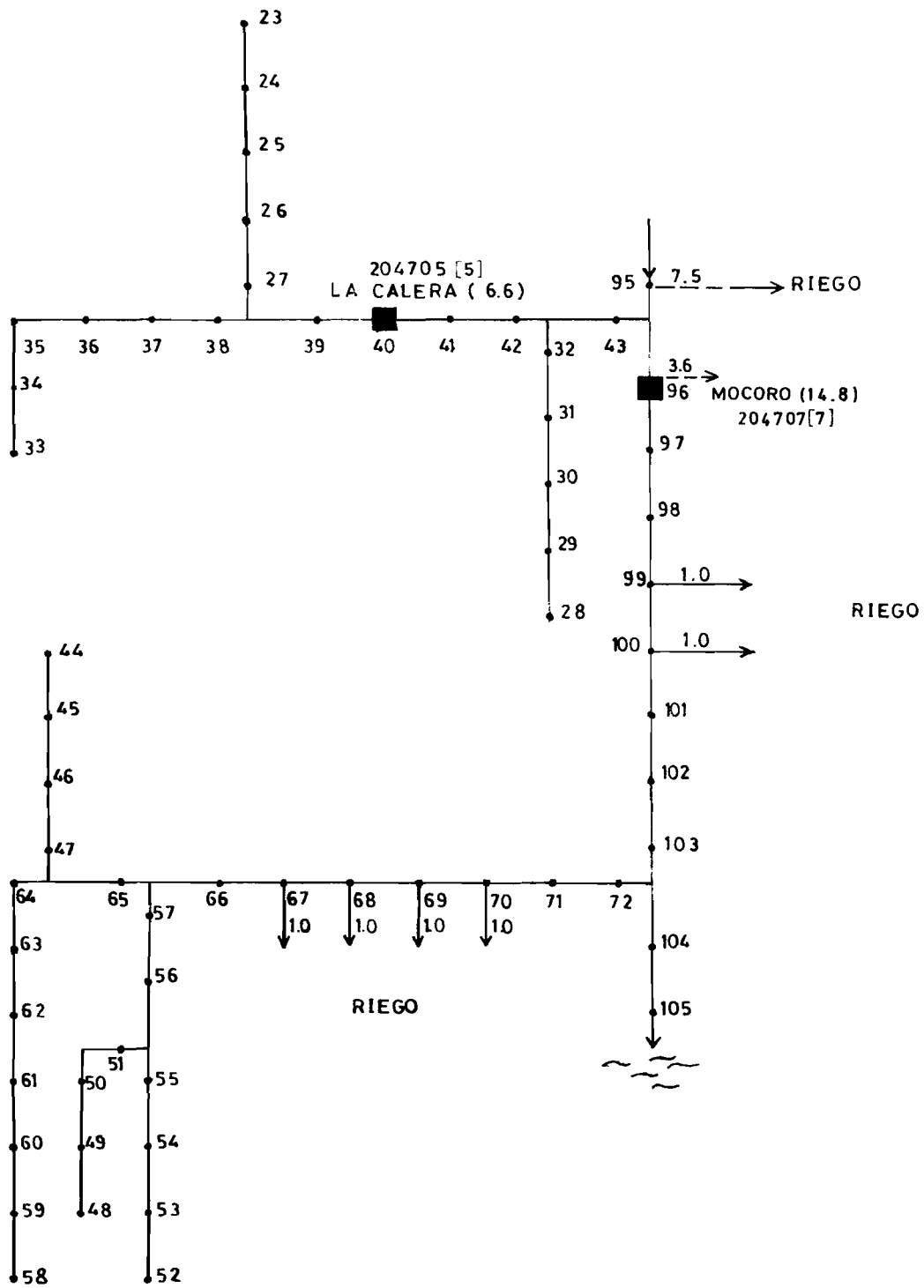
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

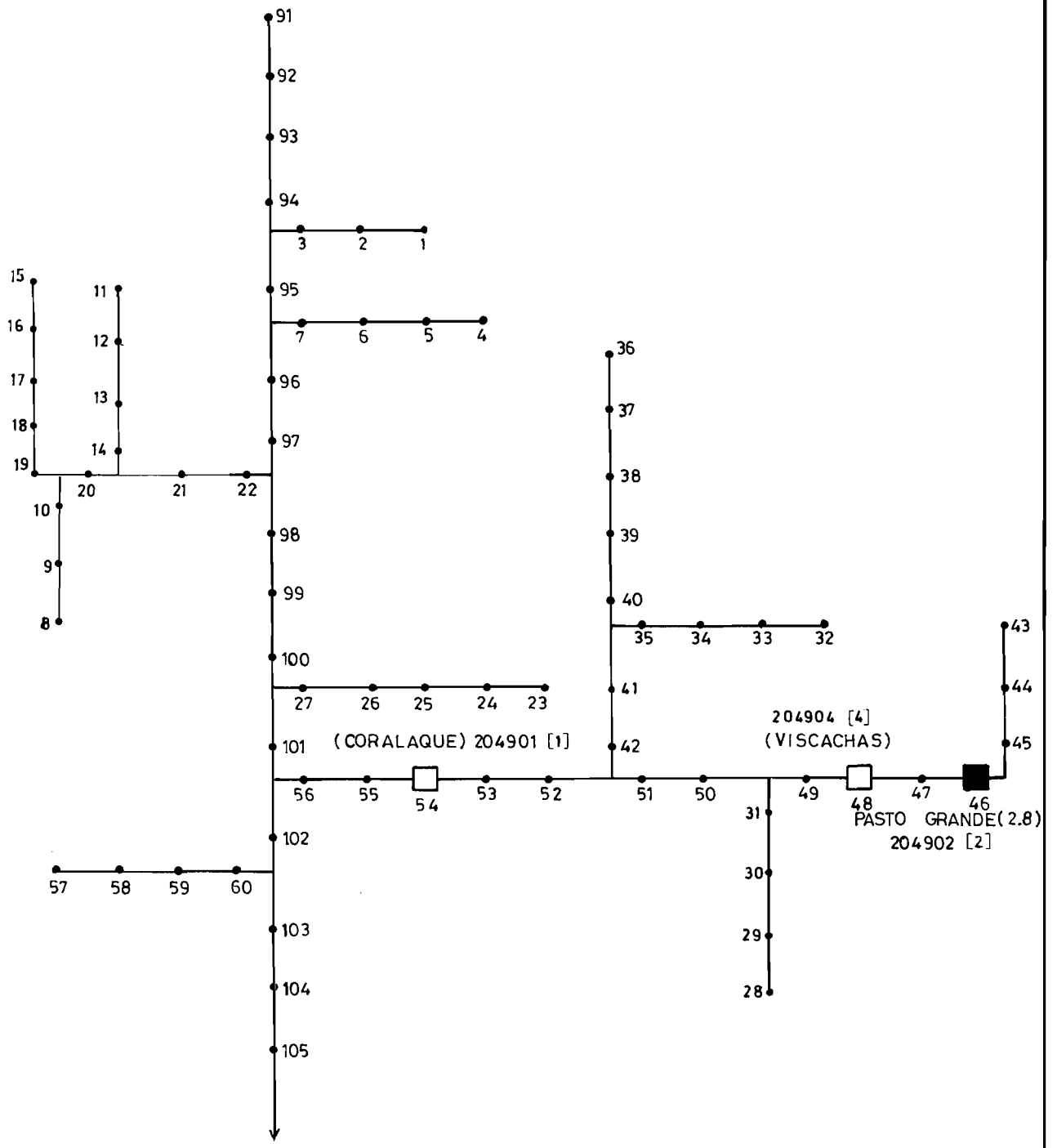
DIAGRAMA FLUVIAL:

QUILCA ó CHILI 148 (1/2)

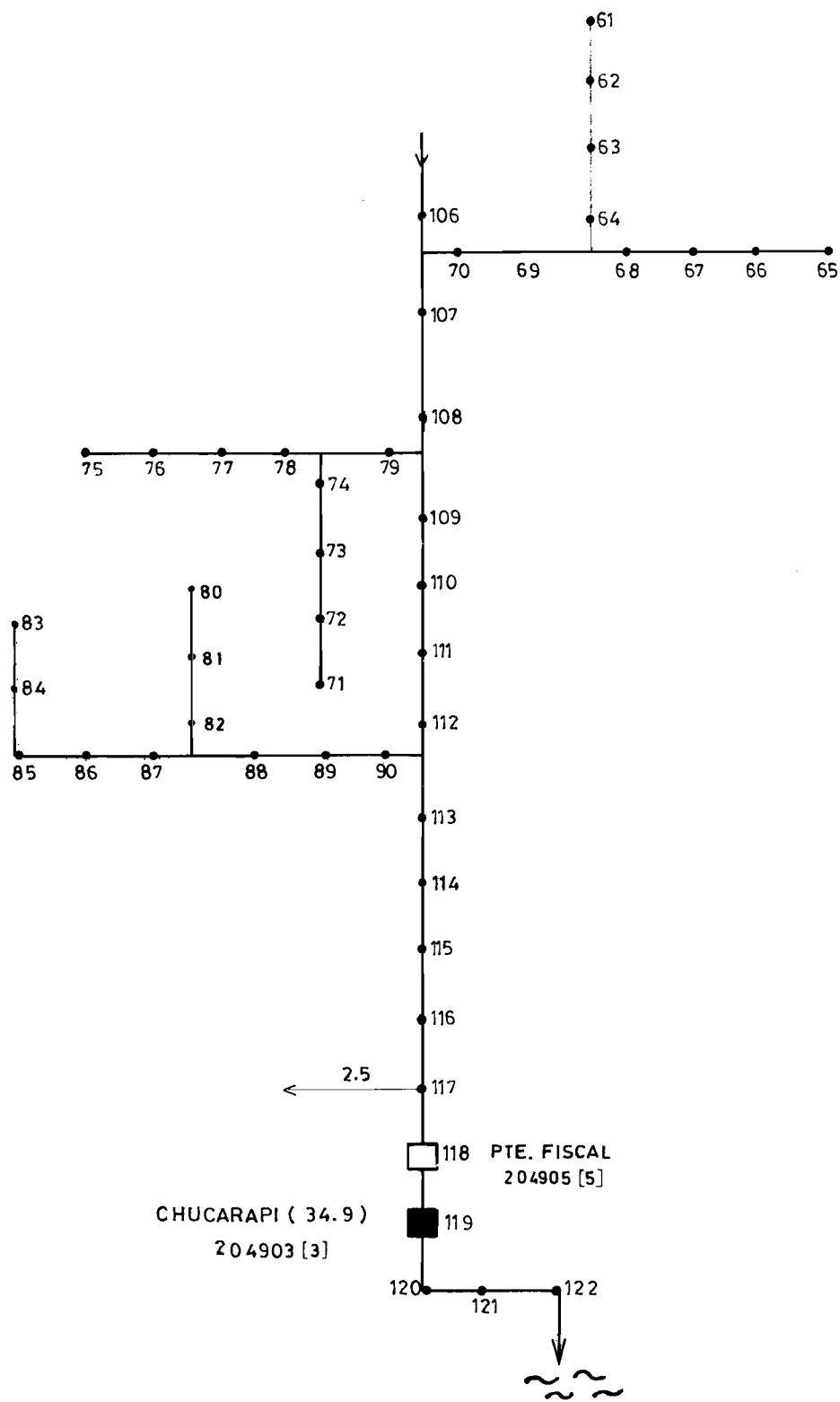
FLOW DIAGRAM:

Fig. 56





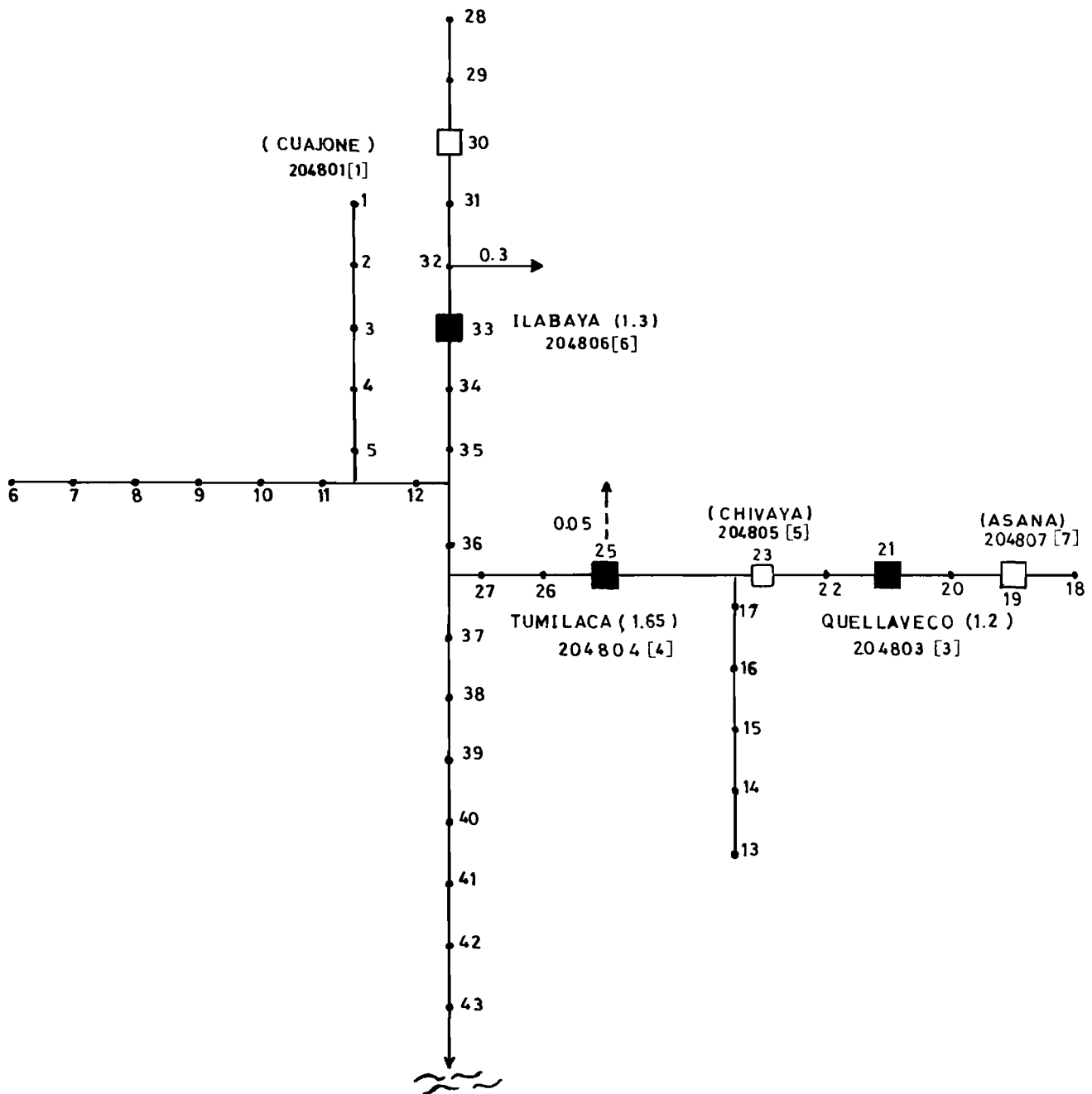
EVALUACION DEL POTENCIAL HIDROELECTRICO NACIONAL	DIAGRAMA FLUVIAL : TAMBO 149 (1/2) FLOW DIAGRAM :	Fig. 58
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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 18 *
* # DE PUNTOS : 105 *
* DEL RIO CHILI , CODIGO 148 * # DE ESTACIONES HIDROMETRICAS : 6 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 CAPILLANE 1 5 942.4 4622.6 539.0 42.0 0.53 3.97 0.04 *
* 2 PATI 6 8 152.2 4529.9 517.8 21.0 0.35 3.80 0.14 *
* 3 BLANCO SUPER 9 14 863.0 4520.0 515.8 54.0 0.30 4.10 0.06 *
* 4 BLANCO INFER 14 16 112.5 4413.9 493.3 17.0 0.39 6.34 0.15 *
* 5 SOCABAYA 17 22 1722.4 4019.0 421.4 47.0 0.78 11.41 0.03 *
* 6 PACCHA 23 27 296.0 4124.8 434.7 36.0 0.23 10.83 0.12 *
* 7 GRAMADAL 28 32 403.5 3098.0 254.5 43.0 0.22 7.74 0.11 *
* 8 YURA SUPERIO 33 40 740.4 4158.3 444.2 63.0 0.19 7.58 0.09 *
* 9 YURA INFERIO 40 43 65.3 2415.5 161.1 18.0 0.20 7.53 0.28 *
* 10 LIHUALLA 44 47 251.3 3832.1 380.2 33.0 0.23 7.18 0.13 *
* 11 LA MINA 48 51 212.5 4555.1 528.2 31.0 0.22 8.16 0.15 *
* 12 LLUTA 52 57 485.2 3650.6 350.8 50.0 0.19 8.64 0.10 *
* 13 SIGUAS 58 72 1288.9 2932.3 270.8 130.0 0.08 6.61 0.10 *
* 14 CHILI A 73 78 666.3 4685.8 553.4 50.0 0.27 2.18 0.08 *
* 15 CHILI B 78 88 1485.4 4327.2 475.8 97.0 0.16 5.12 0.07 *
* 16 CHILI C 88 94 743.9 2880.5 224.4 43.0 0.40 10.55 0.06 *
* 17 CHILI D 94 96 430.1 2415.0 159.1 18.0 1.33 7.79 0.04 *
* 18 CHILI E 96 105 2392.6 1281.8 54.4 88.0 0.31 6.91 0.04 *
*****
* CARACTERISTICAS DE LA CUENCA 13253.9 3421.9 343.4 881.0 0.02 6.85 0.07 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 20 *
* # DE PUNTOS : 122 *
* DEL RIO TAMBO , CODIGO 149 * # DE ESTACIONES HIDROMETRICAS : 2 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 SAN ANTONIO 1 3 193.2 4683.5 552.8 21.0 0.44 6.49 0.11 *
* 2 CRUCERO 4 7 454.4 4633.3 541.4 28.0 0.58 6.93 0.06 *
* 3 QUELLOMOCO 8 10 115.5 4459.5 504.7 20.0 0.29 4.28 0.17 *
* 4 CHACRAMAYO 11 14 483.7 4360.6 482.3 29.0 0.58 4.16 0.06 *
* 5 PALTITURE 15 22 704.6 4373.1 484.9 56.0 0.22 4.98 0.08 *
* 6 CURO 23 27 281.2 4431.5 498.0 35.0 0.23 6.01 0.12 *
* 7 CHILOTA 28 31 320.0 4663.7 548.5 25.0 0.51 3.36 0.08 *
* 8 ARUNTAYA 32 35 189.8 4732.0 564.2 23.0 0.36 5.30 0.12 *
* 9 TITERE 36 42 401.5 4588.1 531.4 54.0 0.14 2.78 0.13 *
* 10 CORALAUQUE A 43 46 458.6 4855.5 592.0 30.0 0.51 3.97 0.07 *
* 11 CORALAUQUE B 46 56 1062.3 4498.2 512.3 84.0 0.15 7.37 0.08 *
* 12 PARA 57 60 136.1 4297.4 472.6 26.0 0.20 10.22 0.19 *
* 13 CHINGANE 61 64 187.5 4269.7 464.9 25.0 0.30 11.29 0.13 *
* 14 CARUMAS 65 70 460.6 3954.8 412.1 41.0 0.27 9.49 0.09 *
* 15 AMARILLO 71 74 129.4 3133.1 265.2 26.0 0.19 13.57 0.20 *
* 16 OMAE 75 79 219.9 3225.4 286.1 32.0 0.21 14.52 0.15 *
* 17 PUQUINA 80 82 88.0 3220.2 274.6 22.0 0.18 9.77 0.25 *
* 18 ESQUINO 83 90 450.0 3460.3 330.6 60.0 0.12 11.83 0.13 *
* 19 TAMBO SUP 91 119 6136.0 2708.2 228.6 256.0 0.09 11.16 0.04 *
* 20 TAMBO INF 119 122 225.1 446.4 20.3 26.0 0.33 3.53 0.12 *
*****
* CARACTERISTICAS DE LA CUENCA 12697.4 3471.6 351.0 919.0 0.02 8.43 0.07 *
*****

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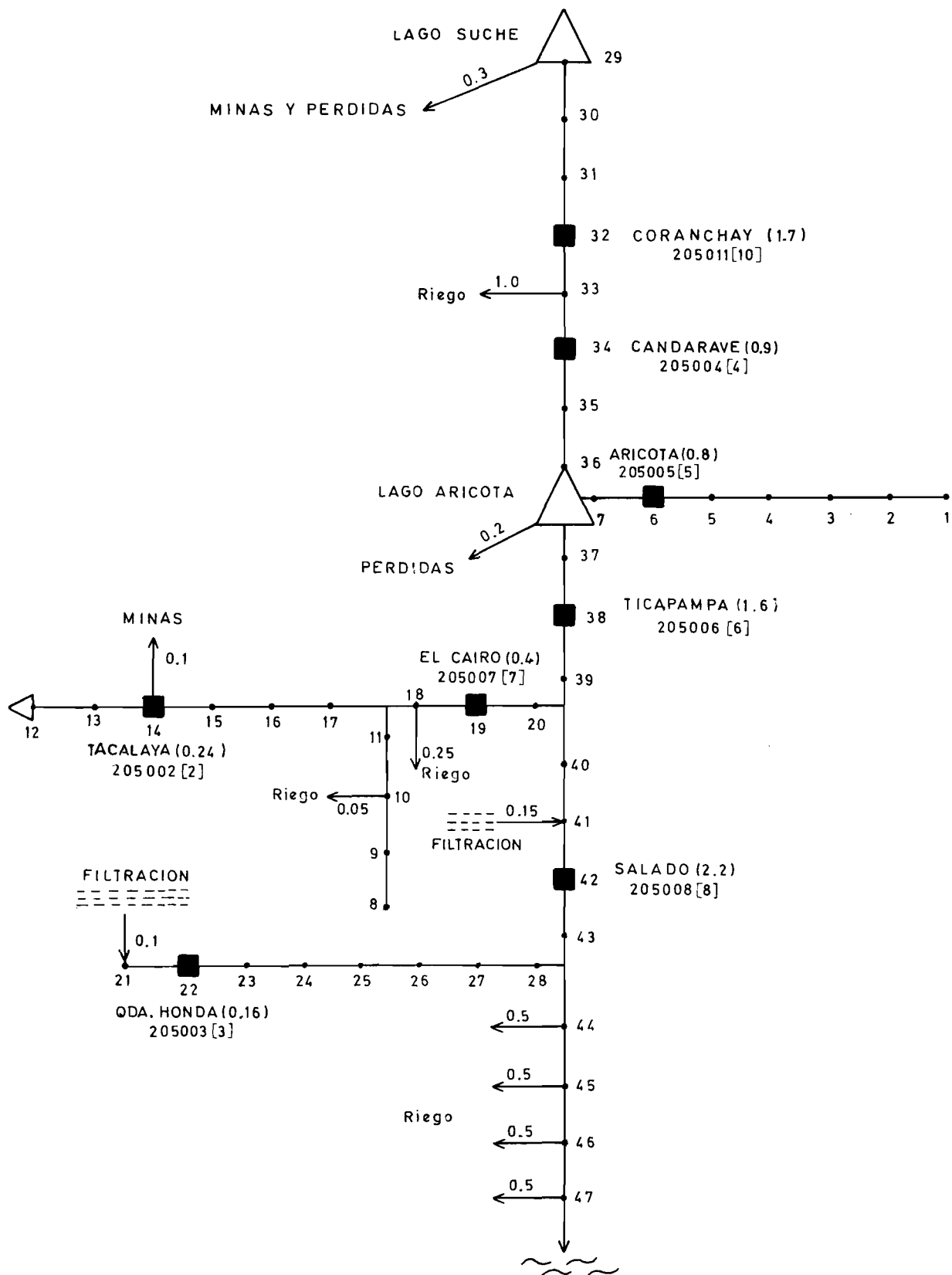
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

OSMORE 150

FLOW DIAGRAM :

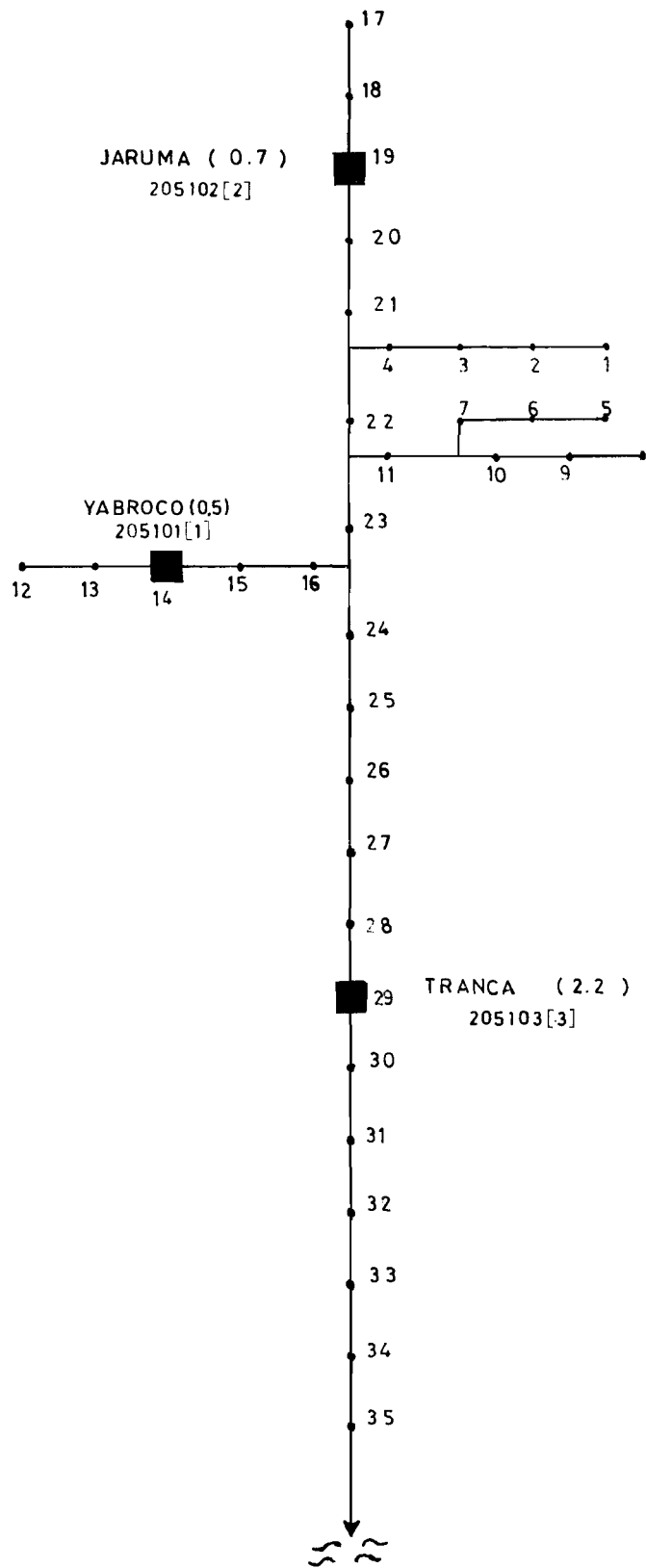
Fig. 60



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :
 LOCUMBA 151
 FLOW DIAGRAM :

Fig. 61



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

SAMA 152

FLOW DIAGRAM :

Fig. 62

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 8 *
* # DE PUNTOS : 43 *
* DEL RIO OSMORE , CODIGO 150 * # DE ESTACIONES HIDROMETRICAS : 3 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 CHUJULAY 1 5 129.4 3247.5 188.1 37.0 0.09 7.19 0.29 *
* 2 HUACARANE 6 12 381.5 3369.9 198.6 56.0 0.12 8.33 0.15 *
* 3 CAPILLUNE 13 17 159.5 3907.0 278.2 33.0 0.15 8.88 0.21 *
* 4 TUMILACA SUP 18 21 177.8 4500.8 419.4 22.0 0.37 7.08 0.12 *
* 5 TUMILACA MED 21 25 217.3 3031.5 128.7 27.0 0.30 10.06 0.12 *
* 6 TUMILACA INF 25 27 61.1 2230.4 53.0 15.0 0.27 8.73 0.25 *
* 7 OSMORE SUP 28 33 323.3 4199.1 355.5 43.0 0.17 7.23 0.13 *
* 8 OSMORE INF 33 43 2145.1 841.1 10.8 88.0 0.28 4.19 0.04 *
*****
* CARACTERISTICAS DE LA CUENCA 3595.0 1971.1 108.0 321.0 0.03 7.05 0.09 *
*****

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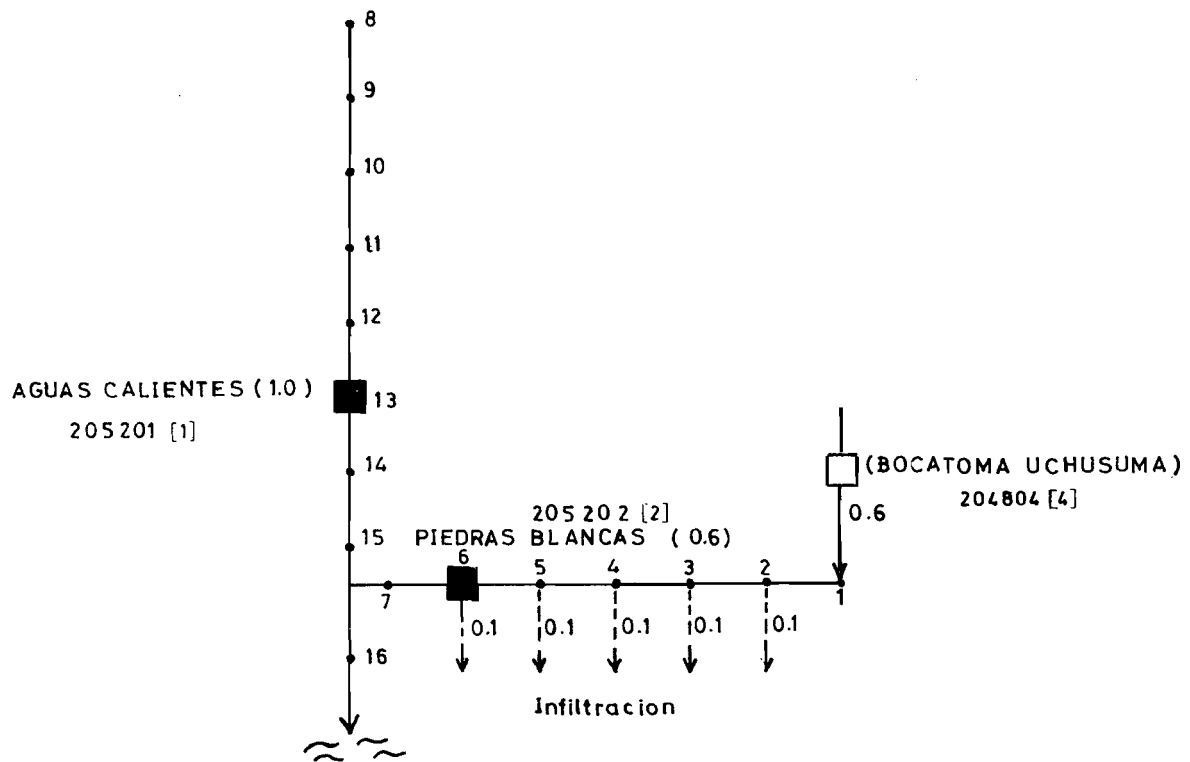
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 13 *
* # DE PUNTOS : 47 *
* DEL RIO LOCUMBA , CODIGO 151 * # DE ESTACIONES HIDROMETRICAS : 8 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 SALADO SUP 1 6 384.2 4203.2 352.6 46.0 0.18 6.84 0.12 *
* 2 SALADO INF 6 7 2.8 3020.0 122.9 1.0 2.80 19.50 0.36 *
* 3 BOROQUENA 8 11 121.0 3868.4 281.2 30.0 0.13 7.03 0.25 *
* 4 ILABAYA SUP 12 14 123.8 4839.6 518.2 14.0 0.63 8.78 0.11 *
* 5 ILABAYA MED 14 19 734.0 2999.4 143.0 51.0 0.28 9.08 0.07 *
* 6 ILABAYA INF 19 20 2.3 1638.0 21.2 1.0 2.30 53.30 0.43 *
* 7 CINTO SUP 21 22 15.0 4356.5 379.3 9.0 0.19 1.59 0.60 *
* 8 CINTO INF 22 28 417.1 2269.3 78.0 63.0 0.11 5.55 0.15 *
* 9 LOCUMBA A 29 32 898.0 4779.7 499.7 30.0 1.00 5.39 0.03 *
* 10 LOCUMBA B 32 34 146.1 4350.0 376.9 20.0 0.37 9.40 0.14 *
* 11 LOCUMBA C 34 38 344.1 2741.8 106.5 45.0 0.17 7.90 0.13 *
* 12 LOCUMBA D 38 42 340.7 1284.3 12.5 29.0 0.41 6.17 0.09 *
* 13 LOCUMBA E 42 47 1786.7 895.8 8.5 45.0 0.88 4.50 0.03 *
*****
* CARACTERISTICAS DE LA CUENCA 5315.8 2599.2 176.3 384.0 0.04 6.86 0.07 *
*****

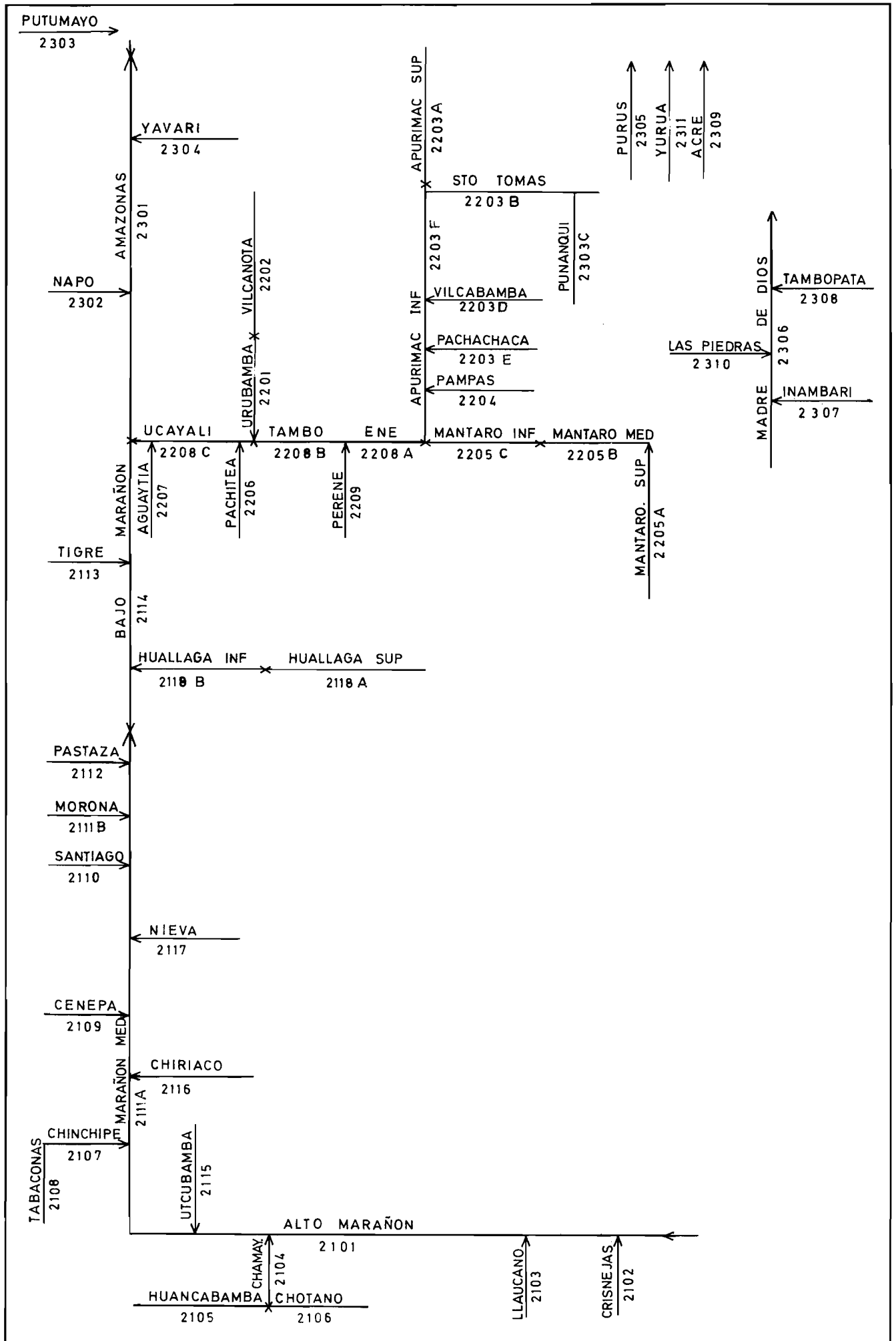
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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 8 *
* # DE PUNTOS : 35 *
* DEL RIO SAMA , CODIGO 152 * # DE ESTACIONES HIDROMETRICAS : 3 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 TARATA 1 4 110.7 4409.0 408.7 25.0 0.18 9.54 0.23 *
* 2 ESTIQUE 5 7 77.1 4053.9 309.0 19.0 0.21 10.69 0.25 *
* 3 ARUMA 8 11 207.5 4006.6 309.7 30.0 0.23 10.95 0.14 *
* 4 SALADO A 12 14 173.6 4454.6 413.4 21.0 0.39 9.45 0.12 *
* 5 SALADO B 14 16 264.8 3731.4 228.7 16.0 1.03 16.16 0.06 *
* 6 SAMA A 17 19 194.4 4894.4 551.3 14.0 0.99 6.99 0.07 *
* 7 SAMA B 19 29 1014.3 2573.7 95.2 96.0 0.11 10.06 0.09 *
* 8 SAMA C 29 35 2766.7 1415.2 15.9 57.0 0.85 9.19 0.02 *
*****
* CARACTERISTICAS DE LA CUENCA 4809.1 2260.5 106.7 278.0 0.06 10.12 0.06 *
*****

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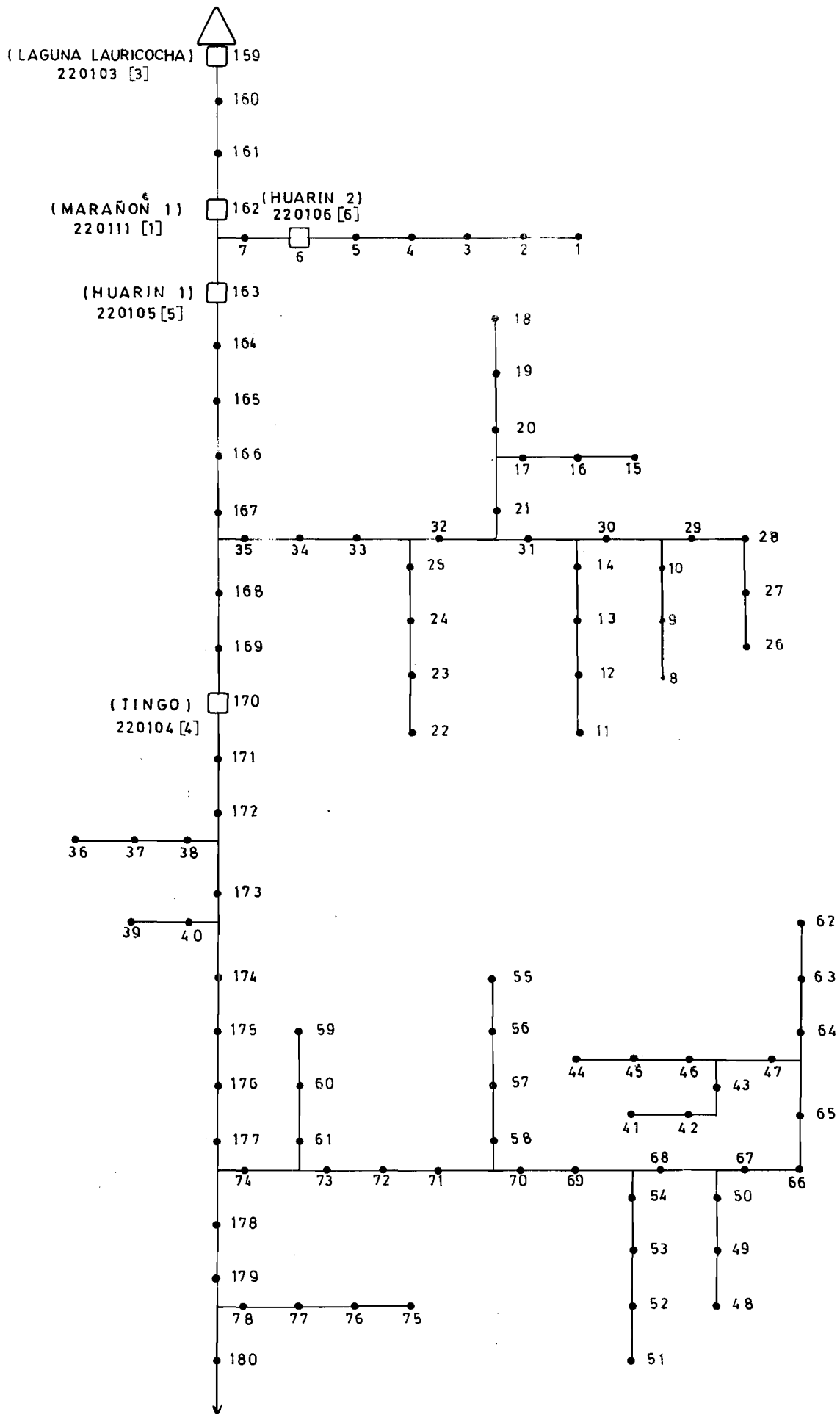




EVALUACION DEL
POTENCIAL
HIDROELECTRICO
NACIONAL

REPRESENTACION ESQUEMATICA DE LA
VERTIENTE DEL ATLANTICO
Schematic Representation
of Atlantic Watershed

Fig. 64



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

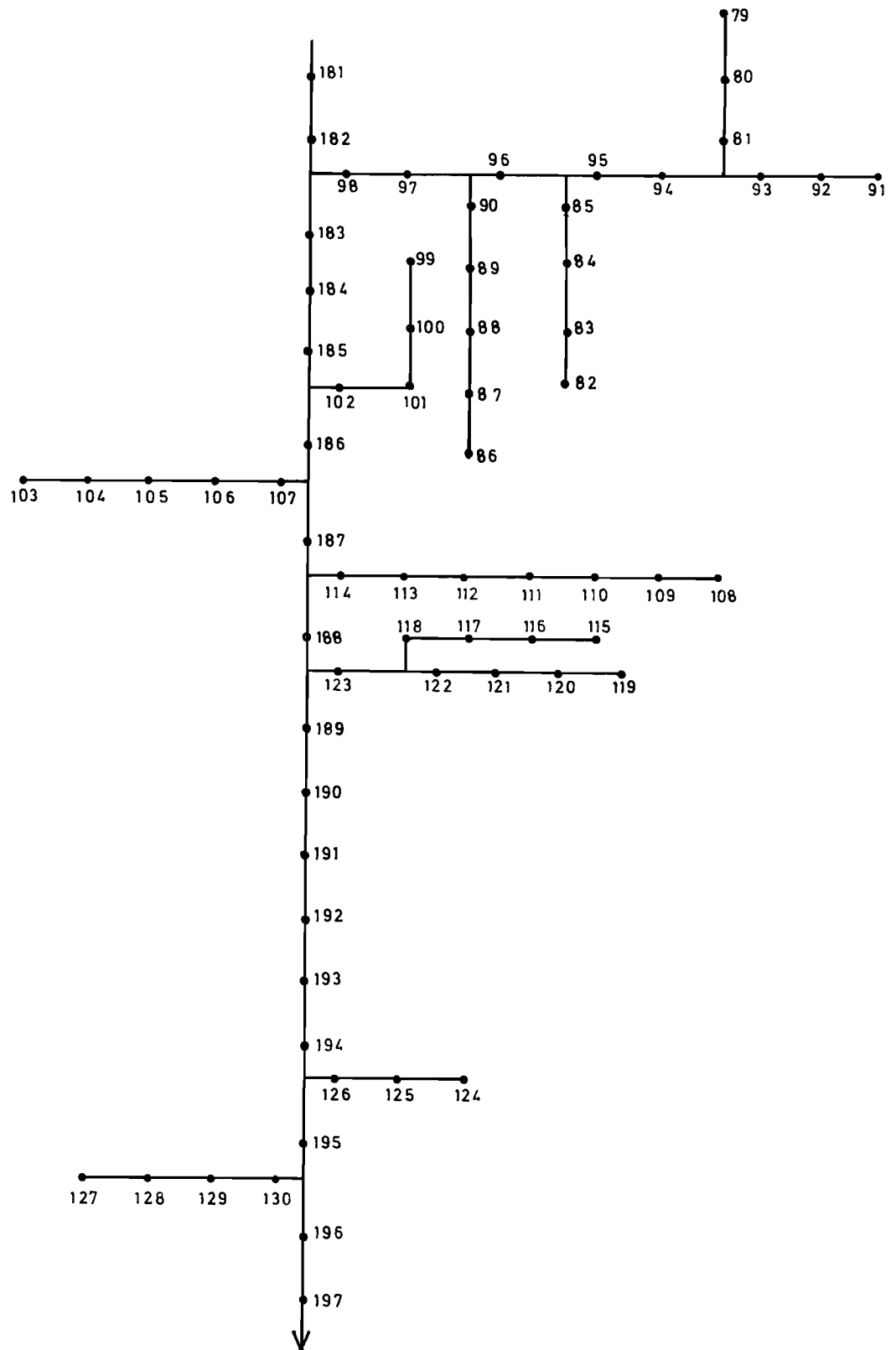
DIAGRAMA FLUVIAL:

ALTO MARAÑÓN 2101

FLOW DIAGRAM:

1 / 3

Fig. 65



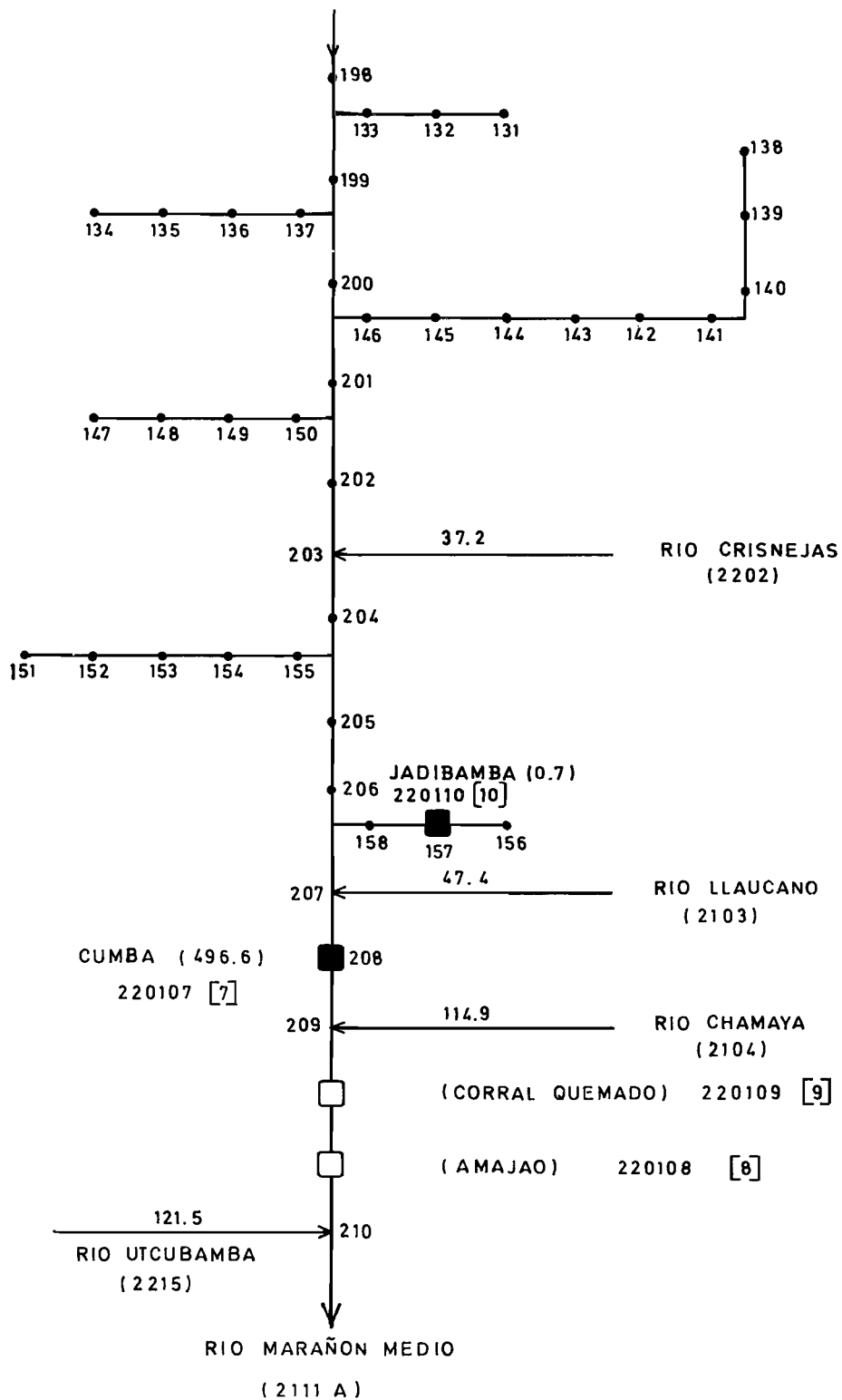
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL.

ALTO MARANON 2101

FLOW DIAGRAM.

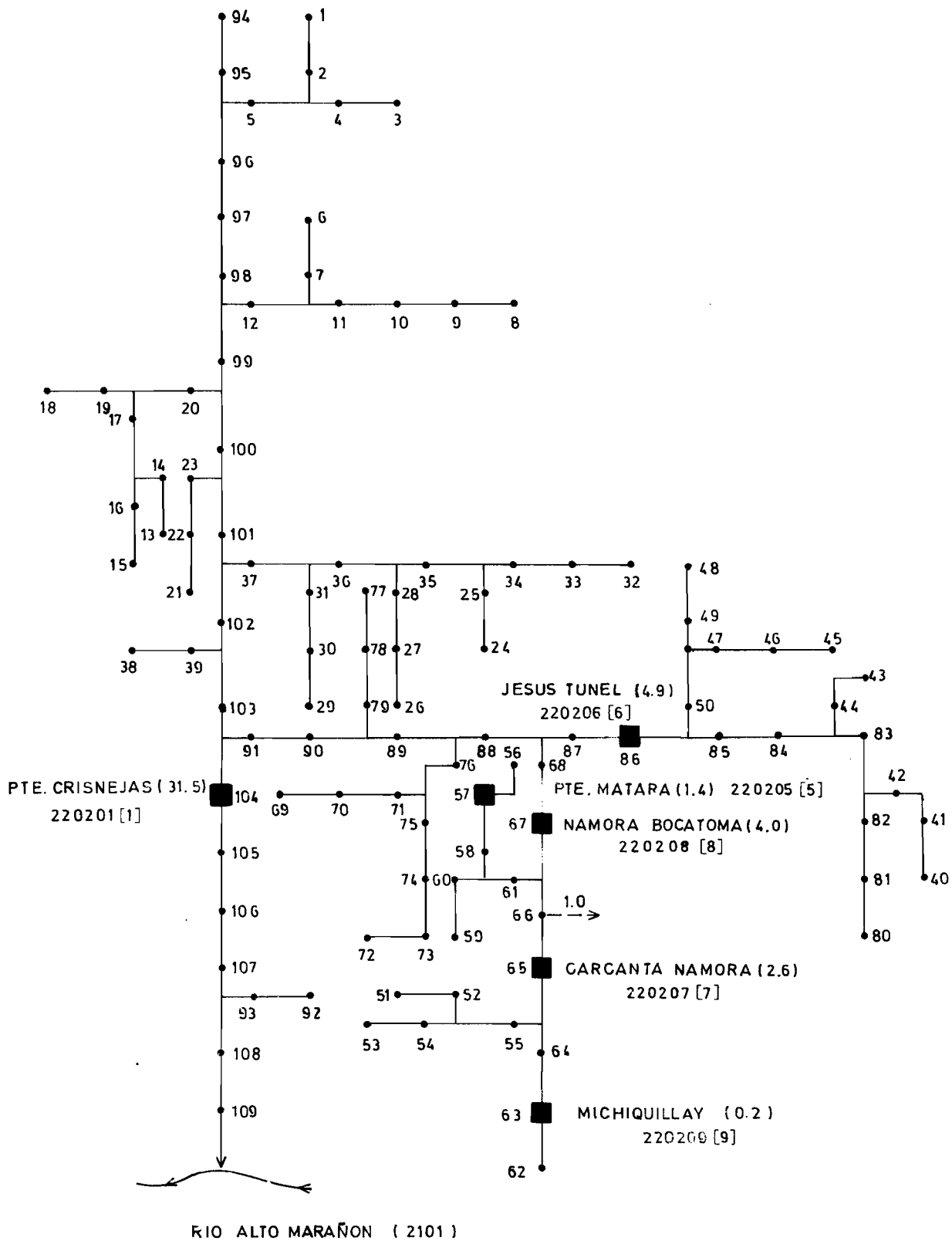
Fig. 66



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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 4 *
* # DE PUNTOS : 16 *
* DEL RIO CAPLINA , CODIGO 153 * # DE ESTACIONES HIDROMETRICAS : 2 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 UCHUSUMA SUP 1 6 488.0 3137.2 148.9 47.0 0.22 13.22 0.10 *
* 2 UCHUSUMA INF 6 7 60.7 1316.0 11.4 3.0 6.74 16.80 0.05 *
* 3 CAPLINA SUP 8 13 593.4 3775.3 276.5 53.0 0.21 11.00 0.09 *
* 4 CAPLINA INF 13 16 486.6 2445.3 71.7 23.0 0.92 10.20 0.05 *
*****
* CARACTERISTICAS DE LA CUENCA 1628.7 3095.1 167.2 126.0 0.10 11.82 0.08 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 37 *
* # DE PUNTOS : 210 *
* DEL RIO ALTO MARANON , CODIGO 2101 * # DE ESTACIONES HIDROMETRICAS : 2 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
*CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 NUPE 1 7 814.6 4314.0 899.7 55.0 0.27 7.25 0.07 *
* 2 SANTA ROSA 8 10 88.8 4243.7 895.5 24.0 0.15 4.37 0.27 *
* 3 ANDACHUPA 11 14 307.2 4298.1 899.0 28.0 0.39 7.90 0.09 *
* 4 SHIULLA 15 17 88.8 4212.3 893.4 24.0 0.15 4.00 0.27 *
* 5 LAMPAS 18 21 135.8 4215.2 893.6 28.0 0.17 5.61 0.21 *
* 6 TAPARACU 22 25 275.1 4020.8 881.2 33.0 0.25 3.39 0.12 *
* 7 VIZCARRA 26 35 748.3 3946.9 875.8 70.0 0.15 6.56 0.09 *
* 8 TANTAMAYO 36 38 166.3 3975.7 877.9 20.0 0.42 9.07 0.12 *
* 9 CARPA 39 40 109.0 3628.9 854.0 12.0 0.76 10.42 0.11 *
* 10 PACHACHACA 41 43 163.8 4539.0 914.3 15.0 0.73 6.93 0.09 *
* 11 MOSNA 44 47 122.4 4422.7 906.9 25.0 0.20 7.08 0.20 *
* 12 RURICHINCHAY 48 50 199.1 4328.7 900.9 21.0 0.45 13.43 0.11 *
* 13 HUARI 51 54 346.6 3977.0 878.2 29.0 0.41 9.59 0.08 *
* 14 COLCA 55 58 318.1 3830.3 867.5 34.0 0.28 7.01 0.11 *
* 15 CHINCHORAGRA 59 61 55.1 3668.1 856.2 18.0 0.17 9.33 0.33 *
* 16 PUSHCA 62 74 1575.5 3736.3 860.8 104.0 0.15 11.52 0.07 *
* 17 MIRGAS 75 78 185.3 3423.8 839.5 28.0 0.24 7.39 0.15 *
* 18 ARMA 79 81 139.4 4113.4 886.6 16.0 0.54 12.00 0.11 *
* 19 YURMA 82 85 356.8 4280.0 897.0 34.0 0.31 11.91 0.10 *
* 20 POMABAMBA 86 90 641.6 3852.0 869.3 39.0 0.42 11.97 0.06 *
* 21 YANAMAYO 91 98 1224.7 3706.5 858.3 69.0 0.26 12.29 0.06 *
* 22 MANTA 99 102 190.0 3355.7 834.9 27.0 0.26 10.85 0.14 *
* 23 HUACRACHUCO 103 107 431.9 3429.8 840.2 38.0 0.30 10.91 0.09 *
* 24 RUPAC 108 114 963.9 3464.3 842.6 58.0 0.29 10.50 0.06 *
* 25 LLAMA 115 118 226.3 3489.3 844.9 33.0 0.21 7.45 0.15 *
* 26 ACTUY 119 123 273.6 3336.5 834.1 36.0 0.21 11.39 0.13 *
* 27 UCTUBAMBA 124 126 109.1 2699.8 792.6 18.0 0.34 13.50 0.16 *
* 28 SAN MIGUEL 127 130 81.6 2862.7 804.3 40.0 0.05 9.46 0.49 *
* 29 GANSUL 131 133 87.9 2378.9 772.8 18.0 0.27 8.89 0.20 *
* 30 LAVASEN 134 137 213.0 3167.7 822.4 29.0 0.25 12.33 0.14 *
* 31 CHUSGON 138 146 1171.6 3135.8 821.1 81.0 0.18 10.77 0.07 *
* 32 CHON CHON 147 150 188.8 2942.7 808.1 28.0 0.24 12.65 0.15 *
* 33 SUTE 151 155 312.6 3175.9 823.6 35.0 0.26 11.72 0.11 *
* 34 YANGAS SUP 156 157 40.0 4399.8 905.4 15.0 0.18 7.89 0.37 *
* 35 YANGAS INF 157 158 960.0 1340.0 710.4 35.0 0.78 1.66 0.04 *
* 36 A MARANON S 159 208 14047.2 2670.9 792.6 650.0 0.03 8.01 0.05 *
* 37 A MARANON I 208 210 1140.0 979.9 688.8 65.0 0.27 2.03 0.06 *
*****
* CARACTERISTICAS DE LA CUENCA 28499.7 3008.6 814.6 1932.0 0.00 8.63 0.07 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* CRISNEJAS 203 4660.5 3149.9 762.0 699.9 0.01 7.40 0.15 *
* LLAUCANO 207 2851.7 2571.6 1029.6 303.0 0.03 7.92 0.11 *
* CHAMAYA 209 8522.5 1982.7 901.5 681.0 0.02 8.20 0.08 *
* UTCUBAMBA 210 7507.0 1902.8 840.4 384.0 0.05 8.78 0.05 *
*****
* CARACTERISTICAS ACUMULATIVAS 52041.4 2669.8 839.6 3999.9 0.00 8.30 0.08 *
*****

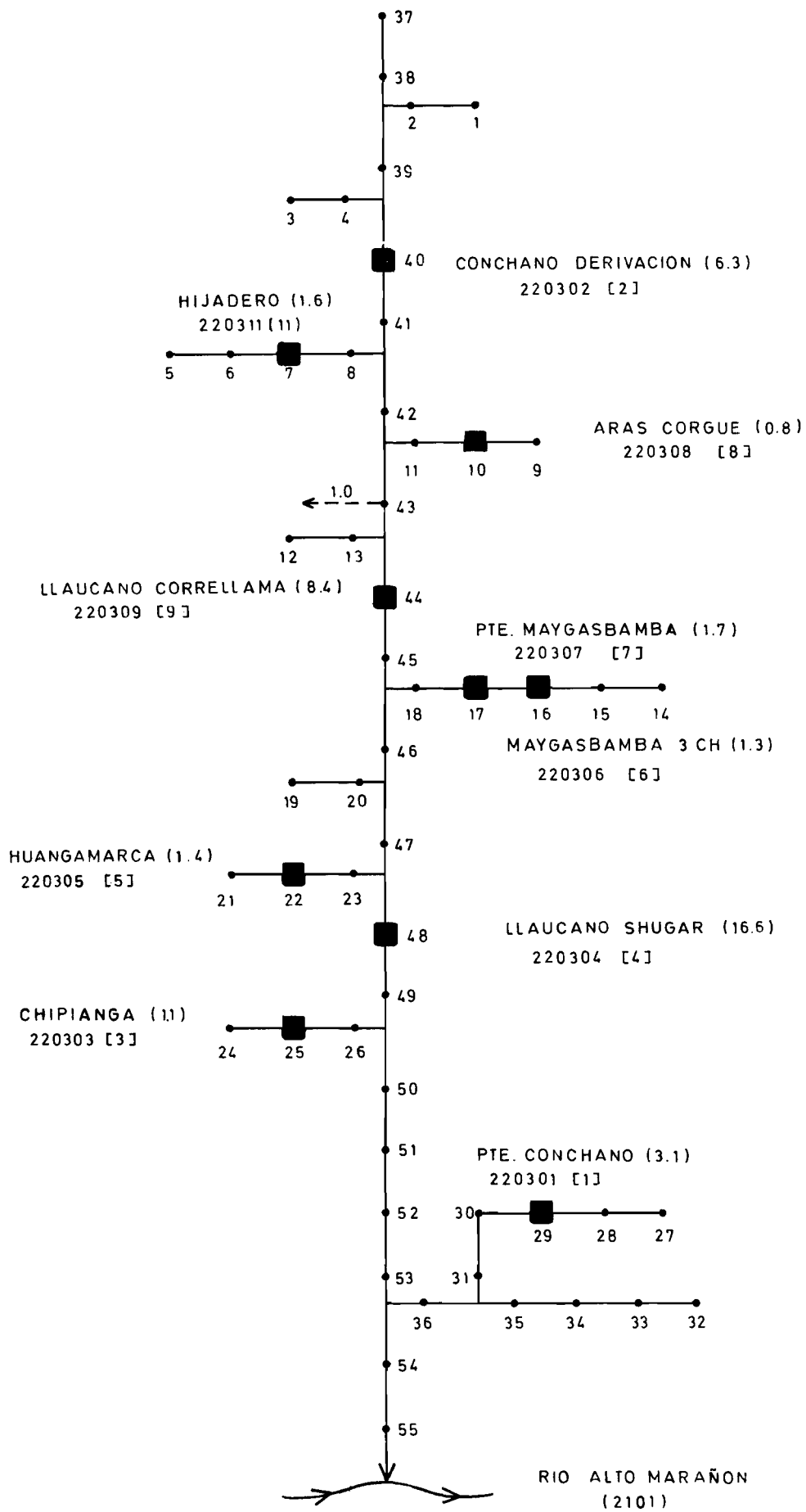
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EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL:
 CRISNEJAS 2102
 FLOW DIAGRAM:

Fig. 68



EVALUACION DEL
POTENCIAL
HIDROELECTRICO
NACIONAL

DIAGRAMA FLUVIAL :

LLAUCANO 2103

FLOW DIAGRAM :

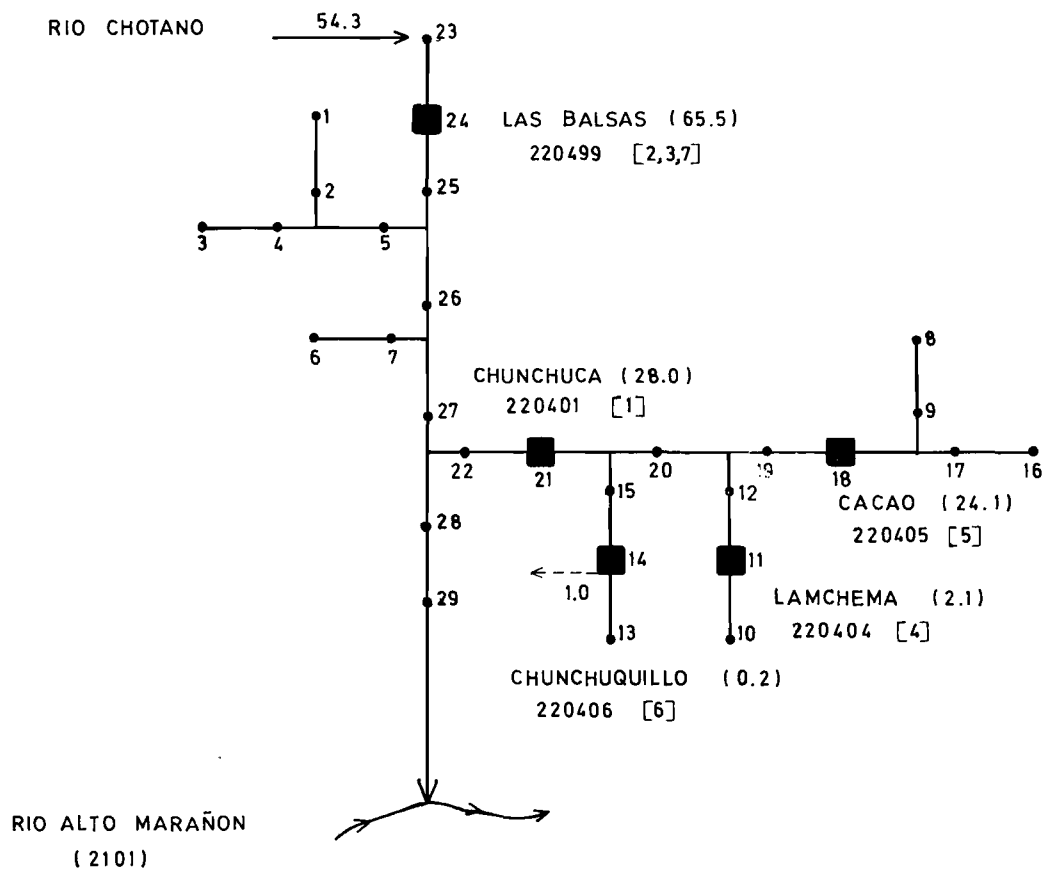
Fig. 69

***** REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *****										
* DEL RIO CRISNEJAS , CODIGO 2102 * # DE ESTACIONES HIDROMETRICAS : 6 *										
***** TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD * *****										
CODIGO	NOMBRE	* DE	A	*(KM*KM)	(METROS)	(MM/ANO)	(KM)	(-)	(%)	(1/KM)
* 1	TRES CRUCES	1	2	9.6	3684.3	834.8	6.0	0.27	4.33	0.62
* 2	CONACHUCO	3	5	34.6	3846.6	863.2	11.0	0.29	7.41	0.32
* 3	CHICHIRCUCHO	6	7	76.8	3316.6	777.5	13.0	0.45	5.88	0.17
* 4	HUAYRO	8	12	184.3	3584.4	819.4	32.0	0.18	6.02	0.17
* 5	QDAONDA	13	14	37.8	3349.4	782.4	9.0	0.47	5.04	0.24
* 6	CUEVAS	15	17	79.3	3106.6	746.1	18.0	0.24	5.31	0.23
* 7	HUAMACHUCO	18	20	62.4	3696.8	840.2	22.0	0.13	8.74	0.35
* 8	LANLA	21	23	161.2	3287.0	773.2	25.0	0.26	8.85	0.16
* 9	HUACADAY	24	25	76.1	3660.9	830.7	13.0	0.45	7.01	0.17
* 10	CULLHUAN	26	28	90.8	3534.0	810.2	21.0	0.21	8.86	0.23
* 11	MARABAMBA	29	31	89.8	3177.1	756.7	21.0	0.20	6.75	0.23
* 12	CHIMIN	32	37	258.5	3186.8	759.3	42.0	0.15	7.11	0.16
* 13	MALCA	38	39	52.9	2610.7	677.3	13.0	0.31	6.79	0.25
* 14	AZUFRE	40	42	67.0	3613.0	824.4	16.0	0.26	5.54	0.24
* 15	PACCHA	43	44	54.0	3550.1	813.2	13.0	0.32	5.04	0.24
* 16	CALLEJON	45	47	67.1	3457.9	799.7	17.0	0.23	6.50	0.25
* 17	PORCON	48	50	247.8	3297.7	774.7	23.0	0.47	5.34	0.09
* 18	LAS QUINUAS	51	52	24.5	3547.5	1012.1	9.0	0.30	5.98	0.37
* 19	TAMBOMAYO	53	55	47.0	3477.0	1001.5	12.5	0.30	5.94	0.27
* 20	MATARA SUP	56	57	99.8	3277.4	971.6	6.0	2.77	15.30	0.06
* 21	MATARA INF	57	58	13.8	2847.0	907.0	2.0	3.45	9.60	0.14
* 22	SECO	59	61	56.3	3446.9	798.2	16.0	0.22	7.82	0.28
* 23	NAMORA °A°	62	63	24.2	3596.7	819.7	5.0	0.97	8.58	0.21
* 24	NAMORA °B°	63	65	102.9	3172.8	755.9	16.0	0.40	3.26	0.16
* 25	NAMORA °C°	65	67	57.9	2851.6	708.3	11.0	0.48	5.09	0.19
* 26	NAMORA °D°	67	68	3.0	2579.0	672.4	2.0	0.75	11.60	0.67
* 27	SHILAMALCA	69	71	116.9	3009.1	731.5	17.0	0.40	9.55	0.15
* 28	MAYOC	72	76	217.6	3290.7	774.9	29.0	0.26	7.62	0.13
* 29	CHILCA	77	79	82.9	3599.9	820.4	19.0	0.23	12.28	0.23
* 30	CAJAMARCA SU	80	86	316.2	3209.7	761.5	50.1	0.13	4.51	0.16
* 31	CAJAMARCA IN	86	91	411.1	2857.2	710.3	50.0	0.16	6.72	0.12
* 32	SHIRAE	92	93	86.2	2755.3	695.0	17.0	0.30	10.28	0.20
* 33	CRISNEJAS SU	94	104	640.0	3124.1	750.4	82.3	0.09	6.20	0.13
* 34	CRISNEJAS IN	104	109	710.2	2736.3	694.7	41.0	0.42	15.88	0.06

***** CARACTERISTICAS DE LA CUENCA 4660.5 3149.9 762.0 699.8 0.01 7.40 0.15 *****

***** REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *****										
* DEL RIO LLAUCANO , CODIGO 2103 * # DE ESTACIONES HIDROMETRICAS : 10 *										
***** TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD * *****										
CODIGO	NOMBRE	* DE	A	*(KM*KM)	(METROS)	(MM/ANO)	(KM)	(-)	(%)	(1/KM)
* 1	PINGUYO	1	2	57.1	3452.0	1233.7	12.0	0.40	5.52	0.21
* 2	TAMBILLO	3	4	75.2	3414.6	1220.9	18.0	0.23	4.07	0.24
* 3	NUNNUN SUP	5	7	98.2	3468.7	971.6	18.0	0.30	4.66	0.18
* 4	NUNNUN INF	7	8	67.3	2999.0	819.8	8.0	1.05	5.69	0.12
* 5	ARASCORGUE A	9	10	40.7	3311.3	1185.9	10.0	0.41	7.75	0.25
* 6	ARASCORGUE B	10	11	14.2	2888.0	1052.0	3.0	1.58	11.60	0.21
* 7	QDA PANTEON	12	13	23.9	2927.7	806.9	7.0	0.49	8.03	0.29
* 8	TINGO SUP	14	16	99.5	3438.1	961.5	17.0	0.34	5.03	0.17
* 9	TINGO MED	16	17	13.3	3131.0	861.9	3.0	1.48	17.87	0.23
* 10	TINGO INF	17	18	6.4	2779.0	775.8	3.0	0.71	9.97	0.47
* 11	PARAGUARAN	19	20	55.5	3229.2	893.3	9.0	0.69	10.33	0.16
* 12	SHUGAR SUP	21	22	70.0	3027.5	828.8	7.0	1.43	16.93	0.10
* 13	SHUGAR INF	22	23	5.5	2490.0	734.5	4.0	0.34	4.75	0.73
* 14	CHONTA SUP	24	25	70.6	3001.1	1080.4	13.0	0.42	1.54	0.18
* 15	CHONTA INF	25	26	33.9	2286.0	995.7	3.0	3.77	11.87	0.09
* 16	CONCHAN SUP	27	29	51.9	2581.1	984.4	6.0	1.44	11.30	0.12
* 17	CONCHAN INF	29	31	284.5	2609.0	1062.4	16.0	1.11	9.68	0.06
* 18	CUTERVO	32	36	562.1	2338.2	1025.9	40.0	0.35	6.72	0.07
* 19	LLAUCANO A	37	40	182.4	3341.4	1196.1	25.0	0.29	5.62	0.14
* 20	LLAUCANO B	40	44	38.9	2994.9	998.8	8.0	0.61	13.76	0.21
* 21	LLAUCANO C	44	48	128.8	3114.1	1121.9	10.0	1.29	23.46	0.08
* 22	LLAUCANO D	48	55	842.7	1913.2	1097.2	63.0	0.21	8.43	0.07

***** CARACTERISTICAS DE LA CUENCA 2822.6 2574.8 1057.6 303.0 0.03 7.92 0.11 *****



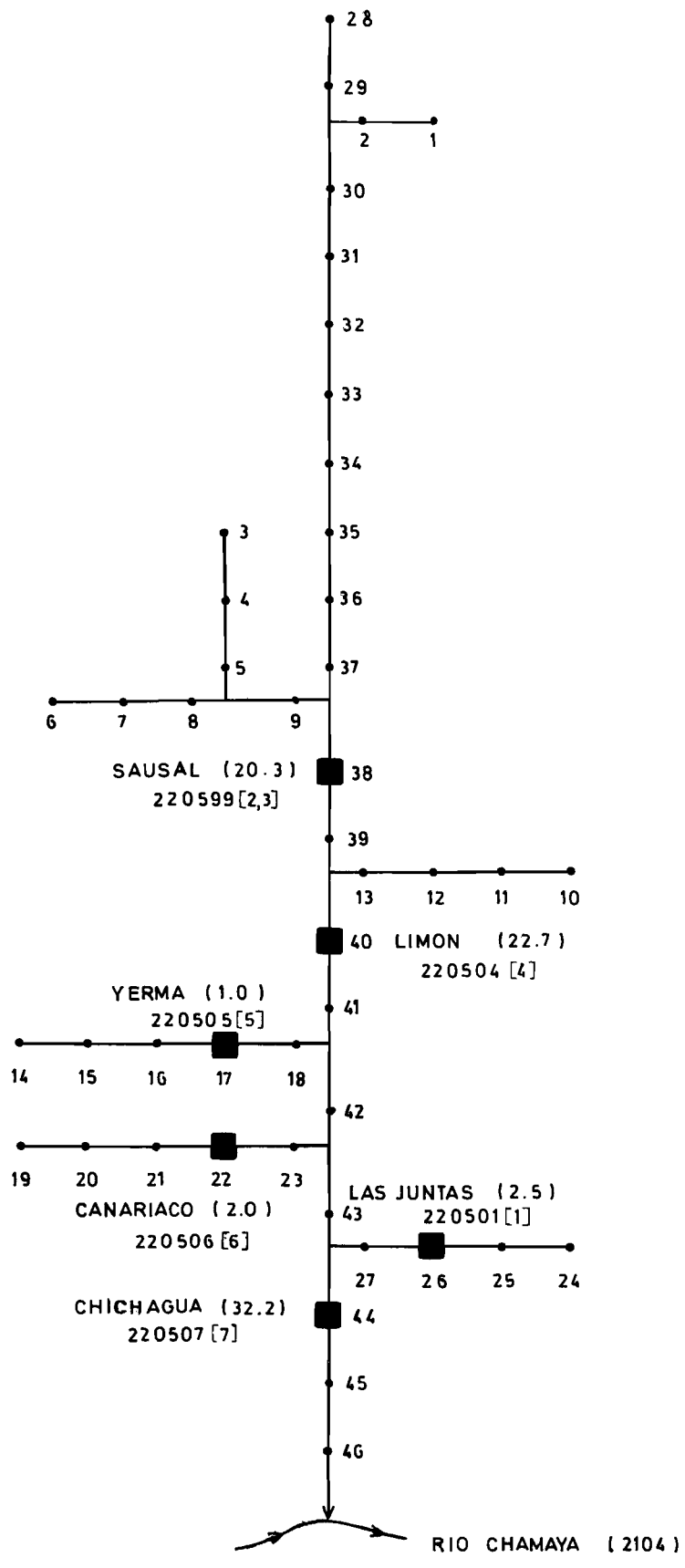
EVALUACION DEL
PROYECTO
HIDROELECTRICO
NACIONAL

DIAGRAMA FLUVIAL:

CHAMAYA 2104

FLOW DIAGRAM:

Fig. 70



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

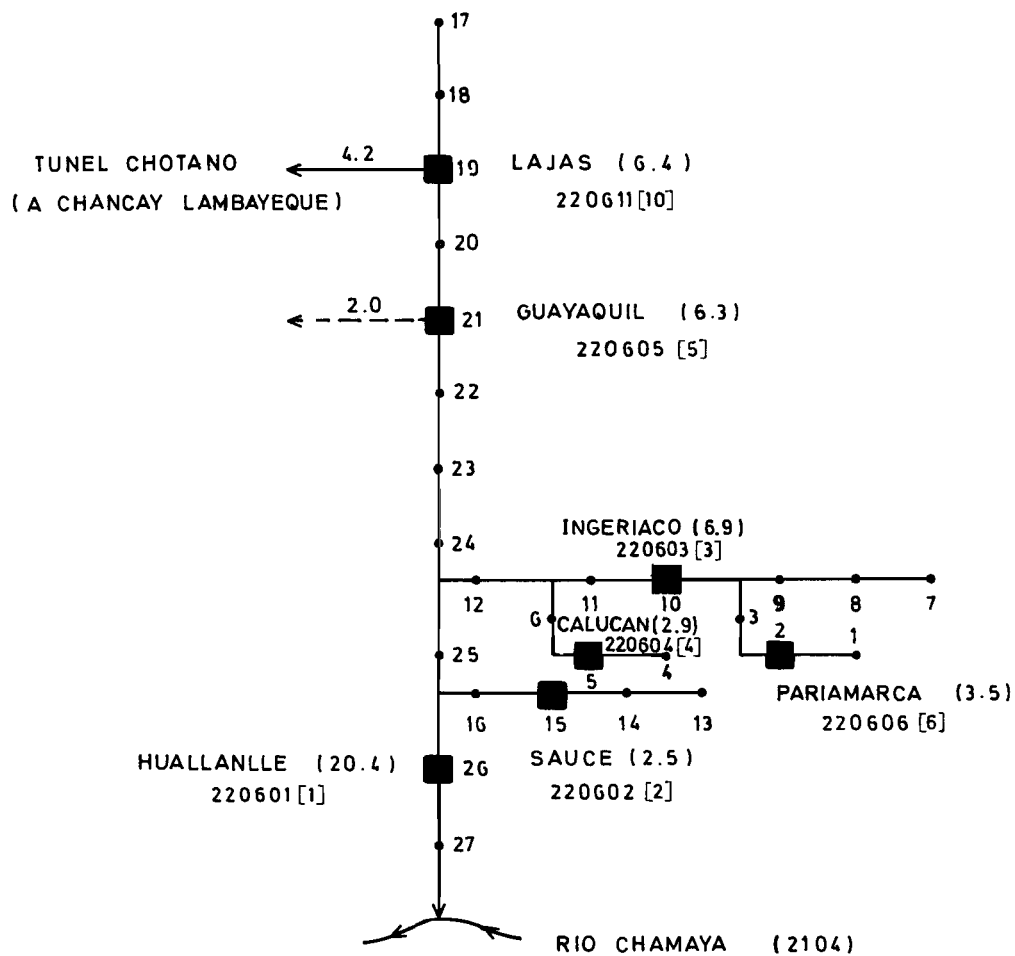
DIAGRAMA FLUVIAL:
 HUANCABAMBA 2105
 FLOW DIAGRAM:

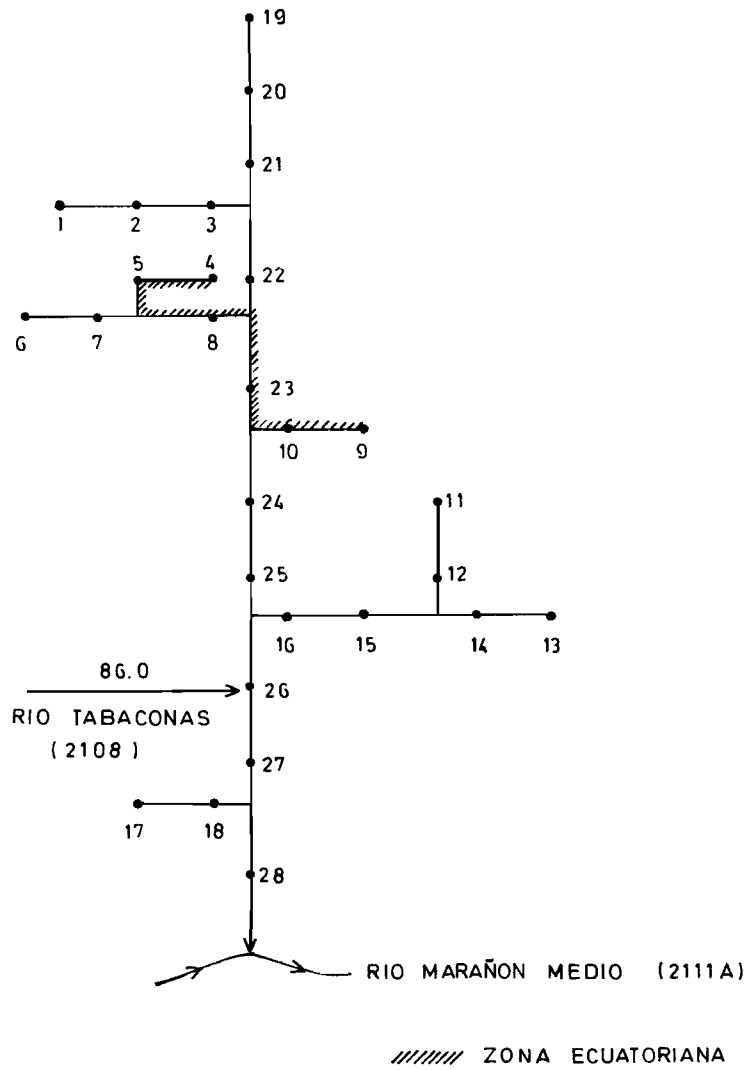
Fig. 71

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 13 *
* # DE PUNTOS : 29 *
* DEL RIO CHAMAYA , CODIGO 2104 * # DE ESTACIONES HIDROMETRICAS : 5 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 CALLAYUC 1 2 100.0 1709.5 1042.5 16.0 0.39 5.66 0.16 *
* 2 STA CRUZ 3 5 270.0 1671.2 1036.0 23.0 0.51 6.77 0.09 *
* 3 CUCU 6 7 220.0 1492.7 1001.7 20.0 0.55 5.03 0.09 *
* 4 ANTA 8 9 210.0 2494.9 1182.0 16.0 0.82 5.24 0.08 *
* 5 BUTU SUP 10 11 110.0 2082.0 1093.1 10.0 1.10 6.94 0.09 *
* 6 BUTU INF 11 12 140.0 1605.0 1026.8 6.0 3.89 10.92 0.04 *
* 7 BARBASCO SUP 13 14 90.0 1857.1 1063.1 11.0 0.74 4.39 0.12 *
* 8 BARBASCO INF 14 15 20.0 1248.0 949.1 5.0 0.80 8.16 0.25 *
* 9 CHONTALI °A° 16 18 630.0 2067.1 1101.7 30.0 0.70 5.05 0.05 *
* 10 CHONTALI °B° 18 21 190.0 1468.6 1001.0 9.0 2.35 20.62 0.05 *
* 11 CHONTALI °C° 21 22 200.0 1434.0 994.2 3.0 *22. 25.80 0.01 *
* 12 CHAMAYA SUP 23 24 410.0 1363.4 976.0 7.0 8.37 14.74 0.02 *
* 13 CHAMAYA INF 24 29 790.0 1441.6 994.3 41.0 0.47 8.72 0.05 *
*****
* CARACTERISTICAS DE LA CUENCA 3380.0 1682.3 1035.5 197.0 0.09 7.77 0.06 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
* CHOT/HBAMBA 23 5142.5 2180.1 813.4 484.0 0.02 8.37 0.09 *
*****
* CARACTERISTICAS ACUMULATIVAS 8522.5 1982.7 901.5 681.0 0.02 8.20 0.08 *
*****
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 14 *
* # DE PUNTOS : 46 *
* DEL RIO HUANCABAMBA , CODIGO 2105 * # DE ESTACIONES HIDROMETRICAS : 6 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 CHORRU 1 2 45.2 3147.2 1316.8 11.0 0.37 5.63 0.24 *
* 2 QDA GRANDE 3 5 59.5 2422.6 842.5 15.0 0.26 8.66 0.25 *
* 3 HUARMARCA 6 9 132.1 2030.3 659.5 25.0 0.21 5.66 0.19 *
* 4 PIQUIJACA 10 13 193.6 1917.3 647.8 24.0 0.34 7.19 0.12 *
* 5 YERMA SUP 14 17 270.2 2651.4 352.0 26.0 0.40 9.00 0.10 *
* 6 YERMA INF 17 18 5.3 1462.0 503.9 2.0 1.32 19.85 0.38 *
* 7 CANARIACOSUP 19 22 130.7 2523.1 920.5 24.0 0.23 8.24 0.18 *
* 8 CANARIACUINF 22 23 2.6 1602.0 534.5 2.0 0.65 29.35 0.77 *
* 9 QUISMALACHEA 24 26 266.1 2150.5 734.2 25.0 0.43 7.35 0.09 *
* 10 QUISMALACHEB 26 27 7.0 1470.0 505.2 2.0 1.75 24.25 0.29 *
* 11 HUANCABAMBAA 28 38 1436.8 2313.9 802.0 92.0 0.17 7.41 0.06 *
* 12 HUANCABAMBAB 38 40 404.2 1736.0 566.6 19.0 1.12 6.26 0.05 *
* 13 HUANCABAMBAC 40 44 175.7 1578.3 533.8 15.0 0.78 13.50 0.09 *
* 14 HUANCABAMBAD 44 46 319.3 1404.5 494.7 19.0 0.88 5.47 0.06 *
*****
* CARACTERISTICAS DE LA CUENCA 3448.3 2122.4 688.3 301.0 0.04 7.89 0.09 *
*****

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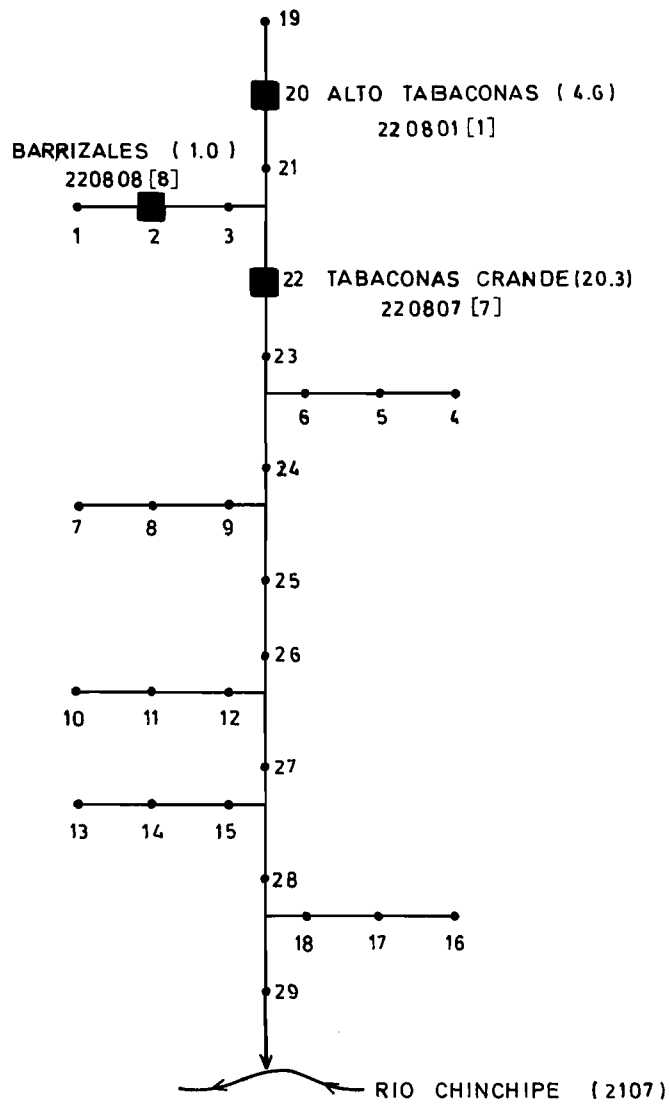
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

CHINCHIPE 2107

FLOW DIAGRAM :

Fig. 73



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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 12 *
* # DE PUNTOS : 27 *
* DEL RIO CHOTANO , CODIGO 2106 * # DE ESTACIONES HIDROMETRICAS : 7 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
* CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 CHONGOYAP.A 1 2 96.9 2785.0 1351.0 12.0 0.67 11.05 0.12 *
* 2 CHONGOYAP.B 2 3 13.7 1680.0 1000.0 4.0 0.86 10.50 0.29 *
* 3 CALUCAN SUP 4 5 95.9 2689.9 1329.0 15.0 0.43 9.45 0.16 *
* 4 CALUCAN INF 5 6 16.2 1813.0 882.9 5.0 0.65 15.26 0.31 *
* 5 PALTIC SUP 7 10 172.3 2374.3 1230.6 25.0 0.28 9.34 0.15 *
* 6 PALTIC INF 10 12 60.6 1877.5 891.7 6.0 1.68 20.35 0.10 *
* 7 SAUCES SUP 13 15 139.2 2356.0 972.2 20.0 0.35 9.59 0.14 *
* 3 SAUCES INF 15 16 27.1 1561.0 790.4 5.0 1.08 13.42 0.18 *
* 9 CHOTANO A 17 19 368.7 2858.3 1261.8 21.0 0.84 7.36 0.06 *
* 10 CHOTANO B 19 21 243.0 2156.0 955.1 25.0 0.39 4.24 0.10 *
* 11 CHOTANO C 21 26 452.1 1836.3 878.8 43.0 0.24 8.41 0.10 *
* 12 CHOTANO D 26 27 8.5 1342.0 712.6 2.0 2.12 24.10 0.24 *
*
* CARACTERISTICAS DE LA CUENCA 1694.2 2297.7 1068.2 183.0 0.05 9.17 0.11 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 8 *
* # DE PUNTOS : 28 *
* DEL RIO CHINCHIPE , CODIGO 2107 * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
* CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 ISIMACHE 1 3 550.0 1261.9 1028.0 40.0 0.34 2.75 0.07 *
* 2 BLANCO 4 5 110.0 2416.4 1365.9 22.0 0.23 6.20 0.20 *
* 3 CANCHIS 6 8 640.0 1926.7 1214.9 40.0 0.40 4.90 0.06 *
* 4 SANFRANCISCO 9 10 140.0 1835.8 1199.0 21.0 0.32 5.05 0.15 *
* 5 STAAGUEDA 11 12 590.0 1711.1 1165.8 21.0 1.34 4.96 0.04 *
* 6 CHIRINOS 13 16 995.0 1298.9 1033.1 65.0 0.24 3.40 0.07 *
* 7 SHUMBA 17 18 310.0 1293.9 1046.6 21.0 0.70 3.53 0.07 *
* 8 CHINCHIPE 19 28 3820.0 1336.7 1043.1 145.0 0.18 3.87 0.04 *
*
* CARACTERISTICAS DE LA CUENCA 7155.0 1433.8 1074.2 375.0 0.05 4.02 0.05 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* TABACONAS 26 3792.0 1940.6 1234.4 225.0 0.07 7.45 0.06 *
*****
* CARACTERISTICAS ACUMULATIVAS 10947.0 1609.4 1129.7 600.0 0.03 5.31 0.05 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 10 *
* # DE PUNTOS : 29 *
* DEL RIO TABACONAS , CODIGO 2108 * # DE ESTACIONES HIDROMETRICAS : 3 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* AREA PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
* CODIGO* NOMBRE * DE A *(KM*KM) (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
* 1 MANCHARASUP 1 2 40.0 2548.3 1439.2 10.0 0.40 4.86 0.25 *
* 2 MANCHARAINF 2 3 50.0 1843.0 1210.7 10.0 0.50 3.43 0.20 *
* 3 ANAUALLA 4 6 430.0 2347.5 1361.1 40.0 0.27 5.05 0.09 *
* 4 HUAHUALLA 7 9 755.0 2069.7 1277.4 24.0 1.31 8.31 0.03 *
* 5 GRANADILLA 10 12 252.0 2180.8 1312.4 20.0 0.63 6.73 0.08 *
* 6 ALTOMANCHARA 13 15 270.0 1679.2 1161.7 18.0 0.83 5.72 0.07 *
* 7 CULEBRA 16 18 175.0 1547.2 1102.9 18.0 0.54 9.54 0.10 *
* 8 TABACONASSUP 19 20 150.0 2866.7 1550.0 13.0 0.89 7.05 0.09 *
* 9 TABACONASMED 20 22 440.0 2320.0 1345.0 10.0 4.40 18.52 0.02 *
* 10 TABACONASINF 22 29 1230.0 1518.9 1098.7 62.0 0.32 8.14 0.05 *
*
* CARACTERISTICAS DE LA CUENCA 3792.0 1940.6 1234.4 225.0 0.07 7.45 0.06 *
*****

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