

EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

PAMPAS 2204

FLOW DIAGRAM :

2/2

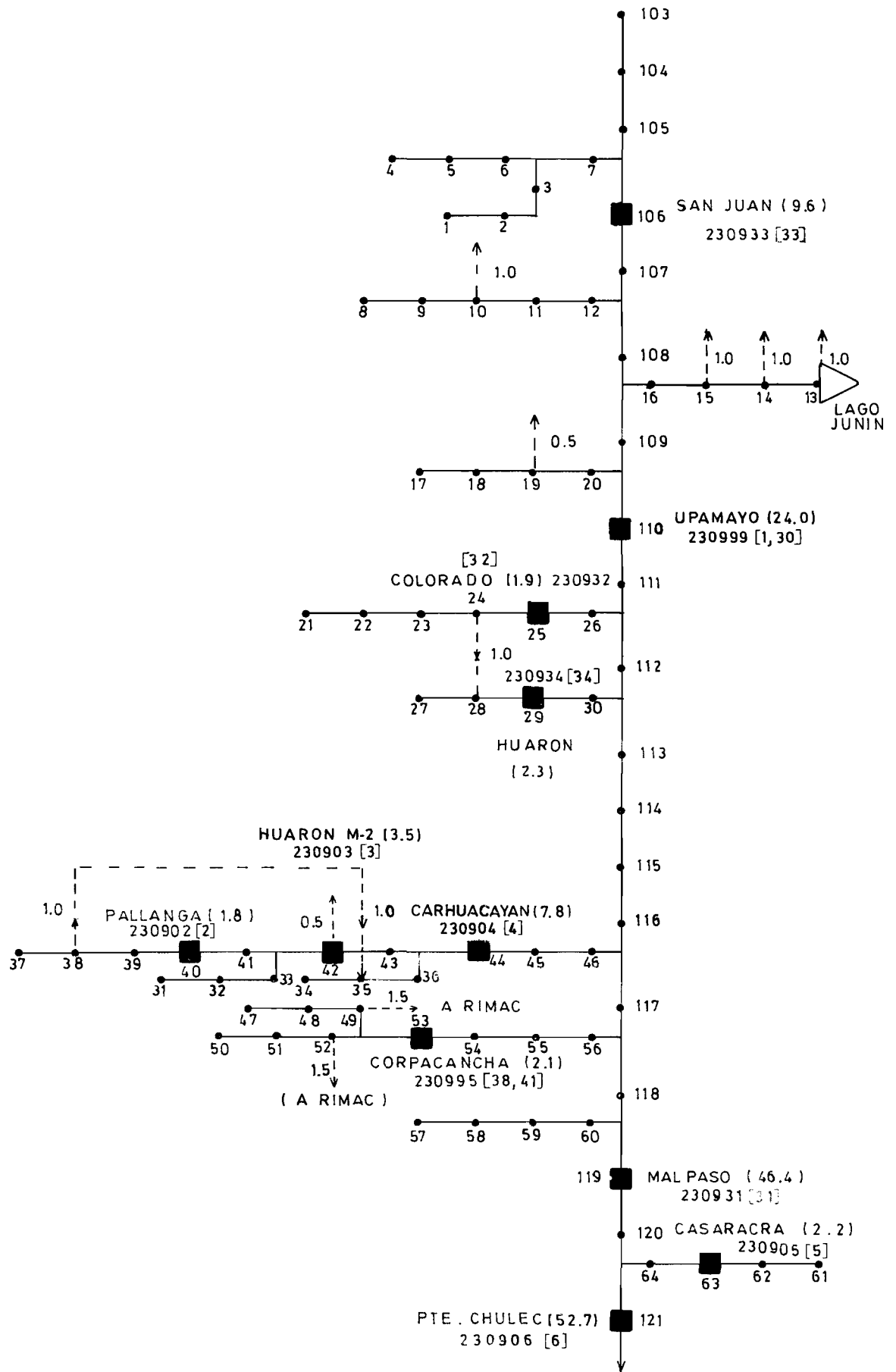
Fig. 102

REPRESENTACION Y CARACTERISTICAS DE LA CUENCA											
										# DE TRAMOS	: 23
										# DE PUNTOS	: 81
DEL RIO APURIMAC INFERIOR , CODIGO 2203F										# DE ESTACIONES HIDROMETRICAS	: 0
TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD			
CODIGO	NOMBRE	DE A	*(KM*KM)	PROMEDIA (METROS)	PROMEDIA (MM/ANO)	RIOS (KM)	FORMA (-)	PROM. (%)	DREN. (1/KM)		
* 1	PUNANQUI	1	2	346.7	3270.2	726.5	14.0	1.77	12.93	0.04	
* 2	STO TOMAS	3	5	333.2	3265.7	725.0	27.0	0.46	12.49	0.08	
* 3	TRAPICHE	6	7	143.6	3150.8	688.2	25.0	0.23	4.22	0.17	
* 4	PAMPUTA	8	9	244.4	3844.4	868.8	31.0	0.25	5.34	0.13	
* 5	VILCABAMBA	10	13	1107.2	3404.0	768.7	47.0	0.50	11.24	0.04	
* 6	PACHACHACA	14	17	2487.8	3231.0	713.9	77.0	0.42	9.57	0.03	
* 7	MOPILLO	18	19	228.4	3007.6	1001.5	31.0	0.24	7.10	0.14	
* 8	PACAYBAMBAS	20	21	109.3	3291.3	1058.2	23.0	0.21	7.63	0.21	
* 9	PAMPAONAS	22	24	561.4	3071.8	1000.4	53.0	0.20	7.49	0.09	
* 10	APUR1	25	26	261.9	1877.3	1337.8	28.0	0.33	5.34	0.11	
* 11	APUR2	27	28	81.1	1836.6	1348.4	15.0	0.36	8.52	0.18	
* 12	CHIRUMPIARI	29	30	44.0	1981.0	1306.7	10.0	0.44	14.69	0.23	
* 13	SACHABAMBA	31	32	345.6	3733.8	1132.8	32.0	0.34	7.22	0.09	
* 14	APARITABUMCO	33	35	390.9	3320.2	1057.8	42.0	0.22	9.81	0.11	
* 15	SAMOGAN	36	37	80.3	1825.9	1358.2	23.0	0.15	6.20	0.29	
* 16	SAMANIATADO	38	39	92.6	1817.5	1360.7	13.0	0.55	11.78	0.14	
* 17	SANTAROSA	40	42	307.7	1844.5	1354.0	29.0	0.37	8.38	0.09	
* 18	CHURITIARU	43	44	26.6	1572.4	1437.7	10.0	0.27	12.61	0.38	
* 19	PIENE	45	47	846.7	3249.5	1049.9	70.0	0.17	5.15	0.08	
* 20	PICHARI	48	49	383.4	2794.2	1135.3	37.0	0.28	6.25	0.10	
* 21	ACON	50	52	300.9	2528.3	1213.1	34.0	0.26	3.89	0.11	
* 22	QUISTO	53	54	68.7	2510.2	1199.0	10.0	0.69	25.44	0.15	
* 23	APURIMAC	55	81	6563.6	2782.5	981.5	376.0	0.05	8.80	0.06	

CARACTERISTICAS DE LA CUENCA										
			15355.9	2959.8	948.4	1057.0	0.01	8.39	0.07	
TRIBUTARIOS CONSIDERADOS SEPARADAMENTE										
TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD		
CODIGO	NOMBRE	DE A	*(KM*KM)	PROMEDIA (METROS)	PROMEDIA (MM/ANO)	RIOS (KM)	FORMA (-)	PROM. (%)	DREN. (1/KM)	
* 1	PUNANQUI	1	793.3	4103.3	903.1	79.0	0.13	3.99	0.10	
* 3	STO TOMAS	3	3072.0	4195.8	909.4	372.0	0.02	5.87	0.12	
* 10	VILCABAMBA	10	2574.9	4355.7	932.4	227.0	0.05	7.78	0.09	
* 14	PACHACHACA	14	5607.9	4157.0	993.5	427.0	0.03	8.58	0.08	
* 55	APURIMAC SU	55	13537.6	4237.5	731.6	1522.0	0.01	3.25	0.11	
* 65	PAMPAS	65	23741.6	3821.1	853.0	1446.0	0.01	8.17	0.06	
CARACTERISTICAS ACUMULATIVAS										
			64683.2	3775.4	868.9	5130.0	0.00	6.54	0.08	

REPRESENTACION Y CARACTERISTICAS DE LA CUENCA											
										# DE TRAMOS	: 23
										# DE PUNTOS	: 174
DEL RIO PAMPAS , CODIGO 2204										# DE ESTACIONES HIDROMETRICAS	: 3
TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD			
CODIGO	NOMBRE	DE A	*(KM*KM)	PROMEDIA (METROS)	PROMEDIA (MM/ANO)	RIOS (KM)	FORMA (-)	PROM. (%)	DREN. (1/KM)		
* 1	PALMITOS	1	5	361.1	4622.1	761.2	34.0	0.31	6.37	0.09	
* 2	SECO	6	10	298.0	4331.9	948.2	32.0	0.29	4.21	0.11	
* 3	CHALHUAMAYO	11	16	595.2	4189.7	1048.0	41.0	0.35	5.62	0.07	
* 4	ALPACANCHA	17	22	465.8	4323.0	950.4	42.0	0.26	5.40	0.09	
* 5	URABAMBA	23	29	1164.0	4150.4	1072.8	60.0	0.32	2.14	0.05	
* 6	LUCANAMARCA	30	34	761.4	4210.5	1025.6	40.0	0.48	6.59	0.05	
* 7	CARACHA SUPE	35	40	1356.3	4293.8	976.7	50.0	0.54	3.43	0.04	
* 8	CARACHA INFE	40	46	1131.1	3875.3	1159.1	60.0	0.31	7.58	0.05	
* 9	HUANCAPI	47	52	255.6	3513.9	984.9	42.0	0.14	1.96	0.16	
* 10	VISCHONGO	53	59	737.6	3816.4	1218.9	54.0	0.25	6.90	0.07	
* 11	NEGROMAYO	60	67	652.0	4286.3	476.8	56.0	0.21	4.79	0.09	
* 12	PANCOY	68	72	451.3	3975.0	522.5	41.0	0.27	6.92	0.09	
* 13	HUANCARAMA	73	77	202.7	3762.0	559.4	40.0	0.13	4.56	0.20	
* 14	SONDONDO SUP	78	85	1332.0	4305.2	474.2	67.0	0.30	6.30	0.05	
* 15	SONDONDO INF	85	90	1028.0	3544.9	584.3	47.0	0.47	10.78	0.05	
* 16	YANAMAYO	91	94	141.6	4067.5	674.1	30.0	0.16	3.54	0.21	
* 17	PAUCHE	95	99	411.4	4049.7	677.7	40.0	0.26	6.13	0.10	
* 18	SORAS	100	111	2482.7	3876.0	700.4	107.0	0.22	8.85	0.04	
* 19	HUANCARAY	112	117	812.8	3721.1	724.3	48.0	0.35	9.19	0.06	
* 20	TOROBAMBA	118	123	860.9	3374.0	961.5	52.0	0.32	10.48	0.06	
* 21	CHUMBAO	124	130	681.9	3638.6	739.7	60.0	0.19	10.43	0.09	
* 22	PAMPAS SUPER	131	160	4564.9	3758.7	952.2	274.0	0.06	9.77	0.06	
* 23	PAMPAS INFER	160	174	2993.3	3050.4	848.3	129.0	0.18	17.73	0.04	

CARACTERISTICAS DE LA CUENCA										
			23741.6	3821.1	853.0	1446.0	0.01	8.17	0.06	



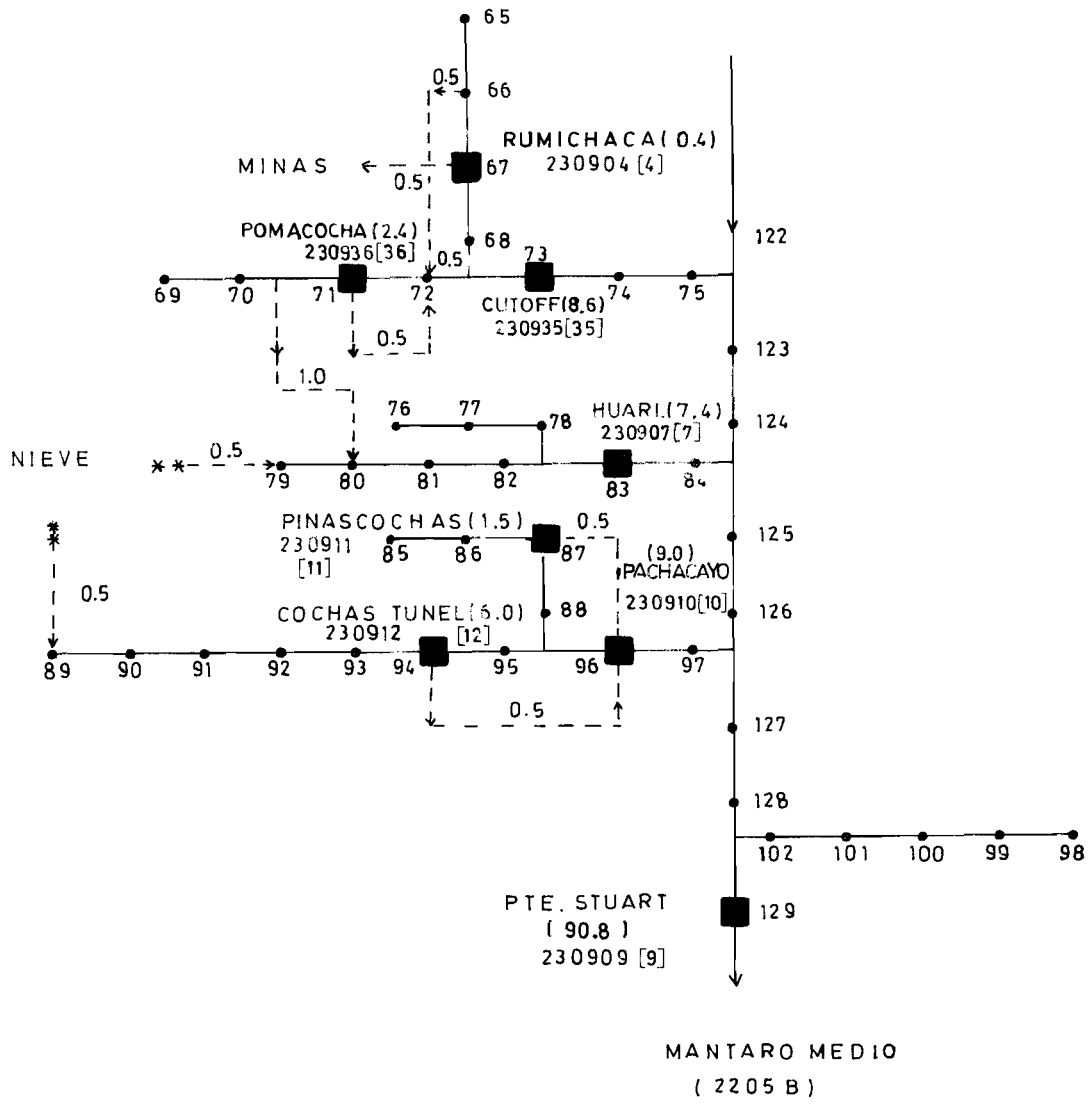
EVALUACION DEL
POTENCIAL
HIDROELECTRICO
NACIONAL

DIAGRAMA FLUVIAL:
MANTARO SUP 2205 A
FLOW DIAGRAM:

MANTARO SUP 2205 A

Fig. 103

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EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL:
MANTARO SUP 2205 A
 FLOW DIAGRAM:

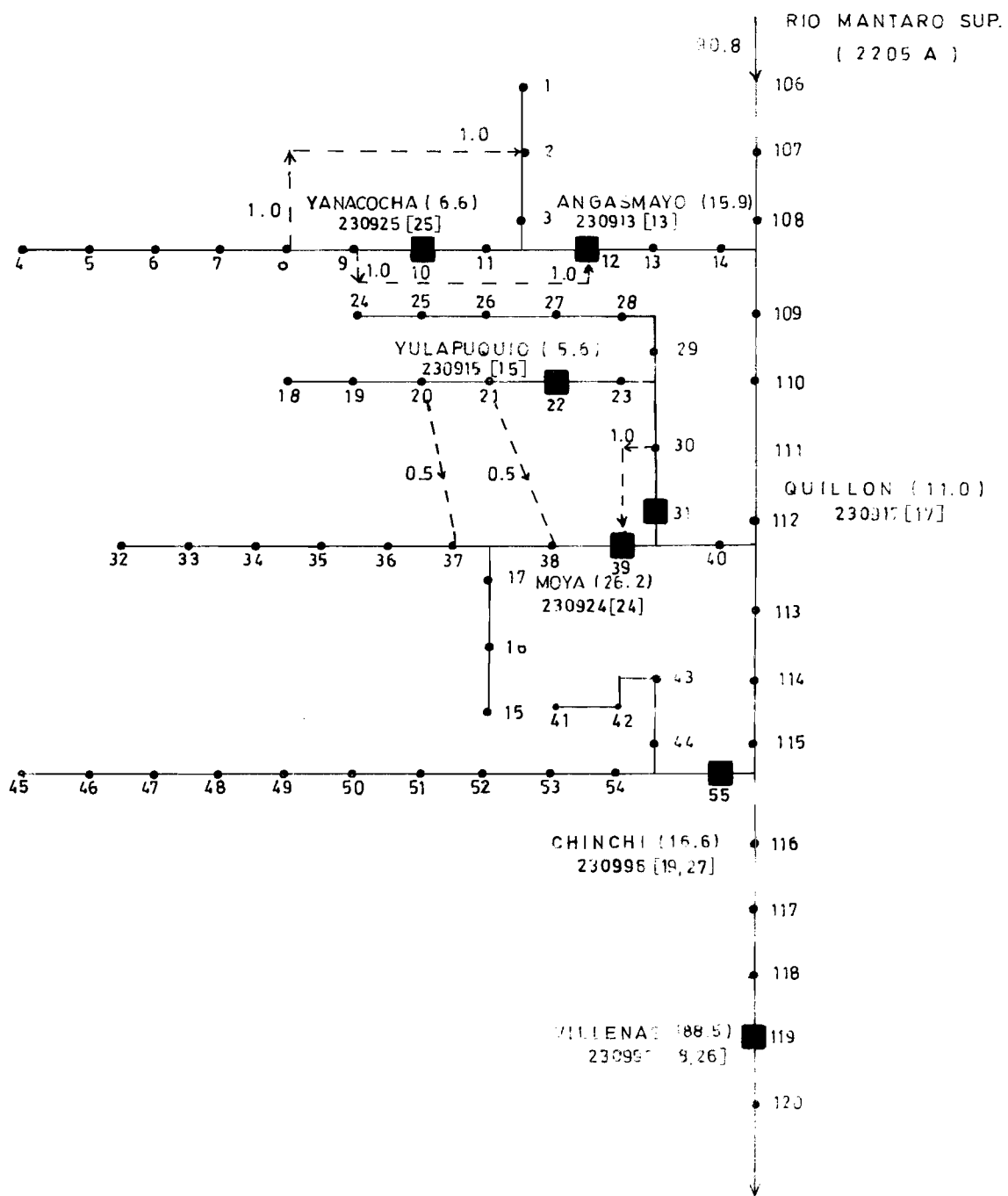
Fig. 104

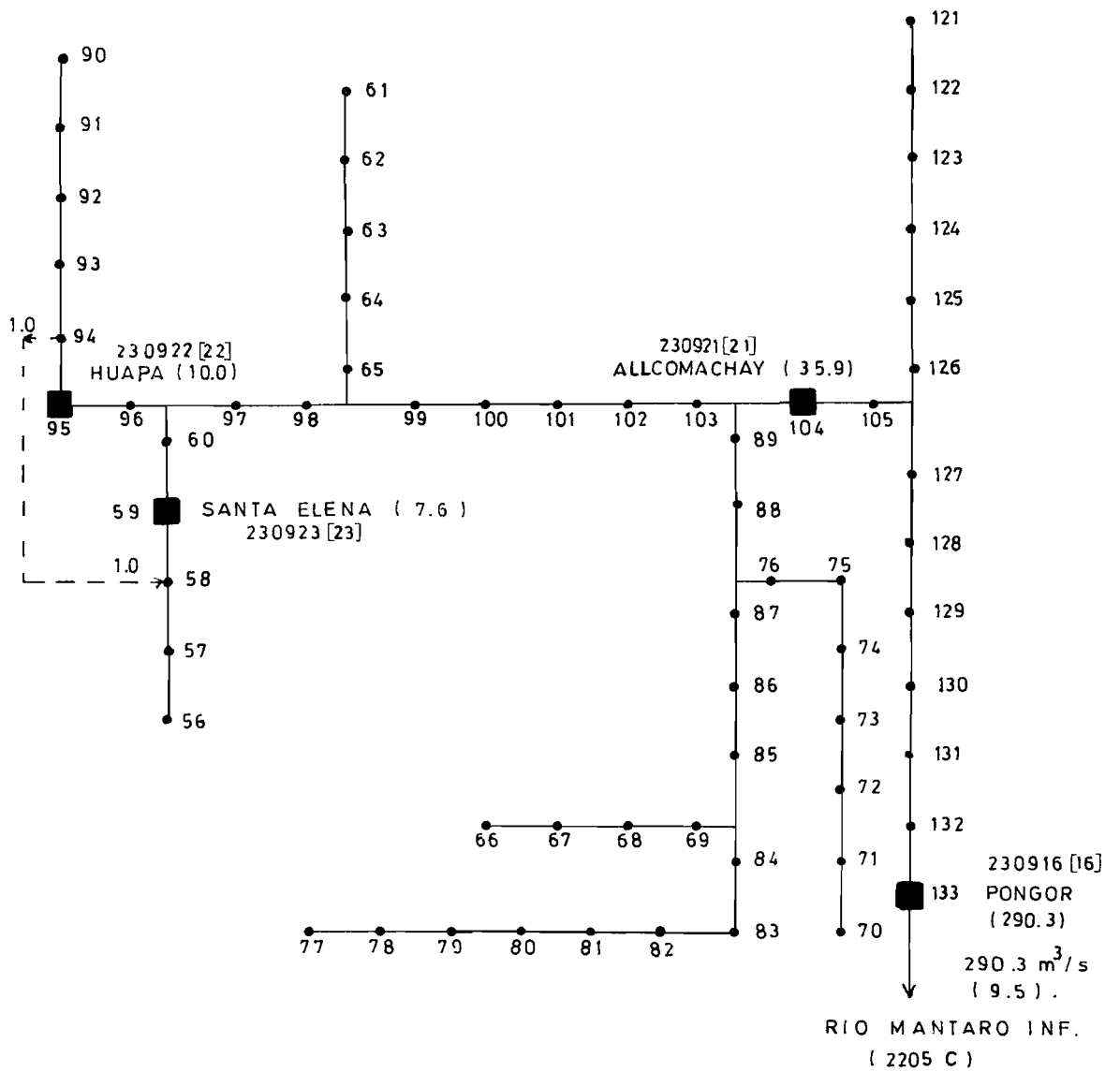
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										# DE PUNTOS : 129 *
* DEL RIO MANTARO SUPERIOR , CODIGO 2205A *										# DE ESTACIONES HIDROMETRICAS : 19 *

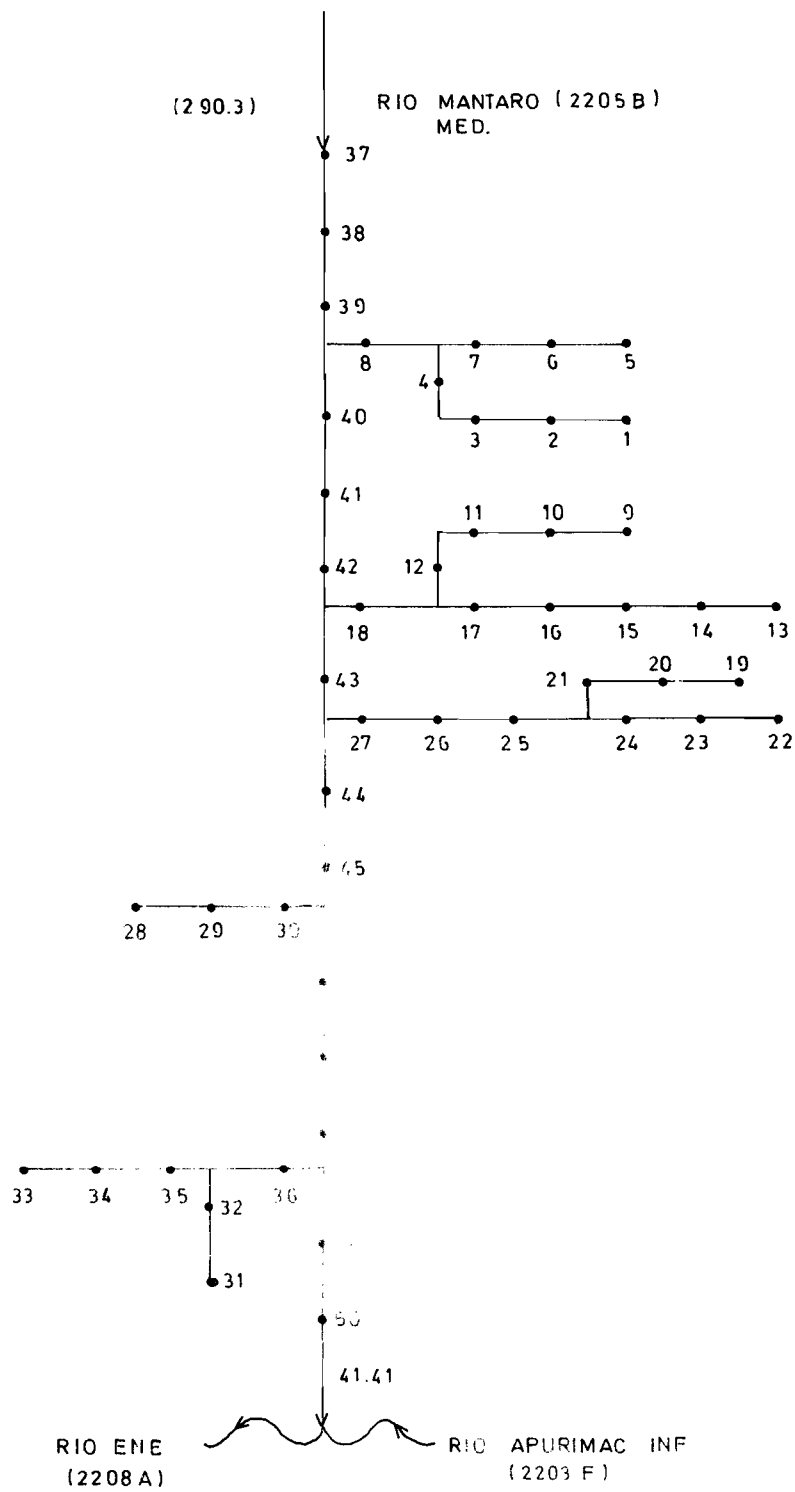
TRAMO	PUNTOS	AREA	ALTURA	LLUVIA	LONG	FACTOR	PEND.	DENSIDAD		
CODIGO	NOMBRE	DE A	*(KM*KM)	(METROS)	(MM/ANO)	(KM)	(%)	(1/KM)	PROM.	DREN.

* 1	GASUAN	1	3	106.0	4373.8	1090.8	25.0	0.17	0.82	0.24
* 2	HUARUPAMPA	4	7	100.3	4363.8	1087.3	26.0	0.15	0.78	0.26
* 3	BLANCO	8	12	286.6	4566.9	1158.3	48.0	0.12	2.13	0.17
* 4	LAGO JUNIN	13	16	1582.9	4282.4	764.0	32.0	1.55	2.14	0.02
* 5	RACRANCANCHA	17	20	90.7	4331.4	1076.4	27.0	0.12	1.46	0.30
* 6	COLORADO SUP	21	25	251.5	4501.0	802.7	40.0	0.16	1.75	0.16
* 7	COLORADO INF	25	26	2.2	4089.0	722.2	3.0	0.24	0.37	1.36
* 8	ANTICONA	27	29	75.0	4379.8	781.5	10.0	0.75	4.81	0.13
* 9	HUARON	29	30	16.6	4200.0	750.0	6.0	0.46	2.10	0.36
* 10	TAMBO	31	33	153.2	4601.2	821.3	22.0	0.32	4.21	0.14
* 11	CASACANCHA	34	36	174.1	4586.9	817.9	24.0	0.30	3.78	0.14
* 12	CONOCANCHA A	37	40	243.8	4566.3	814.2	30.0	0.27	1.42	0.12
* 13	CONOCANCHA B	40	42	6.5	4377.7	781.1	2.0	1.62	15.80	0.31
* 14	CONOCANCHA C	42	44	9.6	4326.7	772.2	3.0	1.07	13.03	0.31
* 15	CONOCANCHA D	44	46	123.5	4273.3	762.8	18.0	0.38	2.72	0.15
* 16	GASHA	47	49	155.2	4574.9	815.8	20.0	0.39	2.91	0.13
* 17	CORPACANCHA A	50	53	175.7	4658.2	832.2	23.0	0.33	4.27	0.13
* 18	CORPACANCHA B	53	56	277.5	4414.3	787.5	24.0	0.48	4.72	0.09
* 19	PUCAYAN	57	60	142.4	4550.7	812.5	27.0	0.20	5.20	0.19
* 20	ATOCHUARCO A	61	63	270.2	4245.7	758.0	26.0	0.40	3.11	0.10
* 21	ATOCHUARCO B	63	64	1.5	3908.0	677.0	1.0	1.50	15.80	0.67
* 22	PUCARA SUP	65	67	143.6	4564.8	814.4	15.0	0.64	5.12	0.10
* 23	PUCARA INF	67	68	6.7	4153.0	738.2	3.0	0.74	6.03	0.45
* 24	YAULI A	69	71	242.3	4736.8	847.3	25.0	0.39	5.58	0.10
* 25	YAULI B	71	73	159.2	4426.9	789.7	15.0	0.71	5.87	0.09
* 26	YAULI C	73	75	91.8	4156.7	739.2	15.0	0.41	5.18	0.16
* 27	ANDAYCARUGA	76	78	133.1	4607.1	822.4	18.0	0.41	6.83	0.14
* 28	HUARI SUP	79	83	263.6	4619.1	824.6	41.0	0.16	5.00	0.16
* 29	HUARI INF	83	84	1.3	3700.0	637.5	1.0	1.30	9.70	0.77
* 30	PINASCOCHASA	85	87	194.3	4376.9	781.0	20.0	0.49	3.89	0.10
* 31	PINASCOCHASB	87	88	3.1	3950.0	687.5	1.0	3.10	20.40	0.32
* 32	PACHACAYO A	89	94	478.9	4456.7	792.7	47.0	0.22	4.59	0.10
* 33	PACHACAYO B	94	96	38.9	3919.5	679.9	6.0	1.08	6.80	0.15
* 34	PACHACAYO C	96	97	118.5	4012.0	703.0	6.0	3.29	8.45	0.05
* 35	QUISUALCANCH	98	102	316.7	4075.0	718.5	38.0	0.22	3.78	0.12
* 36	MANTARO A	103	106	498.6	4291.8	1062.1	39.0	0.33	1.01	0.08
* 37	MANTARO B	106	110	129.6	4170.9	939.7	11.0	1.07	1.65	0.08
* 38	MANTARO C	110	119	892.3	4246.7	757.9	79.0	0.14	2.79	0.09
* 39	MANTARO D	119	121	296.6	4253.6	759.4	21.0	0.67	4.92	0.07
* 40	MANTARO E	121	129	935.8	3984.3	696.6	79.0	0.15	5.08	0.08

* CARACTERISTICAS DE LA CUENCA			9189.9	4332.8	810.5	917.0	0.01	3.60	0.10	*








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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 23 *
* # DE PUNTOS : 133 *
* DEL RIO MANTARO MEDIO , CODIGO 2205B * # DE ESTACIONES HIDROMETRICAS : 11 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* CODIGO* NOMBRE * DE A *(KM*KM) PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
* (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
*
* 1 AGUACHI 1 3 67.9 3954.9 693.7 19.0 0.19 3.75 0.28 *
* 2 CONAS SUPERI 4 10 1010.4 4321.4 745.3 63.0 0.25 4.88 0.06 *
* 3 CONAS MEDIO 10 12 533.4 4024.2 703.4 14.0 2.72 7.99 0.03 *
* 4 CONAS INFERI 12 14 158.3 3595.4 643.4 17.0 0.55 4.70 0.11 *
* 5 SANTO 15 17 557.7 4493.7 996.7 23.0 1.05 8.19 0.04 *
* 6 AMARAES SUPE 18 22 613.7 4596.2 789.8 41.0 0.37 6.23 0.07 *
* 7 AMARAES INFE 22 23 10.4 3650.0 651.0 4.0 0.65 7.50 0.38 *
* 8 CANIPACO INF 24 31 694.7 4241.1 736.0 77.0 0.12 4.37 0.11 *
* 9 VILCA SUPERI 32 39 1190.2 4334.4 967.5 75.0 0.21 6.47 0.06 *
* 10 VILCA INFERI 39 40 13.8 3450.0 840.0 3.0 1.53 15.50 0.22 *
* 11 PALLCA 41 44 192.9 4186.9 946.9 28.0 0.25 8.16 0.15 *
* 12 ICHU 45 55 1218.6 4219.4 949.8 97.0 0.13 6.10 0.08 *
* 13 ASOHUARMA SP 56 59 570.0 4402.0 757.3 32.0 0.56 6.06 0.06 *
* 14 ASOHUARMA IF 59 60 62.3 3882.0 683.5 12.0 0.43 5.31 0.19 *
* 15 HUAYANAY 61 65 458.2 4038.8 705.4 37.0 0.33 4.63 0.08 *
* 16 PACCHO 66 69 252.0 4183.9 725.8 33.0 0.23 5.65 0.13 *
* 17 PONGORA 70 76 1275.7 3563.0 638.8 61.0 0.34 7.79 0.05 *
* 18 CACHIMAYO 77 89 2115.9 3742.7 665.0 131.0 0.12 6.22 0.06 *
* 19 HUARPA SUPER 90 95 960.1 4328.7 966.6 48.0 0.42 7.96 0.05 *
* 20 HUARPA MEDIO 95 104 1134.0 3517.3 632.9 74.0 0.21 8.64 0.07 *
* 21 HUARPA INFER 104 105 17.9 2300.0 480.0 4.0 1.12 4.00 0.22 *
* 22 MANTARO MEDC 106 119 3145.7 3954.3 764.2 150.0 0.14 8.41 0.05 *
* 23 MANTARO MEDD 119 133 2326.2 3431.8 832.8 164.0 0.09 11.00 0.07 *
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* CARACTERISTICAS DE LA CUENCA 18580.0 3958.3 782.4 1207.0 0.01 7.24 0.06 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* MANTARO SUP 106 9189.9 4332.8 810.5 917.0 0.01 3.60 0.10 *
*****
* CARACTERISTICAS ACUMULATIVAS 27769.9 4082.2 791.7 2124.0 0.01 5.67 0.08 *
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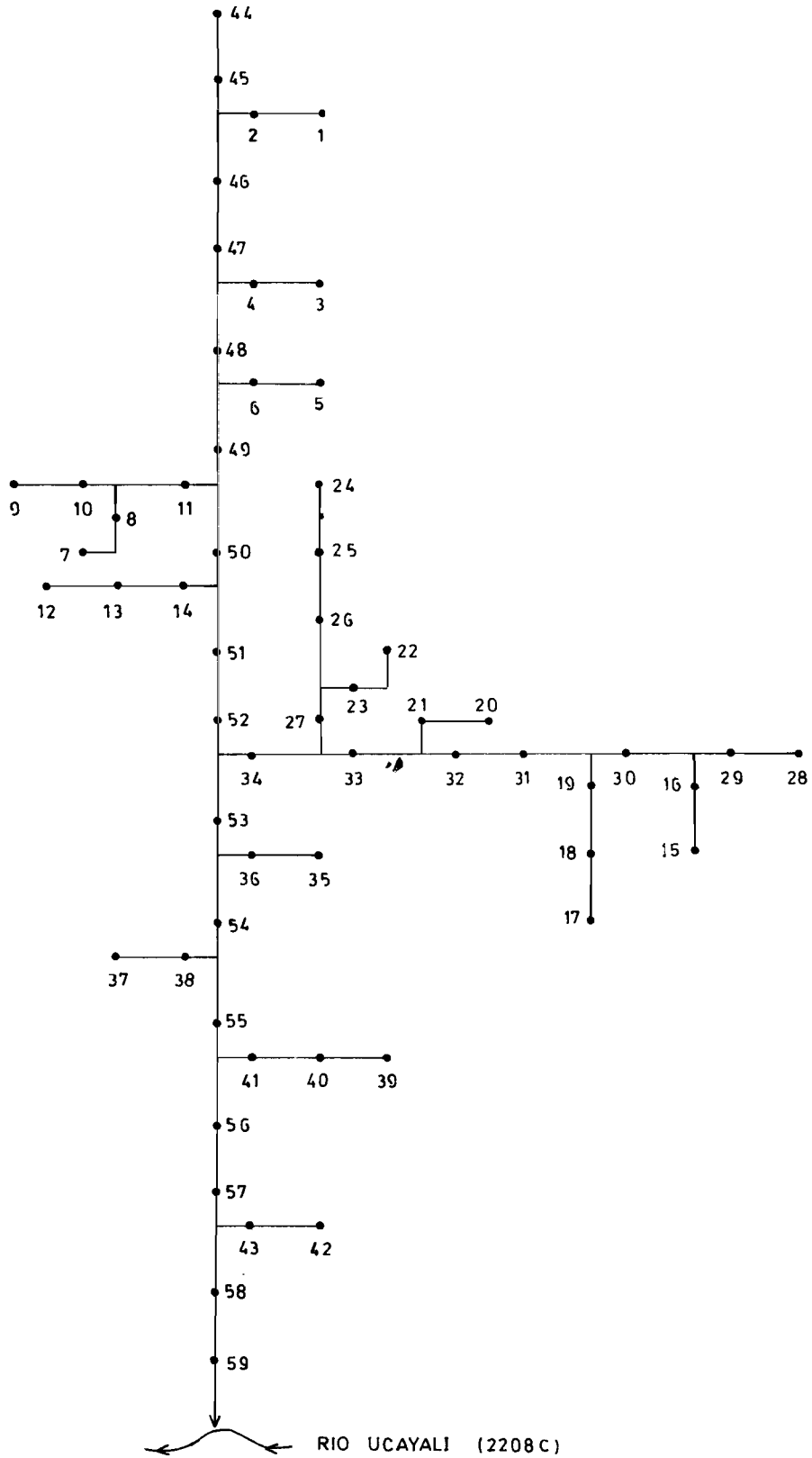
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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 10 *
* # DE PUNTOS : 50 *
* DEL RIO MANTARO INFERIOR , CODIGO 2205C * # DE ESTACIONES HIDROMETRICAS : 0 *
*****
* TRAMO * PUNTOS * ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *
* CODIGO* NOMBRE * DE A *(KM*KM) PROMEDIA PROMEDIA RIOS FORMA PROM. DREN. *
* (METROS) (MM/ANO) (KM) (-) (%) (1/KM) *
*****
*
* 1 UPAMAYU 1 4 260.2 3723.4 695.5 33.0 0.24 9.75 0.13 *
* 2 HUANCHUY 5 8 702.5 3760.5 694.8 49.0 0.29 10.97 0.07 *
* 3 MATIBAMBA 9 12 328.8 3836.3 695.7 39.0 0.22 10.28 0.12 *
* 4 PARIAHUANCA 13 18 770.8 3480.5 709.9 50.0 0.31 14.49 0.06 *
* 5 PUNTO 19 21 238.9 3753.6 698.2 29.0 0.28 5.90 0.12 *
* 6 SN FERNANDO 22 27 931.9 3038.9 759.9 65.0 0.22 9.21 0.07 *
* 7 PARAISO 28 30 419.3 3047.5 736.5 33.0 0.39 11.80 0.08 *
* 8 UCHUYUNCA 31 32 92.5 2477.2 827.8 21.0 0.21 4.25 0.23 *
* 9 QUINQUIPUNCO 33 36 447.7 3179.6 725.7 40.0 0.28 13.08 0.09 *
* 10 MANTARO INF 37 50 2630.0 2580.4 828.3 196.0 0.07 11.81 0.07 *
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* CARACTERISTICAS DE LA CUENCA 6822.6 3078.0 763.4 555.0 0.02 10.94 0.08 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* MANTARO MEDIO 37 27769.9 4082.3 791.7 2124.0 0.06 5.67 0.00 *
*****
* CARACTERISTICAS ACUMULATIVAS 284592.4 4058.2 791.0 2679.0 0.04 6.76 0.00 *
*****

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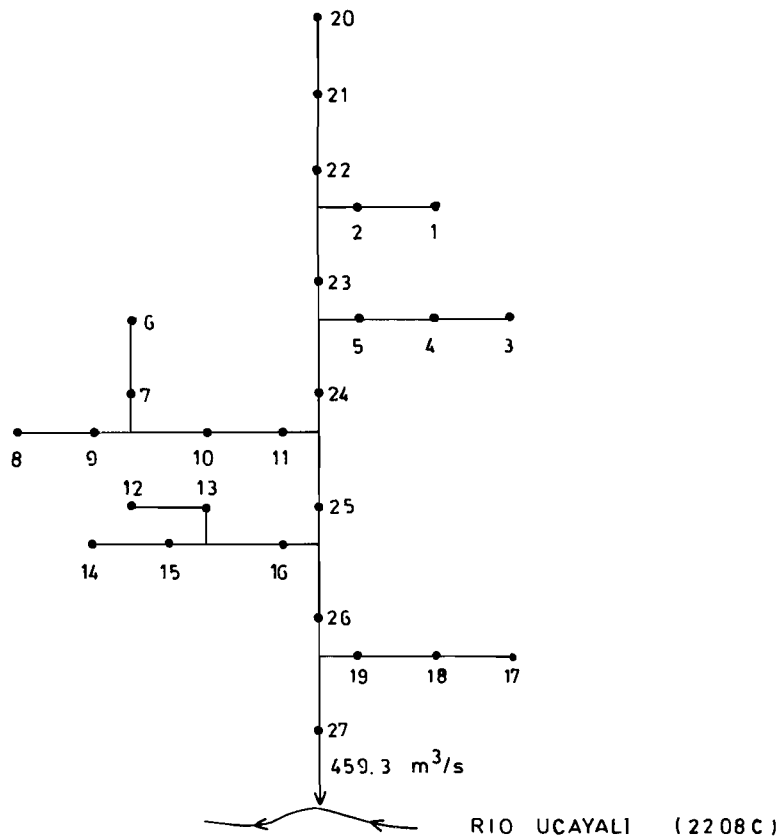
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

PACHITEA 2206

FLOW DIAGRAM :

Fig. 108



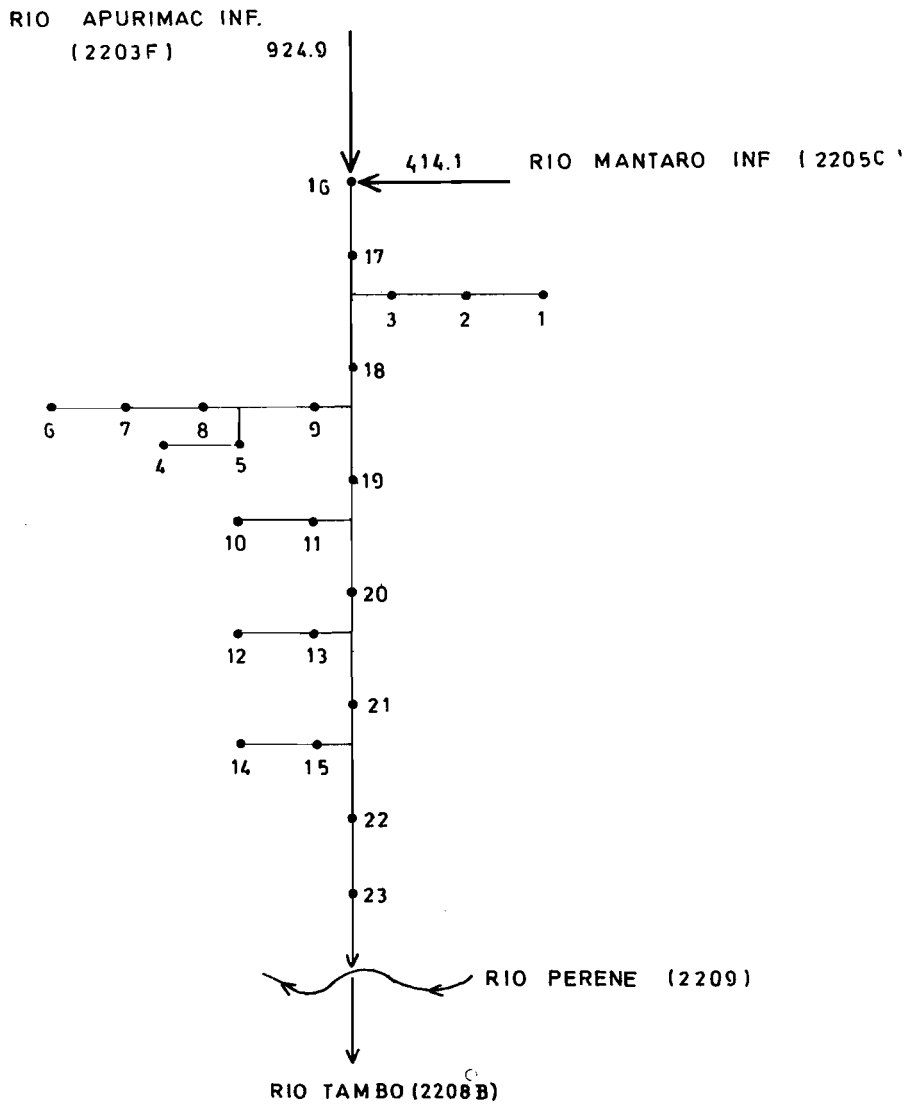
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

AGUAYTIA 2207

FLOW DIAGRAM :

Fig. 109



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

ENE 2208 A

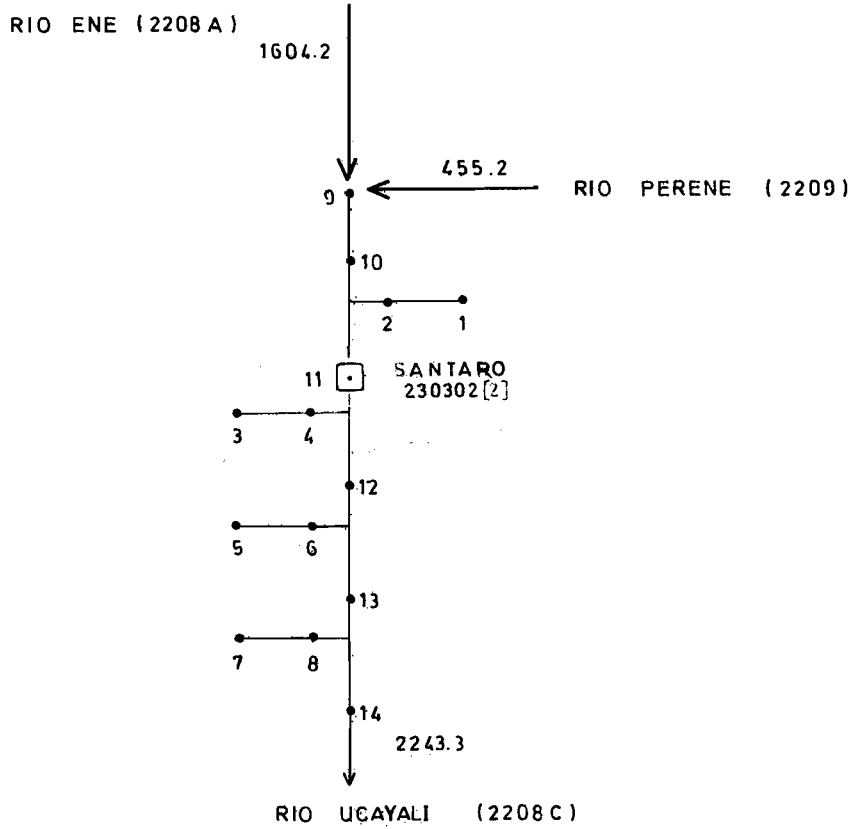
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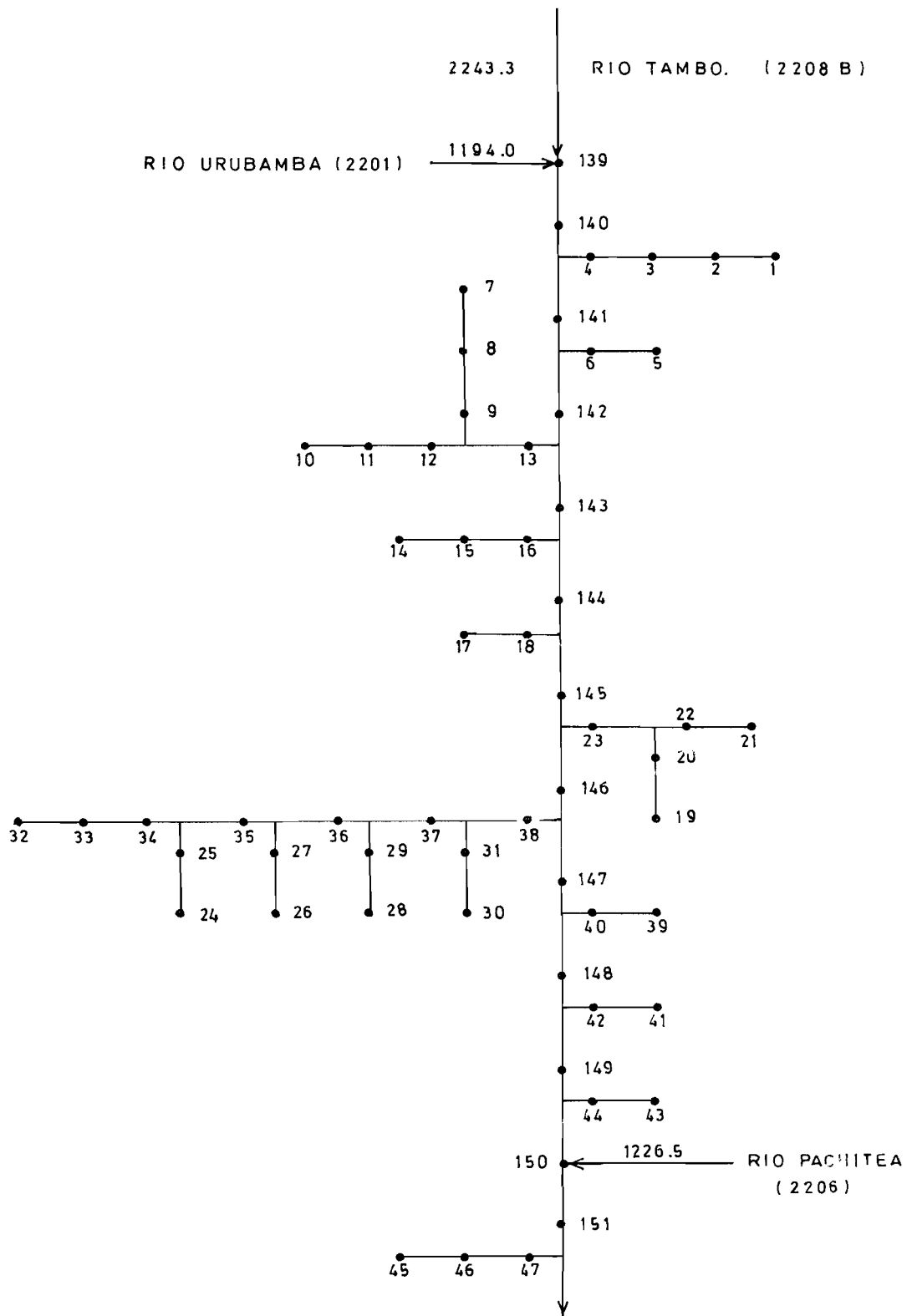
Fig. 110

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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 17 *
* # DE PUNTOS : 59 *
* DEL RIO PACHITEA , CODIGO 2206 * # 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 APOROQUIARI 1 2 720.0 833.7 3363.4 30.0 0.80 1.18 0.04 *
* 2 NAZARATEGUI 3 4 650.0 812.2 3362.0 45.0 0.32 1.01 0.07 *
* 3 AZUPIZU 5 6 830.0 744.4 3358.7 40.0 0.52 0.97 0.05 *
* 4 NANA 7 8 670.0 487.5 3344.4 35.0 0.55 0.04 0.05 *
* 5 ANCAYALI 9 11 1050.0 797.2 3361.2 51.0 0.40 0.66 0.05 *
* 6 APURUCAYALI 12 14 2310.0 601.0 3350.1 100.0 0.23 0.28 0.04 *
* 7 HUANCABAMBA 15 16 890.0 1804.8 1456.8 45.0 0.44 1.61 0.05 *
* 8 CRUZ 17 19 2140.0 1908.2 1468.9 80.0 0.33 1.37 0.04 *
* 9 LAGARTO 20 21 630.0 824.2 2181.2 40.0 0.39 0.83 0.06 *
* 10 ESCOZUZAN 22 23 590.0 1065.4 1998.7 40.0 0.37 1.24 0.07 *
* 11 LORENCILLO 24 27 2000.0 797.2 2366.5 86.0 0.27 0.82 0.04 *
* 12 POZUZO 28 34 3080.0 1005.1 2062.9 195.0 0.08 0.70 0.06 *
* 13 STA ISABEL 35 36 320.0 654.0 2348.3 30.0 0.36 1.24 0.09 *
* 14 YUYAPICHIS 37 38 1030.0 584.0 1583.2 30.0 1.14 1.00 0.03 *
* 15 STA MARTHA 39 41 1950.0 1275.5 1500.0 95.0 0.22 1.38 0.05 *
* 16 PATA 42 43 1210.0 612.4 1577.5 30.0 1.34 1.20 0.02 *
* 17 PACHITEA 44 59 6910.0 472.8 2304.7 383.0 0.05 0.49 0.06 *
*
* CARACTERISTICAS DE LA CUENCA 26980.0 857.4 2302.6 1355.0 0.01 0.80 0.05 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 8 *
* # DE PUNTOS : 27 *
* DEL RIO AGUAYTIA , CODIGO 2207 * # 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 PINTOYACU 1 2 240.0 884.3 2136.6 35.0 0.20 1.28 0.15 *
* 2 SANTAANA 3 5 1490.0 491.0 2483.3 65.0 0.35 0.61 0.04 *
* 3 CHIO 6 7 270.0 859.6 2157.6 25.0 0.43 1.21 0.09 *
* 4 SANALEJANDRO 8 11 2380.0 579.8 2406.4 115.0 0.18 0.43 0.05 *
* 5 ORUVA 12 13 240.0 468.7 2505.1 20.0 0.60 0.06 0.08 *
* 6 TASHUAILLO 14 16 990.0 473.1 2501.5 37.0 0.72 0.36 0.04 *
* 7 JUANTIA 17 19 850.0 480.4 2495.7 65.0 0.20 0.03 0.08 *
* 8 AGUAYTIA 20 27 5080.0 666.1 2338.2 290.0 0.06 0.41 0.06 *
*
* CARACTERISTICAS DE LA CUENCA 11540.0 600.4 2391.6 652.0 0.03 0.46 0.06 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 7 *
* # DE PUNTOS : 23 *
* DEL RIO ENE , CODIGO 2208A * # 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 CHICHINI 1 3 1253.0 1175.6 1621.5 62.0 0.33 3.58 0.05 *
* 2 MISION 4 5 875.0 1265.8 1570.6 50.0 0.35 1.72 0.06 *
* 3 QUEMPIRI 6 9 770.0 921.4 1726.3 76.0 0.13 1.50 0.10 *
* 4 MAMIRI 10 11 375.0 1284.3 1565.5 45.0 0.19 1.90 0.12 *
* 5 POMURENI 12 13 238.0 1237.7 1578.9 48.0 0.10 1.71 0.20 *
* 6 CANCHINGARI 14 15 345.0 1229.9 1581.1 40.0 0.22 2.32 0.12 *
* 7 ENE 16 23 3720.1 717.4 1765.9 130.0 0.22 1.05 0.03 *
*
* CARACTERISTICAS DE LA CUENCA 7576.1 945.0 1691.2 451.0 0.04 1.82 0.06 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
* AP IN/MT IN 16 349275.9 4005.8 805.4 7809.0 0.01 6.61 0.02 *
*****
* CARACTERISTICAS ACUMULATIVAS 356851.9 3940.8 824.2 8260.0 0.01 6.35 0.02 *
*****

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EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

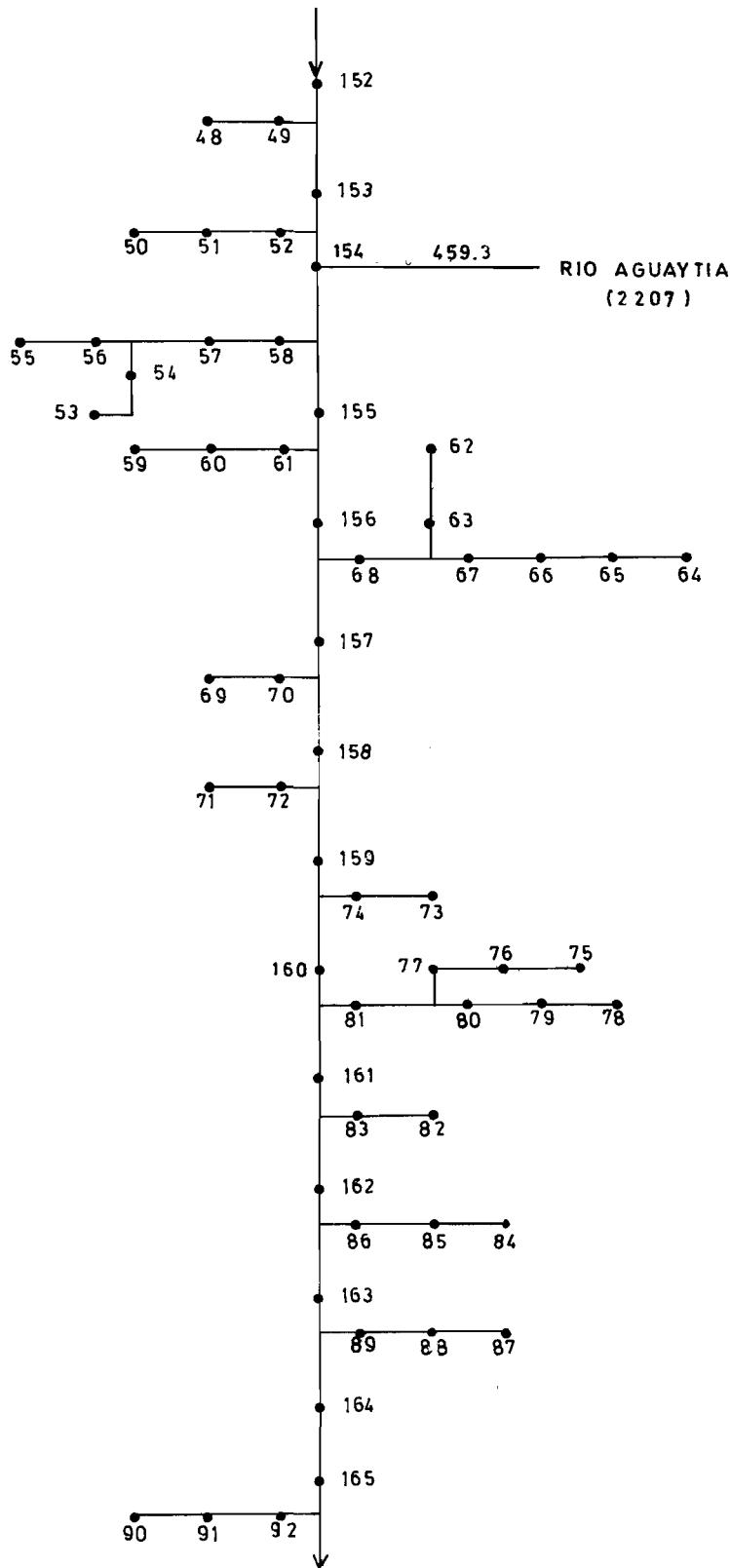
DIAGRAMA FLUVIAL :

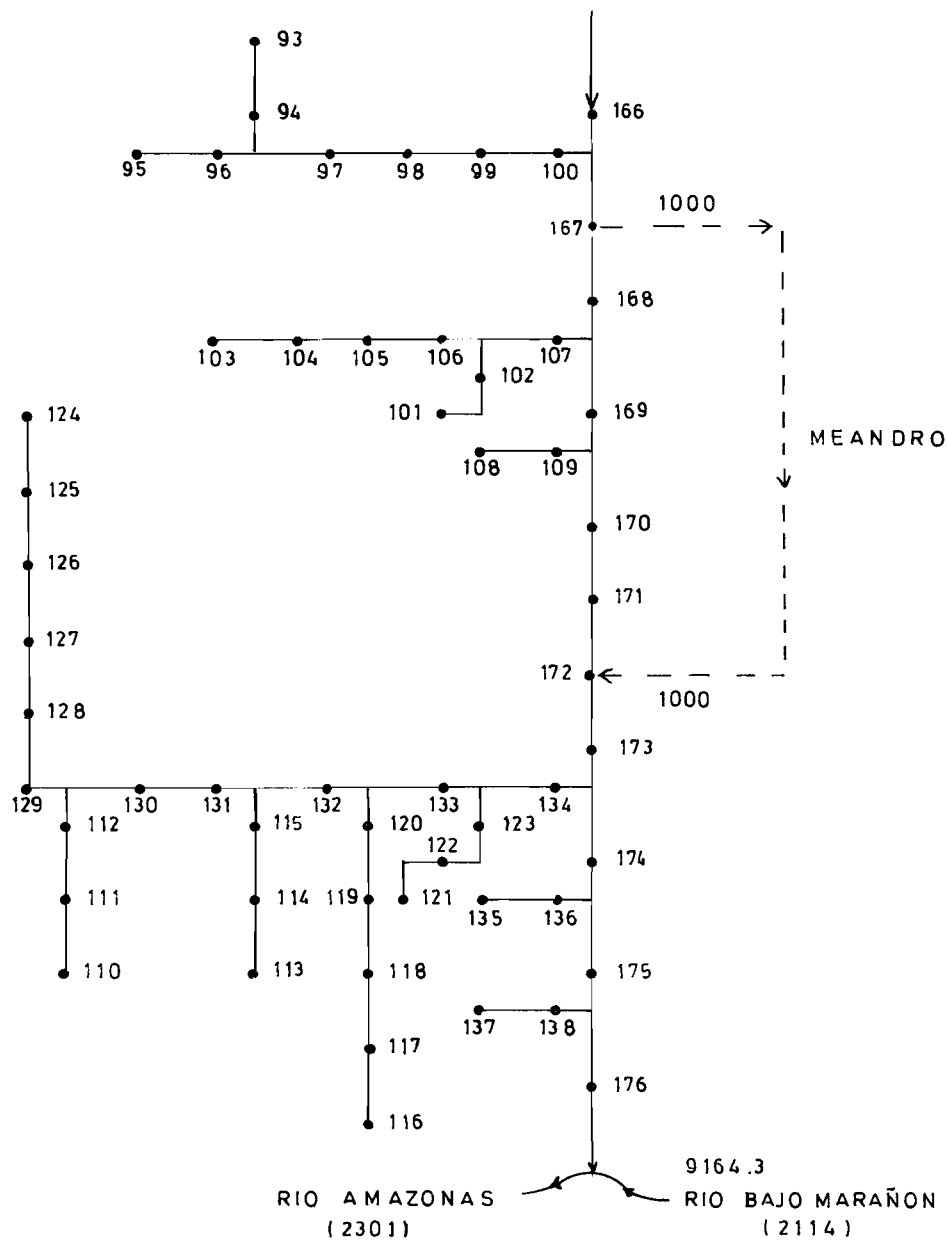
UCAYALI 2208 C

FLOW DIAGRAM :

1/3

Fig. 112



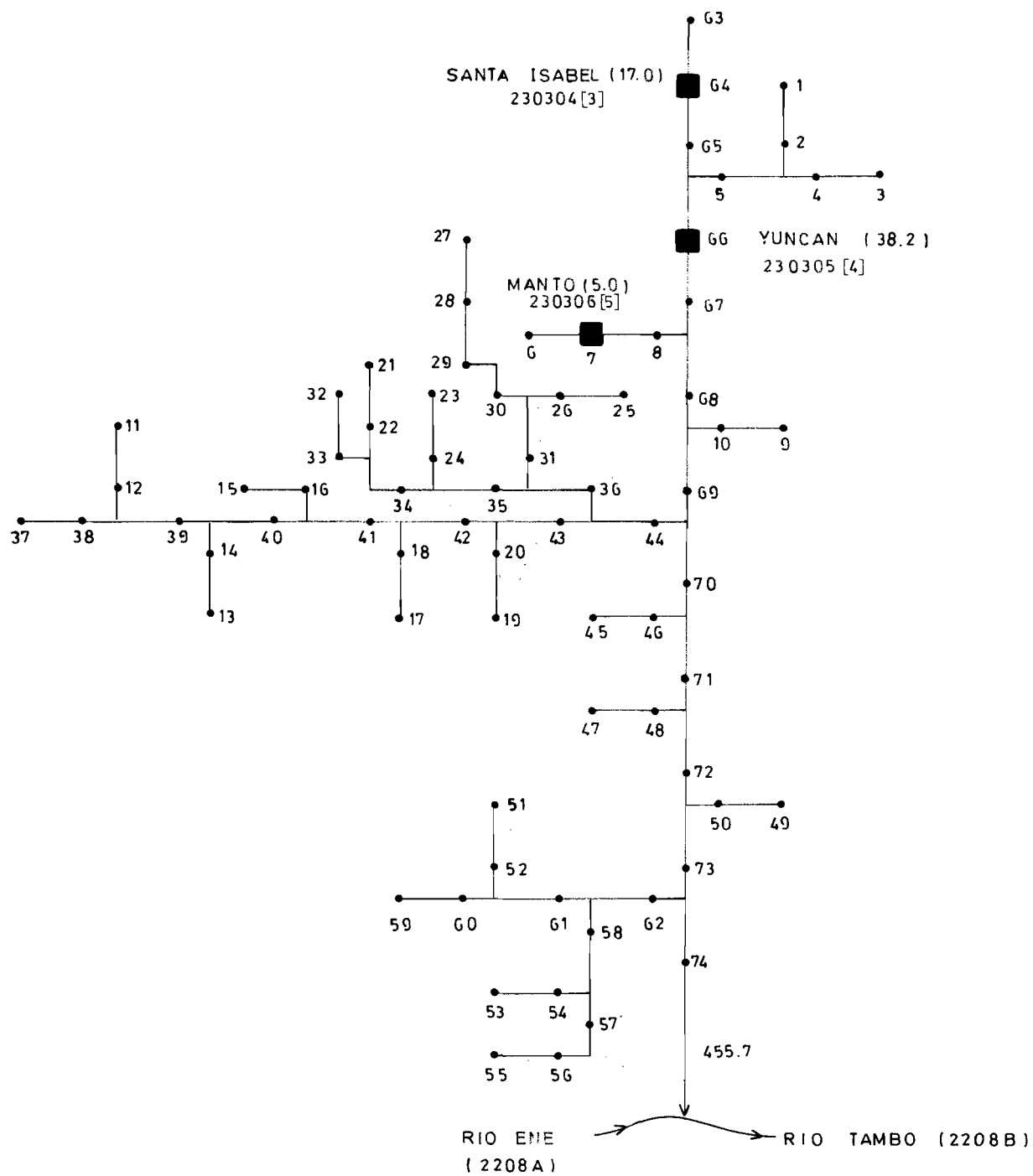


EVALUACION DEL POTENCIAL HIDROELECTRICO NACIONAL	DIAGRAMA FLUVIAL : UCAYALI 2208 C FLOW DIAGRAM :	Fig. 114 3/3
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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 5 *
* # DE PUNTOS : 14 *
* DEL RIO TAMBO , CODIGO 2208B * # DE ESTACIONES 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 MATIAS 1 2 410.0 794.9 1728.3 35.0 0.33 1.37 0.09 *
* 2 UNGUNINI 3 4 311.0 1054.5 1637.5 32.0 0.30 2.07 0.10 *
* 3 PAYENI 5 6 850.0 966.0 1674.9 36.0 0.66 2.31 0.04 *
* 4 MAYUCU 7 8 430.0 803.0 1725.6 50.0 0.17 0.93 0.12 *
* 5 TAMBO 9 14 3170.1 568.5 1836.9 140.0 0.16 0.87 0.04 *
*****
* CARACTERISTICAS DE LA CUENCA 5171.1 700.5 1780.4 293.0 0.06 1.25 0.06 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* PERENE/ENE 9 377404.1 3847.6 843.0 9406.0 0.00 5.99 0.02 *
*****
* CARACTERISTICAS ACUMULATIVAS 382575.2 3805.1 855.7 9699.0 0.00 5.85 0.03 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 46 *
* # DE PUNTOS : 176 *
* DEL RIO UCAYALI , CODIGO 2208C * # 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 UNINE 1 4 2300.0 551.3 1774.4 130.0 0.14 0.22 0.06 *
* 2 COTSIGARI 5 6 770.0 506.6 1800.9 30.0 0.86 1.13 0.04 *
* 3 PUNTIJAO 7 9 1120.0 306.6 2002.0 60.0 0.31 0.07 0.05 *
* 4 MASHANSHA 10 13 2000.0 335.7 1964.6 101.0 0.20 0.07 0.05 *
* 5 TAHUANIA 14 16 1760.0 321.7 1978.3 90.0 0.22 0.10 0.05 *
* 6 CUMARIO 17 18 660.0 281.7 2037.1 30.0 0.73 0.16 0.05 *
* 7 IRRUYA 19 20 380.0 390.5 1910.3 40.0 0.24 0.51 0.11 *
* 8 SHARHUANY 21 23 300.0 395.3 1907.2 45.0 0.15 0.70 0.15 *
* 9 AMIA 24 25 400.0 363.2 1936.8 20.0 1.00 0.31 0.05 *
* 10 CHABOMYARI 26 27 170.0 342.2 1957.8 20.0 0.42 0.19 0.12 *
* 11 PARANTARI 28 29 200.0 347.3 1952.7 20.0 0.50 0.22 0.10 *
* 12 SATAYA 30 31 210.0 337.4 1962.6 15.0 0.93 0.23 0.07 *
* 13 SHEGHEA 32 38 3250.0 325.5 1980.5 132.0 0.19 0.12 0.04 *
* 14 SIPIRIA 39 40 180.0 380.3 1921.3 20.0 0.45 0.94 0.11 *
* 15 IPARIA 41 42 340.0 353.1 1946.9 30.0 0.38 0.29 0.09 *
* 16 TABACAOS 43 44 520.0 363.8 1936.3 45.0 0.26 0.29 0.09 *
* 17 ABUJAO 45 47 3160.0 380.3 1919.8 80.0 0.49 0.25 0.03 *
* 18 MASARAY 48 49 520.0 375.4 1924.6 50.0 0.21 0.26 0.10 *
* 19 UTIQUINIA 50 52 2000.0 365.5 1941.1 100.0 0.20 0.21 0.05 *
* 20 PUYANA 53 54 1190.0 435.6 1864.5 50.0 0.48 0.11 0.04 *
* 21 CALLARIA 55 58 2500.0 395.2 1904.9 110.0 0.21 0.15 0.04 *
* 22 ROABOILLO 59 61 2290.0 283.1 2038.0 90.0 0.28 0.11 0.04 *
* 23 TAHUALLA 62 63 840.0 257.4 2085.5 50.0 0.34 0.18 0.06 *
* 24 PISQUI 64 68 5928.0 498.0 1825.7 161.0 0.23 0.29 0.03 *
* 25 AMANQUIRIA 69 70 350.0 207.9 2184.1 35.0 0.29 0.08 0.10 *
* 26 PACAYA 71 72 360.0 199.9 2202.6 25.0 0.58 0.02 0.07 *
* 27 IPACTIA 73 74 1060.0 375.7 1925.7 70.0 0.22 0.29 0.07 *
* 28 CHAMBIRA 75 77 3290.0 493.1 1819.6 80.0 0.51 0.37 0.02 *
* 29 PANYA 78 81 3150.0 425.5 1885.6 120.0 0.22 0.25 0.04 *
* 30 SARAYAQUILLO 82 83 580.0 573.9 1752.9 40.0 0.36 1.01 0.07 *
*****

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EVALUACION DEL POTENCIAL HIDROELECTRICO NACIONAL	DIAGRAMA FLUVIAL: PERENE 2209 FLOW DIAGRAM:	Fig. 115
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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *										# DE TRAMOS : 46 *	
* DEL RIO UCAYALI , CODIGO 2208C *										# DE PUNTOS : 176 *	
* TRAMO * PUNTOS * AREA ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *										# DE ESTACIONES HIDROMETRICAS : 0 *	
CODIGO	NOMBRE	* DE	A *	(KM*KM)	(METROS)	PROMEDIA	PROMEDIA	RIOS	FORMA	PROM.	DREN.
						(MM/ANO)	(MM/ANO)	(KM)	(-)	(%)	(1/KM)

* 31	STA.CATALINA	84	86	1490.0	485.8	1852.4		70.0	0.30	0.61	0.05
* 32	ALFARO	87	89	1540.0	314.4	1997.6		70.0	0.31	0.25	0.05
* 33	YANAYACU	90	92	630.0	179.5	2265.9		60.0	0.17	0.09	0.10
* 34	PIYUYO	93	94	480.0	250.4	2099.2		50.0	0.19	0.14	0.10
* 35	MAQUIA	95	100	2350.0	234.0	2140.3		170.0	0.08	0.10	0.07
* 36	HUMAYA	101	102	690.0	232.5	2134.9		50.0	0.28	0.19	0.07
* 37	GUANACHE	103	107	3180.0	211.4	2185.9		160.0	0.12	0.05	0.05
* 38	CAPANAHUA	108	109	510.0	175.3	2279.4		35.0	0.42	0.22	0.07
* 39	PUNGO	110	112	3490.0	258.4	2083.3		90.0	0.43	0.11	0.03
* 40	YANAYACU	113	115	1940.0	203.1	2197.2		90.0	0.24	0.04	0.05
* 41	BLANCA	116	120	4050.0	284.4	2046.7		160.0	0.16	0.21	0.04
* 42	ALEMAN	121	123	1240.0	184.5	2258.2		100.0	0.12	0.06	0.08
* 43	TAPICHE	124	134	12920.0	260.5	2101.1		340.0	0.11	0.08	0.03
* 44	TARAHUAYTA	135	136	600.0	174.4	2280.5		40.0	0.37	0.26	0.07
* 45	PARAPOROTO	137	138	600.0	152.9	2344.6		50.0	0.24	0.19	0.08
* 46	UCAYALI	139	176	34440.0	188.1	2255.8		1243.0	0.02	0.02	0.04

* CARACTERISTICAS DE LA CUENCA										111928.0	
										289.4	
										2081.3	
										4667.0	
										0.01	
										0.15	
										0.04	

* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *											

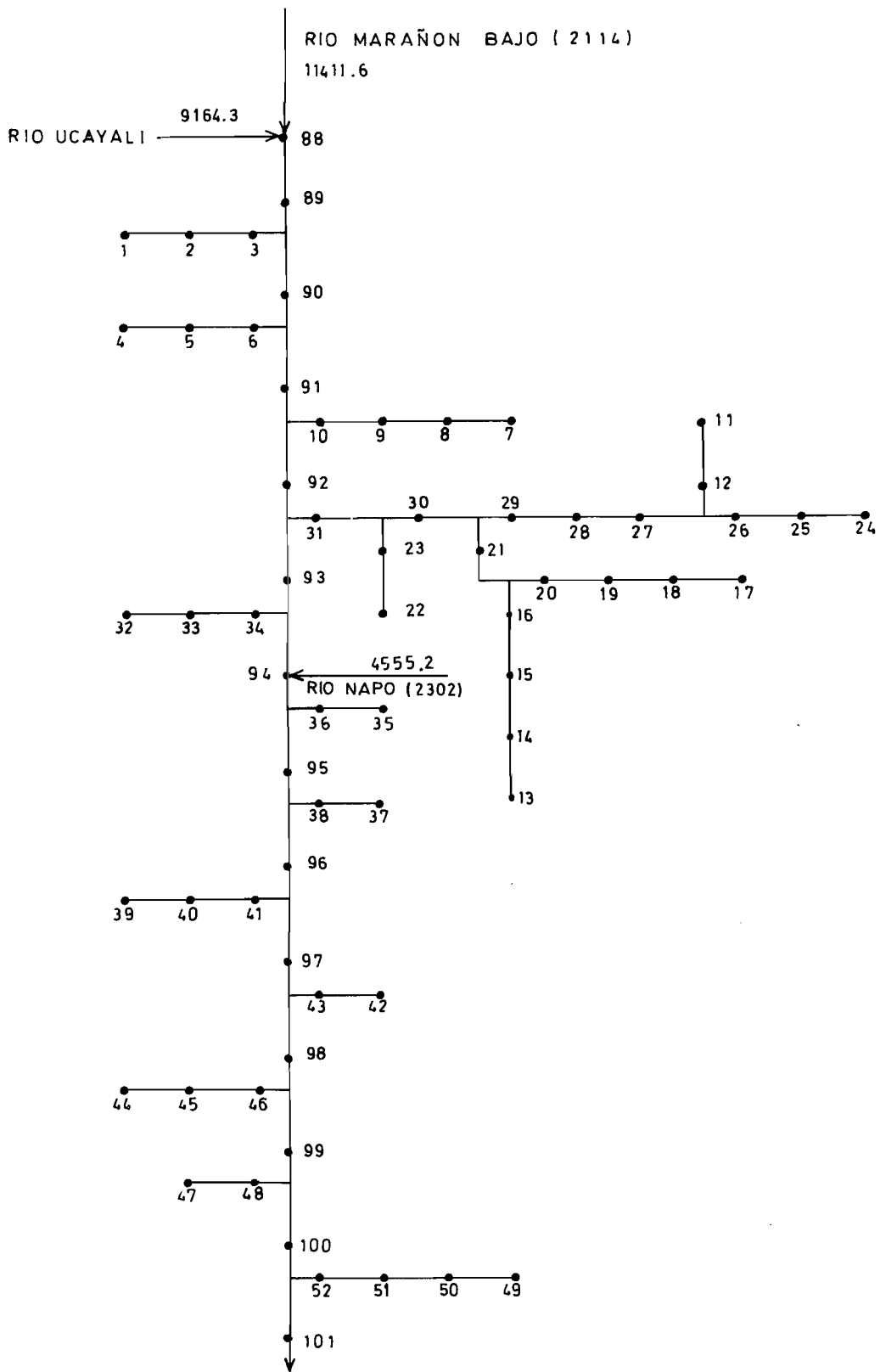
* TAMBO/URUBA	139	441887.8	3551.9	900.8	13917.0	0.00	4.82	0.03			
* PACHITEA	150	26960.0	857.4	2302.7	1355.0	0.01	0.78	0.05			
* AGUAYTIA	154	11540.0	600.4	2391.6	652.0	0.03	0.46	0.06			

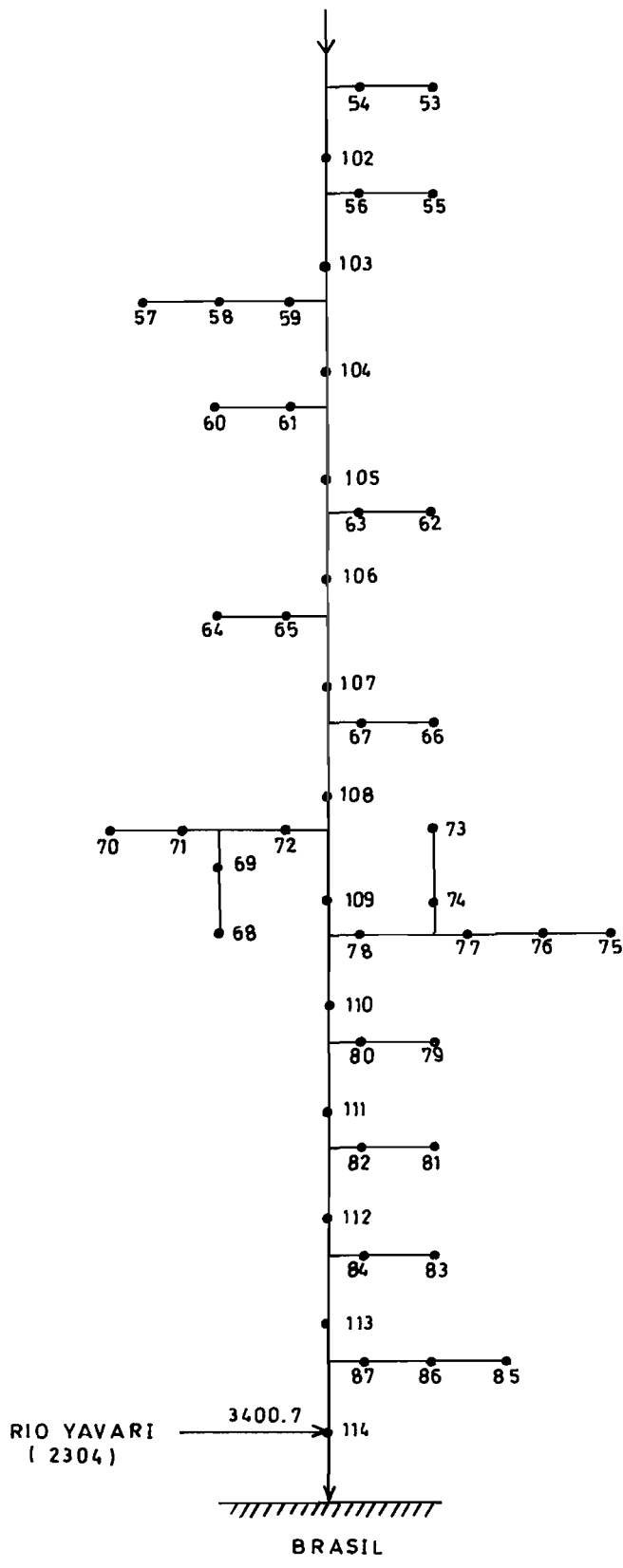
* CARACTERISTICAS ACUMULATIVAS										592315.8	
										2755.2	
										1216.7	
										20591.0	
										0.00	
										3.36	
										0.03	

* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA *										# DE TRAMOS : 26 *	
* DEL RIO PERENE , CODIGO 2209 *										# DE PUNTOS : 74 *	
* TRAMO * PUNTOS * AREA ALTURA LLUVIA LONG FACTOR PEND. DENSIDAD *										# DE ESTACIONES HIDROMETRICAS : 3 *	
CODIGO	NOMBRE	* DE	A *	(KM*KM)	(METROS)	PROMEDIA	PROMEDIA	RIOS	FORMA	PROM.	DREN.
						(MM/ANO)	(MM/ANO)	(KM)	(-)	(%)	(1/KM)

* 1	RANYAC	1	2	107.0	3826.2	1294.3		25.0	0.17	2.40	0.23
* 2	HUACHON	3	5	735.0	3360.7	1186.5		49.0	0.31	2.61	0.07
* 3	MANTO SU	6	7	170.0	2993.0	1101.4		12.0	1.18	8.09	0.07
* 4	MANTO IN	7	8	90.0	2300.0	1310.0		3.0	*10.	16.67	0.03
* 5	ENTAS	9	10	360.0	1914.7	1414.5		23.0	0.68	5.02	0.06
* 6	COMAS	11	12	370.0	3839.8	1295.1		28.0	0.47	2.54	0.08
* 7	PALLAYA	13	14	390.0	3728.5	1267.1		23.0	0.74	3.85	0.06
* 8	UCHUBAMBA	15	16	530.0	2983.6	1102.1		25.0	0.85	5.90	0.05
* 9	PUCARA	17	18	320.0	2586.7	1020.8		25.0	0.51	5.81	0.08
* 10	CIMAYA	19	20	180.0	2298.3	960.7		22.0	0.37	6.45	0.12
* 11	PALCAMAYO	21	22	480.0	3825.6	562.3		34.0	0.42	2.32	0.07
* 12	HUASAHUASI	23	24	590.0	3576.3	508.3		35.0	0.48	2.68	0.06
* 13	CASCAS	25	26	400.0	2704.7	363.2		24.0	0.69	7.42	0.06
* 14	OROBAMBA	27	31	1980.0	2680.7	390.4		82.0	0.29	2.83	0.04
* 15	PALCA	32	36	1670.0	2933.6	409.3		84.0	0.24	2.36	0.05
* 16	CHANCHAMAYO	37	44	2610.0	1969.1	1467.8		111.0	0.21	3.00	0.04
* 17	ARTURO	45	46	650.0	1498.5	1501.2		25.0	1.04	4.80	0.04
* 18	LA TORRE	47	48	460.0	1399.9	1580.0		25.0	0.74	4.19	0.05
* 19	AUTRIQUE	49	50	120.0	924.5	1740.8		27.0	0.16	2.46	0.22
* 20	ANCAYO	51	52	400.0	1660.0	1432.0		27.0	0.55	3.70	0.07
* 21	MAZAMARI	53	54	580.0	1397.2	1580.8		40.0	0.36	2.73	0.07
* 22	PONGOA	55	58	1520.0	1515.7	1328.4		76.0	0.26	3.08	0.05
* 23	SATIPO	59	62	1870.0	1888.1	1454.0		95.0	0.21	3.32	0.05
* 24	PERENE SU	63	64	480.0	3337.2	1176.7		31.0	0.50	3.43	0.06
* 25	PERENE MD	64	66	190.0	2525.4	1005.1		10.0	1.90	8.41	0.05
* 26	PERENE IN	66	74	3300.0	1315.7	1595.4		185.0	0.10	2.70	0.06

* CARACTERISTICAS DE LA CUENCA										20552.0	
										2229.4	
										1169.9	
										1146.0	
										0.02	
										3.40	
										0.06	





EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

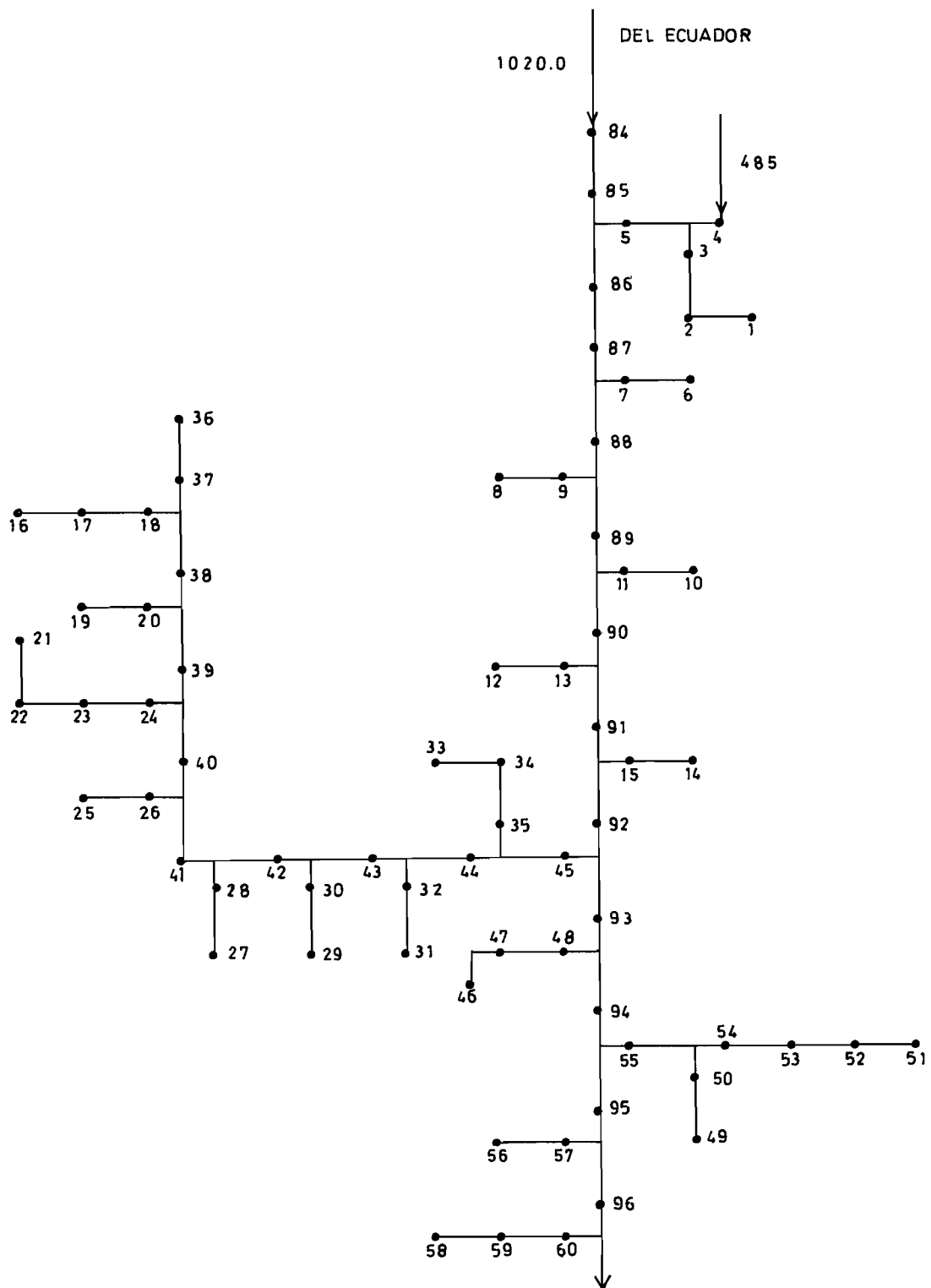
DIAGRAMA FLUVIAL :
 AMAZONAS 2301
 FLOW DIAGRAM :

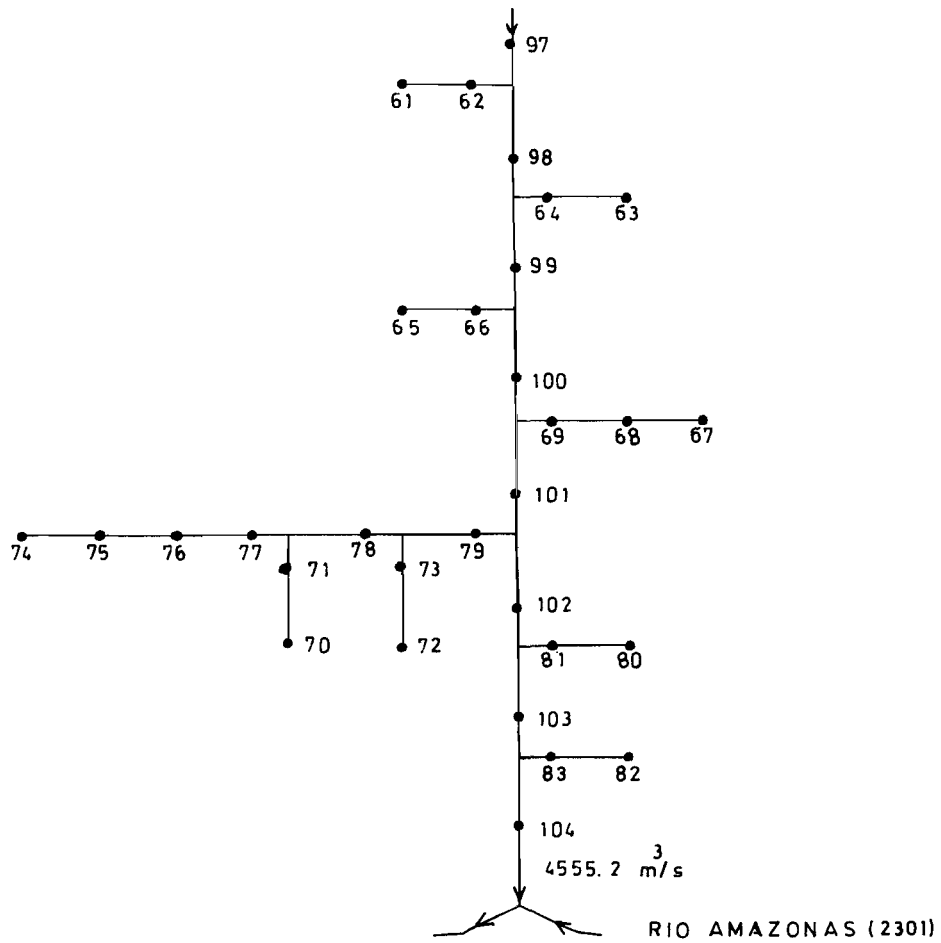
Fig. 117

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 32 *
* # DE PUNTOS : 114 *
* DEL RIO AMAZONAS , CODIGO 2301 * # 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 TAHUYO 1 3 1630.0 112.6 2733.8 80.0 0.25 0.01 0.05 *
* 2 TANSHIYACU 4 6 556.0 111.5 2733.4 85.0 0.08 0.00 0.15 *
* 3 ITAYA 7 10 2625.0 111.3 2733.4 135.0 0.14 0.00 0.05 *
* 4 RESISTENCIA 11 12 1025.0 116.0 2734.8 60.0 0.28 0.02 0.06 *
* 5 CHANBRIA 13 16 3283.0 113.7 2734.1 140.0 0.17 0.01 0.04 *
* 6 PUNTAYACU 17 21 1992.0 116.1 2734.8 178.0 0.06 0.02 0.09 *
* 7 MOMON 22 23 752.0 115.1 2734.5 50.0 0.30 0.03 0.07 *
* 8 NANAY 24 31 5453.0 114.2 2734.3 310.0 0.06 0.02 0.06 *
* 9 MANITI 32 34 1170.0 112.3 2733.7 90.0 0.14 0.02 0.08 *
* 10 YANAYACUDEOR 35 36 580.0 110.1 2733.0 50.0 0.23 0.02 0.09 *
* 11 JANGOSA 37 38 922.0 110.0 2733.0 58.0 0.27 0.02 0.06 *
* 12 ROSA 39 41 2023.0 112.6 2733.8 95.0 0.22 0.03 0.05 *
* 13 ARAYACU 42 43 720.0 112.3 2733.7 50.0 0.29 0.04 0.07 *
* 14 MOTAHUAYO 44 46 750.0 113.5 2734.0 80.0 0.12 0.04 0.11 *
* 15 PALOMETA 47 48 440.0 112.1 2733.6 50.0 0.18 0.04 0.11 *
* 16 AMPIYACU 49 52 3733.0 114.7 2734.4 140.0 0.19 0.03 0.04 *
* 17 SHISHITA 53 54 1165.0 115.0 2734.5 48.0 0.51 0.06 0.04 *
* 18 YANAYACUDEBR 55 56 546.0 115.1 2734.5 40.0 0.34 0.08 0.07 *
* 19 PICHANA 57 59 1070.0 114.5 2734.4 79.0 0.17 0.05 0.07 *
* 20 CUCHQUINAS 60 61 393.0 116.0 2734.8 49.0 0.17 0.07 0.12 *
* 21 PERUATE 62 63 415.0 116.0 2734.8 39.0 0.27 0.09 0.09 *
* 22 STA ROSA 64 65 780.0 115.1 2734.5 45.0 0.39 0.08 0.06 *
* 23 CAJOCUMAL 66 67 793.0 114.0 2734.2 58.0 0.24 0.06 0.07 *
* 24 SIMONA 68 69 463.0 115.0 2734.5 29.0 0.55 0.14 0.06 *
* 25 MAYORUNA 70 72 911.0 113.9 2734.2 52.0 0.34 0.11 0.06 *
* 26 PASHIA 73 74 895.0 112.0 2733.6 57.0 0.28 0.06 0.06 *
* 27 ATACUARI 75 78 1799.0 107.3 2732.2 108.0 0.15 0.05 0.06 *
* 28 BAYAHUAZU 79 80 335.0 106.1 2731.8 50.0 0.13 0.05 0.15 *
* 29 LORETOYACU 81 82 863.0 105.0 2731.5 50.0 0.35 0.06 0.06 *
* 30 ANACAYACU 83 84 542.0 103.0 2730.9 68.0 0.12 0.04 0.13 *
* 31 CAMELA 85 87 1429.0 104.0 2731.2 85.0 0.20 0.05 0.06 *
* 32 AMAZONAS 88 114 17403.1 112.1 2733.6 560.0 0.06 0.06 0.03 *
*****
* CARACTERISTICAS DE LA CUENCA 57461.1 112.5 2733.7 3068.0 0.01 0.04 0.05 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* MARON/UCAYI 88 956824.9 2119.4 1444.4 42886.0 0.00 2.87 0.04 *
* NAPO 93 44822.4 228.2 2768.9 2918.0 0.01 0.33 0.07 *
* YAVARI 114 59170.0 370.2 2811.5 1875.0 0.02 0.22 0.03 *
*****
* CARACTERISTICAS ACUMULATIVAS *1118278 1847.9 1636.1 50747.0 0.00 2.45 0.05 *
*****

```





EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

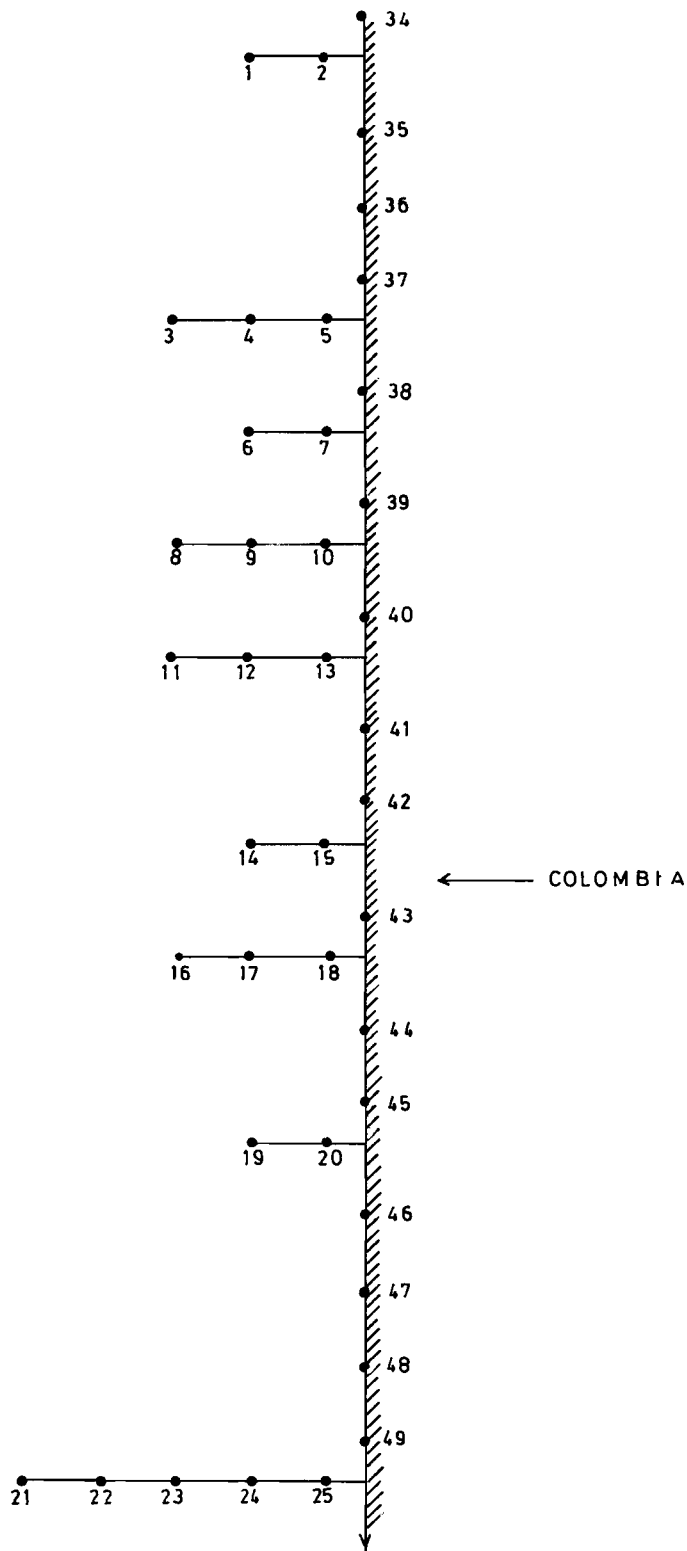
DIAGRAMA FLUVIAL :

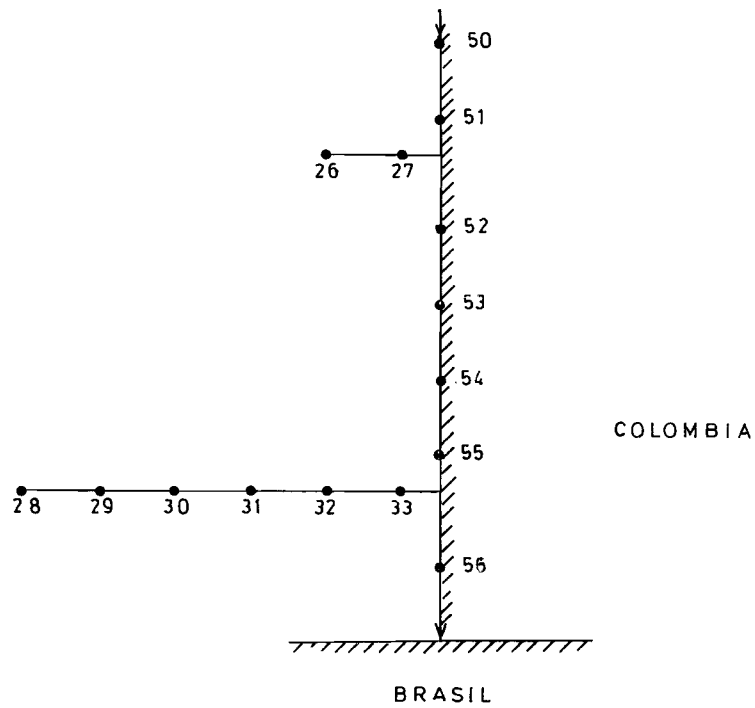
N A P O 2302

FLOW DIAGRAM :

2/2

Fig. 119





EVA: C DE. P... AL HIDR L RICO N... AL	DIAGRAMA FLUVIAL PUTUMAYO 2303 FLOW DIAGRAM	Fig 121
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* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 31 *										
* # DE PUNTOS : 104 *										
* DEL RIO NAPO , CODIGO 2302 * # DE ESTACIONES HIDROMETRICAS : 0 *										

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

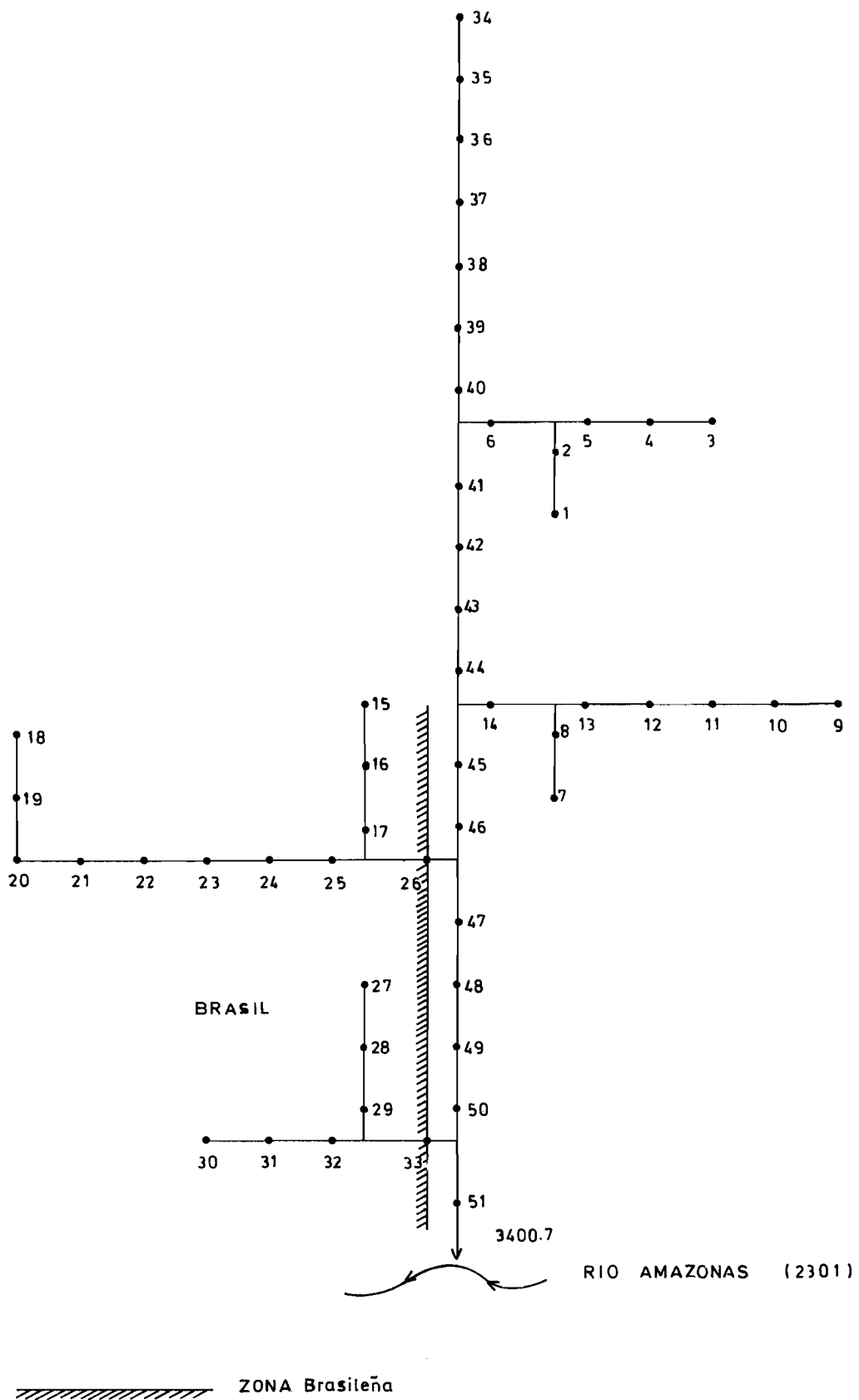
* 1	LAGARTOCOCHA	1	3	431.0	343.9	2813.2	80.0	0.07	0.61	0.19
* 2	ACUARIO	4	5	410.1	288.1	2792.8	32.0	0.40	1.32	0.08
* 3	SANTA MARIA	6	7	680.0	274.2	2784.5	48.0	0.30	0.45	0.07
* 4	ANSHIRI	8	9	2248.0	264.7	2778.8	68.0	0.49	0.30	0.03
* 5	LORO CAPARIN	10	11	438.0	257.4	2774.4	45.0	0.22	0.42	0.10
* 6	UNO	12	13	651.0	248.3	2770.4	72.0	0.13	0.26	0.11
* 7	TARAPOTO	14	15	643.0	241.6	2768.5	40.0	0.40	0.45	0.06
* 8	NASHINO	16	18	1133.1	310.0	2803.0	80.0	0.18	0.61	0.07
* 9	ALEMAN	19	20	863.0	285.7	2791.3	53.0	0.31	0.36	0.06
* 10	ARAVELA	21	24	2227.0	279.4	2787.5	125.0	0.14	0.28	0.06
* 11	PAYOYACU	25	26	482.0	250.9	2771.2	48.0	0.21	0.30	0.10
* 12	MOSQUERA	27	28	454.0	286.5	2791.9	52.0	0.17	0.44	0.11
* 13	YANAYACU	29	30	751.0	271.5	2782.9	63.0	0.19	0.33	0.08
* 14	YURACYACU	31	32	703.0	255.5	2773.3	65.0	0.17	0.30	0.09
* 15	SANTA MARIA	33	35	684.0	251.4	2772.0	98.0	0.07	0.28	0.14
* 16	CURARAY	36	45	3291.1	273.5	2785.1	285.0	0.04	0.55	0.09
* 17	PUCARA	46	48	827.0	226.4	2765.3	70.0	0.17	0.33	0.08
* 18	PROVIDENCIA	49	50	955.0	222.7	2764.5	58.0	0.28	0.26	0.06
* 19	TAMBOR YACU	51	55	3048.0	231.6	2766.4	185.0	0.09	0.21	0.06
* 20	HUIRINA	56	57	610.0	201.2	2760.2	63.0	0.15	0.20	0.10
* 21	TUCSHACURARA	58	60	2276.0	197.7	2759.1	108.0	0.20	0.17	0.05
* 22	VELLAVISTA	61	62	560.0	184.0	2755.2	38.0	0.39	0.28	0.07
* 23	ZAPOTE	63	64	810.0	174.2	2752.2	55.0	0.27	0.18	0.07
* 24	TUTAPISCO	65	66	1442.0	171.9	2751.6	43.0	0.78	0.20	0.03
* 25	YANAYACU	67	69	1340.0	164.0	2749.2	100.0	0.13	0.13	0.07
* 26	DOS	70	71	1080.0	168.5	2750.5	68.0	0.23	0.14	0.06
* 27	GUANO	72	73	520.0	163.4	2749.0	45.0	0.26	0.19	0.09
* 28	MAZAN	74	79	1927.0	178.4	2753.5	193.0	0.05	0.14	0.10
* 29	SUCUSARI	80	81	896.0	148.0	2744.4	60.0	0.25	0.11	0.07
* 30	MANGUA	82	83	510.0	139.2	2741.7	48.0	0.22	0.13	0.09
* 31	NAPO	84	104	11932.1	219.5	2766.0	530.0	0.04	0.40	0.04

* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 12 *										
* # DE PUNTOS : 56 *										
* DEL RIO PUTUMAYO , CODIGO 2303 * # DE ESTACIONES HIDROMETRICAS : 0 *										

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

* 1	GUEPPI	1	2	4435.0	228.4	2765.7	45.0	2.19	0.35	0.01
* 2	GURUYA	3	5	748.0	225.2	2765.0	90.0	0.09	0.28	0.12
* 3	SOCICAYA	6	7	575.0	224.2	2764.8	80.0	0.09	0.22	0.14
* 4	ANGUSILLA	8	10	968.0	218.8	2763.8	85.0	0.13	0.31	0.09
* 5	YAVINETO	11	13	2328.0	222.3	2764.5	120.0	0.16	0.23	0.05
* 6	UNO	14	15	1313.0	195.3	2758.6	65.0	0.31	0.22	0.05
* 7	CAMPUYA	16	18	1798.0	177.9	2753.4	100.0	0.18	0.18	0.06
* 8	RETIRO	19	20	2008.0	160.0	2748.0	70.0	0.41	0.15	0.03
* 9	ALGODON	21	25	3307.0	140.2	2742.0	180.0	0.10	0.11	0.05
* 10	SAN SALVADOR	26	27	520.0	144.3	2743.3	50.0	0.21	0.19	0.10
* 11	YAGUAS	28	33	9156.0	114.6	2734.4	250.0	0.15	0.07	0.03
* 12	PUTUMAYO	34	56	12982.1	145.3	2743.2	995.0	0.01	0.09	0.08

* CARACTERISTICAS DE LA CUENCA 40138.1 159.7 2747.2 2130.0 0.00 0.14 0.05 *										



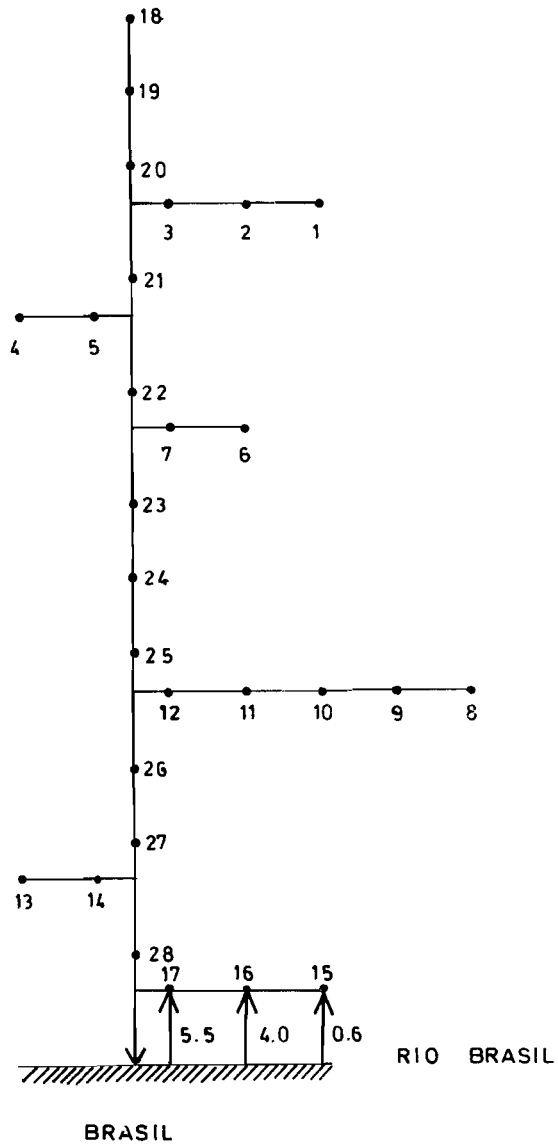
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

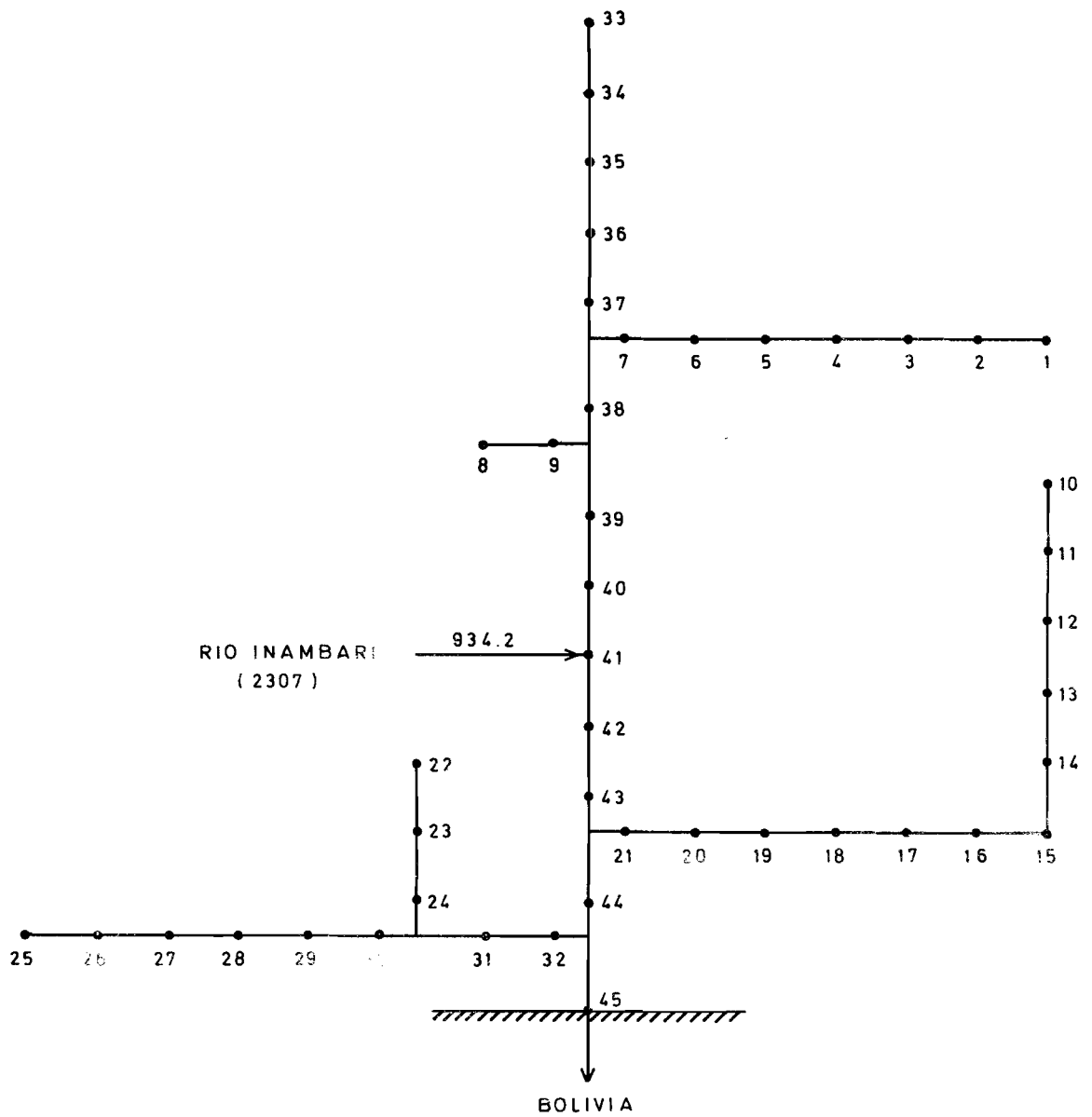
DIAGRAMA FLUVIAL :

YAVARI 2304

FLOW DIAGRAM :

Fig. 122





EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :
 FLOW DIAGRAM :

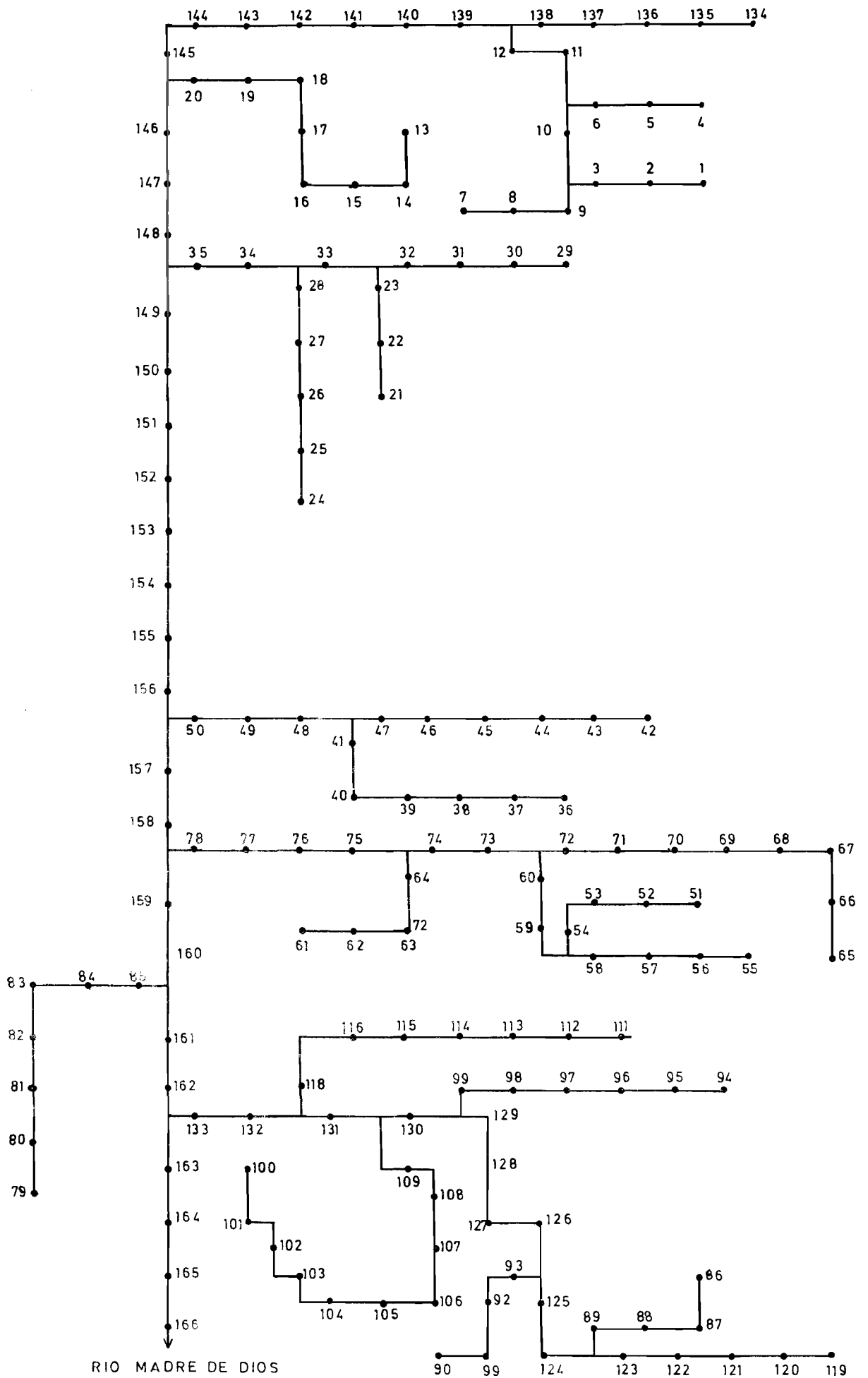
MADRE DE DIOS
 TAMBOPATA, DE LAS PIEDRAS
 (2306 , 2308 , 2310)

Fig. 124

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*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 9 *
* # DE PUNTOS : 51 *
* DEL RIO YAVARI , CODIGO 2304 * # 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 REMO 1 2 920.0 379.2 2823.8 30.0 1.02 0.14 0.03 *
* 2 GALVES 3 6 3230.0 377.7 2822.5 125.0 0.21 0.09 0.04 *
* 3 ESPERANZA 7 8 1200.0 301.2 2800.4 50.0 0.48 0.11 0.04 *
* 4 YAVARI MIRIN 9 14 6640.0 342.2 2810.3 210.0 0.15 0.14 0.03 *
* 5 FRECHEIRA 15 17 1580.0 293.9 2795.4 100.0 0.16 0.16 0.06 *
* 6 CURACAO 18 26 11430.0 412.9 2821.0 350.0 0.09 0.30 0.03 *
* 7 QUIXITO 27 29 2520.0 227.1 2766.2 100.0 0.25 0.32 0.04 *
* 8 ITHUY 30 33 3180.0 212.3 2762.7 120.0 0.22 0.32 0.04 *
* 9 YAVARI 34 51 28470.0 395.9 2817.1 790.0 0.05 0.22 0.03 *
*****
* CARACTERISTICAS DE LA CUENCA 59170.0 370.2 2811.5 1875.0 0.02 0.22 0.03 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LA CUENCA * # DE TRAMOS : 7 *
* # DE PUNTOS : 28 *
* DEL RIO PURUS , CODIGO 2305 * # 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 CURIUJA 1 3 1820.0 446.9 1864.8 80.0 0.28 0.10 0.04 *
* 2 RONSOCOYACU 4 5 590.0 438.1 1871.4 30.0 0.66 0.11 0.05 *
* 3 RONCOZO 6 7 350.0 436.4 1872.7 30.0 0.39 0.20 0.09 *
* 4 CURUNJA 8 12 5190.0 409.0 1892.9 185.0 0.15 0.04 0.04 *
* 5 CHAMBUYACU 13 14 590.0 373.1 1913.3 40.0 0.37 0.10 0.07 *
* 6 SANTA ROSA 15 17 330.0 374.4 1912.2 80.0 0.05 0.09 0.24 *
* 7 PURUS 18 28 8030.0 411.3 1889.7 380.0 0.06 0.02 0.05 *
*****
* CARACTERISTICAS DE LA CUENCA 16900.0 413.8 1888.3 825.0 0.02 0.06 0.05 *
*****
* REPRESENTACION Y CARACTERISTICAS DE LAS CUENCAS * # DE TRAMOS : 6 *
* DE LOS RIOS MADRE DE DIOS, TAMBOPATA Y LAS PIEDRAS * # DE PUNTOS : 45 *
* CODIGOS : 2306, 2308, 2310 * # 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 MANU 1 7 13520.0 932.2 3374.4 320.0 0.13 0.83 0.02 *
* 2 COLORADO 8 9 3230.0 717.6 3800.5 100.0 0.32 0.44 0.03 *
* 3 DELASPIEDRAS 10 21 15550.0 396.2 1895.4 520.0 0.06 0.03 0.03 *
* 4 CARAMA 22 24 3150.0 445.5 1865.8 110.0 0.26 0.13 0.03 *
* 5 TAMBOPATA 25 32 11560.0 1138.5 1558.0 360.0 0.09 1.49 0.03 *
* 6 MADREDEDIOS 33 45 20850.0 994.5 3519.5 585.0 0.06 0.63 0.03 *
*****
* CARACTERISTICAS DE LA CUENCA 67860.0 830.9 2720.9 1995.0 0.02 0.62 0.03 *
*****
* TRIBUTARIOS CONSIDERADOS SEPARADAMENTE *
*****
* INAMBARI 41 17376.3 2658.0 2682.6 1552.0 0.00 6.63 0.09 *
*****
* CARACTERISTICAS ACUMULATIVAS 85236.3 1203.3 2713.1 3547.0 0.00 3.25 0.04 *
*****

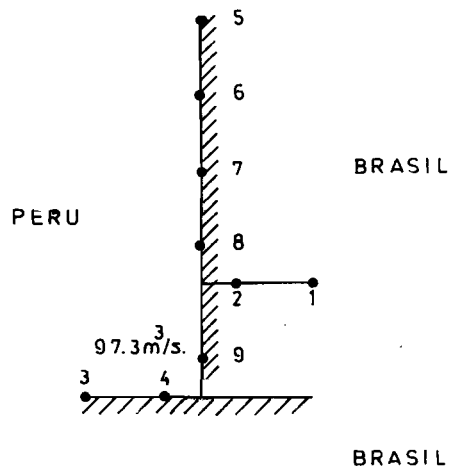
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EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO,
 NACIONAL

DIAGRAMA FLUVIAL :
INAMBARI 2307
 FLOW DIAGRAM :

Fig. 125



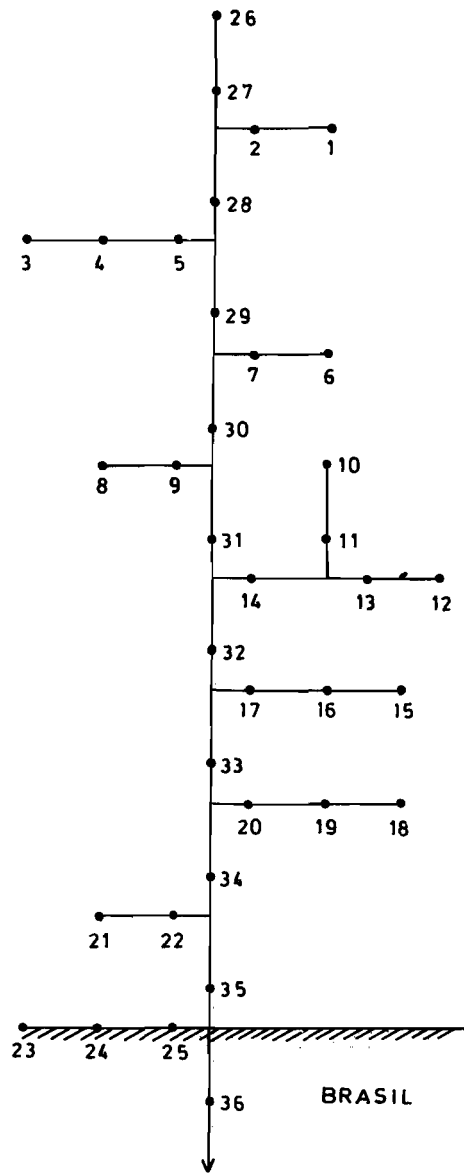
EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

ACRE 2309

FLOW DIAGRAM :

Fig. 126



EVALUACION DEL
 POTENCIAL
 HIDROELECTRICO
 NACIONAL

DIAGRAMA FLUVIAL :

YURUA 2311

FLOW DIAGRAM :

Fig. 127