

เอกสารอ้างอิง

ภาษาไทย

- ฉลอง เกิดพิทักษ์. การจัดการน้ำในลุ่มน้ำของประเทศไทย. กรุงเทพมหานคร: ภาควิชา
ทรัพยากรน้ำ คณะวิศวกรรมศาสตร์ มหาวิทยาลัยเกษตรศาสตร์, 2531.
- ชลประทาน, กรม. รายงานประจำปีงบประมาณ 2531 โครงการชลประทานสุราษฎร์ธานี.
สุราษฎร์ธานี: งานวิศวกรรม โครงการชลประทานสุราษฎร์ธานี, 2531.
- _____. รายงานสรุปผลการศึกษาโครงการพัฒนาลุ่มน้ำตาปี - พุมดวง จังหวัดสุราษฎร์ธานี.
กรุงเทพมหานคร: กองวางแผนโครงการ กระทรวงเกษตรและสหกรณ์, 2535.
- _____. รายงานความก้าวหน้าประจำเดือน มีนาคม 2536 โครงการพัฒนาและฟื้นฟูพื้นที่ภาคใต้
จ.นครศรีธรรมราช. กรุงเทพมหานคร: กองก่อสร้างโครงการใหญ่
กระทรวงเกษตรและสหกรณ์, 2536.
- ชัยวุฒิ จันมา. โลตัส 123. กรุงเทพมหานคร: สยามคอมพิวเตอร์, 2532.
- ชูลิต วัชรสินธุ์ และคณะ. การศึกษาความเหมาะสมโครงการไฟฟ้าพลังน้ำ. กรุงเทพมหานคร:
ฟิลิคส์เซ็นเตอร์การพิมพ์, 2532.
- ไฟฟ้าฝ่ายผลิตแห่งประเทศไทย ,การ. สำระสำคัญ โครงการโรงไฟฟ้าพลังน้ำเขื่อนแก่งกรุง.
กรุงเทพมหานคร: ฝ่ายวิศวกรรมพลังน้ำ, 2533.
- _____. หนังสือที่ระลึกเนื่องในพิธีเปิดเขื่อนรัชชประภา. กรุงเทพมหานคร: การไฟฟ้าฝ่ายผลิต
แห่งประเทศไทย, 2530.
- วิโรจน์ ชัยธรรม. อุทกวิทยา. ขอนแก่น: ภาควิชาวิศวกรรมโยธา คณะวิศวกรรมศาสตร์
มหาวิทยาลัยขอนแก่น, 2530.
- วีระพล แต่สมบัติ. อุทกวิทยาประยุกต์. กรุงเทพมหานคร: ฟิลิคส์เซ็นเตอร์การพิมพ์, 2528.
- สมศักดิ์ เกียรติสุรนนท์. การจำลองอ่างเก็บน้ำอุบลรัตน์สำหรับกรณีของอุทกภัย. สาขาวิชา
วิศวกรรมแหล่งน้ำ จุฬาลงกรณ์มหาวิทยาลัย. วิทยานิพนธ์ปริญญาโทมหาบัณฑิต
จุฬาลงกรณ์มหาวิทยาลัย, 2526.

- สมเจตน์ ทิมพงษ์. พลศาสตร์ของการไหลในทางน้ำเปิด. ขอนแก่น: ภาควิชาวิศวกรรมโยธา คณะวิศวกรรมศาสตร์ มหาวิทยาลัยขอนแก่น, 2528.
- สุวิทย์ ธโนภานุวัฒน์. การศึกษาโดยการทำแบบจำลองทางคณิตศาสตร์ของอ่างเก็บน้ำสิรินธร. สาขาวิชาวิศวกรรมแหล่งน้ำ จุฬาลงกรณ์มหาวิทยาลัย. วิทยานิพนธ์ปริญญามหาบัณฑิต จุฬาลงกรณ์มหาวิทยาลัย, 2525
- สุรวุฒิ ประดิษฐานนท์. การจำลองสภาพในการวางแผนพัฒนาทรัพยากรแหล่งน้ำ. วิศวกรรมสาร 10 (ธันวาคม 2523): 86-91.

ภาษาอังกฤษ

- EGAT , Chiew Larn Feasibility Report Volume 1, 2, 3 and 4.
Bangkok: ELC - Electroconsult Milano, 1979.
- ____ , Chiew Larn Hydroelectric Project Definite Study.
Bangkok: ELC - Electroconsult Milano, 1980.
- ____ , Environmental and Ecological Investigation of Chiew Larn Project. Bangkok: EGAT, 1980.
- ____ , Environmental Study and Investigation of Salinity at Chiew Larn Multipurpose Project. Bangkok: EGAT, 1983.
- ____ , Hydrological Investigations of Chiew Larn Project Report NO. 842 - 2201. Bangkok: EGAT, 1979.
- ____ , Khong Yan Multipurpose Project Report on Feasibility Study.
Volume 1: Main Report. Bangkok: EGAT, 1983.
- ____ , Transmission System for Kaeng Krung Hydroelectric Project.
Bangkok: EGAT, 1989.
- ____ , Ta pi - Phum duang Riverbasin Development Volume 1 and 2
Bangkok: ELC - Electroconsult Milano, 1973.
- Graphic Software Systems company , STATGRAPHICS : Statistical Graphics System, Computer program serial number 960445 version 2.6 :
USA., 1987.

- Linsley , R.K., Kohler , M.A., and Paulhus, J.L.H., Hydrology for Engineers. 3 nd ed. New York: McGraw-Hill Book ,Co., 1980.
- PAL and AGGIE in Association with Thailand Institute of Scientific and Technological Research , Post Environmental Evaluation of Khao Laem Dam. Volume 2 : Main Report , Bangkok: EGAT , 1990.
- Philip , B.Bedient and Wayne , C. Huber , Hydrology and Floodplain Analysis. New York: Addison-Wesley Publishing Company , 1988.
- RID , List of stream gaging stataion in Thailand under operation of Royal Irrigation Department investigation project up to 1990. Bangkok: Hydrology Division, 1991.
- U.S. Army Corps of Engineers , HEC - 3 : Reservoirs System Analysis For Conservation User's Manual. Davis: Hydrologic Engineering Center, 1981.
- ____ , HEC - 5 : Exhibit 8 of User's Manual Input Description. Davis : Hydrologic Engineering Center, 1986.
- ____ , HEC - 5 : Simulation of Flood Control and Conservation Systems User's Manual. Davis: Hydrologic Engineering Center, 1982.
- ____ , Hydropower Engineering and Design. Davis: Hydrologic Engineering Center, 1985

ภาคผนวก ก

ข้อมูลปริมาณน้ำท่าเฉลี่ยรายเดือนของสถานีศึกษา



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

ตาราง ก-1 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีคลองแสง ที่เขื่อนรัชชประภา (X.39)

MONTHLY RUNOFF OF KHLONG SAENG AT CHIEW LARN DAM SITE , SURAT THANI (X39) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
1964	23.80	20.80	14.90	16.60	88.10	73.70	38.80	339.40	196.00	158.70	164.70	64.20	99.98
1965	23.60	16.20	15.30	34.20	76.20	280.10	411.10	174.40	280.00	137.80	115.00	65.70	135.80
1966	62.40	17.70	10.50	16.50	107.50	60.60	165.40	237.10	94.50	86.60	101.90	95.20	87.99
1967	15.80	8.40	5.70	17.70	99.70	208.30	416.40	512.70	189.00	107.20	55.20	34.10	139.18
1968	16.80	11.00	9.80	12.40	42.60	77.50	238.20	536.60	215.70	99.00	38.60	23.20	110.12
1969	17.60	7.40	5.00	7.90	24.20	68.70	158.30	110.20	486.90	93.00	74.80	23.60	89.80
1970	14.70	8.10	15.30	8.40	14.30	92.20	197.90	195.30	194.10	156.80	75.60	39.60	84.36
1971	15.50	12.20	8.10	9.80	18.90	175.20	146.40	87.40	91.40	315.50	63.30	27.10	80.90
1972	16.50	10.20	8.00	16.10	13.30	47.80	163.60	202.40	165.60	93.00	81.80	41.40	71.64
1973	16.80	11.20	7.20	7.00	10.80	73.70	241.60	180.40	147.40	171.80	160.90	41.80	89.22
1974	48.50	19.90	15.20	15.80	38.80	150.10	98.60	346.20	149.30	200.10	152.40	49.70	107.05
1975	16.70	9.50	9.80	14.20	26.20	248.80	54.90	242.00	103.00	205.40	123.50	32.00	90.50
1976	11.90	7.40	6.00	7.30	90.00	81.00	144.10	143.40	298.20	56.40	91.80	28.80	80.53
1977	13.20	9.30	7.50	6.10	21.00	33.10	42.20	235.30	263.90	104.20	149.30	26.70	75.98
1978	10.60	7.20	5.40	9.70	24.50	144.70	202.40	296.90	328.70	148.20	36.10	18.50	102.74
1979	12.30	9.50	8.60	9.90	63.10	70.20	388.30	329.40	167.10	258.40	50.50	20.40	115.64
1980	15.20	11.00	8.00	7.50	25.20	98.40	281.20	267.70	308.60	131.80	98.80	33.10	107.21
1981	11.80	7.80	6.00	7.20	16.40	173.20	74.70	76.50	101.10	52.70	92.20	34.30	54.49
1982	10.50	6.50	4.90	9.60	25.70	36.10	271.10	206.10	191.70	66.10	38.30	21.60	74.02
1983	14.60	9.40	5.90	3.20	23.70	83.70	111.70	208.00	164.40	181.90	106.50	27.40	78.37
1984	12.70	9.20	6.10	8.50	29.20	112.30	136.30	323.70	177.50	146.00	36.70	28.00	85.52
1985	14.90	9.80	7.10	8.00	15.70	137.70	49.70	175.10	138.90	159.80	64.00	25.70	67.20
1986	8.20	8.00	12.50	11.50	94.20	66.90	143.10	363.80	152.20	107.60	60.30	22.10	87.53
1987	10.93	8.12	9.22	13.82	33.09	68.81	26.40	118.46	84.39	68.10	59.19	32.40	44.41
1988	28.45	27.96	27.51	42.78	72.73	80.50	123.02	86.72	159.81	186.37	104.74	30.24	80.90
1989	24.90	16.52	30.07	37.96	114.32	107.76	147.36	315.47	145.75	141.72	68.27	47.86	99.83
1990	25.13	8.65	19.42	22.47	56.88	112.04	84.76	156.46	182.96	168.35	85.29	41.73	80.35
1991	32.11	12.49	21.82	23.82	40.75	46.71	121.96	202.50	195.49	109.21	43.18	28.03	73.17
AVERAGE	19.50	11.48	11.10	14.50	46.68	107.49	167.13	238.20	191.91	139.71	85.46	35.87	89.09

ศูนย์วิทยุโทรพย กว
จุฬาลงกรณ์มหาวิทยาลัย

ตาราง ก-2 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีคลองสก ที่บ้านหลังถ้ำ (X.58)

MONTHLY RUNOFF OF PHUM DUANG AT KHLONG SOK , BAN LANG THAM (X.58) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
## 1964	5.12	3.72	2.07	4.43	38.92	25.22	20.83	98.10	62.06	40.93	27.66	8.98	28.17
## 1965	5.10	3.62	2.03	5.48	33.56	78.89	95.29	42.00	71.30	36.34	22.69	9.01	33.78
## 1966	9.36	3.65	2.56	4.42	47.65	21.82	46.15	63.31	50.90	25.07	21.38	9.60	25.49
## 1967	4.24	3.47	3.08	4.49	44.14	60.22	96.35	157.02	61.29	29.60	16.71	8.38	40.75
## 1968	4.35	3.52	2.63	4.17	18.44	26.21	60.71	165.14	64.23	27.80	15.05	8.16	33.37
## 1969	4.44	3.45	3.16	3.90	10.16	23.92	44.73	20.17	94.06	26.48	18.67	8.17	21.78
## 1970	4.12	3.46	2.03	3.93	5.71	30.03	52.65	49.10	61.85	40.52	18.75	8.49	23.39
## 1971	4.21	3.54	2.82	4.02	7.77	51.61	42.35	12.42	50.55	75.43	17.52	8.24	23.37
1972	2.55	1.12	0.87	4.40	5.26	18.49	45.79	51.52	45.91	16.71	12.77	5.56	17.58
1973	5.15	3.80	2.86	1.39	2.85	23.88	54.09	38.79	36.38	32.38	20.25	8.77	19.22
1974	7.80	3.75	2.88	4.32	18.17	37.54	22.53	101.83	38.27	56.70	42.82	8.28	28.74
1975	2.52	1.72	1.72	2.43	6.64	72.53	24.05	48.49	21.91	47.74	21.68	4.96	21.37
1976	2.81	2.28	2.62	2.53	29.39	27.31	45.51	33.23	72.53	10.97	10.38	5.04	20.38
1977	2.86	2.09	2.30	2.60	6.19	7.29	9.96	60.43	69.53	19.55	14.04	4.81	16.80
1978	2.78	1.78	0.94	1.92	8.24	42.82	55.58	86.54	77.93	39.17	11.46	5.00	27.85
1979	3.29	2.51	2.58	7.10	21.07	22.84	80.57	56.70	50.15	54.46	7.95	4.81	26.17
1980	7.09	4.58	2.95	3.17	7.98	25.96	63.78	64.53	71.76	36.33	26.85	12.83	27.32
1981	3.73	4.13	3.19	4.01	10.59	50.93	24.62	16.26	30.40	18.80	28.20	11.45	17.19
1982	4.70	5.20	4.36	6.17	10.37	16.09	72.36	55.20	53.63	24.66	16.13	9.85	23.23
1983	5.41	5.99	4.29	3.18	14.51	31.48	38.42	58.93	49.38	48.86	27.31	10.52	24.86
1984	4.85	5.37	5.26	5.75	11.00	43.21	36.52	75.35	46.68	42.90	12.89	8.80	24.88
1985	4.40	4.87	3.58	7.52	12.46	42.82	16.19	45.88	46.30	59.68	24.15	11.67	23.29
1986	3.28	3.63	2.39	3.17	54.83	34.72	63.41	154.42	130.40	39.91	27.04	11.71	44.08
## 1987	3.70	3.46	2.70	4.26	14.16	23.95	18.35	22.98	49.78	21.00	17.11	8.35	15.82
## 1988	5.63	3.86	0.68	6.00	32.00	26.99	37.67	12.18	58.08	47.02	21.66	8.30	21.67
## 1989	5.24	3.63	0.40	5.71	50.71	34.08	42.54	89.96	56.53	37.20	18.02	8.66	29.39
## 1990	5.26	3.47	1.57	4.78	24.87	35.19	30.02	35.90	60.63	30.49	17.10	8.17	21.45
## 1991	6.03	3.55	1.31	4.86	17.61	18.20	37.46	51.55	62.00	30.05	15.51	8.26	21.37
AVERAGE	4.64	3.54	2.49	4.29	20.19	34.08	45.66	63.14	58.73	36.31	19.71	8.39	25.10

REMARK : ## = DATA WAS RECONSTRUCTED FROM LINEAR REGRESSION Qx39 & Qn

ตาราง ก-3 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีคลองยัน ที่เขื่อนแก่งกรุง (X.66)

MONTHLY RUNOFF OF KHLONG YAN AT KAENG KRUNG DAM SITE , SURAT THANI (X66) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
## 1964	19.08	12.67	6.48	6.24	23.08	19.55	11.61	72.35	46.53	40.67	79.72	47.78	32.15
## 1965	18.85	9.35	6.67	11.35	20.70	56.70	48.84	36.05	56.61	35.65	59.34	49.06	34.10
## 1966	63.47	10.43	4.46	6.22	26.96	17.19	24.27	49.84	34.35	23.36	53.97	74.13	32.39
## 1967	9.88	3.74	2.25	6.56	25.40	43.77	49.37	110.47	45.69	28.31	34.82	22.20	31.87
## 1968	11.03	5.61	4.14	5.03	13.98	20.23	31.55	115.73	48.89	26.34	28.02	12.93	26.96
## 1969	11.95	3.02	1.93	3.72	10.30	18.65	23.56	21.92	81.44	24.90	42.86	13.27	21.46
## 1970	8.61	3.52	6.67	3.87	8.32	22.88	27.52	40.65	46.30	40.21	43.19	26.87	23.22
## 1971	9.54	6.47	3.36	4.27	9.24	37.82	22.37	16.91	33.98	78.30	38.14	16.25	23.05
1972	9.34	4.96	2.99	6.56	7.09	24.69	31.74	31.37	33.18	29.87	33.18	30.25	20.44
1973	9.71	6.20	4.11	2.31	5.97	15.82	41.45	43.31	61.73	25.02	36.27	23.52	22.95
1974	48.17	12.40	7.09	4.24	14.56	32.02	19.04	66.84	25.08	35.85	77.93	37.34	31.71
1975	11.20	6.20	4.11	6.56	10.08	55.17	16.06	51.90	48.23	57.88	68.67	25.39	30.12
1976	6.35	2.89	1.87	4.63	21.28	20.45	23.90	26.14	66.74	17.18	47.07	11.58	20.84
1977	7.47	4.13	2.99	1.54	7.09	8.10	7.09	48.92	55.17	30.99	125.00	12.70	25.93
1978	4.48	2.89	2.24	6.17	9.71	23.53	28.01	63.48	65.97	32.86	13.89	7.84	21.76
1979	6.72	4.13	2.99	3.47	21.66	23.53	85.51	79.16	42.05	81.77	63.66	15.31	35.83
1980	5.97	2.89	1.87	1.93	10.83	23.53	38.46	58.25	57.10	43.69	36.27	21.28	25.17
1981	7.47	4.13	3.73	6.17	13.07	41.28	15.31	17.55	28.94	17.55	42.44	25.39	18.59
## 1982	3.79	2.37	1.88	4.21	10.60	12.78	34.84	43.02	46.01	18.44	27.89	11.57	18.12
## 1983	8.50	4.46	2.34	2.36	10.20	21.35	18.90	43.44	42.74	46.24	55.86	16.50	22.74
## 1984	6.31	4.31	2.44	3.89	11.30	26.49	21.36	68.89	44.31	37.62	27.24	17.01	22.60
## 1985	8.85	4.75	2.90	3.75	8.60	31.07	12.70	36.20	39.68	40.93	38.43	15.05	20.24
## 1986	1.14	3.45	5.38	4.77	24.30	18.32	22.04	77.72	41.27	28.40	36.91	12.00	22.97
## 1987	4.28	3.54	3.87	5.44	12.08	18.67	10.37	23.74	33.14	18.92	36.46	20.75	15.94
## 1988	24.43	17.82	12.28	13.84	20.01	20.77	20.03	16.76	42.19	47.31	55.13	18.91	25.79
## 1989	20.34	9.58	13.46	12.44	28.32	25.68	22.47	67.08	40.50	36.59	40.18	33.89	29.21
## 1990	20.61	3.92	8.56	7.95	16.84	26.45	16.21	32.10	44.97	42.98	47.16	28.68	24.70
## 1991	28.64	6.68	9.67	8.34	13.61	14.69	19.93	42.23	46.47	28.79	29.89	17.04	22.16
AVERAGE	14.15	5.95	4.74	5.64	14.83	25.76	26.59	50.07	46.40	36.31	47.13	23.73	25.11

REMARK : ## = DATA WAS RECONSTRUCTED FROM LINEAR REGRESSION Qx39 & Qn

ตาราง ก-4 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีคลองยัน ที่บ้านน้ำหัก (X.92)

MONTHLY RUNOFF AT BAN NAM HAK , KHLONG YAN , SURAT THANI (X92) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
## 1964	15.77	14.17	24.41	22.81	45.09	21.92	0.00	89.75	43.97	54.17	122.22	57.84	42.68
## 1965	15.68	11.00	25.37	58.18	38.67	42.56	91.12	22.10	59.09	47.49	89.91	59.13	46.69
## 1966	33.52	12.03	13.85	22.60	55.57	20.61	29.69	47.81	25.70	31.10	81.40	84.50	38.20
## 1967	12.09	5.62	2.33	25.02	51.36	35.38	92.44	160.81	42.71	37.69	51.04	31.96	45.70
## 1968	12.55	7.41	12.17	14.36	20.52	22.30	47.89	170.61	47.52	35.07	40.25	22.58	37.77
## 1969	12.92	4.93	0.65	5.32	10.59	21.42	27.92	0.00	96.33	33.15	63.78	22.93	24.99
## 1970	11.58	5.41	25.37	6.32	5.24	23.77	37.82	30.67	43.63	53.57	64.30	36.69	28.70
## 1971	11.95	8.24	8.09	9.14	7.73	32.07	24.94	0.00	25.14	104.35	56.31	25.94	26.16
## 1972	12.41	6.86	7.85	21.80	4.70	19.33	29.24	33.58	38.50	33.15	68.33	38.23	26.17
## 1973	12.55	7.55	5.93	3.51	3.35	21.92	48.74	24.56	35.22	58.37	119.75	38.58	31.67
## 1974	81.79	13.08	8.06	4.71	16.40	36.42	20.56	75.62	27.89	42.82	117.28	54.78	41.62
## 1975	13.43	7.60	5.86	7.75	11.92	62.89	15.89	54.01	48.23	64.81	110.72	34.18	36.44
## 1976	10.29	4.93	3.05	4.11	46.12	22.65	24.37	9.39	62.37	21.44	74.93	27.40	25.91
## 1977	14.39	8.41	6.71	2.66	6.52	8.37	7.99	49.38	57.48	38.58	123.46	24.73	29.06
## 1978	4.86	2.58	1.85	11.84	12.08	24.23	30.63	69.83	73.30	41.67	18.40	10.61	25.16
## 1979	15.78	9.53	10.34	7.25	31.17	35.34	99.15	89.12	40.12	86.42	86.03	29.90	45.01
## 1980	7.91	4.32	6.56	2.78	12.15	26.20	41.28	52.85	61.34	49.38	50.15	30.48	28.78
## 1981	10.25	5.20	3.05	3.91	6.38	31.87	7.02	0.00	26.89	20.25	75.09	32.13	18.50
## 1982	9.65	4.31	0.41	8.74	11.40	18.16	56.12	35.10	43.20	24.54	40.06	21.21	22.74
## 1983	11.54	6.31	2.81	0.00	10.32	22.92	16.27	35.88	38.28	61.60	84.39	26.19	26.37
## 1984	10.66	6.17	3.29	6.52	13.29	25.78	22.42	83.32	40.64	50.11	39.02	26.71	27.33
## 1985	11.67	6.58	5.69	5.52	6.00	28.32	0.77	22.39	33.69	54.53	56.76	24.73	21.39
## 1986	8.59	5.34	18.65	12.55	48.39	21.24	24.12	99.76	36.09	37.82	54.36	21.64	32.38
## 1987	9.85	5.42	10.78	17.22	15.39	21.43	0.00	0.00	23.88	25.18	53.63	30.49	17.77
## 1988	17.91	19.11	54.67	75.43	36.79	22.60	19.10	0.00	37.46	63.03	83.24	28.64	38.16
## 1989	16.27	11.22	60.82	65.74	59.25	25.33	25.18	79.94	34.93	48.74	59.54	43.79	44.23
## 1990	16.38	5.79	35.26	34.60	28.24	25.75	9.53	14.75	41.62	57.26	70.60	38.52	31.52
## 1991	19.59	8.44	41.02	37.32	19.53	19.22	18.83	33.63	43.88	38.34	43.23	26.74	29.15
AVERAGE	15.78	7.77	14.46	17.78	22.65	26.43	31.03	49.46	43.90	46.95	71.36	33.97	31.79

REMARK : ## = DATA WAS RECONSTRUCTED FROM LINEAR REGRESSION Qx39 & Qn

ตาราง ก-5 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีคลองพุมดวง ที่บ้านตาขุน (X.6B)

MONTHLY RUNOFF OF PHUM DUANG RIVER , BAN THA TUN , SURAT THANI (X.6B) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
## 1964	115.85	53.18	31.68	35.72	175.29	124.52	53.68	534.55	324.86	309.97	474.27	200.15	202.81
## 1965	114.16	42.37	32.41	70.21	152.21	438.25	645.64	273.85	459.26	267.76	320.20	204.50	251.73
## 1966	442.40	45.90	23.67	35.52	212.93	104.61	254.98	372.92	162.46	164.33	279.59	290.05	199.11
## 1967	48.17	24.04	14.93	37.87	197.80	329.12	654.07	808.37	313.66	205.94	134.82	112.86	240.14
## 1968	56.63	30.15	22.40	27.48	87.02	130.30	370.73	846.13	356.38	189.38	83.36	81.25	190.10
## 1969	63.40	21.69	13.66	18.66	51.33	116.92	243.69	172.42	790.30	177.26	195.58	82.41	162.28
1970	55.58	28.91	32.34	28.90	38.79	170.91	324.51	323.02	327.93	309.22	214.89	137.26	166.02
1971	42.52	27.71	15.48	19.64	35.21	279.71	268.19	132.79	156.25	635.59	181.33	91.39	157.15
1972	44.01	24.24	16.90	41.67	27.56	79.86	202.54	299.52	258.49	179.04	175.92	116.00	122.15
1973	52.22	32.42	23.13	11.19	25.85	118.44	370.02	291.69	269.67	359.57	501.15	145.84	183.43
1974	325.63	53.28	33.05	26.31	80.57	234.18	140.25	544.95	242.28	359.20	398.92	157.41	216.34
## 1975	55.78	26.63	22.40	31.01	55.21	390.68	79.28	380.66	176.06	404.31	346.55	106.77	172.94
## 1976	15.17	21.69	15.48	17.49	178.98	135.62	221.11	224.87	488.38	103.33	248.28	97.49	147.32
## 1977	26.17	26.16	18.21	15.14	45.12	62.81	59.09	370.07	433.50	199.88	426.53	91.40	147.84
## 1978	4.18	21.22	14.39	22.19	51.91	232.44	313.81	467.40	537.18	288.76	75.61	67.62	174.73
## 1979	18.56	26.63	20.21	22.58	126.79	119.20	609.39	518.75	278.62	511.37	120.25	73.13	203.79
1980	61.55	47.08	36.33	30.25	63.78	176.70	460.28	407.69	591.43	315.93	286.26	145.47	218.56
1981	33.87	21.56	16.90	39.35	75.72	307.87	137.64	101.08	174.38	97.35	279.71	77.58	113.58
1982	26.22	11.11	6.56	27.85	42.90	55.17	502.80	370.76	405.09	142.49	126.16	76.47	149.47
## 1983	38.02	26.39	15.30	9.45	50.36	139.72	169.59	326.94	274.30	356.84	293.85	93.43	149.52
1984	37.30	78.88	92.50	12.96	51.47	183.26	241.33	550.18	332.95	281.24	89.12	118.24	172.45
1985	24.39	9.79	4.03	33.37	45.51	250.77	60.80	196.94	216.82	277.14	152.01	52.59	110.35
1986	29.73	16.56	24.51	2.80	113.39	44.37	139.88	449.84	357.64	218.21	226.85	140.25	147.00
1987	37.23	65.25	71.24	35.07	56.70	101.47	32.00	138.76	109.95	131.30	132.72	88.40	83.34
## 1988	155.19	70.01	54.63	87.03	145.48	134.86	187.59	135.32	266.96	365.87	288.39	101.67	166.08
## 1989	125.15	43.12	59.29	77.58	226.16	176.30	226.29	496.74	244.46	275.67	175.34	152.76	189.91
## 1990	127.10	24.63	39.90	47.22	114.73	182.80	126.76	245.51	304.00	329.47	228.10	134.99	158.77
## 1991	186.15	33.65	44.27	49.87	83.44	83.50	185.91	318.25	324.04	210.00	97.56	95.26	142.66
AVERAGE	84.37	34.08	29.14	32.66	93.29	175.16	260.07	367.86	327.76	273.80	234.05	119.02	169.27

REMARK : ## = DATA WAS RECONSTRUCTED FROM LINEAR REGRESSION Qx39 & Qn

ตาราง ก-6 ปริมาณน้ำท่าเฉลี่ยรายเดือนสถานีแม่น้ำตาปี ที่อ.พระแสง (X.37A)

MONTHLY RUNOFF OF TA PI RIVER AT A.PHRASAENG . SURAT THANI (X37A) IN CMS.

WATER YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL MEAN
## 1964	213.80	44.98	22.73	23.28	61.41	73.12	22.57	187.78	207.76	237.92	347.75	569.03	167.68
## 1965	210.64	39.28	22.77	26.09	59.98	168.07	372.53	123.43	272.44	236.67	307.00	581.66	201.71
## 1966	823.30	41.14	22.34	23.26	63.74	67.10	141.58	147.88	129.61	233.60	296.26	830.05	234.99
## 1967	87.48	29.61	21.90	23.45	62.80	135.04	377.52	255.36	202.37	234.83	257.96	315.59	166.99
## 1968	103.27	32.83	22.27	22.60	55.95	74.87	210.01	264.68	222.93	234.34	244.35	223.81	142.66
## 1969	115.90	28.37	21.84	21.88	53.74	70.82	134.90	98.39	431.75	233.98	274.04	227.18	142.73
1970	70.60	24.40	30.60	20.40	28.00	59.80	93.30	171.40	160.90	212.80	679.00	161.70	142.74
1971	63.50	23.10	14.60	14.30	18.70	26.60	39.20	33.60	49.80	194.90	117.30	165.80	63.45
1972	50.40	22.70	14.90	23.90	23.90	27.40	35.80	44.10	131.60	221.80	231.90	214.70	86.93
1973	79.50	33.50	23.20	13.10	41.10	82.90	201.60	174.40	201.00	201.60	405.50	280.80	144.85
1974	809.10	94.30	48.50	19.70	56.40	59.40	68.00	110.50	145.40	252.80	368.80	230.40	188.61
1975	44.40	24.00	16.00	33.60	64.20	199.80	119.10	146.00	137.00	207.20	301.30	140.80	119.45
1976	61.20	27.30	17.90	20.40	73.20	81.80	61.20	101.90	198.30	173.60	233.00	180.30	102.51
1977	43.70	26.00	19.00	18.90	23.50	27.80	37.00	63.10	115.70	194.50	252.30	107.50	77.42
1978	38.80	23.20	17.20	30.10	70.90	104.60	158.30	152.70	195.20	193.00	164.70	98.20	103.91
1979	41.40	25.60	25.00	23.50	33.60	71.00	308.40	248.70	227.20	234.50	205.60	95.60	128.34
1980	61.60	47.10	36.20	30.10	63.80	176.70	460.70	408.10	591.40	316.20	286.30	146.00	218.68
1981	45.50	21.10	17.20	23.50	91.80	145.10	50.80	31.70	71.00	95.60	237.30	291.20	93.48
1982	39.20	17.80	9.00	30.90	80.60	130.80	270.30	205.00	187.10	239.30	258.50	102.30	130.90
1983	49.30	51.70	22.80	9.30	27.30	84.90	102.70	169.10	203.30	290.80	244.60	89.00	112.07
1984	160.50	50.80	41.80	27.80	85.10	109.20	159.40	84.40	120.40	264.00	115.70	297.20	126.36
1985	53.80	23.10	14.20	29.70	103.40	134.30	56.80	67.60	134.30	276.30	240.40	131.00	105.41
1986	60.10	31.80	21.30	15.00	71.70	69.40	136.60	221.80	413.20	445.00	326.80	172.10	165.40
1987	78.80	39.70	20.90	15.80	32.50	64.80	22.40	140.80	147.80	173.20	226.10	316.60	106.62
1988	71.70	34.30	23.90	24.30	65.70	28.20	134.00	129.20	271.60	281.90	548.60	249.40	155.23
1989	21.21	13.68	12.10	27.93	51.90	54.01	80.27	115.37	158.18	280.76	212.58	43.31	89.28
1990	119.16	63.21	61.54	47.17	86.48	123.08	89.61	187.25	202.52	436.91	709.70	376.31	208.58
## 1991	345.02	34.68	23.35	24.43	55.73	60.71	100.74	134.39	207.37	234.95	248.11	264.48	144.50
AVERAGE	141.53	34.62	23.75	23.73	57.40	89.69	144.48	150.67	204.90	244.03	297.91	246.50	138.27

REMARK : ## = DATA WAS RECONSTRUCTED FROM LINEAR REGRESSION $Q_{x39} \& Q_n$

ภาคผนวก ข

ผลของการวิเคราะห์การไหลจากพื้นที่ด้านข้าง



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

TAPI RIVERBASIN UNDEVELOPMENT
NATURAL FLOW AND SIDE FLOW (CMS)



NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
1	1	64	23.8	5.12	19.08	0	19.08	64.93	112.93	213.8	326.73
2	2	64	20.8	3.72	12.67	1.18	13.85	13.22	51.59	44.98	96.57
3	3	64	14.9	2.07	6.48	14.13	20.61	0	37.58	22.73	60.31
4	4	64	16.6	4.43	6.24	13.06	19.3	0	40.33	23.28	63.61
5	5	64	88.1	38.92	23.08	17.35	40.43	2.9	170.35	61.41	231.76
6	6	64	73.7	25.22	19.55	1.87	21.42	3.36	123.7	73.12	196.82
7	7	64	38.8	20.83	11.61	0	11.61	0	71.24	22.57	93.81
8	8	64	399.4	98.1	72.35	13.72	86.07	0	583.57	187.78	771.35
9	9	64	196	62.06	46.53	0	46.53	20.9	325.49	207.8	533.29
10	10	64	158.7	40.93	40.67	10.64	51.31	51.26	302.2	237.92	540.12
11	11	64	164.7	27.66	79.72	33.5	113.22	145.72	451.3	347.75	799.05
12	12	64	64.2	8.98	47.78	7.93	55.71	63.08	191.97	569.03	761
13	1	65	23.6	5.1	18.85	0	18.85	63.67	111.22	210.64	321.86
14	2	65	16.2	3.62	9.35	1.3	10.65	10.54	41.01	39.28	80.29
15	3	65	15.3	2.03	6.67	14.74	21.41	0	38.74	22.77	61.51
16	4	65	34.2	5.48	11.35	36.91	48.26	0	87.94	26.09	114.03
17	5	65	76.2	33.56	20.7	14.16	34.86	3.45	148.07	59.98	208.05
18	6	65	280.1	78.89	56.7	0	56.7	33.49	449.18	168.07	617.25
19	7	65	411.1	95.29	48.84	34.11	82.95	43	632.34	372.5	1004.84
20	8	65	174.4	42	36.05	0	36.05	32.26	284.71	123.43	408.14
21	9	65	280	71.3	56.61	1.95	58.56	44.59	454.45	272.44	726.89
22	10	65	137.8	36.34	35.65	9.33	44.98	42.09	261.21	236.67	497.88
23	11	65	115	22.69	59.34	24.1	83.44	84.5	305.63	307	612.63
24	12	65	65.7	9.01	49.06	7.94	57	64.48	196.19	581.66	777.85
25	1	66	62.4	9.36	63.47	0	63.47	307.62	442.85	823.3	1266.15
26	2	66	17.7	3.65	10.43	1.26	11.69	11.42	44.46	41.14	85.6
27	3	66	10.5	2.56	4.46	7.4	11.86	0	24.92	22.34	47.26
28	4	66	16.5	4.42	6.22	12.92	19.14	0	40.06	23.26	63.32
29	5	66	107.5	47.65	26.96	22.55	49.51	2	206.66	63.7	270.36
30	6	66	60.6	21.82	17.19	2.7	19.89	1.44	103.75	67.1	170.85
31	7	66	165.4	46.15	24.27	4.27	28.54	12.54	252.63	141.58	394.21
32	8	66	237.1	63.31	49.84	0	49.84	22.54	372.79	147.88	520.67
33	9	66	94.5	50.9	34.35	0	34.35	0	179.75	129.61	309.36
34	10	66	86.6	25.07	23.36	6.1	29.46	19.67	160.8	233.6	394.4
35	11	66	101.9	21.38	53.97	21.62	75.59	68.36	267.23	296.26	563.49

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
36	12	66	95.2	9.6	74.13	8.17	82.3	91.93	279.03	830.05	1109.08
37	1	67	15.8	4.24	9.88	1.74	11.62	14.64	46.3	87.48	133.78
38	2	67	8.4	3.47	3.74	1.48	5.22	5.98	23.07	29.61	52.68
39	3	67	5.7	3.08	2.25	0.06	2.31	3.5	14.59	21.9	36.49
40	4	67	17.7	4.49	6.56	14.55	21.11	0	43.3	23.45	66.75
41	5	67	99.7	44.14	25.4	20.46	45.86	2.37	192.07	62.8	254.87
42	6	67	208.3	60.22	43.77	0	43.77	23.01	335.3	135.04	470.34
43	7	67	416.4	96.35	49.37	33.95	83.32	44.6	640.67	377.52	1018.19
44	8	67	512.7	157.02	110.47	39.68	150.15	0	819.87	255.36	1075.23
45	9	67	189	61.29	45.69	0	45.69	18.85	314.83	202.37	517.2
46	10	67	107.2	29.6	28.31	7.39	35.7	28.7	201.2	234.83	436.03
47	11	67	56.2	16.71	34.82	12.79	47.61	9.92	130.44	257.96	388.4
48	12	67	34.1	8.38	22.2	7.69	29.89	35.06	107.43	315.59	423.02
49	1	68	16.8	4.35	11.03	1.2	12.23	20.9	54.28	103.3	157.58
50	2	68	11	3.52	5.61	1.42	7.03	7.5	29.05	32.83	61.88
51	3	68	9.8	2.63	4.14	6.33	10.47	0	22.9	22.27	45.17
52	4	68	12.4	4.17	5.03	7.35	12.38	0	28.95	22.6	51.55
53	5	68	42.6	18.44	13.98	5.16	19.14	4.98	85.16	55.95	141.11
54	6	68	77.5	26.21	20.23	1.63	21.86	3.91	129.48	74.87	204.35
55	7	68	238.2	60.71	31.55	12.88	44.43	21.84	365.18	210.01	575.19
56	8	68	536.6	165.14	115.73	43.26	158.99	0	860.73	264.68	1125.41
57	9	68	215.7	64.23	48.89	0	48.89	26.4	355.22	222.93	578.15
58	10	68	99	27.8	26.34	6.88	33.22	25.1	185.12	234.34	419.46
59	11	68	38.6	15.05	28.02	9.64	37.66	0	91.31	244.4	335.71
60	12	68	23.2	8.16	12.93	7.61	20.54	24.92	76.82	223.81	300.63
61	1	69	17.6	4.44	11.95	0.76	12.71	25.95	60.7	115.9	176.6
62	2	69	7.4	3.45	3.02	1.51	4.53	5.39	20.77	28.37	49.14
63	3	69	5	3.16	1.93	0	1.93	4.43	14.52	21.84	36.36
64	4	69	7.9	3.9	3.72	1.26	4.98	1.41	18.19	21.88	40.07
65	5	69	24.2	10.16	10.3	0.23	10.53	5.82	50.71	53.74	104.45
66	6	69	68.7	23.92	18.65	2.18	20.83	2.63	116.08	70.82	186.9
67	7	69	158.3	44.73	23.56	3.44	27	11.63	241.66	134.9	376.56
68	8	69	110.2	20.17	21.92	0	21.92	38.37	190.66	98.39	289.05
69	9	69	486.9	94.06	81.44	11.74	93.18	103.1	777.24	431.8	1209.04
70	10	69	93	26.48	24.9	6.5	31.4	22.47	173.35	233.98	407.33
71	11	69	74.8	18.67	42.86	16.49	59.35	34.98	187.8	274.04	461.84
72	12	69	23.6	8.17	13.27	7.61	20.88	25.29	77.94	227.18	305.12
73	1	70	14.7	4.12	8.61	2.34	10.95	22.98	52.75	70.6	123.35
74	2	70	8.1	3.46	3.52	1.49	5.01	10.9	27.47	24.4	51.87
75	3	70	15.3	2.03	6.67	14.74	21.41	0	38.74	30.6	69.34

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
76	4	70	8.4	3.93	3.87	1.93	5.8	9.35	27.48	20.4	47.88
77	5	70	14.3	5.71	8.32	0	8.32	12.36	40.69	28	68.69
78	6	70	92.2	30.03	22.88	0.7	23.58	22.73	168.54	59.8	228.34
79	7	70	197.9	52.65	27.52	8.12	35.64	33	319.19	93.3	412.49
80	8	70	195.3	49.1	40.65	0	40.65	43.75	328.8	171.4	500.2
81	9	70	194.1	61.85	46.3	0	46.3	25.87	328.12	160.9	489.02
82	10	70	156.8	40.52	40.21	10.53	50.74	53.23	301.29	212.8	514.09
83	11	70	75.6	18.75	43.19	16.64	59.83	51.32	205.5	679	884.5
84	12	70	39.6	8.49	26.87	7.74	34.61	47.89	130.59	161.7	292.29
85	1	71	15.5	4.21	9.54	1.9	11.44	9.91	41.06	63.5	104.56
86	2	71	12.2	3.54	6.47	1.4	7.87	3.4	27.01	23.1	50.11
87	3	71	8.1	2.82	3.36	3.73	7.09	0	18.01	14.6	32.61
88	4	71	9.8	4.02	4.27	3.84	8.11	0	21.93	14.3	36.23
89	5	71	18.9	7.78	9.24	0	9.24	0.7	36.62	18.7	55.32
90	6	71	175.2	51.61	37.82	0	37.82	19.01	283.64	26.6	310.24
91	7	71	146.4	42.35	22.37	2.01	24.38	49.75	262.88	39.2	302.08
92	8	71	87.4	12.42	16.91	0	16.91	30.09	146.82	33.6	180.42
93	9	71	91.4	50.55	33.98	0	33.98	0	175.93	49.8	225.73
94	10	71	315.5	75.43	78.3	20.53	98.83	128.03	617.79	194.9	812.69
95	11	71	63.3	17.52	38.14	14.32	52.46	40.33	173.61	117.3	290.91
96	12	71	27.1	8.24	16.25	7.64	23.89	27.48	86.71	165.8	252.51
97	1	72	16.5	2.55	9.34	2.42	11.76	11.45	42.26	50.4	92.66
98	2	72	10.2	1.12	4.96	1.5	6.46	5.53	23.31	22.7	46.01
99	3	72	8	0.87	2.99	3.83	6.82	0.2	15.89	14.9	30.79
100	4	72	16.1	4.4	6.56	12.01	18.57	0	39.07	23.9	62.97
101	5	72	13.3	5.26	7.09	0	7.09	3.92	29.57	23.9	53.47
102	6	72	47.8	18.49	24.69	0	24.69	0	90.98	27.4	118.38
103	7	72	163.6	45.79	31.74	0	31.74	0	241.13	35.8	276.93
104	8	72	202.4	51.52	31.37	1.74	33.11	10.97	298	44.1	342.1
105	9	72	165.6	45.91	33.18	4.19	37.37	7.74	256.62	131.6	388.22
106	10	72	93	16.71	29.87	2.59	32.46	33.01	175.18	221.8	396.98
107	11	72	81.8	12.77	33.18	27.71	60.89	11.88	167.34	231.9	399.24
108	12	72	41.4	5.56	30.25	6.29	36.54	28.11	111.61	214.7	326.31
109	1	73	16.8	5.15	9.71	2.24	11.95	16.2	50.1	79.5	129.6
110	2	73	11.2	3.8	6.2	1.06	7.26	9.01	31.27	33.5	64.77
111	3	73	7.2	2.86	4.11	1.43	5.54	6.52	22.12	23.2	45.32
112	4	73	7	1.39	2.31	0.95	3.26	0	11.65	13.1	24.75
113	5	73	10.8	2.85	5.97	0	5.97	8.08	27.7	41.1	68.8
114	6	73	73.7	23.88	15.82	4.81	20.63	0	118.21	82.9	201.11
115	7	73	241.6	54.09	41.45	5.75	47.2	23.35	366.24	201.6	567.84

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
116	8	73	180.4	38.79	43.31	0	43.31	43.75	306.25	174.4	480.65
117	9	73	147.4	36.38	61.73	0	61.73	46.24	291.75	201	492.75
118	10	73	171.8	32.38	25.02	26.29	51.31	88.53	344.02	201.6	545.62
119	11	73	160.9	20.25	36.27	71.52	107.79	193.3	482.24	405.5	887.74
120	12	73	41.8	8.77	23.52	12.9	36.42	54.71	141.7	280.8	422.5
121	1	74	48.5	7.8	48.17	28.81	76.98	180.98	314.26	809.1	1123.36
122	2	74	19.9	3.75	12.4	0.58	12.98	15.97	52.6	94.3	146.9
123	3	74	15.2	2.88	7.09	0.83	7.92	6.67	32.67	48.5	81.17
124	4	74	15.8	4.32	4.24	0.4	4.64	1.43	26.19	19.7	45.89
125	5	74	38.8	18.17	14.56	1.58	16.14	6.95	80.06	56.4	136.46
126	6	74	150.1	37.54	32.02	3.77	35.79	9.77	233.2	59.4	292.6
127	7	74	98.6	22.53	19.04	1.3	20.34	0	141.47	68	209.47
128	8	74	346.2	101.83	66.84	7.52	74.36	20.56	542.95	110.5	653.45
129	9	74	149.3	38.27	25.08	2.41	27.49	25.9	240.96	145.4	386.36
130	10	74	200.1	56.7	35.85	5.97	41.82	57.5	356.12	252.8	608.92
131	11	74	152.4	42.82	77.93	33.71	111.64	83.4	390.26	368.8	759.06
132	12	74	49.7	8.28	37.34	14.94	52.28	43.09	153.35	230.4	383.75
133	1	75	16.7	2.52	11.2	1.91	13.11	22.32	54.65	44.4	99.05
134	2	75	9.5	1.72	6.2	1.2	7.4	7.54	26.16	24	50.16
135	3	75	9.8	1.72	4.11	1.5	5.61	4.84	21.97	16	37.97
136	4	75	14.2	2.43	6.56	1.02	7.58	6.4	30.61	33.6	64.21
137	5	75	26.2	6.64	10.08	1.58	11.66	10.08	54.58	64.2	118.78
138	6	75	248.8	72.53	55.17	6.61	61.78	6.23	389.34	199.8	589.14
139	7	75	54.9	24.05	16.06	0	16.06	0	95.01	119.1	214.11
140	8	75	242	48.49	51.09	2.5	53.59	34.9	378.98	146	524.98
141	9	75	103	21.91	48.23	0	48.23	2.82	175.96	137	312.96
142	10	75	205.4	47.74	57.88	5.94	63.82	83.34	400.3	207.2	607.5
143	11	75	123.5	21.68	68.67	36.03	104.7	87.48	337.36	301.3	638.66
144	12	75	32	4.96	25.39	7.53	32.92	34.38	104.26	140.8	245.06
145	1	76	11.9	2.81	6.35	3.38	9.73	0	24.44	61.2	85.64
146	2	76	7.4	2.28	2.89	1.75	4.64	6.83	21.15	27.3	48.45
147	3	76	6	2.62	1.87	1.01	2.88	3.68	15.18	17.9	33.08
148	4	76	7.3	2.53	4.63	0	4.63	3.43	17.89	20.4	38.29
149	5	76	90	29.39	21.28	21.28	42.56	13	174.95	73.2	248.15
150	6	76	81	27.31	20.45	1.88	22.33	4.5	135.14	81.8	216.94
151	7	76	144.1	45.51	23.9	0.4	24.3	6.88	220.79	61.2	281.99
152	8	76	143.4	33.23	26.14	0	26.14	37.49	240.26	101.9	342.16
153	9	76	298.2	72.53	66.74	0	66.74	53.35	490.82	198.3	689.12
154	10	76	56.4	10.97	17.18	3.65	20.83	14.01	102.21	173.6	275.81
155	11	76	91.8	10.38	47.07	23.78	70.85	68.78	241.81	233	474.81

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
156	12	76	28.8	5.04	11.58	13.55	25.13	34.98	93.95	180.3	274.25
157	1	77	13.2	2.86	7.47	5.93	13.4	0	29.46	43.7	73.16
158	2	77	9.3	2.09	4.13	3.67	7.8	6.14	25.33	26	51.33
159	3	77	7.5	2.3	2.99	3.19	6.18	1.6	17.58	19	36.58
160	4	77	6.1	2.6	1.54	0.96	2.5	3.65	14.85	18.9	33.75
161	5	77	21	6.19	7.09	0	7.09	11.01	45.29	23.5	68.79
162	6	77	33.1	7.29	8.1	0.23	8.33	13.56	62.28	27.8	90.08
163	7	77	42.2	9.96	7.09	0.77	7.86	0	60.02	37	97.02
164	8	77	235.3	60.43	48.92	0.39	49.31	24.09	369.13	63.1	432.23
165	9	77	263.9	69.53	55.17	1.98	57.15	41.1	431.68	115.7	547.38
166	10	77	104.2	19.55	30.99	6.5	37.49	36.24	197.48	194.5	391.98
167	11	77	149.3	14.04	125	0	125	134.84	423.18	252.3	675.48
168	12	77	26.7	4.81	12.7	10.31	23.01	33.93	88.45	107.5	195.95
169	1	78	10.6	2.78	4.48	0.33	4.81	0	18.19	38.8	56.99
170	2	78	7.2	1.78	2.89	0	2.89	9.32	21.19	23.2	44.39
171	3	78	5.4	0.94	2.24	0	2.24	5.98	14.56	17.2	31.76
172	4	78	9.7	1.92	6.17	4.86	11.03	0	22.65	30.1	52.75
173	5	78	24.5	8.24	9.71	2.03	11.74	6.84	51.32	70.9	122.22
174	6	78	144.7	42.82	23.53	0.6	24.13	19.97	231.62	104.6	336.22
175	7	78	202.4	55.58	28.01	2.24	30.25	24.32	312.55	158.3	470.85
176	8	78	296.9	86.54	63.48	5.44	68.92	13.64	466	152.7	618.7
177	9	78	328.7	77.93	65.97	6.28	72.25	55.25	534.13	195.2	729.33
178	10	78	148.2	39.17	32.86	7.55	40.41	57.63	285.41	193	478.41
179	11	78	36.1	11.46	13.89	3.86	17.75	9.3	74.61	164.7	239.31
180	12	78	18.5	5	7.84	2.37	10.21	32.34	66.05	98.2	164.25
181	1	79	12.3	3.29	6.72	7.76	14.48	0	30.07	41.4	71.47
182	2	79	9.5	2.51	4.13	4.63	8.76	4.91	25.68	25.6	51.28
183	3	79	8.6	2.58	2.99	6.3	9.29	0	20.47	25	45.47
184	4	79	9.9	7.1	3.47	3.24	6.71	0	23.71	23.5	47.21
185	5	79	63.1	21.07	21.66	8.15	29.81	11.05	125.03	33.6	158.63
186	6	79	70.2	22.84	23.53	10.12	33.65	0	126.69	71	197.69
187	7	79	388.3	80.57	85.51	11.69	97.2	39.92	605.99	308.4	914.39
188	8	79	329.4	56.7	79.16	8.53	87.69	42.01	515.8	248.7	764.5
189	9	79	167.1	50.15	42.05	0	42.05	20.5	279.8	227.2	507
190	10	79	258.4	54.46	81.77	3.98	85.75	108.17	506.78	234.5	741.28
191	11	79	50.5	7.95	63.66	19.17	82.83	0	141.28	205.6	346.88
192	12	79	20.4	4.81	15.31	12.5	27.81	17.39	70.41	95.6	166.01
193	1	80	15.2	7.09	5.97	1.66	7.63	30.25	60.17	61.6	121.77
194	2	80	11	4.58	2.89	1.23	4.12	26.23	45.93	47.1	93.03
195	3	80	8	2.95	1.87	4.02	5.89	18.16	35	36.2	71.2

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
196	4	80	7.5	3.17	1.93	0.73	2.66	16.21	29.54	30.1	59.64
197	5	80	25.2	7.98	10.83	1.13	11.96	17.8	62.94	63.8	126.74
198	6	80	98.4	25.96	23.53	2.29	25.82	25.23	175.41	176.7	352.11
199	7	80	281.2	63.78	38.46	2.42	40.88	71.4	457.26	460.7	917.96
200	8	80	267.7	64.53	58.25	0	58.25	21.82	412.3	408.1	820.4
201	9	80	308.6	71.76	57.1	3.63	60.73	144.49	585.58	591.4	1176.98
202	10	80	131.8	36.33	43.69	4.88	48.57	94.98	311.68	316.2	627.88
203	11	80	98.8	26.85	36.27	11.89	48.16	106.6	280.41	286.3	566.71
204	12	80	33.1	12.83	21.28	7.88	29.16	66.65	141.74	146	287.74
205	1	81	11.8	3.73	7.47	2.38	9.85	7.81	33.19	45.5	78.69
206	2	81	7.8	4.13	4.13	0.92	5.05	4.28	21.26	21.1	42.36
207	3	81	6	3.19	3.73	0	3.73	4.5	17.42	17.2	34.62
208	4	81	7.2	4.01	6.17	0	6.17	23.38	40.76	23.5	64.26
209	5	81	16.4	10.59	13.07	0	13.07	40.8	80.86	91.8	172.66
210	6	81	173.2	50.93	41.28	0	41.28	50.06	315.47	145.1	460.57
211	7	81	74.6	24.62	15.31	0	15.31	30.13	144.66	50.8	195.46
212	8	81	76.5	16.26	17.55	0	17.55	8.03	118.34	31.7	150.04
213	9	81	101.1	30.4	28.94	0	28.94	15.43	175.87	71	246.87
214	10	81	52.7	18.8	17.55	2.31	19.86	5.4	96.76	95.6	192.36
215	11	81	92.2	28.2	42.44	27.97	70.41	81.27	272.08	237.3	509.38
216	12	81	34.3	11.45	25.39	5.77	31.16	0	76.91	291.2	368.11
217	1	82	10.5	4.7	3.79	5.02	8.81	1.32	25.33	39.2	64.53
218	2	82	6.5	5.2	2.37	1.66	4.03	0	15.73	17.8	33.53
219	3	82	4.9	4.36	1.88	0	1.88	0	11.14	9	20.14
220	4	82	9.6	6.17	4.21	3.88	8.09	3.22	27.08	30.9	57.98
221	5	82	25.7	10.37	10.6	0.69	11.29	0	47.36	80.6	127.96
222	6	82	36.1	16.09	12.78	4.61	17.39	0	69.58	130.8	200.38
223	7	82	271.1	72.36	34.84	18.23	53.07	99.61	496.14	270.3	766.44
224	8	82	206.1	55.2	43.02	0	43.02	71.76	376.08	205	581.08
225	9	82	191.7	53.63	46.01	0	46.01	112.48	403.82	187.1	590.92
226	10	82	66.1	24.66	18.44	5.23	23.67	26.24	140.67	239.3	379.97
227	11	82	38.3	16.13	27.89	10.43	38.32	30.56	123.31	258.5	381.81
228	12	82	21.6	9.85	11.57	8.26	19.83	22.98	74.26	102.3	176.56
229	1	83	14.6	5.41	8.5	2.6	11.1	6.2	37.31	49.3	86.61
230	2	83	9.4	5.99	4.46	1.59	6.05	4.53	25.97	51.7	77.67
231	3	83	5.9	4.29	2.34	0.4	2.74	2.22	15.15	22.8	37.95
232	4	83	3.2	3.18	2.36	0	2.36	2.96	11.7	9.3	21
233	5	83	23.7	14.51	10.2	0.1	10.3	1.77	50.28	27.3	77.58
234	6	83	83.7	31.48	21.35	1.35	22.7	1.56	139.44	84.9	224.34
235	7	83	111.7	38.42	18.9	0	18.9	3.09	172.11	102.7	274.81

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
236	8	83	208	58.93	43.44	0	43.44	23.29	333.66	169.1	502.76
237	9	83	164.4	49.38	42.74	0	42.74	21.46	277.98	203.3	481.28
238	10	83	181.9	48.86	46.24	13.16	59.4	62.23	352.39	290.8	643.19
239	11	83	106.5	27.31	55.86	22.87	78.73	56.8	269.34	244.6	513.94
240	12	83	27.4	10.52	16.5	7.77	24.27	22.05	84.24	89	173.24
241	1	84	12.7	4.85	6.31	3.49	9.8	6.84	34.19	160.5	194.69
242	2	84	9.2	5.37	4.31	1.49	5.8	43.72	64.09	50.8	114.89
243	3	84	6.1	5.26	2.44	0.68	3.12	58.54	73.02	41.8	114.82
244	4	84	8.5	5.75	3.9	2.1	6	0	20.25	27.8	48.05
245	5	84	29.2	11	11.3	1.59	12.89	0	53.09	85.1	138.19
246	6	84	112.3	43.21	26.49	0	26.49	1.48	183.48	109.2	292.68
247	7	84	136.3	36.52	21.36	0.85	22.21	34.66	229.69	159.4	389.09
248	8	84	323.7	75.35	68.89	11.57	80.46	50.99	530.5	84.4	614.9
249	9	84	177.5	46.68	44.31	0	44.31	51.3	319.79	120.4	440.19
250	10	84	146	42.9	37.62	10.01	47.63	31.75	268.28	264	532.28
251	11	84	36.7	12.89	27.24	9.44	36.68	0.38	86.65	115.7	202.35
252	12	84	28	8.8	17.01	7.77	24.78	41.15	102.73	297.2	399.93
253	1	85	14.9	4.4	8.85	2.26	11.11	0	30.41	53.8	84.21
254	2	85	9.8	4.87	4.75	1.47	6.22	0	20.89	23.1	43.99
255	3	85	7.1	3.58	2.9	2.24	5.14	0	15.82	14.2	30.02
256	4	85	8	7.52	3.75	1.42	5.17	9.27	29.96	29.7	59.66
257	5	85	15.7	12.46	8.6	0	8.6	8.53	45.29	103.4	148.69
258	6	85	137.7	42.82	31.07	0	31.07	31.53	243.12	134.3	377.42
259	7	85	49.7	16.19	12.7	0	12.7	0	78.59	56.8	135.39
260	8	85	175.1	45.88	36.2	0	36.2	0	257.18	67.6	324.78
261	9	85	138.9	46.3	39.68	0	39.68	0	224.88	134.3	359.18
262	10	85	159.8	59.68	40.93	10.9	51.83	2.35	273.66	276.3	549.96
263	11	85	64	24.15	38.43	14.96	53.39	5.34	146.88	240.4	387.28
264	12	85	25.7	11.67	15.06	7.75	22.81	0	60.18	131	191.18
265	1	86	8.2	3.28	1.14	5.97	7.11	7.26	25.85	60.1	85.95
266	2	86	8	3.63	3.45	1.51	4.96	0	16.59	31.8	48.39
267	3	86	12.5	2.39	5.38	10.64	16.02	0	30.91	21.3	52.21
268	4	86	11.5	3.17	4.77	6.24	11.01	0	25.68	15	40.68
269	5	86	94.2	54.83	24.3	19.31	43.61	0	192.64	71.7	264.34
270	6	86	66.9	34.72	18.32	2.34	20.66	0	122.28	69.4	191.68
271	7	86	143.1	63.41	22.04	1.67	23.71	0	230.22	136.6	366.82
272	8	86	363.8	154.42	77.72	17.66	95.38	0	613.6	221.8	835.4
273	9	86	152.2	130.4	41.27	0	41.27	29.29	353.16	413.2	766.36
274	10	86	107.6	39.91	28.4	7.55	35.95	24.72	208.18	445	653.18
275	11	86	60.3	27.04	36.91	13.99	50.9	64.03	202.27	326.8	529.07

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
276	12	86	22.1	11.71	12	7.73	19.73	63.76	117.3	172.1	289.4
277	1	87	10.9	3.7	4.3	4.45	8.75	9.59	32.94	78.8	111.74
278	2	87	8.1	3.5	3.5	1.54	5.04	36.23	52.87	39.7	92.57
279	3	87	9.2	2.7	3.9	5.51	9.41	36.5	57.81	20.9	78.71
280	4	87	13.8	4.3	5.4	9.47	14.87	0	32.97	15.8	48.77
281	5	87	33.1	14.2	12.1	2.64	14.74	17.75	79.79	32.5	112.29
282	6	87	68.8	24	18.7	2.19	20.89	26.07	139.76	64.8	204.56
283	7	87	26.4	18.4	10.4	0	10.4	65.57	120.77	22.4	143.17
284	8	87	118.5	23	23.7	0	23.7	81.58	246.78	140.8	387.58
285	9	87	84.4	49.8	33.1	0	33.1	55.06	222.36	147.8	370.16
286	10	87	68.1	21	18.9	5.03	23.93	25.36	138.39	173.2	311.59
287	11	87	59.1	17.1	36.4	13.81	50.21	42.16	168.57	226.1	394.67
288	12	87	32.4	8.4	20.8	7.77	28.57	31.14	100.51	316.6	417.11
289	1	88	28.4	5.6	24.4	0	24.4	77.7	136.1	71.7	207.8
290	2	88	28	3.9	17.8	1.05	18.85	21.8	72.55	34.3	106.85
291	3	88	27.5	0.7	12.3	33.96	46.26	0	74.46	23.9	98.36
292	4	88	42.8	6	13.8	49.39	63.19	0	111.99	24.3	136.29
293	5	88	72.7	32	20	13.46	33.46	3.02	141.18	65.7	206.88
294	6	88	80.5	27	20.8	1.44	22.24	19.4	149.14	28.2	177.34
295	7	88	123	37.7	20.3	0	20.3	21.66	202.66	134	336.66
296	8	88	86.7	12.2	16.8	0	16.8	27.37	143.07	129.2	272.27
297	9	88	159.8	58.1	42.2	0	42.2	44.85	304.95	271.6	576.55
298	10	88	186.4	47	47.3	12.61	59.91	48.18	341.49	281.9	623.39
299	11	88	104.7	21.7	55.1	22.55	77.65	17.6	221.65	548.6	770.25
300	12	88	30.2	8.3	18.9	7.81	26.71	30.65	95.86	249.4	345.26
301	1	89	24.9	5.2	20.3	0	20.3	59.27	109.67	21.2	130.87
302	2	89	16.5	3.6	9.6	1.3	10.9	9.76	40.76	13.7	54.46
303	3	89	30.1	0.4	13.5	37.93	51.43	0	81.93	12.1	94.03
304	4	89	38	5.7	12.4	42.75	55.15	0	98.85	27.9	126.75
305	5	89	114.3	50.7	28.3	24.81	53.11	1.47	219.58	51.9	271.48
306	6	89	107.8	34.1	25.7	0	25.7	26.37	193.97	54	247.97
307	7	89	147.4	42.5	22.5	2.15	24.65	17.16	231.71	80.3	312.01
308	8	89	315.5	90	67.1	10.29	77.39	62.83	545.72	115.4	661.12
309	9	89	145.8	56.5	40.5	0	40.5	39.9	282.7	158.2	440.9
310	10	89	141.7	37.2	36.6	9.73	46.33	103.96	329.19	280.8	609.99
311	11	89	68.3	18	40.2	15.5	55.7	107.19	249.19	212.6	461.79
312	12	89	47.9	8.7	33.9	7.93	41.83	28.43	126.86	43.3	170.16
313	1	90	25.1	5.3	20.6	0	20.6	60.39	111.39	119.2	230.59
314	2	90	8.7	3.5	3.9	1.51	5.41	4.97	22.58	63.2	85.78
315	3	90	19.4	1.6	8.6	21.37	29.97	0	50.97	61.5	112.47

NO.	MONTH	YEAR	CP1 FLOW	CP2 FLOW	CP3 FLOW	CP4 S FLOW	CP4 FLOW	CP5 S FLOW	CP5 FLOW	CP6 FLOW	CP7 FLOW
316	4	90	22.5	4.8	7.9	21.4	29.3	0	56.6	47.2	103.8
317	5	90	56.9	24.9	16.8	9.17	25.97	3.5	111.27	86.5	197.77
318	6	90	112	35.2	26.4	0	26.4	28.61	202.21	123.1	325.31
319	7	90	84.8	30	16.2	0	16.2	14.3	145.3	89.6	234.9
320	8	90	156.5	35.9	32.1	0	32.1	54.63	279.13	187.2	466.33
321	9	90	183	60.6	45	0	45	32.09	320.69	202.5	523.19
322	10	90	168.4	30.5	42.98	11.44	54.42	14.69	268.01	436.9	704.91
323	11	90	85.3	17.1	47.16	18.79	65.95	1.73	170.08	709.7	879.78
324	12	90	41.7	8.2	28.68	7.89	36.57	48.41	134.88	376.3	511.18
325	1	91	32.1	6.03	28.64	0	28.64	96.57	163.34	345.02	508.36
326	2	91	12.5	3.55	6.68	1.41	8.09	6.89	31.03	34.68	65.71
327	3	91	21.8	1.31	9.67	25.13	34.8	0	57.91	23.35	81.26
328	4	91	23.8	4.86	8.34	23.23	31.57	0	60.23	24.43	84.66
329	5	91	40.8	17.61	13.61	4.74	18.35	4.1	80.86	55.7	136.56
330	6	91	46.7	18.2	14.69	3.63	18.32	0	83.22	60.71	143.93
331	7	91	122	37.46	19.93	0	19.93	5.73	185.12	100.74	285.86
332	8	91	202.5	51.55	42.23	0	42.23	22.99	319.27	134.39	453.66
333	9	91	195.5	62	46.47	0	46.47	17.04	321.01	207.37	528.38
334	10	91	109.2	30.05	28.79	7.65	36.44	24.37	200.06	234.95	435.01
335	11	91	43.2	15.51	29.89	10.69	40.58	0	99.29	248.11	347.4
336	12	91	28	8.26	17.04	7.77	24.81	24.26	85.33	264.48	349.81
AVG.M.RUNOFF(CMS)			87.19	24.52	24.52	6.54	31.06	25.21	167.98	135.05	303.03
DRAIN.AREA(Sq.Km)			1437	312	656		1001		4415	5200	
YIELD(COMPUTED) (Lit/s/Sq.Km.)			60.68	78.58	37.38		31.03		38.05	25.97	
YIELD(EGAT.)			66.11	79.03	40.36		31.81		35.89	23.49	
% DIFF.			8.22	0.58	7.38		2.46		6.01	10.56	

ภาคผนวก ค

สถานีน้ำท่าในลุ่มน้ำตาปี



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

Mean Annual Flow and Basin Yield of Runoff
in TAPI River Basin of Thailand

NO.	River	Station	Location	Station Code or Agency's Name	Drainage Area (SQ.KM.)	Average Annual Runoff (MCM.)	Period	Average Yield of Runoff (Lit/Sec/SQ.KM)
1	Mae Nam Ta-Pi	A.Phra Saeng	Lat. 8 34'03"N Long.99 15'15"E	X37A	5,200.0	3851.93	1969-1988	23.49
2	Mae Nam Ta-Pi	Ban Phung Phrom Nakhon	Lat. 8 45'02"N Long.99 14'12"E	X4	6,202.0	8544.14	1950-1962	43.68
3	Khlong Chan Di	Ban Tha Phae	Lat. 8 21'21"N Long.99 41'19"E	X17	16.0	60.92	1956-1959	120.74
4	Khlong Sang	Ban Tha Yang	Lat. 8 18'12"N Long.99 22'11"E	X102	179.0	-	-	-
5	Khlong Sok	Ban lang Tham	Lat. 8 53'05"N Long.98 40'06"E	X58	312.0	777.56	1972-1986	79.03
6	Khlong Sok	Ban Song Pi Nong	Lat. 8 50'39"N Long.98 44'39"E	X51	431.0	811.88	1972-1978	59.73
7	Khlong Sok	Ban Cheo Sai	Lat. 8 49'18"N Long.98 50'06"E	XBN5	892.0	1087.85	1974-1988	38.67
8	Khlong Chong Lom	Ban Chong Lom	Lat. 8 53'10"N Long.98 41'27"E	X57	8.0	24.42	1972-1984	96.79
9	Khlong Phanom	Ban Bang San	Lat. 8 46'18"N Long.98 47'24"E	XBN4	360.0	306.80	1974-1988	27.02

Mean Annual Flow and Basin Yield of Runoff
in TAPI River Basin of Thailand

NO.	River	Station	Location	Station Code or Agency's Name	Drainage Area (SQ.KM.)	Average Annual Runoff (MCM.)	Period	Average Yield of Runoff (Lit/Sec/SQ.KM)
10	Khlong Cha-Un	Ban Khlong Cha-Un	Lat. 8 49'18"N Long.98 50'36"E	XBN3	136.0	101.33	1974-1988	23.63
11	Khlong Saeng	Ban Chiea Ko	Lat. 9 01'00"N Long.98 40'23"E	X59	800.0	2235.10	1972-1974	88.59
12	Khlong Saeng	Ban Khao Phang	Lat. 8 57'06"N Long.98 49'00"E	XBN2	1,400.0	2927.30	1974-1976	66.30
13	Khlong Saeng	Ban Khao Phang	Lat. 8 57'07"N Long.98 48'53"E	X39	1,437.0	2995.91	1964-1983	66.11
14	Khlong Phum Duang	Ban Yan Lon	Lat. 8 53'51"N Long.98 52'32"E	X38	2,690.0	4639.10	1964-1974	54.69
15	Khlong Phum Duang	Khiri ratthanikom	Lat. 8 01'48"N Long.98 58'00"E	XBN1	2,860.0	4768.70	1974-1976	52.87
16	Khlong Phum Duang	Ban Tha Tun	Lat. 8 03'57"N Long.99 02'58"E	X6B	4,415.0	4997.13	1969-1982	35.89
17	Khlong Phum Duang	Ban Bang Ngon	Lat. 9 04'25"N Long.99 04'06"E	X6	4,447.0	4738.07	1950-1960	33.79
18	Khlong Yan	Ban TaKuk Nua	Lat. 9 18'27"N Long.99 51'52"E	X66	656.0	835.00	1972-1979	40.36

**Mean Annual Flow and Basin Yield of Runoff
in TAPI River Basin of Thailand**

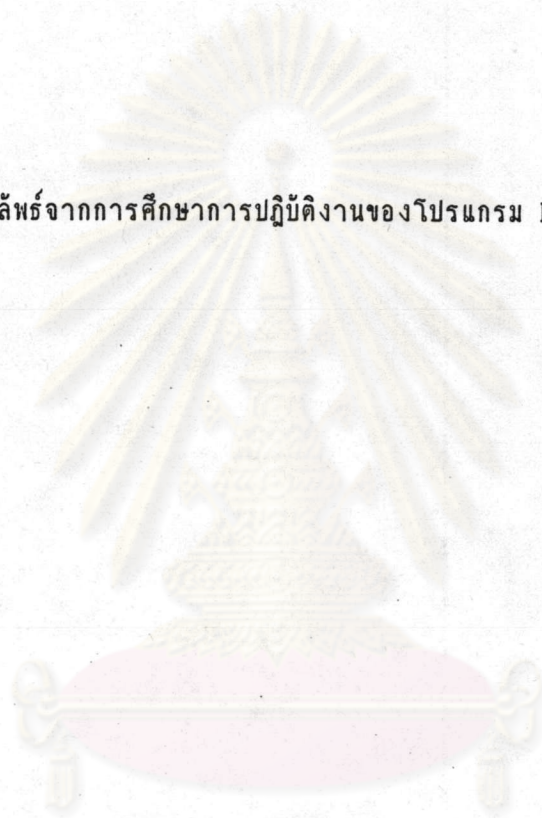
NO.	River	Station	Location	Station Code or Agency's Name	Drainage Area (SQ.KM.)	Average Annual Runoff (MCM.)	Period	Average Yield of Runoff (Lit/Sec/SQ.KM)
19	Khlong Yan	Ban Nam Hak	Lat. 9 06'18"N Long.98 58'52"E	X92	1,001.0	1004.23	1974-1981	31.81
20	Khlong Yan	Ban Tha Kradan	Lat. 9 04'03"N Long.98 59'08"E	X74A,B	1,178.0	964.31	1969-1978	25.96
21	Khlong Tan	A.Wiang Sa	Lat. 8 38'07"N Long.99 22'59"E	X99	105.0	66.19	1975-1988	19.99
22	Khlong Phai	Ban Khlong Phai	Lat. 9 09'18"N Long.98 53'42"E	XBN6	36.0	33.82	1981-1988	29.79
23	Khlong Yan	Ban Yan	Lat. 9 04'06"N Long.98 59'54"E	XBN7	980.0	884.09	1983-1988	28.61
24	Khlong Lam Phun	Ban Plai Nam	Lat. 8 52'23"N Long.99 25'59"E	X80	114.0	54.04	1982-1988	15.03
25	Khlong Chawang	Ban Na San	Lat. 8 48'16"N Long.99 22'27"E	X81	219.0	166.58	1982-1988	24.12
26	Tapi	Ban Chandi	Lat. 8 32'14"N Long.99 37'12"E	X147	69.0	179.52	1987-1988	82.50
27	Khlong Chan Di	Ban Lam Thap	Lat. 8 20'34"N Long.99 37'12"E	X163	97.0	136.89	1987-1988	44.75

Mean Annual Flow and Basin Yield of Runoff
in TAPI River Basin of Thailand

NO.	River	Station	Location	Station Code or Agency's Name	Drainage Area (SQ.KM.)	Average Annual Runoff (MCM.)	Period	Average Yield of Runoff (Lit/Sec/SQ.KM)
28	Khlong Lam Thap	Ban Lam Thap	Lat. 8 03'42"N Long.99 17'43"E	X136	80.0	63.76	1986-1988	25.27
29	Khlong Sin Pun	Wat Khlong Kha Liap	Lat. 8 18'49"N Long.99 19'18"E	XBE3	556.0	295.42	1985-1989	16.85
30	Khlong Sok	Wat Lert	Lat. 8 50'34"N Long.98 50'29"E	XBE4	1,097.0	1347.66	1988-1989	38.96
31	Khlong Yan	Kaeng Krung	Lat. 9 18'42"N Long.98 51'42"E	XBE1	661.0	784.34	1981-1989	37.63
32	Khlong Phum Duang	Ban Ta Khun	Lat. 8 54'56"N Long.98 53'30"E	X38A	2,706.0	4588.97	1974-1981	53.78
33	Khlong Phum Duang	Ban Tha Tun	Lat. 9 03'57"N Long.99 02'58"E	X6C	4,415.0	5478.23	1972-1974	39.35
34	Khlong Sang	Ban Thang Kham	Lat. 8 17'57"N Long.99 23'00"E	X102A	152.0	105.96	1977-1988	22.11

ภาคผนวก ง

ผลลัพธ์จากการศึกษาการปฏิบัติงานของโปรแกรม HEC - 5 ทั้ง 3 กรณี



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

For your information, the following command line was given to execute Program HEC5A:

INPUT=CASE1.DAT OUTPUT=CASE1.OUT DSSFILE=CASE1.DSS MENU=OFF

1

```

*****
* HEC-5 SIMULATION OF FLOOD CONTROL AND CONSERVATION SYSTEMS *
*
*   Version   7.2; March 1991
*
* RUN DATE 20 MAR 93 TIME 22:00:47
*****

*****
* U.S. ARMY CORPS OF ENGINEERS *
* HYDROLOGIC ENGINEERING CENTER *
* 609 SECOND STREET, SUITE D *
* DAVIS, CALIFORNIA 95616-4687 *
* (916) 756-1104 *
*****

```

```

X   X XXXXXXX XXXXX   XXXXXX
X   X X   X X   X    X
X   X X    X       X
XXXXXXXX XXXXX   X    XXXX XXXXXX
X   X X    X       X
X   X X   X X   X    X X
X   X XXXXXXX XXXXX   XXXXXX

```

```

*****
*
*   MODELING CAPABILITIES OF THIS VERSION ARE:
*
*   Flood Control, Water Supply, Hydropower, DSS Version 6
*
*
*
*   MAXIMUM LIMITS FOR THIS VERSION ARE:
*
*
*****

```

```

*   Reservoirs = 7, Control Points = 15, Diversions = 7, Power Plants = 5   *
*
*   Model Data cards (T1-ED)= 400   Reservoir Levels = 40   Flow Sequence Sets (BF-EJ)= 5   *
*   J8+JZ Output/DSS cards = 20   Seasonal Storages= 24   Periods per Flow Sequence = 370   *
*   "Stacked" Jobs (T1-EJ)= 1   Seasons (CS card)= 24   Dynamic Dimen. (DM array) = 20000   *
*
*
*****
    
```

1

HEC-5 SIMULATION OF FLOOD CONTROL
AND CONSERVATION SYSTEMS

Version 7.2; March 1991

MAX DIMENSION LIMITS ARE CURRENTLY SET AT 7 RESERVOIRS AND 15 CONTROL POINTS

*INPUT LISTING FROM PRERD

TO SUPPRESS LISTING, INSERT NOLIST CARD INTO INPUT DECK AT DESIRED POINT

```

T1   SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P.      BEFORE DAM
T2   RAJJAPRABHA PROJECT AT TAPI RIVER BASIN      MONTH FLOW & DAILY FLOOD
T3   ( POWER,FLOOD,IRRIGATION ) 18 / 3 / 2535      (1964 - 1991) (1974)
J1   1     1     4     3     4     2
J2           1.2
J3   2           0     -1           0           0
J8  1.02  2.02  3.02  4.04  4.06  5.24  5.04  5.06  6.02  7.04
    
```

```

RL   1
RO   2     5     7
RS   2     0    100
RQ   2    -1    -1
RA   2     0     1
RE   2     1    10
    
```

```

CP   1    1500
ID RAJJAPRABHA RES ( X.39 )
RT   1     5    1.2    0.1    24
    
```

```

RL   2
RO   2     5     7
RS   2     0    100
RQ   2    -1    -1
RA   2     0     1
RE   2     1    10
    
```

```

CP   2     400
ID DUM RES.CP-2 ( X.58 )
RT   2     5    1.2    0.1    24
    
```

RL	3			
RO	3	4	5	7
RS	2	0	100	
RQ	2	-1	-1	
RA	2	0	1	
RE	2	1	10	

CP	3	650								
ID DUM RES.CP-3 (X.66)										
RT	3	4	1.2	0.1	24					

CP	4	800								
ID CP-4 (X.92)										
RT	4	5	1.2	0.1	24					
GM	9.20	16.2	14.5	4.3	3.70	7.80	5.60	3.10	0.00	0.00
GM	0.00	1.70								

CP	5	2000								
ID CP-5 (X.68)										
RT	5	7	1.2	0.1	24					
GM	5.20	9.40	8.30	2.40	2.20	4.50	3.20	1.80	0.00	0.00
GM	0.00	1.00								

RL	6			
RO	1	7		
RS	2	0	100	
RQ	2	-1	-1	
RA	2	0	1	
RE	2	1	10	

CP	6	3000								
ID DUM.RES.CP-6 (X.37A)										
RT	6	7	1.2	0.1	24					

CP	7	5000								
ID DUM LAST DOSTR CP-7										
RT	7	0								
ED										

BF	0	336	336	164010100	0	720				
IN	1	30JAN64	23.8	20.8	14.9	16.6	88.1	73.7	38.8	399.4
IN	196.0	158.7	164.7	64.2	23.6	16.2	15.3	34.2	76.2	280.1
IN	411.1	174.4	280.0	137.8	115.0	65.7	62.4	17.7	10.5	16.5
IN	107.5	60.6	165.4	237.1	94.5	86.6	101.9	95.2	15.8	8.4
IN	5.7	17.7	99.7	208.3	416.4	512.7	189.0	107.2	56.2	34.1
IN	16.8	11.0	9.8	12.4	42.6	77.5	238.2	536.6	215.7	99.0
IN	38.6	23.2	17.6	7.4	5.0	7.9	24.2	68.7	158.3	110.2
IN	486.9	93.0	74.8	23.6	14.7	8.1	15.3	8.4	14.3	92.2
IN	197.9	195.3	194.1	156.8	75.6	39.6	15.5	12.2	8.1	9.8
IN	18.9	175.2	146.4	87.4	91.4	315.5	63.3	27.1	16.5	10.2
IN	8.0	16.1	13.3	47.8	163.6	202.4	165.6	93.0	81.8	41.4
IN	16.8	-11.2	7.2	7.0	10.8	73.7	241.6	180.4	147.4	171.8
IN	160.9	41.8	48.5	19.9	15.2	15.8	38.8	150.1	98.6	346.2

IN 149.3	200.1	152.4	49.7	16.7	9.5	9.8	14.2	26.2	248.8
IN 54.9	242.0	103.0	205.4	123.5	32.0	11.9	7.4	6.0	7.3
IN 90.0	81.0	144.1	143.4	298.2	56.4	91.8	28.8	13.2	9.3
IN 7.5	6.1	21.0	33.1	42.2	235.3	263.9	104.2	149.3	26.7
IN 10.6	7.2	5.4	9.7	24.5	144.7	202.4	296.9	328.7	148.2
IN 36.1	18.5	12.3	9.5	8.6	9.9	63.1	70.2	388.3	329.4
IN 167.1	258.4	50.5	20.4	15.2	11.0	8.0	7.5	25.2	98.4
IN 281.2	267.7	308.6	131.8	98.8	33.1	11.8	7.8	6.0	7.2
IN 16.4	173.2	74.6	76.5	101.1	52.7	92.2	34.3	10.5	6.5
IN 4.9	9.6	25.7	36.1	271.1	206.1	191.7	66.1	38.3	21.6
IN 14.6	9.4	5.9	3.2	23.7	83.7	111.7	208.0	164.4	181.9
IN 106.5	27.4	12.7	9.2	6.1	8.5	29.2	112.3	136.3	323.7
IN 177.5	146.0	36.7	28.0	14.9	9.8	7.1	8.0	15.7	137.7
IN 49.7	175.1	138.9	159.8	64.0	25.7	8.2	8.0	12.5	11.5
IN 94.2	66.9	143.1	363.8	152.2	107.6	60.3	22.1	10.9	8.1
IN 9.2	13.8	33.1	68.8	26.4	118.5	84.4	68.1	59.1	32.4
IN 28.4	28.0	27.5	42.8	72.7	80.5	123.0	86.7	159.8	186.4
IN 104.7	30.2	24.9	16.5	30.1	38.0	114.3	107.8	147.4	315.5
IN 145.8	141.7	68.3	47.9	25.1	8.7	19.4	22.5	56.9	112.0
IN 84.8	156.5	183.0	168.4	85.3	41.7	32.1	12.5	21.8	23.8
IN 40.8	46.7	122.0	202.5	195.5	109.2	43.2	28.0		
IN 2 30JAN64	5.12	3.72	2.07	4.43	38.92	25.22	20.83	98.10	
IN 62.06	40.93	27.66	8.98	5.10	3.62	2.03	5.48	33.56	78.89
IN 95.29	42.00	71.30	36.34	22.69	9.01	9.36	3.65	2.56	4.42
IN 47.65	21.82	46.15	63.31	50.90	25.07	21.38	9.60	4.24	3.47
IN 3.08	4.49	44.14	60.22	96.35	157.02	61.29	29.60	16.71	8.38
IN 4.35	3.52	2.63	4.17	18.44	26.21	60.71	165.14	64.23	27.80
IN 15.05	8.16	4.44	3.45	3.16	3.90	10.16	23.92	44.73	20.17
IN 94.06	26.48	18.67	8.17	4.12	3.46	2.03	3.93	5.71	30.03
IN 52.65	49.10	61.85	40.52	18.75	8.49	4.21	3.54	2.82	4.02
IN 7.78	51.61	42.35	12.42	50.55	75.43	17.52	8.24	2.55	1.12
IN 0.87	4.40	5.26	18.49	45.79	51.52	45.91	16.71	12.77	5.56
IN 5.15	3.80	2.86	1.39	2.85	23.88	54.09	38.79	36.38	32.38
IN 20.25	8.77	7.80	3.75	2.88	4.32	18.17	37.54	22.53	101.83
IN 38.27	56.70	42.82	8.28	2.52	1.72	1.72	2.43	6.64	72.53
IN 24.05	48.49	21.91	47.74	21.68	4.96	2.81	2.28	2.62	2.53
IN 29.39	27.31	45.51	33.23	72.53	10.97	10.38	5.04	2.86	2.09
IN 2.30	2.60	6.19	7.29	9.96	60.43	69.53	19.55	14.04	4.81
IN 2.78	1.78	0.94	1.92	8.24	42.82	55.58	86.54	77.93	39.17
IN 11.46	5.00	3.29	2.51	2.58	7.10	21.07	22.84	80.57	56.70
IN 50.15	54.46	7.95	4.81	7.09	4.58	2.95	3.17	7.98	25.96
IN 63.78	64.53	71.76	36.33	26.85	12.83	3.73	4.13	3.19	4.01
IN 10.59	50.93	24.62	16.26	30.40	18.80	28.20	11.45	4.70	5.20
IN 4.36	6.17	10.37	16.09	72.36	55.20	53.63	24.66	16.13	9.85
IN 5.41	5.99	4.29	3.18	14.51	31.48	38.42	58.93	49.38	48.86
IN 27.31	10.52	4.85	5.37	5.26	5.75	11.00	43.21	36.52	75.35
IN 46.68	42.90	12.89	8.80	4.40	4.87	3.58	7.52	12.46	42.82
IN 16.19	45.88	46.30	59.68	24.15	11.67	3.28	3.63	2.39	3.17
IN 54.83	34.72	63.41	154.42	130.40	39.91	27.04	11.71	3.70	3.50
IN 2.70	4.30	14.20	24.00	18.40	23.00	49.80	21.00	17.10	8.40
IN 5.60	3.90	0.70	6.00	32.00	27.00	37.70	12.20	58.10	47.00
IN 21.70	8.30	5.20	3.60	0.40	5.70	50.70	34.10	42.50	90.00
IN 56.50	37.20	18.00	8.70	5.30	3.50	1.60	4.80	24.90	35.20

IN 30.00	35.90	60.60	30.50	17.10	8.20	6.03	3.55	1.31	4.86
IN 17.61	18.20	37.46	51.55	62.00	30.05	15.51	8.26		
IN 3	30JAN64	19.08	12.67	6.48	6.24	23.08	19.55	11.61	72.35
IN 46.53	40.67	79.72	47.78	18.85	9.35	6.67	11.35	20.70	56.70
IN 48.84	36.05	56.61	35.65	59.34	49.06	63.47	10.43	4.46	6.22
IN 26.96	17.19	24.27	49.84	34.35	23.36	53.97	74.13	9.88	3.74
IN 2.25	6.56	25.40	43.77	49.37	110.47	45.69	28.31	34.82	22.20
IN 11.03	5.61	4.14	5.03	13.98	20.23	31.55	115.73	48.89	26.34
IN 28.02	12.93	11.95	3.02	1.93	3.72	10.30	18.65	23.56	21.92
IN 81.44	24.90	42.86	13.27	8.61	3.52	6.67	3.87	8.32	22.88
IN 27.52	40.65	46.30	40.21	43.19	26.87	9.54	6.47	3.36	4.27
IN 9.24	37.82	22.37	16.91	33.98	78.30	38.14	16.25	9.34	4.96
IN 2.99	6.56	7.09	24.69	31.74	31.37	33.18	29.87	33.18	30.25
IN 9.71	6.20	4.11	2.31	5.97	15.82	41.45	43.31	61.73	25.02
IN 36.27	23.52	48.17	12.40	7.09	4.24	14.56	32.02	19.04	66.84
IN 25.08	35.85	77.93	37.34	11.20	6.20	4.11	6.56	10.08	55.17
IN 16.06	51.09	48.23	57.88	68.67	25.39	6.35	2.89	1.87	4.63
IN 21.28	20.45	23.90	26.14	66.74	17.18	47.07	11.58	7.47	4.13
IN 2.99	1.54	7.09	8.10	7.09	48.92	55.17	30.99	125.00	12.70
IN 4.48	2.89	2.24	6.17	9.71	23.53	28.01	63.48	65.97	32.86
IN 13.89	7.84	6.72	4.13	2.99	3.47	21.66	23.53	85.51	79.16
IN 42.05	81.77	63.66	15.31	5.97	2.89	1.87	1.93	10.83	23.53
IN 38.46	58.25	57.10	43.69	36.27	21.28	7.47	4.13	3.73	6.17
IN 13.07	41.28	15.31	17.55	28.94	17.55	42.44	25.39	3.79	2.37
IN 1.88	4.21	10.60	12.78	34.84	43.02	46.01	18.44	27.89	11.57
IN 8.50	4.46	2.34	2.36	10.20	21.35	18.90	43.44	42.74	46.24
IN 55.86	16.50	6.31	4.31	2.44	3.90	11.30	26.49	21.36	68.89
IN 44.31	37.62	27.24	17.01	8.85	4.75	2.90	3.75	8.60	31.07
IN 12.70	36.20	39.68	40.93	38.43	15.06	1.14	3.45	5.38	4.77
IN 24.30	18.32	22.04	77.72	41.27	28.40	36.91	12.00	4.30	3.50
IN 3.90	5.40	12.10	18.70	10.40	23.70	33.10	18.90	36.40	20.80
IN 24.40	17.80	12.30	13.80	20.00	20.80	20.30	16.80	42.20	47.30
IN 55.10	18.90	20.30	9.60	13.50	12.40	28.30	25.70	22.50	67.10
IN 40.50	36.60	40.20	33.90	20.60	3.90	8.60	7.90	16.80	26.40
IN 16.20	32.10	45.00	42.98	47.16	28.68	28.64	6.68	9.67	8.34
IN 13.61	14.69	19.93	42.23	46.47	28.79	29.89	17.04		
IN 4	30JAN64	0.00	1.18	14.13	13.06	17.35	1.87	0.00	13.72
IN 0.00	10.64	33.50	7.93	0.00	1.30	14.74	36.91	14.16	0.00
IN 34.11	0.00	1.95	9.33	24.10	7.94	0.00	1.26	7.40	12.92
IN 22.55	2.70	4.27	0.00	0.00	6.10	21.62	8.17	1.74	1.48
IN 0.06	14.55	20.46	0.00	33.95	39.68	0.00	7.39	12.79	7.69
IN 1.20	1.42	6.33	7.35	5.16	1.63	12.88	43.26	0.00	6.88
IN 9.64	7.61	0.76	1.51	0.00	1.26	0.23	2.18	3.44	0.00
IN 11.74	6.50	16.49	7.61	2.34	1.49	14.74	1.93	0.00	0.70
IN 8.12	0.00	0.00	10.53	16.64	7.74	1.90	1.40	3.73	3.84
IN 0.00	0.00	2.01	0.00	0.00	20.53	14.32	7.64	2.42	1.50
IN 3.83	12.01	0.00	0.00	0.00	1.74	4.19	2.59	27.71	6.29
IN 2.24	1.06	1.43	0.95	0.00	4.81	5.75	0.00	0.00	26.29
IN 71.52	12.90	28.81	0.58	0.83	0.40	1.58	3.77	1.30	7.52
IN 2.41	5.97	33.71	14.94	1.91	1.20	1.50	1.02	1.58	6.61
IN 0.00	2.50	0.00	5.94	36.03	7.53	3.38	1.75	1.01	0.00
IN 21.28	1.88	0.40	0.00	0.00	3.65	23.78	13.55	5.93	3.67
IN 3.19	0.96	0.00	0.23	0.77	0.39	1.98	6.50	0.00	10.31

IN	0.33	0.00	0.00	4.86	2.03	0.60	2.24	5.44	6.28	7.55
IN	3.86	2.37	7.76	4.63	6.30	3.24	8.15	10.12	11.69	8.53
IN	0.00	3.98	19.17	12.50	1.66	1.23	4.02	0.73	1.13	2.29
IN	2.42	0.00	3.63	4.88	11.89	7.88	2.38	0.92	0.00	0.00
IN	0.00	0.00	0.00	0.00	0.00	2.31	27.97	5.77	5.02	1.66
IN	0.00	3.88	0.69	4.61	18.23	0.00	0.00	5.23	10.43	8.26
IN	2.60	1.59	0.40	0.00	0.10	1.35	0.00	0.00	0.00	13.16
IN	22.87	7.77	3.49	1.49	0.68	2.10	1.59	0.00	0.85	11.57
IN	0.00	10.01	9.44	7.77	2.26	1.47	2.24	1.42	0.00	0.00
IN	0.00	0.00	0.00	10.90	14.96	7.75	5.97	1.51	10.64	6.24
IN	19.31	2.34	1.67	17.66	0.00	7.55	13.99	7.73	4.45	1.54
IN	5.51	9.47	2.64	2.19	0.00	0.00	0.00	5.03	13.81	7.77
IN	0.00	1.05	33.96	49.39	13.46	1.44	0.00	0.00	0.00	12.61
IN	22.55	7.81	0.00	1.30	37.93	42.75	24.81	0.00	2.15	10.29
IN	0.00	9.73	15.50	7.93	0.00	1.51	21.37	21.40	9.17	0.00
IN	0.00	0.00	0.00	11.44	18.79	7.89	0.00	1.41	25.13	23.23
IN	4.74	3.63	0.00	0.00	0.00	7.65	10.69	7.77		
IN	5 30JAN64	64.93	13.22	0.00	0.00	2.90	3.36	0.00	0.00	
IN	20.9	51.26	145.72	63.08	63.67	10.54	0.00	0.00	3.45	33.49
IN	43.0	32.26	44.59	42.09	84.50	64.48	307.62	11.42	0.00	0.00
IN	2.0	1.44	12.54	22.54	0.00	19.67	68.36	91.93	14.64	5.98
IN	3.5	0.00	2.37	23.01	44.60	0.00	18.85	28.70	9.92	35.06
IN	20.9	7.50	0.00	0.00	4.98	3.91	21.84	0.00	26.40	25.10
IN	0.0	24.92	25.95	5.39	4.43	1.41	5.82	2.63	11.63	38.37
IN	103.1	22.47	34.98	25.29	22.98	10.90	0.00	9.35	12.36	22.73
IN	33.0	43.75	25.87	53.23	51.32	47.89	9.91	3.40	0.00	0.00
IN	0.7	19.01	49.75	30.09	0.00	128.03	40.33	27.48	11.45	5.53
IN	0.2	0.00	3.92	0.00	0.00	10.97	7.74	33.01	11.88	28.11
IN	16.2	9.01	6.52	0.00	8.08	0.00	23.35	43.75	46.24	88.53
IN	193.3	54.71	180.98	15.97	6.67	1.43	6.95	9.77	0.00	20.56
IN	25.9	57.50	83.40	43.09	22.32	7.54	4.84	6.40	10.08	6.23
IN	0.0	34.90	2.82	83.34	87.48	34.38	0.00	6.83	3.68	3.43
IN	13.0	4.50	6.88	37.49	53.35	14.01	68.78	34.98	0.00	6.14
IN	1.6	3.65	11.01	13.56	0.00	24.09	41.10	36.24	134.84	33.93
IN	0.0	9.32	5.98	0.00	6.84	19.97	24.32	13.64	55.25	57.63
IN	9.3	32.34	0.00	4.91	0.00	0.00	11.05	0.00	39.92	42.01
IN	20.5	108.17	0.00	17.39	30.25	26.23	18.16	16.21	17.80	25.23
IN	71.4	21.82	144.49	94.98	106.60	66.65	7.81	4.28	4.50	23.38
IN	40.8	50.06	30.13	8.03	15.43	5.40	81.27	0.00	1.32	0.00
IN	0.0	3.22	0.00	0.00	99.61	71.76	112.48	26.24	30.56	22.98
IN	6.2	4.53	2.22	2.96	1.77	1.56	3.09	23.29	21.46	62.23
IN	56.8	22.05	6.84	43.72	58.54	0.00	0.00	1.48	34.66	50.99
IN	51.3	31.75	0.38	41.15	0.00	0.00	0.00	9.27	8.53	31.53
IN	0.0	0.00	0.00	2.35	5.34	0.00	7.26	0.00	0.00	0.00
IN	0.0	0.00	0.00	0.00	29.29	24.72	64.03	63.76	9.59	36.23
IN	36.5	0.00	17.75	26.07	65.57	81.58	55.06	25.36	42.16	31.14
IN	77.7	21.80	0.00	0.00	3.02	19.40	21.66	27.37	44.85	48.18
IN	17.6	30.65	59.27	9.76	0.00	0.00	1.47	26.37	17.16	62.83
IN	39.9	103.96	107.19	28.43	60.39	4.97	0.00	0.00	3.50	28.61
IN	14.3	54.63	32.09	14.69	1.73	48.41	96.57	6.89	0.00	0.00
IN	4.1	0.00	5.73	22.99	17.04	24.37	0.00	24.26		
IN	6 30JAN64	213.80	44.98	22.73	23.28	61.41	73.12	22.57	187.78	
IN	207.8	237.92	347.75	569.03	210.64	39.28	22.77	26.09	59.98	168.07

IN 372.5	123.43	272.44	236.67	307.00	581.66	823.30	41.14	22.34	23.26
IN 63.7	67.10	141.58	147.88	129.61	233.60	296.26	830.05	87.48	29.61
IN 21.9	23.45	62.80	135.04	377.52	255.36	202.37	234.83	257.96	315.59
IN 103.3	32.83	22.27	22.60	55.95	74.87	210.01	264.68	222.93	234.34
IN 244.4	223.81	115.90	28.37	21.84	21.88	53.74	70.82	134.90	98.39
IN 431.8	233.98	274.04	227.18	70.60	24.40	30.60	20.40	28.00	59.80
IN 93.3	171.40	160.90	212.80	679.00	161.70	63.50	23.10	14.60	14.30
IN 18.7	26.60	39.20	33.60	49.80	194.90	117.30	165.80	50.40	22.70
IN 14.9	23.90	23.90	27.40	35.80	44.10	131.60	221.80	231.90	214.70
IN 79.5	33.50	23.20	13.10	41.10	82.90	201.60	174.40	201.00	201.60
IN 405.5	280.80	809.10	94.30	48.50	19.70	56.40	59.40	68.00	110.50
IN 145.4	252.80	368.80	230.40	44.40	24.00	16.00	33.60	64.20	199.80
IN 119.1	146.00	137.00	207.20	301.30	140.80	61.20	27.30	17.90	20.40
IN 73.2	81.80	61.20	101.90	198.30	173.60	233.00	180.30	43.70	26.00
IN 19.0	18.90	23.50	27.80	37.00	63.10	115.70	194.50	252.30	107.50
IN 38.8	23.20	17.20	30.10	70.90	104.60	158.30	152.70	195.20	193.00
IN 164.7	98.20	41.40	25.60	25.00	23.50	33.60	71.00	308.40	248.70
IN 227.2	234.50	205.60	95.60	61.60	47.10	36.20	30.10	63.80	176.70
IN 460.7	408.10	591.40	316.20	286.30	166.00	45.50	21.10	17.20	23.50
IN 91.8	145.10	50.80	31.70	71.00	95.60	237.30	291.20	39.20	17.80
IN 9.0	30.90	80.60	130.80	270.30	205.00	187.10	239.30	258.50	102.30
IN 49.3	51.70	22.80	9.30	27.30	84.90	102.70	169.10	203.30	290.80
IN 244.6	89.00	160.50	50.80	41.80	27.80	85.10	109.20	159.40	84.40
IN 120.4	264.00	115.70	297.20	53.80	23.10	14.20	29.70	103.40	134.30
IN 56.8	67.60	134.30	276.30	240.40	131.00	60.10	31.80	21.30	15.00
IN 71.7	69.40	136.60	221.80	413.20	445.00	326.80	172.10	78.80	39.70
IN 20.9	15.80	32.50	64.80	22.40	140.80	147.80	173.20	226.10	316.60
IN 71.7	34.30	23.90	24.30	65.70	28.20	134.00	129.20	271.60	281.90
IN 548.6	249.40	21.20	13.70	12.10	27.90	51.90	54.00	80.30	115.40
IN 158.2	280.80	212.60	43.30	119.20	63.20	61.50	47.20	86.50	123.10
IN 89.6	187.20	202.50	436.90	709.70	376.30	345.02	34.68	23.35	24.43
IN 55.7	60.71	100.74	134.39	207.37	234.95	248.11	264.48		

EJ

BF 0	17	0	175010400	0	24				
IN 1	4JAN75	39	45	105	89	68	102	133	94
IN 67	56	50	47	43	40	38	36	34	
IN 2	4JAN75	6	19	13	10	8	11	13	12
IN 10	8	8	5	11	10	10	8	7	
IN 3	4JAN75	31	44	145	102	102	108	98	89
IN 77	59	52	51	44	39	36	33	30	
IN 4	4JAN75	31	42	124	98	72	67	99	101
IN 64	36	27	28	21	16	14	11	9	
IN 5	4JAN75	31	193	292	412	248	242	316	409
IN 400	385	363	329	300	274	242	213	187	
IN 6	4JAN75	356	466	1080	2454	2784	2850	2707	2597
IN 1630	992	825	667	541	463	409	372	340	

EJ

ER

START COMPUTATIONS FOR JOB NUMBER 1 FOR 2 FLOODS READ

NRES= 4 NCPT= 7

FIXED DIM. - DIVS.= 7 PWR. = 5

DYNAMIC DIM. - RES = 4 CPTS.= 7 PERS.= 128

MX= 1 IF MUSK ROUT K LESS THAN 400.00
 MX= 2 IF MUSK ROUT K LESS THAN 400.00
 MX= 3 IF MUSK ROUT K LESS THAN 400.00
 MX= 4 IF MUSK ROUT K LESS THAN 400.00
 MX= 5 IF MUSK ROUT K LESS THAN 400.00
 MX= 6 IF MUSK ROUT K LESS THAN 400.00

*** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***

FLOFMT NPER NPSTO CNSTI FLDAT EPER IPER.MINPER ONESUM
 BF 0. 336. 336. 1.000 64010100 0. 720 . 0 0.

1
 *INTAB

J1 METRIC ISTMO NULEV LEVCON LEVTFC LEVBUF LEVPUM NOADLV LEVPRC
 1 1 4 3 4 2 3 0 2
 J2 IFCAST CFLOD RATCHG IPRIO IOPMD ISCHED NCPTR
 -1 1.20 0.04 0 0 0 0
 J3 IPRINT PRCOL IPLOTJ FLONAT CRITPR ILOCAL NOROUT INFLOW NOOPTS
 2 130. 0 -1. 0. 0 24 0 0
 J4 IANDAM ECFCT IPRECN BCRFAC COSFAC PCVAL PEPVAL PESVAL PEBVAL
 0 1.0 0 1.00 1.00 0.0 0.0 0.0 0.0

USER ID GMAX GMDRAT GMIND GMINR LOCP RTLO QLAG
 0 1 1500. 1. 0. 0. 0 1.000 0. RAJJAPRABHA RES (X.39)
 0 2 400. 1. 0. 0. 0 1.000 0. DUM RES.CP-2 (X.58)
 0 3 650. 1. 0. 0. 0 1.000 0. DUM RES.CP-3 (X.66)
 0 4 800. 1. 0. 0. 0 1.000 0. CP-4 (X.92)
 0 5 2000. 1. 0. 0. 0 1.000 0. CP-5 (X.6B)
 0 6 3000. 1. 0. 0. 0 1.000 0. DUM.RES.CP-6 (X.37A)
 0 7 5000. 1. 0. 0. 0 1.000 0. DUM LAST DOSTR CP-7

USER ID COMP ID RTFR RTTO RTMD X K LAG
 0 1 1 1. 5. 1.20 0.10 24.000 0
 0 2 2 2. 5. 1.20 0.10 24.000 0
 0 3 3 3. 4. 1.20 0.10 24.000 0
 0 4 5 4. 5. 1.20 0.10 24.000 0
 0 5 6 5. 7. 1.20 0.10 24.000 0
 0 6 4 6. 7. 1.20 0.10 24.000 0
 0 7 7 7. 0. 0.00 0.00 0.000 0

USER ID	COMP ID	STOR1	CUM DAYS	START DATE	STORL-1	-2	-3	-4	-5
1	1	0.	1.	01 JAN	0.	0.	0.	0.	
2	2	0.	1.	01 JAN	0.	0.	0.	0.	
3	3	0.	1.	01 JAN	0.	0.	0.	0.	
6	4	0.	1.	01 JAN	0.	0.	0.	0.	

USER ID LOCATIONS RESERVOIR IS SERVING

1	1.	5.	7.	
2	2.	5.	7.	
3	3.	4.	5.	7.
6	6.	7.		

1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. BEFORE DAM

UPSTREAM RESERVOIRS OPERATING FOR EACH LOCATION

1R	RAJJAPRAB				
.-----2R	DUM RES.C				
.-----3R	DUM RES.C				
.-----4	CP-4 (X.9	3			
5	CP-5 (X.	1	2	3	
.-----6R	DUM.RES.C				
7	DUM LAST	1	2	3	6

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. BEFORE DAM

		CHANNEL FLOOD CNTL	CONSERV.	MIN DES.	MIN REQ.	DIVERT	MAP LOCATION
		CAPACITY STORAGE	STORAGE	FLOW	FLOW	TO	NUMBER NAME
1R	RAJJAPRAB	1500.	0.	0.	0.	0	1 RAJJAPRABHA RES (X
.-----2R	DUM RES.C	400.	0.	0.	0.	0	2 DUM RES.CP-2 (X.58)
! .-----3R	DUM RES.C	650.	0.	0.	0.	0	3 DUM RES.CP-3 (X.66)
.-----4	CP-4 (X.9	800.	0.	0.	0.	0	4 CP-4 (X.92)
5	CP-5 (X.	2000.	0.	0.	0.	0	5 CP-5 (X.6B)
.-----6R	DUM.RES.C	3000.	0.	0.	0.	0	6 DUM.RES.CP-6 (X.37A)
7	DUM LAST	5000.	0.	0.	0.	0	7 DUM LAST DOSTR CP-7

1

RESERVOIR DATA

USER ID= 1 COMP ID= 1

RS STORAGES= 0. 100.

RQ Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 2 COMP ID= 2

RS STORAGES= 0. 100.

RQ Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 3 COMP ID= 3

RS STORAGES= 0. 100.

RQ Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 6 COMP ID= 4

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

RS STORAGES= 0. 100.
 RQ Q CAPACITIES= -1. -1.
 RA AREAS= 0. 1.
 RE ELEVATIONS= 1.00 10.00

*RTCOF

ROUTING COEFFICIENTS FROM RES 1 TO MY
 MY= 5 1.0000
 MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 2 TO MY
 MY= 5 1.0000
 MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 3 TO MY
 MY= 4 1.0000
 MY= 5 1.0000
 MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 6 TO MY
 MY= 7 1.0000

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
 ***** OR WERE READ FROM DSS

ELAPSED TIME: 0:00:09

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 118 PERIODS: 0:06:28

MX= 1 IF MUSK ROUT K LESS THAN 413.33
 MX= 2 IF MUSK ROUT K LESS THAN 413.33
 MX= 3 IF MUSK ROUT K LESS THAN 413.33
 MX= 4 IF MUSK ROUT K LESS THAN 413.33
 MX= 5 IF MUSK ROUT K LESS THAN 413.33
 MX= 6 IF MUSK ROUT K LESS THAN 413.33

*** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:06:34

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 120 PERIODS: 0:13:00

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:13:06

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 98 PERIODS: 0:18:22

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

FLOFMT	NPER	NPSTO	CNSTI	FLDAT	EPER	IPER.MINPER	ONESUM
BF	0.	17.	0.	1.000 75010400	0.	24 . 0	0.

Incremental LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:18:27

INTERPOLATION OF RESERVOIR LEVELS (RL CARDS) WAS USED,

TOTAL ELAPSED CLOCK TIME FOR: 17 PERIODS: 0:19:22

1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. BEFORE DAM
RAJJAPRABHA PROJECT AT TAPI RIVER BASIN MONTH FLOW & DAILY FLOOD
(POWER,FLOOD,IRRIGATION) 18 / 3 / 2535 (1964 - 1991) (1974)

COMPUTATION INTERVAL IN HOURS=744.00

*FLOOD 1

***** FLOOD NUMBER 1 *****

UNITS OF OUTPUT

NFLRD= 2 NFLCON= 0 ALL FLOWS AND EVAPORATION IN CFS OR CMS
IFLRD = 1 IFLCON= 1 RESERVOIR STORAGES IN ACRE FEET OR 1000 CU METERS
ELEVATIONS IN FEET OR METERS
FLOWS MULTIPLIED BY 1.000 ENERGY IN 1000 KWH EXCEPT WHEN IPER LT 24 HOURS-IN KWH

1

*USERS. 1 USER DESIGNED OUTPUT

LOC NO= CODE=	SUMMARY BY PERIOD FLOOD= 1										DUM RES. NATURAL	DUM LAST FLOW REG
	1.	2.	3.	4.	4.	5.	5.	5.	6.	7.		
PER DY MO YR DW	RAJJAPRA NATURAL	DUM RES. NATURAL	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-5 (X LOCAL IN	CP-5 (X FLOW REG	CP-5 (X DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG		
1 1 1 64 1	23.80	5.12	19.08	19.08	0.00	64.93	112.93	0.00	213.80	326.73		
2 1 2 64 1	20.80	3.72	12.67	13.85	2.35	13.22	51.59	0.00	44.98	96.57		
3 1 3 64 1	14.90	2.07	6.48	20.61	0.00	0.00	37.58	0.00	22.73	60.31		
4 1 4 64 1	16.60	4.43	6.24	19.30	0.00	0.00	40.33	0.00	23.28	63.61		
5 1 5 64 1	88.10	38.92	23.08	40.43	0.00	2.90	170.35	0.00	61.41	231.76		
6 1 6 64 1	73.70	25.22	19.55	21.42	0.00	3.36	123.70	0.00	73.12	196.82		
7 1 7 64 1	38.80	20.83	11.61	11.61	0.00	0.00	71.24	0.00	22.57	93.81		
8 1 8 64 1	399.40	98.10	72.35	86.07	0.00	0.00	583.57	0.00	187.78	771.35		

9	1	9	64	1	196.00	62.06	46.53	46.53	0.00	20.90	325.49	0.00	207.80	533.29
10	1	10	64	1	158.70	40.93	40.67	51.31	0.00	51.26	302.20	0.00	237.92	560.12
11	1	11	64	1	164.70	27.66	79.72	113.22	0.00	145.72	451.30	0.00	347.75	799.05
12	1	12	64	1	64.20	8.98	47.78	55.71	0.00	63.08	191.97	0.00	569.03	761.00
13	1	1	65	1	23.60	5.10	18.85	18.85	0.00	63.67	111.22	0.00	210.64	321.86
14	1	2	65	1	16.20	3.62	9.35	10.65	5.55	10.54	41.01	0.00	39.28	80.29
15	1	3	65	1	15.30	2.03	6.67	21.41	0.00	0.00	38.74	0.00	22.77	61.51
16	1	4	65	1	34.20	5.48	11.35	48.26	0.00	0.00	87.94	0.00	26.09	114.03
17	1	5	65	1	76.20	33.56	20.70	34.86	0.00	3.45	148.07	0.00	59.98	208.05
18	1	6	65	1	280.10	78.89	56.70	56.70	0.00	33.49	449.18	0.00	168.07	617.25
19	1	7	65	1	411.10	95.29	48.84	82.95	0.00	43.00	632.34	0.00	372.50	1004.84
20	1	8	65	1	174.40	42.00	36.05	36.05	0.00	32.26	284.71	0.00	123.43	408.14
21	1	9	65	1	280.00	71.30	56.61	58.56	0.00	44.59	454.45	0.00	272.44	726.89
22	1	10	65	1	137.80	36.34	35.65	44.98	0.00	42.09	261.21	0.00	236.67	497.88
23	1	11	65	1	115.00	22.69	59.34	83.44	0.00	84.50	305.63	0.00	307.00	612.63
24	1	12	65	1	65.70	9.01	49.06	57.00	0.00	64.48	196.19	0.00	581.66	777.85
25	1	1	66	1	62.40	9.36	63.47	63.47	0.00	307.62	442.85	0.00	823.30	1266.15
26	1	2	66	1	17.70	3.65	10.43	11.69	4.51	11.42	44.46	0.00	41.14	85.60
27	1	3	66	1	10.50	2.56	4.46	11.86	2.64	0.00	24.92	0.00	22.34	47.26
28	1	4	66	1	16.50	4.42	6.22	19.14	0.00	0.00	40.06	0.00	23.26	63.32
29	1	5	66	1	107.50	47.65	26.96	49.51	0.00	2.00	206.66	0.00	63.70	270.36
30	1	6	66	1	60.60	21.82	17.19	19.89	0.00	1.44	103.75	0.00	67.10	170.85
31	1	7	66	1	165.40	46.15	24.27	28.54	0.00	12.54	252.63	0.00	141.58	394.21
32	1	8	66	1	237.10	63.31	49.84	49.84	0.00	22.54	372.79	0.00	147.88	520.67
33	1	9	66	1	94.50	50.90	34.35	34.35	0.00	0.00	179.75	0.00	129.61	309.36
34	1	10	66	1	86.60	25.07	23.36	29.46	0.00	19.67	160.80	0.00	233.60	394.40
35	1	11	66	1	101.90	21.38	53.97	75.59	0.00	68.36	267.23	0.00	296.26	563.49
36	1	12	66	1	95.20	9.60	74.13	82.30	0.00	91.93	279.03	0.00	830.05	1109.08
37	1	1	67	1	15.80	4.24	9.88	11.62	0.00	14.64	46.30	0.00	87.48	133.78
38	1	2	67	1	8.40	3.47	3.74	5.22	10.98	5.98	23.07	0.00	29.61	52.68
39	1	3	67	1	5.70	3.08	2.25	2.31	12.19	3.50	14.59	0.00	21.90	36.49
40	1	4	67	1	17.70	4.49	6.56	21.11	0.00	0.00	43.30	0.00	23.45	66.75
41	1	5	67	1	99.70	44.14	25.40	45.86	0.00	2.37	192.07	0.00	62.80	254.87
42	1	6	67	1	208.30	60.22	43.77	43.77	0.00	23.01	335.30	0.00	135.04	470.34
43	1	7	67	1	416.40	96.35	49.37	83.32	0.00	44.60	640.67	0.00	377.52	1018.19
44	1	8	67	1	512.70	157.02	110.47	150.15	0.00	0.00	819.87	0.00	255.36	1075.23
45	1	9	67	1	189.00	61.29	45.69	45.69	0.00	18.85	314.83	0.00	202.37	517.20
46	1	10	67	1	107.20	29.60	28.31	35.70	0.00	28.70	201.20	0.00	234.83	436.03
47	1	11	67	1	56.20	16.71	34.82	47.61	0.00	9.92	130.44	0.00	257.96	388.40
48	1	12	67	1	34.10	8.38	22.20	29.89	0.00	35.06	107.43	0.00	315.59	423.02
49	1	1	68	1	16.80	4.35	11.03	12.23	0.00	20.90	54.28	0.00	103.30	157.58
50	1	2	68	1	11.00	3.52	5.61	7.03	9.17	7.50	29.05	0.00	32.83	61.88
51	1	3	68	1	9.80	2.63	4.14	10.47	4.03	0.00	22.90	0.00	22.27	45.17
52	1	4	68	1	12.40	4.17	5.03	12.38	0.00	0.00	28.95	0.00	22.60	51.55

1

LOC NO=	1.	2.	3.	4.	4.	5.	5.	5.	6.	7.				
PER DY MO YR DW	RAJJAPRA NATURAL	DUM RES. NATURAL	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-5 (X LOCAL IN	CP-5 (X FLOW REG	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG				
53	1	5	68	1	42.60	18.44	13.98	19.14	0.00	4.98	85.16	0.00	55.95	141.11
54	1	6	68	1	77.50	26.21	20.23	21.86	0.00	3.91	129.48	0.00	74.87	204.35
55	1	7	68	1	238.20	60.71	31.55	44.43	0.00	21.84	365.18	0.00	210.01	575.19

56	1	8	68	1	536.60	165.14	115.73	158.99	0.00	0.00	860.73	0.00	264.68	1125.41
57	1	9	68	1	215.70	64.23	48.89	48.89	0.00	26.40	355.22	0.00	222.93	578.15
58	1	10	68	1	99.00	27.80	26.34	33.22	0.00	25.10	185.12	0.00	234.34	419.46
59	1	11	68	1	38.60	15.05	28.02	37.66	0.00	0.00	91.31	0.00	244.40	335.71
60	1	12	68	1	23.20	8.16	12.93	20.54	0.00	24.92	76.82	0.00	223.81	300.63
61	1	1	69	1	17.60	4.44	11.95	12.71	0.00	25.95	60.70	0.00	115.90	176.60
62	1	2	69	1	7.40	3.45	3.02	4.53	11.67	5.39	20.77	0.00	28.37	49.14
63	1	3	69	1	5.00	3.16	1.93	1.93	12.57	4.43	14.52	0.00	21.84	36.36
64	1	4	69	1	7.90	3.90	3.72	4.98	0.00	1.41	18.19	0.00	21.88	40.07
65	1	5	69	1	24.20	10.76	10.30	10.53	0.00	5.82	50.71	0.00	53.74	104.45
66	1	6	69	1	68.70	23.92	18.65	20.83	0.00	2.63	116.08	0.00	70.82	186.90
67	1	7	69	1	158.30	44.73	23.56	27.00	0.00	11.63	241.66	0.00	134.90	376.56
68	1	8	69	1	110.20	20.17	21.92	21.92	0.00	38.37	190.66	0.00	98.39	289.05
69	1	9	69	1	486.90	94.06	81.44	93.18	0.00	103.10	777.24	0.00	431.80	1209.04
70	1	10	69	1	93.00	26.48	24.90	31.40	0.00	22.47	173.35	0.00	233.98	407.33
71	1	11	69	1	74.80	18.67	42.86	59.35	0.00	34.98	187.80	0.00	274.04	461.84
72	1	12	69	1	23.60	8.17	13.27	20.88	0.00	25.29	77.94	0.00	227.18	305.12
73	1	1	70	1	14.70	4.12	8.61	10.95	0.00	22.98	52.75	0.00	70.60	123.35
74	1	2	70	1	8.10	3.46	3.52	5.01	11.19	10.90	27.47	0.00	24.40	51.87
75	1	3	70	1	15.30	2.03	6.67	21.41	0.00	0.00	38.74	0.00	30.60	69.34
76	1	4	70	1	8.40	3.93	3.87	5.80	0.00	9.35	27.48	0.00	20.40	47.88
77	1	5	70	1	14.30	5.71	8.32	8.32	0.00	12.36	40.69	0.00	28.00	68.69
78	1	6	70	1	92.20	30.03	22.88	23.58	0.00	22.73	168.54	0.00	59.80	228.34
79	1	7	70	1	197.90	52.65	27.52	35.64	0.00	33.00	319.19	0.00	93.30	412.49
80	1	8	70	1	195.30	49.10	40.65	40.65	0.00	43.75	328.80	0.00	171.40	500.20
81	1	9	70	1	194.10	61.85	46.30	46.30	0.00	25.87	328.12	0.00	160.90	489.02
82	1	10	70	1	156.80	40.52	40.21	50.74	0.00	53.23	301.29	0.00	212.80	514.09
83	1	11	70	1	75.60	18.75	43.19	59.83	0.00	51.32	205.50	0.00	679.00	884.50
84	1	12	70	1	39.60	8.49	26.87	34.61	0.00	47.89	130.59	0.00	161.70	292.29
85	1	1	71	1	15.50	4.21	9.54	11.44	0.00	9.91	41.06	0.00	63.50	104.56
86	1	2	71	1	12.20	3.54	6.47	7.87	8.33	3.40	27.01	0.00	23.10	50.11
87	1	3	71	1	8.10	2.82	3.36	7.09	7.41	0.00	18.01	0.00	14.60	32.61
88	1	4	71	1	9.80	4.02	4.27	8.11	0.00	0.00	21.93	0.00	14.30	36.23
89	1	5	71	1	18.90	7.78	9.24	9.24	0.00	0.70	36.62	0.00	18.70	55.32
90	1	6	71	1	175.20	51.61	37.82	37.82	0.00	19.01	283.64	0.00	26.60	310.24
91	1	7	71	1	146.40	42.35	22.37	24.38	0.00	49.75	262.88	0.00	39.20	302.08
92	1	8	71	1	87.40	12.42	16.91	16.91	0.00	30.09	146.82	0.00	33.60	180.42
93	1	9	71	1	91.40	50.55	33.98	33.98	0.00	0.00	175.93	0.00	49.80	225.73
94	1	10	71	1	315.50	75.43	78.30	98.83	0.00	128.03	617.79	0.00	194.90	812.69
95	1	11	71	1	63.30	17.52	38.14	52.46	0.00	40.33	173.61	0.00	117.30	290.91
96	1	12	71	1	27.10	8.24	16.25	23.89	0.00	27.48	86.71	0.00	165.80	252.51
97	1	1	72	1	16.50	2.55	9.34	11.76	0.00	11.45	42.26	0.00	50.40	92.66
98	1	2	72	1	10.20	1.12	4.96	6.46	9.74	5.53	23.31	0.00	22.70	46.01
99	1	3	72	1	8.00	0.87	2.99	6.82	7.68	0.20	15.89	0.00	14.90	30.79
100	1	4	72	1	16.10	4.40	6.56	18.57	0.00	0.00	39.07	0.00	23.90	62.97
101	1	5	72	1	13.30	5.26	7.09	7.09	0.00	3.92	29.57	0.00	23.90	53.47
102	1	6	72	1	47.80	18.49	24.69	24.69	0.00	0.00	90.98	0.00	27.40	118.38
103	1	7	72	1	163.60	45.79	31.74	31.74	0.00	0.00	241.13	0.00	35.80	276.93
104	1	8	72	1	202.40	51.52	31.37	33.11	0.00	10.97	298.00	0.00	44.10	342.10

1

LOC NO=

1.	2.	3.	4.	4.	5.	5.	5.	6.	7.
RAJJAPRA	DUM RES.	DUM RES.	CP-4 (X.	CP-4 (X.	CP-5 (X	CP-5 (X	CP-5 (X	DUM.RES.	DUM LAST

PER	DY	MO	YR	DW	NATURAL	NATURAL	NATURAL	FLOW REG	DEQ-SHOR	LOCAL IN	FLOW REG	DEQ-SHOR	NATURAL	FLOW REG
105	1	9	72	1	165.60	45.91	33.18	37.37	0.00	7.74	256.62	0.00	131.60	388.22
106	1	10	72	1	93.00	16.71	29.87	32.46	0.00	33.01	175.18	0.00	221.80	396.98
107	1	11	72	1	81.80	12.77	33.18	60.89	0.00	11.88	167.34	0.00	231.90	399.24
108	1	12	72	1	41.40	5.56	30.25	36.54	0.00	28.11	111.61	0.00	214.70	326.31
109	1	1	73	1	16.80	5.15	9.71	11.95	0.00	16.20	50.10	0.00	79.50	129.60
110	1	2	73	1	11.20	3.80	6.20	7.26	8.94	9.01	31.27	0.00	33.50	64.77
111	1	3	73	1	7.20	2.86	4.11	5.54	8.96	6.52	22.12	0.00	23.20	45.32
112	1	4	73	1	7.00	1.39	2.31	3.26	1.04	0.00	11.65	0.00	13.10	24.75
113	1	5	73	1	10.80	2.85	5.97	5.97	0.00	8.08	27.70	0.00	41.10	68.80
114	1	6	73	1	73.70	23.88	15.82	20.63	0.00	0.00	118.21	0.00	82.90	201.11
115	1	7	73	1	241.60	54.09	41.45	47.20	0.00	23.35	366.24	0.00	201.60	567.84
116	1	8	73	1	180.40	38.79	43.31	43.31	0.00	43.75	306.25	0.00	174.40	480.65
117	1	9	73	1	147.40	36.38	61.73	61.73	0.00	46.24	291.75	0.00	201.00	492.75
118	1	10	73	1	171.80	32.38	25.02	51.31	0.00	88.53	344.02	0.00	201.60	545.62
119	1	11	73	1	160.90	20.25	36.27	107.79	0.00	193.30	482.24	0.00	405.50	887.74
120	1	12	73	1	41.80	8.77	23.52	36.42	0.00	54.71	141.70	0.00	280.80	422.50
121	1	1	74	1	48.50	7.80	48.17	76.98	0.00	180.98	314.26	0.00	809.10	1123.36
122	1	2	74	1	19.90	3.75	12.40	12.98	3.22	15.97	52.60	0.00	94.30	146.90
123	1	3	74	1	15.20	2.88	7.09	7.92	6.58	6.67	32.67	0.00	48.50	81.17
124	1	4	74	1	15.80	4.32	4.24	4.64	0.00	1.43	26.19	0.00	19.70	45.89
125	1	5	74	1	38.80	18.17	14.56	16.14	0.00	6.95	80.06	0.00	56.40	136.46
126	1	6	74	1	150.10	37.54	32.02	35.79	0.00	9.77	233.20	0.00	59.40	292.60
127	1	7	74	1	98.60	22.53	19.04	20.34	0.00	0.00	141.47	0.00	68.00	209.47
128	1	8	74	1	346.20	101.83	66.84	74.36	0.00	20.56	542.95	0.00	110.50	653.45
129	1	9	74	1	149.30	38.27	25.08	27.49	0.00	25.90	240.96	0.00	145.40	386.36
130	1	10	74	1	200.10	56.70	35.85	41.82	0.00	57.50	356.12	0.00	252.80	608.92
131	1	11	74	1	152.40	42.82	77.93	111.64	0.00	83.40	390.26	0.00	368.80	759.06
132	1	12	74	1	49.70	8.28	37.34	52.28	0.00	43.09	153.35	0.00	230.40	383.75
133	1	1	75	1	16.70	2.52	11.20	13.11	0.00	22.32	54.65	0.00	44.40	99.05
134	1	2	75	1	9.50	1.72	6.20	7.40	8.80	7.54	26.16	0.00	24.00	50.16
135	1	3	75	1	9.80	1.72	4.11	5.61	8.89	4.84	21.97	0.00	16.00	37.97
136	1	4	75	1	14.20	2.43	6.56	7.58	0.00	6.40	30.61	0.00	33.60	64.21
137	1	5	75	1	26.20	6.64	10.08	11.66	0.00	10.08	54.58	0.00	64.20	118.78
138	1	6	75	1	248.80	72.53	55.17	61.78	0.00	6.23	389.34	0.00	199.80	589.14
139	1	7	75	1	54.90	24.05	16.06	16.06	0.00	0.00	95.01	0.00	119.10	214.11
140	1	8	75	1	242.00	48.49	51.09	53.59	0.00	34.90	378.98	0.00	146.00	524.98
141	1	9	75	1	103.00	21.91	48.23	48.23	0.00	2.82	175.96	0.00	137.00	312.96
142	1	10	75	1	205.40	47.74	57.88	63.82	0.00	83.34	400.30	0.00	207.20	607.50
143	1	11	75	1	123.50	21.68	68.67	104.70	0.00	87.48	337.36	0.00	301.30	638.66
144	1	12	75	1	32.00	4.96	25.39	32.92	0.00	34.38	104.26	0.00	140.80	245.06
145	1	1	76	1	11.90	2.81	6.35	9.73	0.00	0.00	24.44	0.00	61.20	85.64
146	1	2	76	1	7.40	2.28	2.89	4.64	11.56	6.83	21.15	0.00	27.30	48.45
147	1	3	76	1	6.00	2.62	1.87	2.88	11.62	3.68	15.18	0.00	17.90	33.08
148	1	4	76	1	7.30	2.53	4.63	4.63	0.00	3.43	17.89	0.00	20.40	38.29
149	1	5	76	1	90.00	29.39	21.28	42.56	0.00	13.00	174.95	0.00	73.20	248.15
150	1	6	76	1	81.00	27.31	20.45	22.33	0.00	4.50	135.14	0.00	81.80	216.94
151	1	7	76	1	144.10	45.51	23.90	24.30	0.00	6.88	220.79	0.00	61.20	281.99
152	1	8	76	1	143.40	33.23	26.14	26.14	0.00	37.49	240.26	0.00	101.90	342.16
153	1	9	76	1	298.20	72.53	66.74	66.74	0.00	53.35	490.82	0.00	198.30	689.12
154	1	10	76	1	56.40	10.97	17.18	20.83	0.00	14.01	102.21	0.00	173.60	275.81
155	1	11	76	1	91.80	10.38	47.07	70.85	0.00	68.78	241.81	0.00	233.00	474.81

156	1	12	76	1	28.80	5.04	11.58	25.13	0.00	34.98	93.95	0.00	180.30	274.25
LOC NO=					1.	2.	3.	4.	4.	5.	5.	5.	6.	7.
PER	DY	MO	YR	DW	RAJJAPRA NATURAL	DUM RES. NATURAL	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-5 (X LOCAL IN	CP-5 (X FLOW REG	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG
157	1	1	77	1	13.20	2.86	7.47	13.40	0.00	0.00	29.46	0.00	43.70	73.16
158	1	2	77	1	9.30	2.09	4.13	7.80	8.40	6.14	25.33	0.00	26.00	51.33
159	1	3	77	1	7.50	2.30	2.99	6.18	8.32	1.60	17.58	0.00	19.00	36.58
160	1	4	77	1	6.10	2.60	1.54	2.50	1.80	3.65	14.85	0.00	18.90	33.75
161	1	5	77	1	21.00	6.19	7.09	7.09	0.00	11.01	45.29	0.00	23.50	68.79
162	1	6	77	1	33.10	7.29	8.10	8.33	0.00	13.56	62.28	0.00	27.80	90.08
163	1	7	77	1	42.20	9.96	7.09	7.86	0.00	0.00	60.02	0.00	37.00	97.02
164	1	8	77	1	235.30	60.43	48.92	49.31	0.00	24.09	369.13	0.00	63.10	432.23
165	1	9	77	1	263.90	69.53	55.17	57.15	0.00	41.10	431.68	0.00	115.70	567.38
166	1	10	77	1	104.20	19.55	30.99	37.49	0.00	36.24	197.48	0.00	194.50	391.98
167	1	11	77	1	149.30	14.04	125.00	125.00	0.00	134.84	423.18	0.00	252.30	675.48
168	1	12	77	1	26.70	4.81	12.70	23.01	0.00	33.93	98.45	0.00	107.50	195.95
169	1	1	78	1	10.60	2.78	4.48	4.81	4.39	0.00	18.19	0.00	38.80	56.99
170	1	2	78	1	7.20	1.78	2.89	2.89	13.31	9.32	21.19	0.00	23.20	44.39
171	1	3	78	1	5.40	0.94	2.24	2.24	12.26	5.98	14.56	0.00	17.20	31.76
172	1	4	78	1	9.70	1.92	6.17	11.03	0.00	0.00	22.65	0.00	30.10	52.75
173	1	5	78	1	24.50	8.24	9.71	11.74	0.00	6.84	51.32	0.00	70.90	122.22
174	1	6	78	1	144.70	42.82	23.53	24.13	0.00	19.97	231.62	0.00	104.60	336.22
175	1	7	78	1	202.40	55.58	28.01	30.25	0.00	24.32	312.55	0.00	158.30	470.85
176	1	8	78	1	296.90	86.54	63.48	68.92	0.00	13.64	466.00	0.00	152.70	618.70
177	1	9	78	1	328.70	77.93	65.97	72.25	0.00	55.25	534.13	0.00	195.20	729.33
178	1	10	78	1	148.20	39.17	32.86	40.41	0.00	57.63	295.41	0.00	193.00	478.41
179	1	11	78	1	36.10	11.46	13.89	17.75	0.00	9.30	74.61	0.00	164.70	239.31
180	1	12	78	1	18.50	5.00	7.84	10.21	0.00	32.34	66.05	0.00	98.20	164.25
181	1	1	79	1	12.30	3.29	6.72	14.48	0.00	0.00	30.07	0.00	41.40	71.47
182	1	2	79	1	9.50	2.51	4.13	8.76	7.44	4.91	25.68	0.00	25.60	51.28
183	1	3	79	1	8.60	2.58	2.99	9.29	5.21	0.00	20.47	0.00	25.00	45.47
184	1	4	79	1	9.90	7.10	3.47	6.71	0.00	0.00	23.71	0.00	23.50	47.21
185	1	5	79	1	63.10	21.07	21.66	29.81	0.00	11.05	125.03	0.00	33.60	158.63
186	1	6	79	1	70.20	22.84	23.53	33.65	0.00	0.00	126.69	0.00	71.00	197.69
187	1	7	79	1	388.30	80.57	85.51	97.20	0.00	39.92	605.99	0.00	308.40	914.39
188	1	8	79	1	329.40	56.70	79.16	87.69	0.00	42.01	515.80	0.00	248.70	764.50
189	1	9	79	1	167.10	50.15	42.05	42.05	0.00	20.50	279.80	0.00	227.20	507.00
190	1	10	79	1	258.40	54.46	81.77	85.75	0.00	108.17	506.78	0.00	234.50	741.28
191	1	11	79	1	50.50	7.95	63.66	82.83	0.00	0.00	141.28	0.00	205.60	346.88
192	1	12	79	1	20.40	4.81	15.31	27.81	0.00	17.39	70.41	0.00	95.60	166.01
193	1	1	80	1	15.20	7.09	5.97	7.63	1.57	30.25	60.17	0.00	61.60	121.77
194	1	2	80	1	11.00	4.58	2.89	4.12	12.08	26.23	45.93	0.00	47.10	93.03
195	1	3	80	1	8.00	2.95	1.87	5.89	8.61	18.16	35.00	0.00	36.20	71.20
196	1	4	80	1	7.50	3.17	1.93	2.66	1.64	16.21	29.54	0.00	30.10	59.64
197	1	5	80	1	25.20	7.98	10.83	11.96	0.00	17.80	62.94	0.00	63.80	126.74
198	1	6	80	1	98.40	25.96	23.53	25.82	0.00	25.23	175.41	0.00	176.70	352.11
199	1	7	80	1	281.20	63.78	38.46	40.88	0.00	71.40	457.26	0.00	460.70	917.96
200	1	8	80	1	267.70	64.53	58.25	58.25	0.00	21.82	412.30	0.00	408.10	820.40
201	1	9	80	1	308.60	71.76	57.10	60.73	0.00	144.49	585.58	0.00	591.40	1176.98
202	1	10	80	1	131.80	36.33	43.69	48.57	0.00	94.98	311.68	0.00	316.20	627.88

203	1	11	80	1	98.80	26.85	36.27	48.16	0.00	106.60	280.41	0.00	286.30	566.71						
204	1	12	80	1	33.10	12.83	21.28	29.16	0.00	66.65	141.74	0.00	146.00	287.74						
205	1	1	81	1	11.80	3.73	7.47	9.85	0.00	7.81	33.19	0.00	45.50	78.69						
206	1	2	81	1	7.80	4.13	4.13	5.05	11.15	4.28	21.26	0.00	21.10	42.36						
207	1	3	81	1	6.00	3.19	3.73	3.73	10.77	4.50	17.42	0.00	17.20	34.62						
208	1	4	81	1	7.20	4.01	6.17	6.17	0.00	23.38	40.76	0.00	23.50	64.26						
1																				
LOC NO=		1.		2.		3.		4.		4.		5.		5.		5.		6.		7.
	PER DY	MO	YR	DW	RAJJAPRA NATURAL	DUM RES. NATURAL	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-5 (X LOCAL IN	CP-5 (X FLOW REG	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG						
209	1	5	81	1	16.40	10.59	13.07	13.07	0.00	40.80	80.86	0.00	91.80	172.66						
210	1	6	81	1	173.20	50.93	41.28	41.28	0.00	50.06	315.47	0.00	145.10	460.57						
211	1	7	81	1	74.60	24.62	15.31	15.31	0.00	30.13	144.66	0.00	50.80	195.46						
212	1	8	81	1	76.50	16.26	17.55	17.55	0.00	8.03	118.34	0.00	31.70	150.04						
213	1	9	81	1	101.10	30.40	28.94	28.94	0.00	15.43	175.87	0.00	71.00	246.87						
214	1	10	81	1	52.70	18.80	17.55	19.86	0.00	5.40	96.76	0.00	95.60	192.36						
215	1	11	81	1	92.20	28.20	42.44	70.41	0.00	81.27	272.08	0.00	237.30	509.38						
216	1	12	81	1	34.30	11.45	25.39	31.16	0.00	0.00	76.91	0.00	291.20	368.11						
217	1	1	82	1	10.50	4.70	3.79	8.81	0.39	1.32	25.33	0.00	39.20	64.53						
218	1	2	82	1	6.50	5.20	2.37	4.03	12.17	0.00	15.73	0.00	17.80	33.53						
219	1	3	82	1	4.90	4.36	1.88	1.88	12.62	0.00	11.14	0.00	9.00	20.14						
220	1	4	82	1	9.60	6.17	4.21	8.09	0.00	3.22	27.08	0.00	30.90	57.98						
221	1	5	82	1	25.70	10.37	10.60	11.29	0.00	0.00	47.36	0.00	80.60	127.96						
222	1	6	82	1	36.10	16.09	12.78	17.39	0.00	0.00	69.58	0.00	130.80	200.38						
223	1	7	82	1	271.10	72.36	34.84	53.07	0.00	99.61	496.14	0.00	270.30	766.44						
224	1	8	82	1	206.10	55.20	43.02	43.02	0.00	71.76	376.08	0.00	205.00	581.08						
225	1	9	82	1	191.70	53.63	46.01	46.01	0.00	112.48	403.82	0.00	187.10	590.92						
226	1	10	82	1	66.10	24.66	18.44	23.67	0.00	26.24	140.67	0.00	239.30	379.97						
227	1	11	82	1	38.30	16.13	27.89	38.32	0.00	30.56	123.31	0.00	258.50	381.81						
228	1	12	82	1	21.60	9.85	11.57	19.83	0.00	22.98	74.26	0.00	102.30	176.56						
229	1	1	83	1	14.60	5.41	8.50	11.10	0.00	6.20	37.31	0.00	49.30	86.61						
230	1	2	83	1	9.40	5.99	4.46	6.05	10.15	4.53	25.97	0.00	51.70	77.67						
231	1	3	83	1	5.90	4.29	2.34	2.74	11.76	2.22	15.15	0.00	22.80	37.95						
232	1	4	83	1	3.20	3.18	2.36	2.36	1.94	2.96	11.70	0.00	9.30	21.00						
233	1	5	83	1	23.70	14.51	10.20	10.30	0.00	1.77	50.28	0.00	27.30	77.58						
234	1	6	83	1	83.70	31.48	21.35	22.70	0.00	1.56	139.44	0.00	84.90	224.34						
235	1	7	83	1	111.70	38.42	18.90	18.90	0.00	3.09	172.11	0.00	102.70	274.81						
236	1	8	83	1	208.00	58.93	43.44	43.44	0.00	23.29	333.66	0.00	169.10	502.76						
237	1	9	83	1	164.40	49.38	42.74	42.74	0.00	21.46	277.98	0.00	203.30	481.28						
238	1	10	83	1	181.90	48.86	46.24	59.40	0.00	62.23	352.39	0.00	290.80	643.19						
239	1	11	83	1	106.50	27.31	55.86	78.73	0.00	56.80	269.34	0.00	244.60	513.94						
240	1	12	83	1	27.40	10.52	16.50	24.27	0.00	22.05	84.24	0.00	89.00	173.24						
241	1	1	84	1	12.70	4.85	6.31	9.88	0.00	6.84	34.19	0.00	160.50	194.69						
242	1	2	84	1	9.20	5.37	4.31	5.80	10.40	43.72	64.09	0.00	50.80	114.89						
243	1	3	84	1	6.10	5.26	2.44	3.12	11.38	58.54	73.02	0.00	41.80	114.82						
244	1	4	84	1	8.50	5.75	3.90	6.00	0.00	0.00	20.25	0.00	27.80	48.05						
245	1	5	84	1	29.20	11.00	11.30	12.89	0.00	0.00	53.09	0.00	85.10	138.19						
246	1	6	84	1	112.30	43.21	26.49	26.49	0.00	1.48	183.48	0.00	109.20	292.68						
247	1	7	84	1	136.30	36.52	21.36	22.21	0.00	34.66	229.69	0.00	159.40	389.09						
248	1	8	84	1	323.70	75.35	68.89	80.46	0.00	50.99	530.50	0.00	84.40	614.90						
249	1	9	84	1	177.50	46.68	44.31	44.31	0.00	51.30	319.79	0.00	120.40	440.19						

250	1	10	84	1	146.00	42.90	37.62	47.63	0.00	31.75	268.28	0.00	264.00	532.28
251	1	11	84	1	36.70	12.89	27.24	36.68	0.00	0.38	86.65	0.00	115.70	202.35
252	1	12	84	1	28.00	8.80	17.01	24.78	0.00	41.15	102.73	0.00	297.20	399.93
253	1	1	85	1	14.90	4.40	8.85	11.11	0.00	0.00	30.41	0.00	53.80	84.21
254	1	2	85	1	9.80	4.87	4.75	6.22	9.98	0.00	20.89	0.00	23.10	43.99
255	1	3	85	1	7.10	3.58	2.90	5.14	9.36	0.00	15.82	0.00	14.20	30.02
256	1	4	85	1	8.00	7.52	3.75	5.17	0.00	9.27	29.96	0.00	29.70	59.66
257	1	5	85	1	15.70	12.46	8.60	8.60	0.00	8.53	45.29	0.00	103.40	148.69
258	1	6	85	1	137.70	42.82	31.07	31.07	0.00	31.53	243.12	0.00	134.30	377.42
259	1	7	85	1	49.70	16.19	12.70	12.70	0.00	0.00	78.59	0.00	56.80	135.39
260	1	8	85	1	175.10	45.88	36.20	36.20	0.00	0.00	257.18	0.00	67.60	324.78
1														
LOC NO=-					1.	2.	3.	4.	4.	5.	5.	5.	6.	7.
PER DY	MO	YR	DW		RAJJAPRA	DUM RES.	DUM RES.	CP-4 (X.	CP-4 (X.	CP-5 (X	CP-5 (X	CP-5 (X	DUM.RES.	DUM LAST
					NATURAL	NATURAL	NATURAL	FLOW REG	DEG-SHOR	LOCAL IN	FLOW REG	DEG-SHOR	NATURAL	FLOW REG
261	1	9	85	1	138.90	46.30	39.68	39.68	0.00	0.00	224.88	0.00	134.30	359.18
262	1	10	85	1	159.80	59.68	40.93	51.83	0.00	2.35	273.66	0.00	276.30	549.96
263	1	11	85	1	64.00	24.15	38.43	53.39	0.00	5.34	146.88	0.00	240.40	387.28
264	1	12	85	1	25.70	11.67	15.06	22.81	0.00	0.00	60.18	0.00	131.00	191.18
265	1	1	86	1	8.20	3.28	1.14	7.11	2.09	7.26	25.85	0.00	60.10	85.95
266	1	2	86	1	8.00	3.63	3.45	4.96	11.24	0.00	16.59	0.00	31.80	48.39
267	1	3	86	1	12.50	2.39	5.38	16.02	0.00	0.00	30.91	0.00	21.30	52.21
268	1	4	86	1	11.50	3.17	4.77	11.01	0.00	0.00	25.68	0.00	15.00	40.68
269	1	5	86	1	94.20	54.83	24.30	43.61	0.00	0.00	192.64	0.00	71.70	264.34
270	1	6	86	1	66.90	34.72	18.32	20.66	0.00	0.00	122.28	0.00	69.40	191.68
271	1	7	86	1	143.10	63.41	22.04	23.71	0.00	0.00	230.22	0.00	136.60	366.82
272	1	8	86	1	363.80	154.42	77.72	95.38	0.00	0.00	613.60	0.00	221.80	835.40
273	1	9	86	1	152.20	130.40	41.27	41.27	0.00	29.29	353.16	0.00	413.20	766.36
274	1	10	86	1	107.60	39.91	28.40	35.95	0.00	24.72	208.18	0.00	445.00	653.18
275	1	11	86	1	60.30	27.04	36.91	50.90	0.00	64.03	202.27	0.00	326.80	529.07
276	1	12	86	1	22.10	11.71	12.00	19.73	0.00	63.76	117.30	0.00	172.10	289.40
277	1	1	87	1	10.90	3.70	4.30	8.75	0.45	9.59	32.94	0.00	78.80	111.74
278	1	2	87	1	8.10	3.50	3.50	5.04	11.16	36.23	52.87	0.00	39.70	92.57
279	1	3	87	1	9.20	2.70	3.90	9.41	5.09	36.50	57.81	0.00	20.90	78.71
280	1	4	87	1	13.80	4.30	5.40	14.87	0.00	0.00	32.97	0.00	15.80	48.77
281	1	5	87	1	33.10	14.20	12.10	14.74	0.00	17.75	79.79	0.00	32.50	112.29
282	1	6	87	1	68.80	24.00	18.70	20.89	0.00	26.07	139.76	0.00	64.80	204.56
283	1	7	87	1	26.40	18.40	10.40	10.40	0.00	65.57	120.77	0.00	22.40	143.17
284	1	8	87	1	118.50	23.00	23.70	23.70	0.00	81.58	246.78	0.00	140.80	387.58
285	1	9	87	1	84.40	49.80	33.10	33.10	0.00	55.06	222.36	0.00	147.80	370.16
286	1	10	87	1	68.10	21.00	18.90	23.93	0.00	25.36	138.39	0.00	173.20	311.59
287	1	11	87	1	59.10	17.10	36.40	50.21	0.00	42.16	168.57	0.00	226.10	394.67
288	1	12	87	1	32.40	8.40	20.80	28.57	0.00	31.14	100.51	0.00	316.60	417.11
289	1	1	88	1	28.40	5.60	24.40	24.40	0.00	77.70	136.10	0.00	71.70	207.80
290	1	2	88	1	28.00	3.90	17.80	18.85	0.00	21.80	72.55	0.00	34.30	106.85
291	1	3	88	1	27.50	0.70	12.30	46.26	0.00	0.00	74.46	0.00	23.90	98.36
292	1	4	88	1	42.80	6.00	13.80	63.19	0.00	0.00	111.99	0.00	24.30	136.29
293	1	5	88	1	72.70	32.00	20.00	33.46	0.00	3.02	141.18	0.00	65.70	206.88
294	1	6	88	1	80.50	27.00	20.80	22.24	0.00	19.40	149.14	0.00	28.20	177.34
295	1	7	88	1	123.00	37.70	20.30	20.30	0.00	21.66	202.66	0.00	134.00	336.66
296	1	8	88	1	86.70	12.20	16.80	16.80	0.00	27.37	143.07	0.00	129.20	272.27

297	1	9	88	1	159.80	58.10	42.20	42.20	0.00	44.85	304.95	0.00	271.60	576.55
298	1	10	88	1	186.40	47.00	47.30	59.91	0.00	48.18	341.49	0.00	281.90	623.39
299	1	11	88	1	104.70	21.70	55.10	77.65	0.00	17.60	221.65	0.00	548.60	770.25
300	1	12	88	1	30.20	8.30	18.90	26.71	0.00	30.65	95.86	0.00	249.40	345.26
301	1	1	89	1	24.90	5.20	20.30	20.30	0.00	59.27	109.67	0.00	21.20	130.87
302	1	2	89	1	16.50	3.60	9.60	10.90	5.30	9.76	40.76	0.00	13.70	54.46
303	1	3	89	1	30.10	0.40	13.50	51.43	0.00	0.00	81.93	0.00	12.10	94.03
304	1	4	89	1	38.00	5.70	12.40	55.15	0.00	0.00	98.85	0.00	27.90	126.75
305	1	5	89	1	114.30	50.70	28.30	53.11	0.00	1.47	219.58	0.00	51.90	271.48
306	1	6	89	1	107.80	34.10	25.70	25.70	0.00	26.37	193.97	0.00	54.00	247.97
307	1	7	89	1	147.40	42.50	22.50	24.65	0.00	17.16	231.71	0.00	80.30	312.01
308	1	8	89	1	315.50	90.00	67.10	77.39	0.00	62.83	545.72	0.00	115.40	661.12
309	1	9	89	1	145.80	56.50	40.50	40.50	0.00	39.90	282.70	0.00	158.20	440.90
310	1	10	89	1	141.70	37.20	36.60	46.33	0.00	103.96	329.19	0.00	280.80	509.99
311	1	11	89	1	68.30	18.00	40.20	55.70	0.00	107.19	249.19	0.00	212.60	461.79
312	1	12	89	1	47.90	8.70	33.90	41.83	0.00	28.43	126.86	0.00	43.30	170.16

1

LOC NO=	1.	2.	3.	4.	4.	5.	5.	5.	6.	7.				
PER DY MO YR DW	RAJJAPRA NATURAL	DUM RES. NATURAL	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-5 (X LOCAL IN	CP-5 (X FLOW REG	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG				
313	1	1	90	1	25.10	5.30	20.60	20.60	0.00	60.39	111.39	0.00	119.20	230.59
314	1	2	90	1	8.70	3.50	3.90	5.41	10.79	4.97	22.58	0.00	63.20	85.78
315	1	3	90	1	19.40	1.60	8.60	29.97	0.00	0.00	50.97	0.00	61.50	112.47
316	1	4	90	1	22.50	4.80	7.90	29.30	0.00	0.00	56.60	0.00	47.20	103.80
317	1	5	90	1	56.90	24.90	16.80	25.97	0.00	3.50	111.27	0.00	86.50	197.77
318	1	6	90	1	112.00	35.20	26.40	26.40	0.00	28.61	202.21	0.00	123.10	325.31
319	1	7	90	1	84.80	30.00	16.20	16.20	0.00	14.30	145.30	0.00	89.60	234.90
320	1	8	90	1	156.50	35.90	32.10	32.10	0.00	54.63	279.13	0.00	187.20	466.33
321	1	9	90	1	183.00	60.60	45.00	45.00	0.00	32.09	320.69	0.00	202.50	523.19
322	1	10	90	1	168.40	30.50	42.98	54.42	0.00	14.69	268.01	0.00	436.90	704.91
323	1	11	90	1	85.30	17.10	47.16	65.95	0.00	1.73	170.08	0.00	709.70	879.78
324	1	12	90	1	41.70	8.20	28.68	36.57	0.00	48.41	134.88	0.00	376.30	511.18
325	1	1	91	1	32.10	6.03	28.64	28.64	0.00	96.57	163.34	0.00	345.02	508.36
326	1	2	91	1	12.50	3.55	6.68	8.09	8.11	6.89	31.03	0.00	34.68	65.71
327	1	3	91	1	21.80	1.31	9.67	34.80	0.00	0.00	57.91	0.00	23.35	81.26
328	1	4	91	1	23.80	4.86	8.34	31.57	0.00	0.00	60.23	0.00	24.43	84.66
329	1	5	91	1	40.80	17.61	13.61	18.35	0.00	4.10	80.86	0.00	55.70	136.56
330	1	6	91	1	46.70	18.20	14.69	18.32	0.00	0.00	83.22	0.00	60.71	143.93
331	1	7	91	1	122.00	37.46	19.93	19.93	0.00	5.73	185.12	0.00	100.74	285.86
332	1	8	91	1	202.50	51.55	42.23	42.23	0.00	22.99	319.27	0.00	134.39	453.66
333	1	9	91	1	195.50	62.00	46.47	46.47	0.00	17.04	321.01	0.00	207.37	528.38
334	1	10	91	1	109.20	30.05	28.79	36.44	0.00	24.37	200.06	0.00	234.95	435.01
335	1	11	91	1	43.20	15.51	29.89	40.58	0.00	0.00	99.29	0.00	248.11	347.40
336	1	12	91	1	28.00	8.26	17.04	24.81	0.00	24.26	85.33	0.00	264.48	349.81
SUM =	29994.09	8433.34	8435.43	10684.37	440.95	8672.35	57784.17	0.00	46457.69	104241.88				
MAX =	536.60	165.14	125.00	158.99	13.31	307.62	860.73	0.00	830.05	1266.15				
MIN =	3.20	0.40	1.14	1.88	0.00	0.00	11.14	0.00	9.00	20.14				

PMAX=	56.00	56.00	167.00	56.00	170.00	25.00	56.00	1.00	36.00	25.00
AVG =	89.27	25.10	25.11	31.80	1.31	25.81	171.98	0.00	138.27	310.24
PMIN=	232.00	303.00	265.00	219.00	1.00	3.00	219.00	1.00	219.00	219.00

COMPUTATION INTERVAL IN HOURS= 24.00

*FLOOD 2

***** FLOOD NUMBER 2 *****

UNITS OF OUTPUT

NFLRD= 2 NFLCON= 0
 IFLRD = 2 IFLCON= 1
 FLOWS MULTIPLIED BY 1.000

ALL FLOWS AND EVAPORATION IN CFS OR CMS
 RESERVOIR STORAGES IN ACRE FEET OR 1000 CU METERS
 ELEVATIONS IN FEET OR METERS
 ENERGY IN 1000 KWH EXCEPT WHEN IPER LT 24 HOURS-IN KWH

1

*USERS. 1 USER DESIGNED OUTPUT

SUMMARY BY PERIOD FLOOD= 2

LOC NO=	1.	2.	3.	4.	4.	5.	5.	5.	6.	7.
CODE=	1.020	2.020	3.020	4.040	4.060	5.240	5.040	5.060	6.020	7.040
	RAJJAPRA	DUM RES.	DUM RES.	CP-4 (X.	CP-4 (X.	CP-5 (X	CP-5 (X	CP-5 (X	DUM.RES.	DUM LAST
PER DY MO YR DW	NATURAL	NATURAL	NATURAL	FLOW REG	DEQ-SHOR	LOCAL IN	FLOW REG	DEQ-SHOR	NATURAL	FLOW REG
1 4 1 75 7	39.00	6.00	31.00	62.00	0.00	31.00	138.00	0.00	356.00	494.00
2 5 1 75 1	45.00	19.00	44.00	76.71	0.00	193.00	309.63	0.00	466.00	574.47
3 6 1 75 2	105.00	13.00	145.00	194.20	0.00	292.00	474.83	0.00	1090.00	940.78
4 7 1 75 3	89.00	10.00	102.00	209.34	0.00	412.00	686.14	0.00	2454.00	1832.33
5 8 1 75 4	68.00	8.00	102.00	176.67	0.00	248.00	530.66	0.00	2784.00	2816.34
6 9 1 75 5	102.00	11.00	108.00	171.48	0.00	242.00	512.33	0.00	2850.00	3185.90
7 10 1 75 6	133.00	13.00	98.00	203.14	0.00	316.00	614.91	0.00	2707.00	3300.37
8 11 1 75 7	94.00	12.00	89.00	198.18	0.00	409.00	730.94	0.00	2597.00	3317.48
9 12 1 75 1	67.00	10.00	77.00	151.91	0.00	400.00	687.75	0.00	1630.00	3036.33
10 13 1 75 2	56.00	8.00	59.00	110.97	0.00	385.00	615.31	0.00	992.00	2320.07
11 14 1 75 3	50.00	8.00	52.00	88.56	0.00	363.00	545.67	0.00	825.00	1743.34
12 15 1 75 4	47.00	5.00	51.00	82.45	0.00	329.00	482.42	0.00	667.00	1413.93
13 16 1 75 5	43.00	11.00	44.00	70.98	0.00	300.00	437.16	0.00	541.00	1176.06
14 17 1 75 6	40.00	10.00	39.00	60.28	0.00	274.00	398.26	0.00	463.00	1001.31
15 18 1 75 7	38.00	10.00	36.00	53.65	0.00	242.00	353.81	0.00	409.00	873.15
16 19 1 75 1	36.00	8.00	33.00	47.19	0.00	213.00	314.56	0.00	372.00	772.55
17 20 1 75 2	34.00	7.00	30.00	42.05	0.00	187.00	278.83	0.00	340.00	691.78
SUM =	1086.00	169.00	1140.00	1999.76	0.00	4836.00	8111.21	0.00	21533.00	29490.19
MAX =	133.00	19.00	145.00	209.34	0.00	412.00	730.94	0.00	2850.00	3317.48
MIN =	34.00	5.00	30.00	42.05	0.00	31.00	138.00	0.00	340.00	494.00
PMAX=	7.00	2.00	3.00	4.00	1.00	4.00	8.00	1.00	6.00	8.00

AVG =	63.88	9.94	67.06	117.63	0.00	294.47	477.13	0.00	1266.65	1734.72
PMIN=	17.00	12.00	17.00	17.00	1.00	1.00	1.00	1.00	17.00	1.00

1

FLOOD SUMMARY-EACH FLOOD COPY= 1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. BEFORE DAM
 RAJJAPRABHA PROJECT AT TAPI RIVER BASIN MONTH FLOW & DAILY FLOOD
 (POWER,FLOOD,IRRIGATION) 18 / 3 / 2535 (1964 - 1991) (1974)

*SUMFS 1

***** FLOOD NUMBER 1 *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES
LOC	4 CP-4 (X.92)	159.	159.	159.	0.
LOC	5 CP-5 (X.6B)	861.	861.	861.	0.
LOC	7 DUM LAST DOSTR CP-7	1266.	1266.	1266.	0.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
--	------------	---------	-----------	---------	-----------	---------

LOC	1 RAJJAPRABHA RES (X.	0.	3.000	0.	3.000	536.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	165.
LOC	3 DUM RES.CP-3 (X.66)	0.	3.000	0.	3.000	125.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	830.

MIN SYSTEM STG=	0.	MAX SYSTEM STG=	0.
-----------------	----	-----------------	----

*SUMFS 2

***** FLOOD NUMBER 2 *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES
LOC	4 CP-4 (X.92)	209.	209.	209.	0.
LOC	5 CP-5 (X.6B)	731.	731.	731.	0.
LOC	7 DUM LAST DOSTR CP-7	3317.	3317.	3317.	0.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	0.	3.000	0.	3.000	133.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	19.
LOC	3 DUM RES.CP-3 (X.66)	0.	3.000	0.	3.000	145.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	2850.

MIN SYSTEM STG= 0. MAX SYSTEM STG= 0.

1

COPY= 1

***** MAX VALUES FOR MULTY FLOODS *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES
LOC	4 CP-4 (X.92)	209.	209.	209.	0.
LOC	5 CP-5 (X.6B)	861.	861.	861.	0.
LOC	7 DUM LAST DOSTR CP-7	3317.	3317.	3317.	0.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	0.	3.000	0.	3.000	536.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	165.
LOC	3 DUM RES.CP-3 (X.66)	0.	3.000	0.	3.000	145.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	2850.

1 COPY= 1

*SUMPO

0

MINIMUM VALUES AND SHORTAGES FOR CONSERVATION OPERATION-ALL FLOODS

***** DESIRED FLOW ***** REQUIRED FLOW *****

LOC	SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX	SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX
-----	------------------	-----------------	----------------	------------------	-----------------	----------------

1	RAJJAPRABHA RES (X.	0.	-1.	0.00	0.	-1.	0.00
2	DUM RES.CP-2 (X.58)	0.	-1.	0.00	0.	-1.	0.00
3	DUM RES.CP-3 (X.66)	0.	-1.	0.00	0.	-1.	0.00
4	CP-4 (X.92)	56.	441.	3.49	0.	0.	0.00
5	CP-5 (X.6B)	0.	0.	0.00	0.	0.	0.00
6	DUM.RES.CP-6 (X.37A)	0.	-1.	0.00	0.	-1.	0.00
7	DUM LAST DOSTR CP-7	0.	-1.	0.00	0.	-1.	0.00

NOTE# -1. INDICATES THAT DESIRED AND/OR REQUIRED FLOWS WERE NOT SPECIFIED FOR GIVEN CONTROL POINT

	RESERVOIRS	FLD.PER	MIN STG	MIN LEVEL
LOC 1	RAJJAPRABHA RES (X.	2.01700	0.	3.000
LOC 2	DUM RES.CP-2 (X.58)	2.01700	0.	3.000
LOC 3	DUM RES.CP-3 (X.66)	2.01700	0.	3.000
LOC 6	DUM.RES.CP-6 (X.37A)	2.01700	0.	3.000

1

*CASES

CASES FOR PROGRAM DETERMINED RELEASES

** CASE = X.Y, WHERE: X = CONTROLLING LOCATION
 Y = NUMBER OF FUTURE PERIOD CONTROLLING

EXCEPT WHEN X=0
 THEN, TYPE OF RELEASE IS BASED ON RESERVOIR REQUIREMENTS, Y =

- Y=00 MINIMUM DESIRED FLOW AT DAM SITE
- Y=01 OPERATIONAL CHANNEL CAPACITY AT DAM SITE
- Y=02 BASED ON MAX RATE OF CHANGE OF RESERVOIR RELEASE
- Y=03 RELEASE TO REACH TOP OF CONSERVATION POOL
- Y=04 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
- Y=05 RELEASE TO BALANCE TANDEM RESERVOIRS
- Y=06 BASED ON MAX RELEASE DUE TO OUTLET CAPACITY
- Y=07 BASED ON NOT DRAWING BELOW LEVEL 1
- Y=08 MINIMUM REQUIRED FLOW AT DAM SITE

Y=09 RELEASE TO REACH TOP OF BUFFER LEVEL
 Y=10 BASED ON AT-SITE POWER DEMAND
 Y=11 MIN FLOW SINCE HIGHEST RES CANNOT RELEASE
 Y=12 BASED ON SYSTEM POWER DEMAND
 Y=20 BASED ON GATE REGULATION CURVE - RISING POOL
 Y=21 BASED ON EMERGENCY RELEASE: PARTIAL GATE OPENING
 Y=22 BASED ON EMERGENCY RELEASE: TRANSITION
 Y=23 BASED ON EMERGENCY RELEASE: OUTFLOW=INFLOW
 Y=29 BASED ON EMERGENCY RELEASE: PRE-RELEASE

CASES FOR USER SPECIFIED RELEASE CRITERIA (QA CARDS)

** CASE = -X.Y, WHERE: X = RELEASE (CFS) OR RELEASE CRITERIA (IF ANY)
 Y = CODE THAT WAS INPUT ON QA CARD
 (OR REPEATED FROM PREVIOUS PERIOD)

Y=00 X RELEASE SPECIFIED BY USER
 Y=01 RELEASE SAME AS PREVIOUS PERIOD'S RELEASE
 Y=02 INTERPOLATED RELEASE BETWEEN TWO USER SUPPLIED RELEASE VALUES
 Y=03 PREVIOUS PERIOD RELEASE + X PERCENT
 Y=04 PREVIOUS PERIOD RELEASE - X PERCENT
 Y=10 PREVIOUS PERIOD RELEASE + X CONSTANT
 Y=20 PREVIOUS PERIOD RELEASE - X CONSTANT

 Y=22 RELEASE FROM GATE REGULATION CURVE
 Y=23 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
 Y=24 RELEASE FOR DAM SITE OPERATIONAL CHANNEL CAPACITY
 Y=25 RELEASE FOR MAXIMUM OUTLET CAPACITY
 Y=26 RELEASE TO REACH TOP OF CONSERVATION POOL
 Y=27 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (RISING)
 Y=28 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (FALLING)
 Y=29 RELEASE TO REACH TOP OF BUFFER POOL
 Y=30 RELEASE TO REACH LEVEL 1 POOL
 Y=31 BASED ON FIRM ENERGY DEMAND
 Y=32 BASED ON ALLOCATED SYSTEM POWER ENERGY
 Y=33 RELEASE TO BALANCE TANDEM RESERVOIRS
 Y=34 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (DESIRED Q)
 Y=35 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (REQUIRED Q)
 Y=36 BASED ON D.S. FLOOD CONTROL REQUIREMENTS
 Y=37 BASED ON D.S. LOW FLOW REQUIREMENTS

 Y=41 OUTFLOW EQUAL INFLOW
 Y=42 BASED ON PREVIOUS PERIOD GATE SETTING
 Y=43 RELEASE TO REACH X LEVEL (AT END OF CURRENT PERIOD)
 Y=44 RELEASE TO REACH X STORAGE (AT END OF CURRENT PERIOD)
 Y=45 RELEASE TO REACH X ELEVATION (AT END OF CURRENT PERIOD)
 Y=50 MINIMUM RELEASE MADE IF D.S. TANDEM RES. IS RISING AND
 D.S. RELEASE IS LESS THAN VALUE X

 For your information, the following command line was given to execute Program HEC5A:

INPUT=CASE2.DAT OUTPUT=CASE2.OUT DSSFILE=CASE2.DSS MENU=OFF

1

```

*****
* HEC-5 SIMULATION OF FLOOD CONTROL AND CONSERVATION SYSTEMS *
*
*   Version   7.2; March 1991
*
* RUN DATE  21 MAR 93  TIME  09:51:06
*****
* U.S. ARMY CORPS OF ENGINEERS
* HYDROLOGIC ENGINEERING CENTER
* 609 SECOND STREET, SUITE D
* DAVIS, CALIFORNIA 95616-4687
* (916) 756-1104
*****
  
```

```

X   X  XXXXXXX  XXXXX      XXXXXX
X   X X   X X X   X       X
X   X X   X   X           X
XXXXXXX XXXXX X   XXXXX XXXXXX
X   X X   X           X
X   X X   X X X   X       X X
X   X  XXXXXXX  XXXXX      XXXXXX
  
```

ศูนย์วิทยทรัพยากร
 จุฬาลงกรณ์มหาวิทยาลัย

```

*****
*
* MODELING CAPABILITIES OF THIS VERSION ARE:
*
* Flood Control, Water Supply, Hydropower, DSS Version 6
*
*
*
* MAXIMUM LIMITS FOR THIS VERSION ARE:
*
*
  
```

```

*   Reservoirs = 7,   Control Points = 15,   Diversions = 7,   Power Plants = 5           *
*                                                                                       *
*   Model Data cards (T1-ED)= 400   Reservoir Levels = 40   Flow Sequence Sets (BF-EJ)= 5   *
*   J8+JZ Output/DSS cards = 20   Seasonal Storages= 24   Periods per Flow Sequence = 370   *
*   "Stacked" Jobs (T1-EJ)= 1   Seasons (CS card)= 24   Dynamic Dimen. (DM array) = 20000   *
*                                                                                       *
*                                                                                       *
*****

```

1

HEC-5 SIMULATION OF FLOOD CONTROL
AND CONSERVATION SYSTEMS

Version 7.2; March 1991

MAX DIMENSION LIMITS ARE CURRENTLY SET AT 7 RESERVOIRS AND 15 CONTROL POINTS

*INPUT LISTING FROM PRERD

TO SUPPRESS LISTING, INSERT NOLIST CARD INTO INPUT DECK AT DESIRED POINT

```

T1   SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P.      RAJ. DAM P= 4.0
T2   RAJJAPRABHA PROJECT AT TAPI RIVER BASIN             MONTH FLOW & DAILY FLOOD
T3   ( POWER,FLOOD,IRRIGATION ) 19 / 3 / 2536           (1964 - 1991),(1974)
J1   1   1   4   3   4   2
J2   1.2
J3   2   0   -1   0
J8   1.09  1.10  1.11  1.12  1.22  1.16  1.23  1.33  2.02  2.06
J8   3.02  4.04  4.06  4.24  5.04  5.24  5.06  6.02  7.04  7.06

RL   1 4300000 1350000 4300000 5600000 5600000
RO   2   5   7
RS   5 1350000 2700000 3900000 4300000 5600000
RO   5   258   305   335   343   362
RA   5  83500 117000 145000 155000 183500
RE   5   62   75   85   87.5   95
R3   74.1  83.5 106.9 101.1  86.4  71.1  70.8  67.6  68.9  64.6
R3   53.3  59.5
P1   1 240000   1   3   0   0  0.90
PR 29726 26850 29726 28767 29726 28767 29726 29726 28767 29726
PR 28767 29726
PO   280   300   320   360   390
PT 14.35  14.5  14.7  15.0  15.25
PP198000 201000 216000 228000 240000
PS   69   70   75   80  83.5

CP   1 1500
ID RAJJAPRABHA RES ( X.39 )
RT   1   5   1.2  0.1  24

```

RL	2		
RO	2	5	7
RS	2	0	100
RO	2	-1	-1
RA	2	0	1
RE	2	1	10

CP	2	400			
ID DUM RES.CP-2 (X.58)					
RT	2	5	1.2	0.1	24

RL	3			
RO	3	4	5	7
RS	2	0	100	
RO	2	-1	-1	
RA	2	0	1	
RE	2	1	10	

CP	3	650			
ID DUM RES.CP-3 (X.66)					
RT	3	4	1.2	0.1	24

CP	4	800								
ID CP-4 (X.92)										
RT	4	5	1.2	0.1	24					
QM	9.20	16.20	14.5	4.3	3.7	7.8	5.6	3.1	0.00	0.00
QM	0.00	1.70								

CP	5	2000								
ID CP-5 (X.68)										
RT	5	7	1.2	0.1	24					
QM	5.20	9.40	8.30	2.40	2.20	4.50	3.20	1.80	0.00	0.00
QM	0.00	1.00								

RL	6		
RO			
RS	2	0	100
RO	2	-1	-1
RA	2	0	1
RE	2	1	10

CP	6	3000			
ID DUM.RES.CP-6 (X.37A)					
RT	6	7	1.2	0.1	24

CP	7	5000								
ID DUM LAST DOSTR CP-7										
RT	7	0								
QM	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
QM	0.3	0.3								
ED										
BF	0	336	336	164010100	0	720				
IN	1	30JAN64	23.8	20.8	14.9	16.6	88.1	73.7	38.8	399.4

IN 196.0	158.7	164.7	64.2	23.6	16.2	15.3	34.2	76.2	280.1
IN 411.1	174.4	280.0	137.8	115.0	65.7	62.4	17.7	10.5	16.5
IN 107.5	60.6	165.4	237.1	94.5	86.6	101.9	95.2	15.8	8.4
IN 5.7	17.7	99.7	208.3	416.4	512.7	189.0	107.2	56.2	34.1
IN 16.8	11.0	9.8	12.4	42.6	77.5	238.2	536.6	215.7	99.0
IN 38.6	23.2	17.6	7.4	5.0	7.9	24.2	68.7	158.3	110.2
IN 486.9	93.0	74.8	23.6	14.7	8.1	15.3	8.4	14.3	92.2
IN 197.9	195.3	194.1	156.8	75.6	39.6	15.5	12.2	8.1	9.8
IN 18.9	175.2	146.4	87.4	91.4	315.5	63.3	27.1	16.5	10.2
IN 8.0	16.1	13.3	47.8	163.6	202.4	165.6	93.0	81.8	41.4
IN 16.8	11.2	7.2	7.0	10.8	73.7	241.6	180.4	147.4	171.8
IN 160.9	41.8	48.5	19.9	15.2	15.8	38.8	150.1	98.6	346.2
IN 149.3	200.1	152.4	49.7	16.7	9.5	9.8	14.2	26.2	248.8
IN 54.9	242.0	103.0	205.4	123.5	32.0	11.9	7.4	6.0	7.3
IN 90.0	81.0	144.1	143.4	298.2	56.4	91.8	28.8	13.2	9.3
IN 7.5	6.1	21.0	33.1	42.2	235.3	263.9	104.2	149.3	26.7
IN 10.6	7.2	5.4	9.7	24.5	144.7	202.4	296.9	328.7	148.2
IN 36.1	18.5	12.3	9.5	8.6	9.9	63.1	70.2	388.3	329.4
IN 167.1	258.4	50.5	20.4	15.2	11.0	8.0	7.5	25.2	98.4
IN 281.2	267.7	308.6	131.8	98.8	33.1	11.8	7.8	6.0	7.2
IN 16.4	173.2	74.6	76.5	101.1	52.7	92.2	34.3	10.5	6.5
IN 4.9	9.6	25.7	36.1	271.1	206.1	191.7	66.1	38.3	21.6
IN 14.6	9.4	5.9	3.2	23.7	83.7	111.7	208.0	164.4	181.9
IN 106.5	27.4	12.7	9.2	6.1	8.5	29.2	112.3	136.3	323.7
IN 177.5	146.0	36.7	28.0	14.9	9.8	7.1	8.0	15.7	137.7
IN 49.7	175.1	138.9	159.8	64.0	25.7	8.2	8.0	12.5	11.5
IN 94.2	66.9	143.1	363.8	152.2	107.6	60.3	22.1	10.9	8.1
IN 9.2	13.8	33.1	68.8	26.4	118.5	84.4	68.1	59.1	32.4
IN 28.4	28.0	27.5	42.8	72.7	80.5	123.0	86.7	159.8	186.4
IN 104.7	30.2	24.9	16.5	30.1	38.0	114.3	107.8	147.4	315.5
IN 145.8	141.7	68.3	47.9	25.1	8.7	19.4	22.5	56.9	112.0
IN 84.8	156.5	183.0	168.4	85.3	41.7	32.1	12.5	21.8	23.8
IN 40.8	46.7	122.0	202.5	195.5	109.2	43.2	28.0		
IN 2 30JAN64	5.12	3.72	2.07	4.43	38.92	25.22	20.83	98.10	
IN 62.06	40.93	27.66	8.98	5.10	3.62	2.03	5.48	33.56	78.89
IN 95.29	42.00	71.30	36.34	22.69	9.01	9.36	3.65	2.56	4.42
IN 47.65	21.82	46.15	63.31	50.90	25.07	21.38	9.60	4.24	3.47
IN 3.08	4.49	44.14	60.22	96.35	157.02	61.29	29.60	16.71	8.38
IN 4.35	3.52	2.63	4.17	18.44	26.21	60.71	165.14	64.23	27.80
IN 15.05	8.16	4.44	3.45	3.16	3.90	10.16	23.92	44.73	20.17
IN 94.06	26.48	18.67	8.17	4.12	3.46	2.03	3.93	5.71	30.03
IN 52.65	49.10	61.85	40.52	18.75	8.49	4.21	3.54	2.82	4.02
IN 7.78	51.61	42.35	12.42	50.55	75.43	17.52	8.24	2.55	1.12
IN 0.87	4.40	5.26	18.49	45.79	51.52	45.91	16.71	12.77	5.56
IN 5.15	3.80	2.86	1.39	2.85	23.88	54.09	38.79	36.38	32.38
IN 20.25	8.77	7.80	3.75	2.88	4.32	18.17	37.54	22.53	101.83
IN 38.27	56.70	42.82	8.28	2.52	1.72	1.72	2.43	6.64	72.53
IN 24.05	48.49	21.91	47.74	21.68	4.96	2.81	2.28	2.62	2.53
IN 29.39	27.31	45.51	33.23	72.53	10.97	10.38	5.04	2.86	2.09
IN 2.30	2.60	6.19	7.29	9.96	60.43	69.53	19.55	14.04	4.81
IN 2.78	1.78	0.94	1.92	8.24	42.82	55.58	86.54	77.93	39.17
IN 11.46	5.00	3.29	2.51	2.58	7.10	21.07	22.84	80.57	56.70
IN 50.15	54.46	7.95	4.81	7.09	4.58	2.95	3.17	7.98	25.96

IN 63.78	64.53	71.76	36.33	26.85	12.83	3.73	4.13	3.19	4.01
IN 10.59	50.93	24.62	16.26	30.40	18.80	28.20	11.45	4.70	5.20
IN 4.36	6.17	10.37	16.09	72.36	55.20	53.63	24.66	16.13	9.85
IN 5.41	5.99	4.29	3.18	14.51	31.48	38.42	58.93	49.38	48.86
IN 27.31	10.52	4.85	5.37	5.26	5.75	11.00	43.21	36.52	75.35
IN 46.68	42.90	12.89	8.80	4.40	4.87	3.58	7.52	12.46	42.82
IN 16.19	45.88	46.30	59.68	24.15	11.67	3.28	3.63	2.39	3.17
IN 54.83	34.72	63.41	154.42	130.40	39.91	27.04	11.71	3.70	3.50
IN 2.70	4.30	14.20	24.00	18.40	23.00	49.80	21.00	17.10	8.40
IN 5.60	3.90	0.70	6.00	32.00	27.00	37.70	12.20	58.10	47.00
IN 21.70	8.30	5.20	3.60	0.40	5.70	50.70	34.10	42.50	90.00
IN 56.50	37.20	18.00	8.70	5.30	3.50	1.60	4.80	24.90	35.20
IN 30.00	35.90	60.60	30.50	17.10	8.20	6.03	3.55	1.31	4.86
IN 17.61	18.20	37.46	51.55	62.00	30.05	15.51	8.26		
IN 3 30JAN64	19.08	12.67	6.48	6.24	23.08	19.55	11.61	72.35	
IN 46.53	40.67	79.72	47.78	18.85	9.35	6.67	11.35	20.70	56.70
IN 48.84	36.05	56.61	35.65	59.34	49.06	63.47	10.43	4.46	6.22
IN 26.96	17.19	24.27	49.84	34.35	23.36	53.97	74.13	9.88	3.74
IN 2.25	6.56	25.40	43.77	49.37	110.47	45.69	28.31	34.82	22.20
IN 11.03	5.61	4.14	5.03	13.98	20.23	31.55	115.73	48.89	26.34
IN 28.02	12.93	11.95	3.02	1.93	3.72	10.30	18.65	23.56	21.92
IN 81.44	24.90	42.86	13.27	8.61	3.52	6.67	3.87	8.32	22.88
IN 27.52	40.65	46.30	40.21	43.19	26.87	9.54	6.47	3.36	4.27
IN 9.24	37.82	22.37	16.91	33.98	78.30	38.14	16.25	9.34	4.96
IN 2.99	6.56	7.09	24.69	31.74	31.37	33.18	29.87	33.18	30.25
IN 9.71	6.20	4.11	2.31	5.97	15.82	41.45	43.31	61.73	25.02
IN 36.27	23.52	48.17	12.40	7.09	4.24	14.56	32.02	19.04	66.84
IN 25.08	35.85	77.93	37.34	11.20	6.20	4.11	6.56	10.08	55.17
IN 16.06	51.09	48.23	57.88	68.67	25.39	6.35	2.89	1.87	4.63
IN 21.28	20.45	23.90	26.14	66.74	17.18	47.07	11.58	7.47	4.13
IN 2.99	1.54	7.09	8.10	7.09	48.92	55.17	30.99	125.00	12.70
IN 4.48	2.89	2.24	6.17	9.71	23.53	28.01	63.48	65.97	32.86
IN 13.89	7.84	6.72	4.13	2.99	3.47	21.66	23.53	85.51	79.16
IN 42.05	81.77	63.66	15.31	5.97	2.89	1.87	1.93	10.93	23.53
IN 38.46	58.25	57.10	43.69	36.27	21.28	7.47	4.13	3.73	6.17
IN 13.07	41.28	15.31	17.55	28.94	17.55	42.44	25.39	3.79	2.37
IN 1.88	4.21	10.60	12.78	34.84	43.02	46.01	18.44	27.89	11.57
IN 8.50	4.46	2.34	2.36	10.20	21.35	18.90	43.44	42.74	46.24
IN 55.86	16.50	6.31	4.31	2.44	3.90	11.30	26.49	21.36	68.89
IN 44.31	37.62	27.24	17.01	8.85	4.75	2.90	3.75	8.60	31.07
IN 12.70	36.20	39.68	40.93	38.43	15.06	1.14	3.45	5.38	4.77
IN 24.30	18.32	22.04	77.72	41.27	28.40	36.91	12.00	4.30	3.50
IN 3.90	5.40	12.10	18.70	10.40	23.70	33.10	18.90	36.40	20.80
IN 24.40	17.80	12.30	13.80	20.00	20.80	20.30	16.80	42.20	47.30
IN 55.10	18.90	20.30	9.60	13.50	12.40	28.30	25.70	22.50	67.10
IN 40.50	36.60	40.20	33.90	20.60	3.90	8.60	7.90	16.80	26.40
IN 16.20	32.10	45.00	42.98	47.16	28.68	28.64	6.68	9.67	8.34
IN 13.61	14.69	19.93	42.23	46.47	28.79	29.89	17.04		
IN 4 30JAN64	0.00	1.18	14.13	13.06	17.35	1.87	0.00	13.72	
IN 0.00	10.64	33.50	7.93	0.00	1.30	14.74	36.91	14.16	0.00
IN 34.11	0.00	1.95	9.33	24.10	7.94	0.00	1.26	7.40	12.92
IN 22.55	2.70	4.27	0.00	0.00	6.10	21.62	8.17	1.74	1.48
IN 0.06	14.55	20.46	0.00	33.95	39.68	0.00	7.39	12.79	7.69

IN	1.20	1.42	6.33	7.35	5.16	1.63	12.88	43.26	0.00	6.88
IN	9.64	7.61	0.76	1.51	0.00	1.26	0.23	2.18	3.44	0.00
IN	11.74	6.50	16.49	7.61	2.34	1.49	14.74	1.93	0.00	0.70
IN	8.12	0.00	0.00	10.53	16.64	7.74	1.90	1.40	3.73	3.84
IN	0.00	0.00	2.01	0.00	0.00	20.53	14.32	7.64	2.42	1.50
IN	3.83	12.01	0.00	0.00	0.00	1.74	4.19	2.59	27.71	6.29
IN	2.24	1.06	1.43	0.95	0.00	4.81	5.75	0.00	0.00	26.29
IN	71.52	12.90	28.81	0.58	0.93	0.40	1.58	3.77	1.30	7.52
IN	2.41	5.97	33.71	14.94	1.91	1.20	1.50	1.02	1.58	6.61
IN	0.00	2.50	0.00	5.94	36.03	7.53	3.38	1.75	1.01	0.00
IN	21.28	1.88	0.40	0.00	0.00	3.65	23.78	13.55	5.93	3.67
IN	3.19	0.96	0.00	0.23	0.77	0.39	1.98	6.50	0.00	10.31
IN	0.33	0.00	0.00	4.86	2.03	0.60	2.24	5.44	6.28	7.55
IN	3.86	2.37	7.76	4.63	6.30	3.24	8.15	10.12	11.69	8.53
IN	0.00	3.98	19.17	12.50	1.66	1.23	4.02	0.73	1.13	2.29
IN	2.42	0.00	3.63	4.88	11.89	7.88	2.38	0.92	0.00	0.00
IN	0.00	0.00	0.00	0.00	0.00	2.31	27.97	5.77	5.02	1.66
IN	0.00	3.88	0.69	4.61	18.23	0.00	0.00	5.23	10.43	8.26
IN	2.60	1.59	0.40	0.00	0.10	1.35	0.00	0.00	0.00	13.16
IN	22.87	7.77	3.49	1.49	0.68	2.10	1.59	0.00	0.85	11.57
IN	0.00	10.01	9.44	7.77	2.26	1.47	2.24	1.42	0.00	0.00
IN	0.00	0.00	0.00	10.90	14.96	7.75	5.97	1.51	10.64	6.24
IN	19.31	2.34	1.67	17.66	0.00	7.55	13.99	7.73	4.45	1.54
IN	5.51	9.47	2.64	2.19	0.00	0.00	0.00	5.03	13.81	7.77
IN	0.00	1.05	33.96	49.39	13.46	1.44	0.00	0.00	0.00	12.61
IN	22.55	7.81	0.00	1.30	37.93	42.75	24.81	0.00	2.15	10.29
IN	0.00	9.73	15.50	7.93	0.00	1.51	21.37	21.40	9.17	0.00
IN	0.00	0.00	0.00	11.44	18.79	7.89	0.00	1.41	25.13	23.23
IN	4.74	3.63	0.00	0.00	0.00	7.65	10.69	7.77		
IN	5 30JAN64	64.93	13.22	0.00	0.00	2.90	3.36	0.00	0.00	
IN	20.9	51.26	145.72	63.08	63.67	10.54	0.00	0.00	3.45	33.49
IN	43.0	32.26	44.59	42.09	84.50	64.48	307.62	11.42	0.00	0.00
IN	2.0	1.44	12.54	22.54	0.00	19.67	68.36	91.93	14.64	5.98
IN	3.5	0.00	2.37	23.01	44.60	0.00	18.85	28.70	9.92	35.06
IN	20.9	7.50	0.00	0.00	4.98	3.91	21.84	0.00	26.40	25.10
IN	0.0	24.92	25.95	5.39	4.43	1.41	5.82	2.63	11.63	38.37
IN	103.1	22.47	34.98	25.29	22.98	10.90	0.00	9.35	12.36	22.73
IN	33.0	43.75	25.87	53.23	51.32	47.89	9.91	3.40	0.00	0.00
IN	0.7	19.01	49.75	30.09	0.00	128.03	40.33	27.48	11.45	5.53
IN	0.2	0.00	3.92	0.00	0.00	10.97	7.74	33.01	11.88	28.11
IN	16.2	9.01	6.52	0.00	8.08	0.00	23.35	43.75	46.24	88.53
IN	193.3	54.71	180.98	15.97	6.67	1.43	6.95	9.77	0.00	20.56
IN	25.9	57.50	83.40	43.09	22.32	7.54	4.84	6.40	10.08	6.23
IN	0.0	34.90	2.82	83.34	87.48	34.38	0.00	6.83	3.68	3.43
IN	13.0	4.50	6.88	37.49	53.35	14.01	68.78	34.98	0.00	6.14
IN	1.6	3.65	11.01	13.56	0.00	24.09	41.10	36.24	134.84	33.93
IN	0.0	9.32	5.98	0.00	6.84	19.97	24.32	13.64	55.25	57.63
IN	9.3	32.34	0.00	4.91	0.00	0.00	11.05	0.00	39.92	42.01
IN	20.5	108.17	0.00	17.39	30.25	26.23	18.16	16.21	17.80	25.23
IN	71.4	21.82	144.49	94.98	106.60	66.65	7.81	4.28	4.50	23.38
IN	40.8	50.06	30.13	8.03	15.43	5.40	81.27	0.00	1.32	0.00
IN	0.0	3.22	0.00	0.00	99.61	71.76	112.48	26.24	30.56	22.98
IN	6.2	4.53	2.22	2.96	1.77	1.56	3.09	23.29	21.46	62.23

IN	56.8	22.05	6.84	43.72	58.54	0.00	0.00	1.48	34.66	50.99
IN	51.3	31.75	0.38	41.15	0.00	0.00	0.00	9.27	8.53	31.53
IN	0.0	0.00	0.00	2.35	5.34	0.00	7.26	0.00	0.00	0.00
IN	0.0	0.00	0.00	0.00	29.29	24.72	64.03	63.76	9.59	36.23
IN	36.5	0.00	17.75	26.07	65.57	81.58	55.06	25.36	42.16	31.14
IN	77.7	21.80	0.00	0.00	3.02	19.40	21.66	27.37	44.85	48.18
IN	17.6	30.65	59.27	9.76	0.00	0.00	1.47	26.37	17.16	62.83
IN	39.9	103.96	107.19	28.43	60.39	4.97	0.00	0.00	3.50	28.61
IN	14.3	54.63	32.09	14.69	1.73	48.41	96.57	6.89	0.00	0.00
IN	4.1	0.00	5.73	22.99	17.04	24.37	0.00	24.26		
IN	6	30JAN64	213.80	44.98	22.73	23.28	61.41	73.12	22.57	187.78
IN	207.8	237.92	347.75	569.03	210.64	39.28	22.77	26.09	59.98	168.07
IN	372.5	123.43	272.44	236.67	307.00	581.66	823.30	41.14	22.34	23.26
IN	63.7	67.10	141.58	147.88	129.61	233.60	296.26	830.05	87.48	29.61
IN	21.9	23.45	62.80	135.04	377.52	255.36	202.37	234.83	257.96	315.59
IN	103.3	32.83	22.27	22.60	55.95	74.87	210.01	264.68	222.93	234.34
IN	244.4	223.81	115.90	28.37	21.84	21.88	53.74	70.82	134.90	98.39
IN	431.8	233.98	274.04	227.18	70.60	24.40	30.60	20.40	28.00	59.80
IN	93.3	171.40	160.90	212.80	679.00	161.70	63.50	23.10	14.60	14.30
IN	18.7	26.60	39.20	33.60	49.80	194.90	117.30	165.80	50.40	22.70
IN	14.9	23.90	23.90	27.40	35.80	44.10	131.60	221.80	231.90	214.70
IN	79.5	33.50	23.20	13.10	41.10	82.90	201.60	174.40	201.00	201.60
IN	405.5	280.80	809.10	94.30	48.50	19.70	56.40	59.40	68.00	110.50
IN	145.4	252.80	368.80	230.40	44.40	24.00	16.00	33.60	64.20	199.80
IN	119.1	146.00	137.00	207.20	301.30	140.80	61.20	27.30	17.90	20.40
IN	73.2	81.80	61.20	101.90	198.30	173.60	233.00	180.30	43.70	26.00
IN	19.0	18.90	23.50	27.80	37.00	63.10	115.70	194.50	252.30	107.50
IN	38.8	23.20	17.20	30.10	70.90	104.60	158.30	152.70	195.20	193.00
IN	164.7	98.20	41.40	25.60	25.00	23.50	33.60	71.00	308.40	248.70
IN	227.2	234.50	205.60	95.60	61.60	47.10	36.20	30.10	63.80	176.70
IN	460.7	408.10	591.40	316.20	286.30	146.00	45.50	21.10	17.20	23.50
IN	91.8	145.10	50.80	31.70	71.00	95.60	237.30	291.20	39.20	17.80
IN	9.0	30.90	80.60	130.80	270.30	205.00	187.10	239.30	258.50	102.30
IN	49.3	51.70	22.80	9.30	27.30	84.90	102.70	169.10	203.30	290.80
IN	244.6	89.00	160.50	50.80	41.80	27.80	85.10	109.20	159.40	84.40
IN	120.4	264.00	115.70	297.20	53.80	23.10	14.20	29.70	103.40	134.30
IN	56.8	67.60	134.30	276.30	240.40	131.00	60.10	31.80	21.30	15.00
IN	71.7	69.40	136.60	221.80	413.20	445.00	326.80	172.10	78.80	39.70
IN	20.9	15.80	32.50	64.80	22.40	140.80	147.80	173.20	226.10	316.60
IN	71.7	34.30	23.90	24.30	65.70	28.20	134.00	129.20	271.60	281.90
IN	548.6	249.40	21.20	13.70	12.10	27.90	51.90	54.00	80.30	115.40
IN	158.2	280.80	212.60	43.30	119.20	63.20	61.50	47.20	86.50	123.10
IN	89.6	187.20	202.50	436.90	709.70	376.30	345.02	34.68	23.35	24.43
IN	55.7	60.71	100.74	134.39	207.37	234.95	248.11	264.48		

EJ

BF	0	17	0	175010400	0	24				
IN	1	4JAN75	39	45	105	89	68	102	133	94
IN	67	56	50	47	43	40	38	36	34	
IN	2	4JAN75	6	19	13	10	8	11	13	12
IN	10	8	8	5	11	10	10	8	7	
IN	3	4JAN75	31	44	145	102	102	108	98	89
IN	77	59	52	51	44	39	36	33	30	

IN	4	4JAN75	31	42	124	98	72	67	99	101
IN	64	36	27	28	21	16	14	11	9	
IN	5	4JAN75	31	193	292	412	248	242	316	409
IN	400	385	363	329	300	274	242	213	187	
IN	6	4JAN75	356	466	1080	2454	2784	2850	2707	2597
IN	1630	992	825	667	541	463	409	372	340	

EJ
ER

START COMPUTATIONS FOR JOB NUMBER 1 FOR 2 FLOODS READ

NRRES= 4 NCPT= 7

FIXED DIM. - DIVS.= 7 PWR. = 5

DYNAMIC DIM. - RES = 4 CPTS.= 7 PERS.= 128

MX= 1 IF MUSK ROUT K LESS THAN 400.00
 MX= 2 IF MUSK ROUT K LESS THAN 400.00
 MX= 3 IF MUSK ROUT K LESS THAN 400.00
 MX= 4 IF MUSK ROUT K LESS THAN 400.00
 MX= 5 IF MUSK ROUT K LESS THAN 400.00
 MX= 6 IF MUSK ROUT K LESS THAN 400.00

*** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***
 *** CAUTION ***

	FLOFMT	NPER	NPSTO	CNSTI	FLDAT	EPER	IPER.MINPER	ONESUM
BF	0.	336.	336.	1.000	64010100	0.	720 . 0	0.

1

*INTAB

J1	METRIC	ISTMO	NULEV	LEVCON	LEVTFC	LEVBUF	LEVPUM	NOADLV	LEVPRC
1	1	4	3	4	2	3	0	2	
J2	IFCAST	CFLOD	RATCHG	IPRIO	IOPMD	ISCHED	NCPTR		
-1	1.20	0.04	0	0	0	0			
J3	IPRINT	PRCOL	IPLOTJ	FLONAT	CRITPR	ILOCAL	NOROUT	INFLOW	NOOPTS
2	130.	0	-1.	0.	0	24	0	0	
J4	IANDAM	ECFCT	IPRECN	BCRFAC	COSFAC	PCVAL	PEPVAL	PESVAL	PEBVAL
0	1.0	0	1.00	1.00	0.0	0.0	0.0	0.0	

USER ID	QMAX	QMDRAT	QMIND	QMINR	LOCP	RTLQ	QLAG
---------	------	--------	-------	-------	------	------	------

0	1	1500.	1.	0.	0.	0	1.000	0. RAJJAPRABHA RES (X.39
0	2	400.	1.	0.	0.	0	1.000	0. DUM RES.CP-2 (X.58)
0	3	650.	1.	0.	0.	0	1.000	0. DUM RES.CP-3 (X.66)
0	4	800.	1.	0.	0.	0	1.000	0. CP-4 (X.92)
0	5	2000.	1.	0.	0.	0	1.000	0. CP-5 (X.6B)-
0	6	3000.	1.	0.	0.	0	1.000	0. DUM.RES.CP-6 (X.37A)

0 7 5000. 1. 0. 0. 0 1.000 0. DUM LAST DOSTR CP-7

USER ID	COMP ID	RTFR	RTTO	RTMD	X	K	LAG	
0	1	1	1.	5.	1.20	0.10	24.000	0
0	2	2	2.	5.	1.20	0.10	24.000	0
0	3	3	3.	4.	1.20	0.10	24.000	0
0	4	5	4.	5.	1.20	0.10	24.000	0
0	5	6	5.	7.	1.20	0.10	24.000	0
0	6	4	6.	7.	1.20	0.10	24.000	0
0	7	7	7.	0.	0.00	0.00	0.000	0

USER ID	COMP ID	STOR1	CUM DAYS	START DATE	STORL-1	-2	-3	-4	-5
1	1	4300000.	1.	01 JAN	1350000.	4300000.	5600000.	5600000.	
2	2	0.	1.	01 JAN	0.	0.	0.	0.	
3	3	0.	1.	01 JAN	0.	0.	0.	0.	
6	4	0.	1.	01 JAN	0.	0.	0.	0.	

USER ID LOCATIONS RESERVOIR IS SERVING

1	1.	5.	7.
2	2.	5.	7.
3	3.	4.	5. 7.
6	6.		

1

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. RAJ. DAM P= 4.0

UPSTREAM RESERVOIRS OPERATING FOR EACH LOCATION

1R	RAJJAPRAB			
.----2R	DUM RES.C			
.----3R	DUM RES.C			
.----4	CP-4 (X.9	3		
5	CP-5 (X.	1	2	3
.----6R	DUM.RES.C			

7 DUM LAST 1 2 3

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. RAJ. DAM P= 4.0

		CHANNEL FLOOD CNTL CAPACITY	CONSERV. STORAGE	MIN DES. FLOW	MIN REQ. FLOW	DIVERT TO	MAP LOCATION NUMBER	LOCATION NAME
1R	RAJJAPRAB	1500.	0.	4250000.	0.	0.	0	1 RAJJAPRABHA RES (X
.-----2R	DUM RES.C	400.	0.	0.	0.	0.	0	2 DUM RES.CP-2 (X.58)
! .-----3R	DUM RES.C	650.	0.	0.	0.	0.	0	3 DUM RES.CP-3 (X.66)
.-----4	CP-4 (X.9	800.	0.	0.	0.	0.	0	4 CP-4 (X.92)
5	CP-5 (X.	2000.	0.	0.	0.	0.	0	5 CP-5 (X.6B)
.-----6R	DUM.RES.C	3000.	0.	0.	0.	0.	0	6 DUM.RES.CP-6 (X.37A
7	DUM LAST	5000.	0.	0.	0.	0.	0	7 DUM LAST DOSTR CP-7

1

RESERVOIR DATA

USER ID= 1 COMP ID= 1

RS STORAGES= 1350000. 2700000. 3900000. 4300000. 5600000.

RQ 0 CAPACITIES= 258. 305. 335. 343. 362.

RA AREAS= 83500. 117000. 145000. 155000. 183500.

RE ELEVATIONS= 62.00 75.00 85.00 87.50 95.00

USER ID= 2 COMP ID= 2

RS STORAGES= 0. 100.

RQ 0 CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 3 COMP ID= 3

RS STORAGES= 0. 100.

RO Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 6 COMP ID= 4

RS STORAGES= 0. 100.

RO Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

*RTCOF

ROUTING COEFFICIENTS FROM RES 1 TO MY

MY= 5 1.0000

MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 2 TO MY

MY= 5 1.0000

MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 3 TO MY

MY= 4 1.0000

MY= 5 1.0000

MY= 7 1.0000

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:00:09

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 118 PERIODS: 0:07:21

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:07:33

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 120 PERIODS: 0:14:53

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
OR WERE READ FROM DSS

ELAPSED TIME: 0:15:05

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

CODE=	1.090	1.100	1.110	1.120	1.220	1.160	1.230	1.330	2.020	2.060
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR
1 1 1 64 1	23.80	19.51	4300000.00	0.10	87.50	9382.23	20343.77	73.15	5.12	-1000.00
2 1 2 64 1	20.80	15.63	4300000.00	0.10	87.50	7032.84	20776.09	73.15	3.72	-1000.00
3 1 3 64 1	14.90	8.71	4300000.00	0.10	87.50	4189.95	25536.05	73.15	2.07	-1000.00
4 1 4 64 1	16.60	10.55	4300000.00	0.10	87.50	4911.31	23855.70	73.15	4.43	-1000.00
5 1 5 64 1	88.10	61.68	4357316.00	0.10	87.83	29726.00	0.00	73.32	38.92	-1000.00
6 1 6 64 1	73.70	61.49	4377834.00	0.10	87.95	28767.00	0.00	73.54	25.22	-1000.00
7 1 7 64 1	38.80	61.62	4305682.00	0.10	87.53	29726.00	0.00	73.39	20.83	-1000.00
8 1 8 64 1	399.40	59.68	5204441.00	0.10	92.72	29726.00	0.00	75.78	98.10	-1000.00
9 1 9 64 1	196.00	56.97	5552489.00	0.10	94.73	28767.00	0.00	79.37	62.06	-1000.00
10 1 10 64 1	158.70	136.55	5600000.00	0.03	95.00	72267.97	0.00	80.51	40.93	-1000.00
11 1 11 64 1	164.70	160.93	5600000.00	0.03	95.00	82563.13	0.00	80.65	27.66	-1000.00
12 1 12 64 1	64.20	60.12	5600000.00	0.03	95.00	31874.51	0.00	80.65	8.98	-1000.00
13 1 1 65 1	23.60	56.27	5498970.00	0.10	94.42	29726.00	0.00	80.36	5.10	-1000.00
14 1 2 65 1	16.20	56.71	5385931.00	0.10	93.76	26850.00	0.00	79.74	3.62	-1000.00
15 1 3 65 1	15.30	57.22	5254703.00	0.10	93.01	29726.00	0.00	79.04	2.03	-1000.00
16 1 4 65 1	34.20	57.66	5176204.00	0.10	92.56	28767.00	0.00	78.43	5.48	-1000.00
17 1 5 65 1	76.20	57.75	5210534.00	0.10	92.75	29726.00	0.00	78.30	33.56	-1000.00
18 1 6 65 1	280.10	124.93	5600000.00	0.03	95.00	63200.48	0.00	79.53	78.89	-1000.00
19 1 7 65 1	411.10	406.25	5600000.00	0.03	95.00	168943.80	0.00	79.61	95.29	-1000.00
20 1 8 65 1	174.40	169.77	5600000.00	0.03	95.00	90002.82	0.00	80.65	42.00	-1000.00
21 1 9 65 1	280.00	275.12	5600000.00	0.03	95.00	141151.00	0.00	80.65	71.30	-1000.00
22 1 10 65 1	137.80	133.37	5600000.00	0.03	95.00	70708.30	0.00	80.65	36.34	-1000.00
23 1 11 65 1	115.00	111.23	5600000.00	0.03	95.00	57064.63	0.00	80.65	22.69	-1000.00
24 1 12 65 1	65.70	61.62	5600000.00	0.03	95.00	32669.74	0.00	80.65	9.01	-1000.00
25 1 1 66 1	62.40	57.32	5600000.00	0.03	95.00	30389.96	0.00	80.65	9.36	-1000.00
26 1 2 66 1	17.70	56.29	5491418.00	0.10	94.37	26850.00	0.00	80.34	3.65	-1000.00
27 1 3 66 1	10.50	56.88	5348206.00	0.10	93.55	29726.00	0.00	79.61	2.56	-1000.00
28 1 4 66 1	16.50	57.36	5224446.00	0.10	92.83	28767.00	0.00	78.84	4.42	-1000.00
29 1 5 66 1	107.50	57.37	5343464.00	0.10	93.52	29726.00	0.00	78.83	47.65	-1000.00
30 1 6 66 1	60.60	57.13	5339823.00	0.10	93.50	28767.00	0.00	79.16	21.82	-1000.00
31 1 7 66 1	165.40	63.49	5600000.00	0.03	95.00	33343.70	0.00	79.90	46.15	-1000.00
32 1 8 66 1	237.10	232.47	5600000.00	0.03	95.00	123243.20	0.00	80.65	63.31	-1000.00
33 1 9 66 1	94.50	89.62	5600000.00	0.03	95.00	45980.53	0.00	80.65	50.90	-1000.00
34 1 10 66 1	86.60	82.17	5600000.00	0.03	95.00	43564.63	0.00	80.65	25.07	-1000.00
35 1 11 66 1	101.90	98.13	5600000.00	0.03	95.00	50343.70	0.00	80.65	21.38	-1000.00
36 1 12 66 1	95.20	91.12	5600000.00	0.03	95.00	48309.16	0.00	80.65	9.60	-1000.00
37 1 1 67 1	15.80	56.32	5477982.00	0.10	94.30	29726.00	0.00	80.30	4.24	-1000.00
38 1 2 67 1	8.40	56.84	5345825.00	0.10	93.53	26850.00	0.00	79.56	3.47	-1000.00
39 1 3 67 1	5.70	57.44	5188412.00	0.10	92.63	29726.00	0.00	78.73	3.08	-1000.00
40 1 4 67 1	17.70	58.03	5066366.00	0.10	91.92	28767.00	0.00	77.92	4.49	-1000.00
41 1 5 67 1	99.70	58.09	5162885.00	0.10	92.48	29726.00	0.00	77.85	44.14	-1000.00
42 1 6 67 1	208.30	57.08	5542183.00	0.10	94.67	28767.00	0.00	79.22	60.22	-1000.00
43 1 7 67 1	416.40	389.98	5600000.00	0.03	95.00	168888.10	0.00	79.58	96.35	-1000.00
44 1 8 67 1	512.70	508.07	5600000.00	0.03	95.00	167428.70	0.00	78.77	157.02	-1000.00
45 1 9 67 1	189.00	184.12	5600000.00	0.03	95.00	94463.59	0.00	80.65	61.29	-1000.00
46 1 10 67 1	107.20	102.77	5600000.00	0.03	95.00	54485.72	0.00	80.65	29.60	-1000.00
47 1 11 67 1	56.20	56.09	5590511.00	0.10	94.95	28767.00	0.00	80.62	16.71	-1000.00
48 1 12 67 1	34.10	56.25	5520323.00	0.10	94.54	29726.00	0.00	80.39	8.38	-1000.00

49	1	1	68	1	16.80	56.64	5400253.00	0.10	93.85	29726.00	0.00	79.84	4.35	-1000.00
50	1	2	68	1	11.00	57.16	5269768.00	0.10	93.09	27808.93	0.00	79.12	3.52	-1000.00
51	1	3	68	1	9.80	57.74	5122699.00	0.10	92.25	29726.00	0.00	78.32	2.63	-1000.00
52	1	4	68	1	12.40	58.35	4986260.00	0.10	91.46	28767.00	0.00	77.50	4.17	-1000.00

1														
LOC NO=														
				1.	1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
PER	DY	MO	YR	DW	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	DUM RES.	DUM RES.
					INFLOW	OUTFLOW	EOP STOR	CASE	EOP ELEV	ENERGY G	ENERGY S	POWER HE	NATURAL	DEQ-SHOR
53	1	5	68	1	42.60	58.77	4928305.00	0.10	91.12	29726.00	0.00	76.94	18.44	-1000.00
54	1	6	68	1	77.50	58.82	4964694.00	0.10	91.33	28767.00	0.00	76.88	26.21	-1000.00
55	1	7	68	1	238.20	57.72	5435716.00	0.10	94.05	29726.00	0.00	78.34	60.71	-1000.00
56	1	8	68	1	536.60	470.68	5600000.00	0.03	95.00	167138.90	0.00	78.60	165.14	-1000.00
57	1	9	68	1	215.70	210.82	5600000.00	0.03	95.00	108162.00	0.00	80.65	64.23	-1000.00
58	1	10	68	1	99.00	94.57	5600000.00	0.03	95.00	50138.49	0.00	80.65	27.80	-1000.00
59	1	11	68	1	38.60	56.18	5544680.00	0.10	94.68	28767.00	0.00	80.49	15.05	-1000.00
60	1	12	68	1	23.20	56.50	5444717.00	0.10	94.10	29726.00	0.00	80.04	8.16	-1000.00
61	1	1	69	1	17.60	56.95	5326087.00	0.10	93.42	29726.00	0.00	79.41	4.44	-1000.00
62	1	2	69	1	7.40	57.48	5190242.00	0.10	92.64	26850.00	0.00	78.68	3.45	-1000.00
63	1	3	69	1	5.00	58.11	5029529.00	0.10	91.71	29726.00	0.00	77.82	3.16	-1000.00
64	1	4	69	1	7.90	58.78	4880519.00	0.10	90.95	28767.00	0.00	76.93	3.90	-1000.00
65	1	5	69	1	24.20	59.36	4771967.00	0.10	90.22	29726.00	0.00	76.19	10.16	-1000.00
66	1	6	69	1	68.70	59.57	4783856.00	0.10	90.29	28767.00	0.00	75.91	23.92	-1000.00
67	1	7	69	1	158.30	58.98	5037958.00	0.10	91.76	29726.00	0.00	76.67	44.73	-1000.00
68	1	8	69	1	110.20	58.14	5165721.00	0.10	92.49	29726.00	0.00	77.78	20.17	-1000.00
69	1	9	69	1	486.90	314.60	5600000.00	0.03	95.00	158306.90	0.00	79.10	94.06	-1000.00
70	1	10	69	1	93.00	88.57	5600000.00	0.03	95.00	46957.59	0.00	80.65	26.48	-1000.00
71	1	11	69	1	74.80	71.03	5600000.00	0.03	95.00	36440.09	0.00	80.65	18.67	-1000.00
72	1	12	69	1	23.60	56.27	5501646.00	0.10	94.43	29726.00	0.00	80.37	8.17	-1000.00
73	1	1	70	1	14.70	56.73	5375749.00	0.10	93.71	29726.00	0.00	79.72	4.12	-1000.00
74	1	2	70	1	8.10	57.26	5242020.00	0.10	92.93	26850.00	0.00	78.97	3.46	-1000.00
75	1	3	70	1	15.30	57.83	5109497.00	0.10	92.17	29726.00	0.00	78.20	2.03	-1000.00
76	1	4	70	1	8.40	58.43	4962523.00	0.10	91.32	28767.00	0.00	77.40	3.93	-1000.00
77	1	5	70	1	14.30	59.05	4828152.00	0.10	90.55	29726.00	0.00	76.58	5.71	-1000.00
78	1	6	70	1	92.20	59.18	4901832.00	0.10	90.97	28767.00	0.00	76.41	30.03	-1000.00
79	1	7	70	1	197.90	58.23	5263748.00	0.10	93.06	29726.00	0.00	77.67	52.65	-1000.00
80	1	8	70	1	195.30	65.22	5600000.00	0.03	95.00	34160.31	0.00	79.68	49.10	-1000.00
81	1	9	70	1	194.10	189.22	5600000.00	0.03	95.00	97080.14	0.00	80.65	61.85	-1000.00
82	1	10	70	1	156.80	152.37	5600000.00	0.03	95.00	80781.16	0.00	80.65	40.52	-1000.00
83	1	11	70	1	75.60	71.83	5600000.00	0.03	95.00	36850.53	0.00	80.65	18.75	-1000.00
84	1	12	70	1	39.60	56.18	5544705.00	0.10	94.68	29726.00	0.00	80.49	8.49	-1000.00
85	1	1	71	1	15.50	56.54	5421365.00	0.10	93.97	29726.00	0.00	79.98	4.21	-1000.00
86	1	2	71	1	12.20	57.05	5297974.00	0.10	93.26	26850.00	0.00	79.26	3.54	-1000.00
87	1	3	71	1	8.10	57.63	5146587.00	0.10	92.38	29726.00	0.00	78.47	2.82	-1000.00
88	1	4	71	1	9.80	58.26	5003594.00	0.10	91.56	28767.00	0.00	77.62	4.02	-1000.00
89	1	5	71	1	18.90	58.84	4882017.00	0.10	90.86	29726.00	0.00	76.86	7.78	-1000.00
90	1	6	71	1	175.20	58.47	5172437.00	0.10	92.53	28767.00	0.00	77.35	51.61	-1000.00
91	1	7	71	1	146.40	57.36	5398413.00	0.10	93.84	29726.00	0.00	78.84	42.35	-1000.00
92	1	8	71	1	87.40	56.75	5468356.00	0.10	94.24	29726.00	0.00	79.69	12.42	-1000.00
93	1	9	71	1	91.40	56.44	5546457.00	0.10	94.69	28767.00	0.00	80.12	50.55	-1000.00
94	1	10	71	1	315.50	291.10	5600000.00	0.03	95.00	153870.50	0.00	80.41	75.43	-1000.00
95	1	11	71	1	63.30	59.53	5600000.00	0.03	95.00	30540.04	0.00	80.65	17.52	-1000.00

96	1	12	71	1	27.10	56.25	5511065.00	0.10	94.49	29726.00	0.00	80.39	8.24	-1000.00
97	1	1	72	1	16.50	56.68	5390101.00	0.10	93.79	29726.00	0.00	79.79	2.55	-1000.00
98	1	2	72	1	10.20	57.20	5257514.00	0.10	93.02	27808.93	0.00	79.06	1.12	-1000.00
99	1	3	72	1	8.00	57.80	5105491.00	0.10	92.15	29726.00	0.00	78.24	0.87	-1000.00
100	1	4	72	1	16.10	58.40	4978529.00	0.10	91.41	28767.00	0.00	77.43	4.40	-1000.00
101	1	5	72	1	13.30	58.98	4841627.00	0.10	90.62	29726.00	0.00	76.67	5.26	-1000.00
102	1	6	72	1	47.80	59.38	4799777.00	0.10	90.38	28767.00	0.00	76.15	18.49	-1000.00
103	1	7	72	1	163.60	58.88	5068313.00	0.10	91.93	29726.00	0.00	76.81	45.79	-1000.00
104	1	8	72	1	202.40	57.48	5444561.00	0.10	94.10	29726.00	0.00	78.67	51.52	-1000.00

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR				
105	1	9	72	1	165.60	100.80	5600000.00	0.03	95.00	51427.13	0.00	80.20	45.91	-1000.00
106	1	10	72	1	93.00	88.57	5600000.00	0.03	95.00	46957.59	0.00	80.65	16.71	-1000.00
107	1	11	72	1	81.80	78.03	5600000.00	0.03	95.00	40031.43	0.00	80.65	12.77	-1000.00
108	1	12	72	1	41.40	56.17	5549549.00	0.10	94.71	29726.00	0.00	80.50	5.56	-1000.00
109	1	1	73	1	16.80	56.52	5429752.00	0.10	94.02	29726.00	0.00	80.01	5.15	-1000.00
110	1	2	73	1	11.20	57.02	5304001.00	0.10	93.29	26850.00	0.00	79.31	3.80	-1000.00
111	1	3	73	1	7.20	57.61	5150247.00	0.10	92.41	29726.00	0.00	78.50	2.86	-1000.00
112	1	4	73	1	7.00	58.26	4999997.00	0.10	91.54	28767.00	0.00	77.62	1.39	-1000.00
113	1	5	73	1	10.80	58.90	4882354.00	0.10	90.71	29726.00	0.00	76.77	2.85	-1000.00
114	1	6	73	1	73.70	59.16	4882354.00	0.10	90.86	28767.00	0.00	76.44	23.88	-1000.00
115	1	7	73	1	241.60	58.06	5361709.00	0.10	93.63	29726.00	0.00	77.89	54.09	-1000.00
116	1	8	73	1	180.40	86.87	5600000.00	0.03	95.00	45659.88	0.00	79.96	38.79	-1000.00
117	1	9	73	1	147.40	142.52	5600000.00	0.03	95.00	73120.78	0.00	80.65	36.38	-1000.00
118	1	10	73	1	171.80	167.37	5600000.00	0.03	95.00	88733.40	0.00	80.65	32.38	-1000.00
119	1	11	73	1	160.90	157.13	5600000.00	0.03	95.00	80613.54	0.00	80.65	20.25	-1000.00
120	1	12	73	1	41.80	56.17	5550625.00	0.10	94.72	29726.00	0.00	80.51	8.77	-1000.00
121	1	1	74	1	48.50	56.34	5516139.00	0.10	94.52	29726.00	0.00	80.27	7.80	-1000.00
122	1	2	74	1	19.90	56.62	5412226.00	0.10	93.92	26850.00	0.00	79.87	3.75	-1000.00
123	1	3	74	1	15.20	57.11	5280962.00	0.10	93.16	29726.00	0.00	79.19	2.88	-1000.00
124	1	4	74	1	15.80	57.65	5154791.00	0.10	92.43	28767.00	0.00	78.45	4.32	-1000.00
125	1	5	74	1	38.80	58.06	5088262.00	0.10	92.05	29726.00	0.00	77.89	18.17	-1000.00
126	1	6	74	1	150.10	57.71	5315298.00	0.10	93.36	28767.00	0.00	78.35	37.54	-1000.00
127	1	7	74	1	98.60	57.03	5414010.00	0.10	93.93	29726.00	0.00	79.29	22.53	-1000.00
128	1	8	74	1	346.20	272.18	5600000.00	0.03	95.00	143335.90	0.00	80.11	101.83	-1000.00
129	1	9	74	1	149.30	144.42	5600000.00	0.03	95.00	74095.58	0.00	80.65	38.27	-1000.00
130	1	10	74	1	200.10	195.67	5600000.00	0.03	95.00	103736.60	0.00	80.65	56.70	-1000.00
131	1	11	74	1	152.40	148.63	5600000.00	0.03	95.00	76252.63	0.00	80.65	42.82	-1000.00
132	1	12	74	1	49.70	56.13	5571885.00	0.10	94.84	29726.00	0.00	80.57	8.28	-1000.00
133	1	1	75	1	16.70	56.43	5452028.00	0.10	94.15	29726.00	0.00	80.14	2.52	-1000.00
134	1	2	75	1	9.50	56.94	5322330.00	0.10	93.40	26850.00	0.00	79.42	1.72	-1000.00
135	1	3	75	1	9.80	57.51	5175737.00	0.10	92.55	29726.00	0.00	78.63	1.72	-1000.00
136	1	4	75	1	14.20	58.11	5044464.00	0.10	91.79	28767.00	0.00	77.82	2.43	-1000.00
137	1	5	75	1	26.20	58.61	4942943.00	0.10	91.21	29726.00	0.00	77.15	6.64	-1000.00
138	1	6	75	1	248.80	57.79	5425644.00	0.10	93.99	28767.00	0.00	78.25	72.53	-1000.00
139	1	7	75	1	54.90	56.82	5407805.00	0.10	93.89	29726.00	0.00	79.59	24.05	-1000.00
140	1	8	75	1	242.00	165.66	5600000.00	0.03	95.00	87223.23	0.00	80.10	48.49	-1000.00
141	1	9	75	1	103.00	98.12	5600000.00	0.03	95.00	50341.44	0.00	80.65	21.91	-1000.00
142	1	10	75	1	205.40	200.97	5600000.00	0.03	95.00	106546.40	0.00	80.65	47.74	-1000.00

143	1	11	75	1	123.50	119.73	5600000.00	0.03	95.00	61425.54	0.00	80.65	21.68	-1000.00
144	1	12	75	1	32.00	56.22	5524252.00	0.10	94.56	29726.00	0.00	80.43	4.96	-1000.00
145	1	1	76	1	11.90	56.65	5391033.00	0.10	93.79	29726.00	0.00	79.83	2.81	-1000.00
146	1	2	76	1	7.40	57.21	5251409.00	0.10	92.99	27808.93	0.00	79.04	2.28	-1000.00
147	1	3	76	1	6.00	57.84	5093949.00	0.10	92.08	29726.00	0.00	78.18	2.62	-1000.00
148	1	4	76	1	7.30	58.50	4943968.00	0.10	91.22	28767.00	0.00	77.30	2.53	-1000.00
149	1	5	76	1	90.00	58.68	5013180.00	0.10	91.61	29726.00	0.00	77.06	29.39	-1000.00
150	1	6	76	1	81.00	58.43	5059522.00	0.10	91.88	28767.00	0.00	77.40	27.31	-1000.00
151	1	7	76	1	144.10	57.86	5278197.00	0.10	93.14	29726.00	0.00	78.16	45.51	-1000.00
152	1	8	76	1	143.40	56.93	5497696.00	0.10	94.41	29726.00	0.00	79.43	33.23	-1000.00
153	1	9	76	1	298.20	253.88	5600000.00	0.03	95.00	129777.50	0.00	80.35	72.53	-1000.00
154	1	10	76	1	56.40	56.09	5588976.00	0.10	94.94	29726.00	0.00	80.62	10.97	-1000.00
155	1	11	76	1	91.80	83.78	5600000.00	0.03	95.00	42964.20	0.00	80.62	10.38	-1000.00
156	1	12	76	1	28.80	56.24	5515640.00	0.10	94.51	29726.00	0.00	80.41	5.04	-1000.00

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR				
157	1	1	77	1	13.20	56.68	5385839.00	0.10	93.76	29726.00	0.00	79.79	2.86	-1000.00
158	1	2	77	1	9.30	57.22	5255109.00	0.10	93.01	26850.00	0.00	79.04	2.09	-1000.00
159	1	3	77	1	7.50	57.81	5101719.00	0.10	92.13	29726.00	0.00	78.22	2.30	-1000.00
160	1	4	77	1	6.10	58.48	4948685.00	0.10	91.24	28767.00	0.00	77.33	2.60	-1000.00
161	1	5	77	1	21.00	59.07	4832210.00	0.10	90.57	29726.00	0.00	76.56	6.19	-1000.00
162	1	6	77	1	33.10	59.51	4751967.00	0.10	90.11	28767.00	0.00	75.99	7.29	-1000.00
163	1	7	77	1	42.20	59.83	4693128.00	0.10	89.77	29726.00	0.00	75.59	9.96	-1000.00
164	1	8	77	1	235.30	58.92	5154137.00	0.10	92.43	29726.00	0.00	76.75	60.43	-1000.00
165	1	9	77	1	263.90	87.14	5600000.00	0.03	95.00	43992.51	0.00	79.36	69.53	-1000.00
166	1	10	77	1	104.20	99.77	5600000.00	0.03	95.00	52895.27	0.00	80.65	19.55	-1000.00
167	1	11	77	1	149.30	145.53	5600000.00	0.03	95.00	74662.19	0.00	80.65	14.04	-1000.00
168	1	12	77	1	26.70	56.25	5509989.00	0.10	94.48	29726.00	0.00	80.39	4.81	-1000.00
169	1	1	78	1	10.60	56.71	5373138.00	0.10	93.69	29726.00	0.00	79.74	2.78	-1000.00
170	1	2	78	1	7.20	57.28	5237200.00	0.10	92.91	26850.00	0.00	78.95	1.78	-1000.00
171	1	3	78	1	5.40	57.90	5077996.00	0.10	91.99	29726.00	0.00	78.10	0.94	-1000.00
172	1	4	78	1	9.70	58.56	4934118.00	0.10	91.16	28767.00	0.00	77.22	1.92	-1000.00
173	1	5	78	1	24.50	59.11	4826918.00	0.10	90.54	29726.00	0.00	76.50	8.24	-1000.00
174	1	6	78	1	144.70	58.88	5037348.00	0.10	91.75	28767.00	0.00	76.80	42.82	-1000.00
175	1	7	78	1	202.40	57.62	5412726.00	0.10	93.92	29726.00	0.00	78.49	55.58	-1000.00
176	1	8	78	1	296.90	222.40	5600000.00	0.03	95.00	117115.80	0.00	80.11	86.54	-1000.00
177	1	9	78	1	328.70	323.82	5600000.00	0.03	95.00	164829.80	0.00	80.27	77.93	-1000.00
178	1	10	78	1	148.20	143.77	5600000.00	0.03	95.00	76221.86	0.00	80.65	39.17	-1000.00
179	1	11	78	1	36.10	56.20	5538170.00	0.10	94.64	28767.00	0.00	80.47	11.46	-1000.00
180	1	12	78	1	18.50	56.55	5425495.00	0.10	93.99	29726.00	0.00	79.97	5.00	-1000.00
181	1	1	79	1	12.30	57.05	5292418.00	0.10	93.23	29726.00	0.00	79.26	3.29	-1000.00
182	1	2	79	1	9.50	57.61	5161391.00	0.10	92.47	26850.00	0.00	78.50	2.51	-1000.00
183	1	3	79	1	8.60	58.21	5010098.00	0.10	91.60	29726.00	0.00	77.68	2.58	-1000.00
184	1	4	79	1	9.90	58.86	4866116.00	0.10	90.77	28767.00	0.00	76.83	7.10	-1000.00
185	1	5	79	1	63.10	59.19	4862137.00	0.10	90.74	29726.00	0.00	76.40	21.07	-1000.00
186	1	6	79	1	70.20	59.16	4878849.00	0.10	90.84	28767.00	0.00	76.44	22.84	-1000.00
187	1	7	79	1	388.30	114.41	5600000.00	0.03	95.00	59090.60	0.00	78.57	80.57	-1000.00
188	1	8	79	1	329.40	324.77	5600000.00	0.03	95.00	170306.00	0.00	80.26	56.70	-1000.00
189	1	9	79	1	167.10	162.22	5600000.00	0.03	95.00	83227.84	0.00	80.65	50.15	-1000.00

190	1	10	79	1	258.40	253.97	5600000.00	0.03	95.00	134644.40	0.00	80.65	54.46	-1000.00
191	1	11	79	1	50.50	56.12	5575668.00	0.10	94.86	28767.00	0.00	80.58	7.95	-1000.00
192	1	12	79	1	20.40	56.39	5468468.00	0.10	94.24	29726.00	0.00	80.20	4.81	-1000.00
193	1	1	80	1	15.20	56.86	5343604.00	0.10	93.52	29726.00	0.00	79.53	7.09	-1000.00
194	1	2	80	1	11.00	57.39	5212627.00	0.10	92.77	27808.93	0.00	78.79	4.58	-1000.00
195	1	3	80	1	8.00	57.99	5060193.00	0.10	91.89	29726.00	0.00	77.98	2.95	-1000.00
196	1	4	80	1	7.50	58.65	4910423.00	0.10	91.02	28767.00	0.00	77.10	3.17	-1000.00
197	1	5	80	1	25.20	59.22	4804868.00	0.10	90.41	29726.00	0.00	76.37	7.98	-1000.00
198	1	6	80	1	98.40	59.25	4894465.00	0.10	90.93	28767.00	0.00	76.32	25.96	-1000.00
199	1	7	80	1	281.20	57.78	5480533.00	0.10	94.31	29726.00	0.00	78.27	63.78	-1000.00
200	1	8	80	1	267.70	218.50	5600000.00	0.03	95.00	115341.50	0.00	80.31	64.53	-1000.00
201	1	9	80	1	308.60	303.72	5600000.00	0.03	95.00	155462.40	0.00	80.46	71.76	-1000.00
202	1	10	80	1	131.80	127.37	5600000.00	0.03	95.00	67527.41	0.00	80.65	36.33	-1000.00
203	1	11	80	1	98.80	95.03	5600000.00	0.03	95.00	48753.25	0.00	80.65	26.85	-1000.00
204	1	12	80	1	33.10	56.22	5527212.00	0.10	94.58	29726.00	0.00	80.44	12.83	-1000.00
205	1	1	81	1	11.80	56.64	5393752.00	0.10	93.81	29726.00	0.00	79.85	3.73	-1000.00
206	1	2	81	1	7.80	57.19	5259444.00	0.10	93.04	26850.00	0.00	79.07	4.13	-1000.00
207	1	3	81	1	6.00	57.80	5102057.00	0.10	92.13	29726.00	0.00	78.23	3.19	-1000.00
208	1	4	81	1	7.20	58.47	4951890.00	0.10	91.26	28767.00	0.00	77.34	4.01	-1000.00

1
 LOC NO= 1. 1. 1. 1. 1. 1. 1. 1. 2. 2.

PER	DY	MO	YR	DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR
209	1	5	81	1	16.40	59.08	4823065.00	0.10	90.52	29726.00	0.00	76.54	10.59	-1000.00
210	1	6	81	1	173.20	58.74	5107695.00	0.10	92.16	28767.00	0.00	76.99	50.93	-1000.00
211	1	7	81	1	74.60	58.05	5139773.00	0.10	92.34	29726.00	0.00	77.90	24.62	-1000.00
212	1	8	81	1	76.50	57.90	5177845.00	0.10	92.56	29726.00	0.00	78.10	16.26	-1000.00
213	1	9	81	1	101.10	57.60	5278508.00	0.10	93.15	28767.00	0.00	78.50	30.40	-1000.00
214	1	10	81	1	52.70	57.44	5254427.00	0.10	93.01	29726.00	0.00	78.73	18.80	-1000.00
215	1	11	81	1	92.20	57.32	5335408.00	0.10	93.47	28767.00	0.00	78.89	28.20	-1000.00
216	1	12	81	1	34.30	57.30	5263269.00	0.10	93.06	29726.00	0.00	78.92	11.45	-1000.00
217	1	1	82	1	10.50	57.75	5123777.00	0.10	92.25	29726.00	0.00	78.30	4.70	-1000.00
218	1	2	82	1	6.50	58.35	4984014.00	0.10	91.45	26850.00	0.00	77.50	5.20	-1000.00
219	1	3	82	1	4.90	59.02	4821090.00	0.10	90.51	29726.00	0.00	76.63	4.36	-1000.00
220	1	4	82	1	9.60	59.71	4674540.00	0.10	89.66	28767.00	0.00	75.73	6.17	-1000.00
221	1	5	82	1	25.70	60.29	4567888.00	0.10	89.05	29726.00	0.00	75.00	10.37	-1000.00
222	1	6	82	1	36.10	60.72	4492701.00	0.10	88.61	28767.00	0.00	74.48	16.09	-1000.00
223	1	7	82	1	271.10	59.61	5047453.00	0.10	91.81	29726.00	0.00	75.86	72.36	-1000.00
224	1	8	82	1	206.10	57.55	5433454.00	0.10	94.04	29726.00	0.00	78.58	55.20	-1000.00
225	1	9	82	1	191.70	122.62	5600000.00	0.03	95.00	62533.65	0.00	80.17	53.63	-1000.00
226	1	10	82	1	66.10	61.67	5600000.00	0.03	95.00	32696.56	0.00	80.65	24.66	-1000.00
227	1	11	82	1	38.30	56.18	5543898.00	0.10	94.68	28767.00	0.00	80.49	16.13	-1000.00
228	1	12	82	1	21.60	56.51	5439622.00	0.10	94.07	29726.00	0.00	80.03	9.85	-1000.00
229	1	1	83	1	14.60	56.98	5312870.00	0.10	93.34	29726.00	0.00	79.36	5.41	-1000.00
230	1	2	83	1	9.40	57.52	5181772.00	0.10	92.59	26850.00	0.00	78.62	5.99	-1000.00
231	1	3	83	1	5.90	58.14	5023403.00	0.10	91.67	29726.00	0.00	77.78	4.29	-1000.00
232	1	4	83	1	3.20	58.84	4862097.00	0.10	90.74	28767.00	0.00	76.86	3.18	-1000.00
233	1	5	83	1	23.70	59.44	4752011.00	0.10	90.11	29726.00	0.00	76.08	14.51	-1000.00
234	1	6	83	1	83.70	59.58	4802775.00	0.10	90.40	28767.00	0.00	75.90	31.48	-1000.00
235	1	7	83	1	111.70	59.17	4931609.00	0.10	91.14	29726.00	0.00	76.42	38.42	-1000.00
236	1	8	83	1	208.00	58.04	5321569.00	0.10	93.39	29726.00	0.00	77.92	58.93	-1000.00

237	1	9	83	1	164.40	56.66	5588411.00	0.10	94.93	28767.00	0.00	79.81	49.38	-1000.00
238	1	10	83	1	181.90	173.15	5600000.00	0.03	95.00	91757.51	0.00	80.62	48.86	-1000.00
239	1	11	83	1	106.50	102.73	5600000.00	0.03	95.00	52703.72	0.00	80.65	27.31	-1000.00
240	1	12	83	1	27.40	56.25	5511872.00	0.10	94.49	29726.00	0.00	80.40	10.52	-1000.00
241	1	1	84	1	12.70	56.69	5380690.00	0.10	93.73	29726.00	0.00	79.76	4.85	-1000.00
242	1	2	84	1	9.20	57.25	5245506.00	0.10	92.95	27808.93	0.00	78.99	5.37	-1000.00
243	1	3	84	1	6.10	57.86	5088261.00	0.10	92.05	29726.00	0.00	78.15	5.26	-1000.00
244	1	4	84	1	8.50	58.52	4941353.00	0.10	91.20	28767.00	0.00	77.27	5.75	-1000.00
245	1	5	84	1	29.20	59.05	4846878.00	0.10	90.66	29726.00	0.00	76.58	11.00	-1000.00
246	1	6	84	1	112.30	58.98	4973107.00	0.10	91.38	28767.00	0.00	76.67	43.21	-1000.00
247	1	7	84	1	136.30	58.27	5169920.00	0.10	92.52	29726.00	0.00	77.60	36.52	-1000.00
248	1	8	84	1	323.70	158.61	5600000.00	0.03	95.00	82795.76	0.00	79.41	75.35	-1000.00
249	1	9	84	1	177.50	172.62	5600000.00	0.03	95.00	88563.53	0.00	80.65	46.68	-1000.00
250	1	10	84	1	146.00	141.57	5600000.00	0.03	95.00	75055.53	0.00	80.65	42.90	-1000.00
251	1	11	84	1	36.70	56.19	5539732.00	0.10	94.65	28767.00	0.00	80.48	12.89	-1000.00
252	1	12	84	1	28.00	56.49	5452640.00	0.10	94.15	29726.00	0.00	80.05	8.80	-1000.00
253	1	1	85	1	14.90	56.93	5326819.00	0.10	93.42	29726.00	0.00	79.44	4.40	-1000.00
254	1	2	85	1	9.80	57.46	5196810.00	0.10	92.67	26850.00	0.00	78.70	4.87	-1000.00
255	1	3	85	1	7.10	58.07	5041809.00	0.10	91.78	29726.00	0.00	77.88	3.58	-1000.00
256	1	4	85	1	8.00	58.73	4893172.00	0.10	90.92	28767.00	0.00	77.00	7.52	-1000.00
257	1	5	85	1	15.70	59.35	4761867.00	0.10	90.16	29726.00	0.00	76.19	12.46	-1000.00
258	1	6	85	1	137.70	59.22	4953409.00	0.10	91.27	28767.00	0.00	76.37	42.82	-1000.00
259	1	7	85	1	49.70	58.87	4916886.00	0.10	91.06	29726.00	0.00	76.81	16.19	-1000.00
260	1	8	85	1	175.10	58.29	5218131.00	0.10	92.80	29726.00	0.00	77.58	45.88	-1000.00

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEG-SHOR				
261	1	9	85	1	138.90	57.23	5417614.00	0.10	93.95	28767.00	0.00	79.02	46.30	-1000.00
262	1	10	85	1	159.80	87.33	5600000.00	0.03	95.00	45994.53	0.00	80.12	59.68	-1000.00
263	1	11	85	1	64.00	60.23	5600000.00	0.03	95.00	30899.17	0.00	80.65	24.15	-1000.00
264	1	12	85	1	25.70	56.26	5507297.00	0.10	94.47	29726.00	0.00	80.38	11.67	-1000.00
265	1	1	86	1	8.20	56.74	5363963.00	0.10	93.64	29726.00	0.00	79.70	3.28	-1000.00
266	1	2	86	1	8.00	57.32	5229892.00	0.10	92.86	26850.00	0.00	78.90	3.63	-1000.00
267	1	3	86	1	12.50	57.89	5089725.00	0.10	92.06	29726.00	0.00	78.11	2.39	-1000.00
268	1	4	86	1	11.50	58.50	4950642.00	0.10	91.25	28767.00	0.00	77.30	3.17	-1000.00
269	1	5	86	1	94.20	58.63	5031225.00	0.10	91.72	29726.00	0.00	77.14	54.83	-1000.00
270	1	6	86	1	66.90	58.43	5041018.00	0.10	91.78	28767.00	0.00	77.40	34.72	-1000.00
271	1	7	86	1	143.10	57.94	5256817.00	0.10	93.02	29726.00	0.00	78.05	63.41	-1000.00
272	1	8	86	1	363.80	231.13	5600000.00	0.03	95.00	121031.40	0.00	79.66	154.42	-1000.00
273	1	9	86	1	152.20	147.32	5600000.00	0.03	95.00	75583.41	0.00	80.65	130.40	-1000.00
274	1	10	86	1	107.60	103.17	5600000.00	0.03	95.00	54697.78	0.00	80.65	39.91	-1000.00
275	1	11	86	1	60.30	56.53	5600000.00	0.03	95.00	29000.89	0.00	80.65	27.04	-1000.00
276	1	12	86	1	22.10	56.28	5497609.00	0.10	94.41	29726.00	0.00	80.35	11.71	-1000.00
277	1	1	87	1	10.90	56.76	5361448.00	0.10	93.62	29726.00	0.00	79.67	3.70	-1000.00
278	1	2	87	1	8.10	57.33	5227600.00	0.10	92.85	26850.00	0.00	78.89	3.50	-1000.00
279	1	3	87	1	9.20	57.92	5078532.00	0.10	91.99	29726.00	0.00	78.07	2.70	-1000.00
280	1	4	87	1	13.80	58.53	4945335.00	0.10	91.22	28767.00	0.00	77.26	4.30	-1000.00
281	1	5	87	1	33.10	59.01	4861399.00	0.10	90.74	29726.00	0.00	76.63	14.20	-1000.00
282	1	6	87	1	68.80	59.17	4874456.00	0.10	90.81	28767.00	0.00	76.43	24.00	-1000.00
283	1	7	87	1	26.40	59.36	4774376.00	0.10	90.24	29726.00	0.00	76.18	18.40	-1000.00

284	1	8	87	1	118.50	59.26	4921758.00	0.10	91.09	29726.00	0.00	76.31	23.00	-1000.00
285	1	9	87	1	84.40	58.81	4976430.00	0.10	91.40	28767.00	0.00	76.89	49.80	-1000.00
286	1	10	87	1	68.10	58.66	4990740.00	0.10	91.49	29726.00	0.00	77.09	21.00	-1000.00
287	1	11	87	1	59.10	58.64	4982860.00	0.10	91.44	28767.00	0.00	77.11	17.10	-1000.00
288	1	12	87	1	32.40	58.84	4901986.00	0.10	90.97	29726.00	0.00	76.86	8.40	-1000.00
289	1	1	88	1	28.40	59.23	4807026.00	0.10	90.43	29726.00	0.00	76.35	5.60	-1000.00
290	1	2	88	1	28.00	59.65	4713926.00	0.10	89.89	27808.93	0.00	75.81	3.90	-1000.00
291	1	3	88	1	27.50	60.11	4609178.00	0.10	89.28	29726.00	0.00	75.24	0.70	-1000.00
292	1	4	88	1	42.80	60.49	4547031.00	0.10	88.93	28767.00	0.00	74.75	6.00	-1000.00
293	1	5	88	1	72.70	60.59	4565576.00	0.10	89.03	29726.00	0.00	74.63	32.00	-1000.00
294	1	6	88	1	80.50	60.46	4606062.00	0.10	89.27	28767.00	0.00	74.80	27.00	-1000.00
295	1	7	88	1	123.00	60.00	4763231.00	0.10	90.17	29726.00	0.00	75.37	37.70	-1000.00
296	1	8	88	1	86.70	59.50	4824869.00	0.10	90.53	29726.00	0.00	76.00	12.20	-1000.00
297	1	9	88	1	159.80	58.81	5074986.00	0.10	91.97	28767.00	0.00	76.90	58.10	-1000.00
298	1	10	88	1	186.40	57.55	5408764.00	0.10	93.90	29726.00	0.00	78.58	47.00	-1000.00
299	1	11	88	1	104.70	56.61	5523783.00	0.10	94.56	28767.00	0.00	79.88	21.70	-1000.00
300	1	12	88	1	30.20	56.54	5442459.00	0.10	94.09	29726.00	0.00	79.98	8.30	-1000.00
301	1	1	89	1	24.90	56.91	5343452.00	0.10	93.52	29726.00	0.00	79.46	5.20	-1000.00
302	1	2	89	1	16.50	57.36	5229859.00	0.10	92.86	26850.00	0.00	78.94	3.60	-1000.00
303	1	3	89	1	30.10	57.79	5137046.00	0.10	92.33	29726.00	0.00	78.25	0.40	-1000.00
304	1	4	89	1	38.00	58.14	5067392.00	0.10	91.93	28767.00	0.00	77.78	5.70	-1000.00
305	1	5	89	1	114.30	58.00	5203215.00	0.10	92.71	29726.00	0.00	77.97	50.70	-1000.00
306	1	6	89	1	107.80	57.46	5321178.00	0.10	93.39	28767.00	0.00	78.70	34.10	-1000.00
307	1	7	89	1	147.40	56.74	5551276.00	0.10	94.72	29726.00	0.00	79.71	42.50	-1000.00
308	1	8	89	1	315.50	292.69	5600000.00	0.03	95.00	154716.30	0.00	80.41	90.00	-1000.00
309	1	9	89	1	145.80	140.92	5600000.00	0.03	95.00	72299.91	0.00	80.65	56.50	-1000.00
310	1	10	89	1	141.70	137.27	5600000.00	0.03	95.00	72775.89	0.00	80.65	37.20	-1000.00
311	1	11	89	1	68.30	64.53	5600000.00	0.03	95.00	33105.28	0.00	80.65	18.00	-1000.00
312	1	12	89	1	47.90	56.14	5567041.00	0.10	94.81	29726.00	0.00	80.55	8.70	-1000.00

1

LOC NO= 1. 1. 1. 1. 1. 1. 1. 1. 2. 2.

PER	DY	MO	YR	DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR
313	1	1	90	1	25.10	56.40	5469742.00	0.10	94.25	29726.00	0.00	80.18	5.30	-1000.00
314	1	2	90	1	8.70	56.87	5338246.00	0.10	93.49	26850.00	0.00	79.52	3.50	-1000.00
315	1	3	90	1	19.40	57.39	5217624.00	0.10	92.79	29726.00	0.00	78.79	1.60	-1000.00
316	1	4	90	1	22.50	57.88	5108335.00	0.10	92.16	28767.00	0.00	78.13	4.80	-1000.00
317	1	5	90	1	56.90	58.15	5090070.00	0.10	92.06	29726.00	0.00	77.76	24.90	-1000.00
318	1	6	90	1	112.00	57.92	5217897.00	0.10	92.80	28767.00	0.00	78.08	35.20	-1000.00
319	1	7	90	1	84.80	57.52	5278523.00	0.10	93.15	29726.00	0.00	78.62	30.00	-1000.00
320	1	8	90	1	156.50	56.86	5533280.00	0.10	94.62	29726.00	0.00	79.53	35.90	-1000.00
321	1	9	90	1	183.00	152.40	5600000.00	0.03	95.00	78002.45	0.00	80.46	60.60	-1000.00
322	1	10	90	1	168.40	163.97	5600000.00	0.03	95.00	86930.88	0.00	80.65	30.50	-1000.00
323	1	11	90	1	85.30	81.53	5600000.00	0.03	95.00	41827.10	0.00	80.65	17.10	-1000.00
324	1	12	90	1	41.70	56.17	5550356.00	0.10	94.71	29726.00	0.00	80.51	8.20	-1000.00
325	1	1	91	1	32.10	56.43	5471738.00	0.10	94.26	29726.00	0.00	80.14	6.03	-1000.00
326	1	2	91	1	12.50	56.84	5349489.00	0.10	93.55	26850.00	0.00	79.56	3.55	-1000.00
327	1	3	91	1	21.80	57.33	5235424.00	0.10	92.90	29726.00	0.00	78.88	1.31	-1000.00
328	1	4	91	1	23.80	57.80	5129678.00	0.10	92.29	28767.00	0.00	78.24	4.86	-1000.00
329	1	5	91	1	40.80	58.16	5068288.00	0.10	91.93	29726.00	0.00	77.76	17.61	-1000.00
330	1	6	91	1	46.70	58.38	5025829.00	0.10	91.69	28767.00	0.00	77.46	18.20	-1000.00

331	1	7	91	1	122.00	58.13	5184679.00	0.10	92.60	29726.00	0.00	77.80	37.46	-1000.00
332	1	8	91	1	202.50	56.99	5562333.00	0.10	94.78	29726.00	0.00	79.34	51.55	-1000.00
333	1	9	91	1	195.50	176.10	5600000.00	0.03	95.00	90226.59	0.00	80.54	62.00	-1000.00
334	1	10	91	1	109.20	104.77	5600000.00	0.03	95.00	55546.02	0.00	80.65	30.05	-1000.00
335	1	11	91	1	43.20	56.16	5556658.00	0.10	94.75	28767.00	0.00	80.52	15.51	-1000.00
336	1	12	91	1	28.00	56.42	5469730.00	0.10	94.25	29726.00	0.00	80.15	8.26	-1000.00
SUM =					29994.09	27959.01	*****	27.58	31282.06	14064500.00	90511.61	26450.31	8433.34	-336000.00
MAX =					536.60	508.07	5600000.00	0.10	95.00	170306.00	25536.05	80.65	165.14	0.00
MIN =					3.20	8.71	4300000.00	0.03	87.50	4189.95	0.00	73.15	0.40	0.00
PMAX=					56.00	44.00	10.00	1.00	10.00	188.00	3.00	11.00	56.00	1.00
AVG =					89.27	83.21	5270906.00	0.08	93.10	41858.63	269.38	78.72	25.10	0.00
PMIN=					232.00	3.00	1.00	10.00	1.00	3.00	5.00	1.00	303.00	1.00

1

*USERS. 2 USER DESIGNED OUTPUT

SUMMARY BY PERIOD FLOOD= 1														
LOC NO=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.				
CODE=	3.020	4.040	4.060	4.240	5.040	5.240	5.060	6.020	7.040	7.060				
PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR				
1	1	1	64	1	19.08	19.08	0.00	0.00	108.64	64.93	0.00	213.80	322.44	0.00
2	1	2	64	1	12.67	13.85	2.35	1.18	46.42	13.22	0.00	44.98	91.40	0.00
3	1	3	64	1	6.48	20.61	0.00	14.13	31.39	0.00	0.00	22.73	54.12	0.00
4	1	4	64	1	6.24	19.30	0.00	13.06	34.28	0.00	0.00	23.28	57.56	0.00
5	1	5	64	1	23.08	40.43	0.00	17.35	143.93	2.90	0.00	61.41	205.34	0.00
6	1	6	64	1	19.55	21.42	0.00	1.87	111.49	3.36	0.00	73.12	184.61	0.00
7	1	7	64	1	11.61	11.61	0.00	0.00	94.06	0.00	0.00	22.57	116.63	0.00
8	1	8	64	1	72.35	86.07	0.00	13.72	243.85	0.00	0.00	187.78	431.63	0.00
9	1	9	64	1	46.53	46.53	0.00	0.00	186.46	20.90	0.00	207.80	394.26	0.00
10	1	10	64	1	40.67	51.31	0.00	10.64	280.05	51.26	0.00	237.92	517.97	0.00
11	1	11	64	1	79.72	113.22	0.00	33.50	447.53	145.72	0.00	347.75	795.28	0.00
12	1	12	64	1	47.78	55.71	0.00	7.93	187.89	63.08	0.00	569.03	756.92	0.00
13	1	1	65	1	18.85	18.85	0.00	0.00	143.89	63.67	0.00	210.64	354.53	0.00
14	1	2	65	1	9.35	10.65	5.55	1.30	81.52	10.54	0.00	39.28	120.80	0.00
15	1	3	65	1	6.67	21.41	0.00	14.74	80.66	0.00	0.00	22.77	103.43	0.00
16	1	4	65	1	11.35	48.26	0.00	36.91	111.40	0.00	0.00	26.09	137.49	0.00
17	1	5	65	1	20.70	34.86	0.00	14.16	129.62	3.45	0.00	59.98	189.60	0.00
18	1	6	65	1	56.70	56.70	0.00	0.00	294.01	33.49	0.00	168.07	462.08	0.00
19	1	7	65	1	48.84	82.95	0.00	34.11	627.49	43.00	0.00	372.50	999.99	0.00
20	1	8	65	1	36.05	36.05	0.00	0.00	280.08	32.26	0.00	123.43	403.51	0.00
21	1	9	65	1	56.61	58.56	0.00	1.95	449.57	44.59	0.00	272.44	722.01	0.00
22	1	10	65	1	35.65	44.98	0.00	9.33	256.78	42.09	0.00	236.67	493.45	0.00
23	1	11	65	1	59.34	83.44	0.00	24.10	301.86	84.50	0.00	307.00	608.86	0.00
24	1	12	65	1	49.06	57.00	0.00	7.94	192.11	64.48	0.00	581.66	773.77	0.00
25	1	1	66	1	63.47	63.47	0.00	0.00	437.77	307.62	0.00	823.30	1261.07	0.00

26	1	2	66	1	10.43	11.69	4.51	1.26	83.05	11.42	0.00	41.14	124.19	0.00
27	1	3	66	1	4.46	11.86	2.64	7.40	71.22	0.00	0.00	22.34	93.56	0.00
28	1	4	66	1	6.22	19.14	0.00	12.92	80.92	0.00	0.00	23.26	104.18	0.00
29	1	5	66	1	26.96	49.51	0.00	22.55	156.53	2.00	0.00	63.70	220.23	0.00
30	1	6	66	1	17.19	19.89	0.00	2.70	100.28	1.44	0.00	67.10	167.38	0.00
31	1	7	66	1	24.27	28.54	0.00	4.27	150.72	12.54	0.00	141.58	292.30	0.00
32	1	8	66	1	49.84	49.84	0.00	0.00	368.16	22.54	0.00	147.88	516.04	0.00
33	1	9	66	1	34.35	34.35	0.00	0.00	174.87	0.00	0.00	129.61	304.48	0.00
34	1	10	66	1	23.36	29.46	0.00	6.10	156.37	19.67	0.00	233.60	389.97	0.00
35	1	11	66	1	53.97	75.59	0.00	21.62	263.46	68.36	0.00	296.26	559.72	0.00
36	1	12	66	1	74.13	82.30	0.00	8.17	274.95	91.93	0.00	330.05	1105.00	0.00
37	1	1	67	1	9.88	11.62	0.00	1.74	86.82	14.64	0.00	87.48	174.30	0.00
38	1	2	67	1	3.74	5.22	10.98	1.48	71.51	5.98	0.00	29.61	101.12	0.00
39	1	3	67	1	2.25	2.31	12.19	0.06	66.33	3.50	0.00	21.90	88.23	0.00
40	1	4	67	1	6.56	21.11	0.00	14.55	83.63	0.00	0.00	23.45	107.08	0.00
41	1	5	67	1	25.40	45.86	0.00	20.46	150.46	2.37	0.00	62.80	213.26	0.00
42	1	6	67	1	43.77	43.77	0.00	0.00	184.08	23.01	0.00	135.04	319.12	0.00
43	1	7	67	1	49.37	83.32	0.00	33.95	614.25	44.60	0.00	377.52	991.77	0.00
44	1	8	67	1	110.47	150.15	0.00	39.68	815.24	0.00	0.00	255.36	1070.60	0.00
45	1	9	67	1	45.69	45.69	0.00	0.00	309.95	18.85	0.00	202.37	512.32	0.00
46	1	10	67	1	28.31	35.70	0.00	7.39	196.77	28.70	0.00	234.83	431.60	0.00
47	1	11	67	1	34.82	47.61	0.00	12.79	130.33	9.92	0.00	257.96	388.29	0.00
48	1	12	67	1	22.20	29.89	0.00	7.69	129.58	35.06	0.00	315.59	445.17	0.00
49	1	1	68	1	11.03	12.23	0.00	1.20	94.12	20.90	0.00	103.30	197.42	0.00
50	1	2	68	1	5.61	7.03	9.17	1.42	75.21	7.50	0.00	32.83	108.04	0.00
51	1	3	68	1	4.14	10.47	4.03	6.33	70.84	0.00	0.00	22.27	93.11	0.00
52	1	4	68	1	5.03	12.38	0.00	7.35	74.90	0.00	0.00	22.60	97.50	0.00

1

LOC NO=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.				
PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEG-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEG-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEG-SHOR				
53	1	5	68	1	13.98	19.14	0.00	5.16	101.33	4.98	0.00	55.95	157.28	0.00
54	1	6	68	1	20.23	21.86	0.00	1.63	110.80	3.91	0.00	74.87	185.67	0.00
55	1	7	68	1	31.55	44.43	0.00	12.88	184.70	21.84	0.00	210.01	394.71	0.00
56	1	8	68	1	115.73	158.99	0.00	43.26	794.81	0.00	0.00	264.68	1059.49	0.00
57	1	9	68	1	48.89	48.89	0.00	0.00	350.34	26.40	0.00	222.93	573.27	0.00
58	1	10	68	1	26.34	33.22	0.00	6.88	180.69	25.10	0.00	234.34	415.03	0.00
59	1	11	68	1	28.02	37.66	0.00	9.64	108.89	0.00	0.00	244.40	353.29	0.00
60	1	12	68	1	12.93	20.54	0.00	7.61	110.12	24.92	0.00	223.81	333.93	0.00
61	1	1	69	1	11.95	12.71	0.00	0.76	100.05	25.95	0.00	115.90	215.95	0.00
62	1	2	69	1	3.02	4.53	11.67	1.51	70.85	5.39	0.00	28.37	99.22	0.00
63	1	3	69	1	1.93	1.93	12.57	0.00	67.63	4.43	0.00	21.84	89.47	0.00
64	1	4	69	1	3.72	4.98	0.00	1.26	69.07	1.41	0.00	21.88	90.95	0.00
65	1	5	69	1	10.30	10.53	0.00	0.23	85.87	5.82	0.00	53.74	139.61	0.00
66	1	6	69	1	18.65	20.83	0.00	2.18	106.95	2.63	0.00	70.82	177.77	0.00
67	1	7	69	1	23.56	27.00	0.00	3.44	142.34	11.63	0.00	134.90	277.24	0.00
68	1	8	69	1	21.92	21.92	0.00	0.00	138.60	38.37	0.00	98.39	236.99	0.00
69	1	9	69	1	81.44	93.18	0.00	11.74	604.94	103.10	0.00	431.80	1036.74	0.00
70	1	10	69	1	24.90	31.40	0.00	6.50	168.92	22.47	0.00	233.98	402.90	0.00
71	1	11	69	1	42.86	59.35	0.00	16.49	184.03	34.98	0.00	274.04	458.07	0.00
72	1	12	69	1	13.27	20.88	0.00	7.61	110.61	25.29	0.00	227.18	337.79	0.00

73	1	1	70	1	8.61	10.95	0.00	2.34	94.78	22.98	0.00	70.60	165.38	0.00
74	1	2	70	1	3.52	5.01	11.19	1.49	76.63	10.90	0.00	24.40	101.03	0.00
75	1	3	70	1	6.67	21.41	0.00	14.74	81.27	0.00	0.00	30.60	111.87	0.00
76	1	4	70	1	3.87	5.80	0.00	1.93	77.51	9.35	0.00	20.40	97.91	0.00
77	1	5	70	1	8.32	8.32	0.00	0.00	85.44	12.36	0.00	28.00	113.44	0.00
78	1	6	70	1	22.88	23.58	0.00	0.70	135.52	22.73	0.00	59.80	195.32	0.00
79	1	7	70	1	27.52	35.64	0.00	8.12	179.52	33.00	0.00	93.30	272.82	0.00
80	1	8	70	1	40.65	40.65	0.00	0.00	198.72	43.75	0.00	171.40	370.12	0.00
81	1	9	70	1	46.30	46.30	0.00	0.00	323.24	25.87	0.00	160.90	484.14	0.00
82	1	10	70	1	40.21	50.74	0.00	10.53	296.86	53.23	0.00	212.80	509.66	0.00
83	1	11	70	1	43.19	59.83	0.00	16.64	201.73	51.32	0.00	679.00	880.73	0.00
84	1	12	70	1	26.87	34.61	0.00	7.74	147.17	47.89	0.00	161.70	308.87	0.00
85	1	1	71	1	9.54	11.44	0.00	1.90	82.10	9.91	0.00	63.50	145.60	0.00
86	1	2	71	1	6.47	7.87	8.33	1.40	71.86	3.40	0.00	23.10	94.96	0.00
87	1	3	71	1	3.36	7.09	7.41	3.73	67.54	0.00	0.00	14.60	82.14	0.00
88	1	4	71	1	4.27	8.11	0.00	3.84	70.39	0.00	0.00	14.30	84.69	0.00
89	1	5	71	1	9.24	9.24	0.00	0.00	76.56	0.70	0.00	18.70	95.26	0.00
90	1	6	71	1	37.82	37.82	0.00	0.00	166.91	19.01	0.00	26.60	193.51	0.00
91	1	7	71	1	22.37	24.38	0.00	2.01	173.84	49.75	0.00	39.20	213.04	0.00
92	1	8	71	1	16.91	16.91	0.00	0.00	116.17	30.09	0.00	33.60	149.77	0.00
93	1	9	71	1	33.98	33.98	0.00	0.00	140.97	0.00	0.00	49.80	190.77	0.00
94	1	10	71	1	78.30	98.83	0.00	20.53	593.39	128.03	0.00	194.90	788.29	0.00
95	1	11	71	1	38.14	52.46	0.00	14.32	169.84	40.33	0.00	117.30	287.14	0.00
96	1	12	71	1	16.25	23.89	0.00	7.64	115.86	27.48	0.00	165.80	281.66	0.00
97	1	1	72	1	9.34	11.76	0.00	2.42	82.44	11.45	0.00	50.40	132.84	0.00
98	1	2	72	1	4.96	6.46	9.74	1.50	70.31	5.53	0.00	22.70	93.01	0.00
99	1	3	72	1	2.99	6.82	7.68	3.83	65.69	0.20	0.00	14.90	80.59	0.00
100	1	4	72	1	6.56	18.57	0.00	12.01	81.37	0.00	0.00	23.90	105.27	0.00
101	1	5	72	1	7.09	7.09	0.00	0.00	75.25	3.92	0.00	23.90	99.15	0.00
102	1	6	72	1	24.69	24.69	0.00	0.00	102.56	0.00	0.00	27.40	129.96	0.00
103	1	7	72	1	31.74	31.74	0.00	0.00	136.41	0.00	0.00	35.80	172.21	0.00
104	1	8	72	1	31.37	33.11	0.00	1.74	153.08	10.97	0.00	44.10	197.18	0.00

1
LOC NO=

PER	DY	MO	YR	DW	DUM RES. NATURAL	CP-4 (X) FLOW REG	CP-4 (X) DEQ-SHOR	CP-4 (X) LOCAL IN	CP-5 (X) FLOW REG	CP-5 (X) LOCAL IN	CP-5 (X) DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR
105	1	9	72	1	33.18	37.37	0.00	4.19	191.82	7.74	0.00	131.60	323.42	0.00
106	1	10	72	1	29.87	32.46	0.00	2.59	170.75	33.01	0.00	221.80	392.55	0.00
107	1	11	72	1	33.18	60.89	0.00	27.71	163.57	11.88	0.00	231.90	395.47	0.00
108	1	12	72	1	30.25	36.54	0.00	6.29	126.38	28.11	0.00	214.70	341.08	0.00
109	1	1	73	1	9.71	11.95	0.00	2.24	89.82	16.20	0.00	79.50	169.32	0.00
110	1	2	73	1	6.20	7.26	8.94	1.06	77.09	9.01	0.00	33.50	110.59	0.00
111	1	3	73	1	4.11	5.54	8.96	1.43	72.53	6.52	0.00	23.20	95.73	0.00
112	1	4	73	1	2.31	3.26	1.04	0.95	62.91	0.00	0.00	13.10	76.01	0.00
113	1	5	73	1	5.97	5.97	0.00	0.00	75.80	8.08	0.00	41.10	116.90	0.00
114	1	6	73	1	15.82	20.63	0.00	4.81	103.67	0.00	0.00	82.90	186.57	0.00
115	1	7	73	1	41.45	47.20	0.00	5.75	182.70	23.35	0.00	201.60	384.30	0.00
116	1	8	73	1	43.31	43.31	0.00	0.00	212.72	43.75	0.00	174.40	387.12	0.00
117	1	9	73	1	61.73	61.73	0.00	0.00	286.87	46.24	0.00	201.00	487.87	0.00
118	1	10	73	1	25.02	51.31	0.00	26.29	339.59	88.53	0.00	201.60	541.19	0.00
119	1	11	73	1	36.27	107.79	0.00	71.52	478.47	193.30	0.00	405.50	883.97	0.00

120	1	12	73	1	23.52	36.42	0.00	12.90	156.07	54.71	0.00	280.80	436.87	0.00
121	1	1	74	1	48.17	76.98	0.00	28.81	322.10	180.98	0.00	809.10	1131.20	0.00
122	1	2	74	1	12.40	12.98	3.22	0.58	89.32	15.97	0.00	94.30	183.62	0.00
123	1	3	74	1	7.09	7.92	6.58	0.83	74.58	6.67	0.00	48.50	123.08	0.00
124	1	4	74	1	4.24	4.64	0.00	0.40	68.04	1.43	0.00	19.70	87.74	0.00
125	1	5	74	1	14.56	16.14	0.00	1.58	99.32	6.95	0.00	56.40	155.72	0.00
126	1	6	74	1	32.02	35.79	0.00	3.77	140.81	9.77	0.00	59.40	200.21	0.00
127	1	7	74	1	19.04	20.34	0.00	1.30	99.90	0.00	0.00	68.00	167.90	0.00
128	1	8	74	1	66.84	74.36	0.00	7.52	468.93	20.56	0.00	110.50	579.43	0.00
129	1	9	74	1	25.08	27.49	0.00	2.41	236.08	25.90	0.00	145.40	381.48	0.00
130	1	10	74	1	35.85	41.82	0.00	5.97	351.69	57.50	0.00	252.80	604.49	0.00
131	1	11	74	1	77.93	111.64	0.00	33.71	386.49	83.40	0.00	368.80	755.29	0.00
132	1	12	74	1	37.34	52.28	0.00	14.94	159.78	43.09	0.00	230.40	390.18	0.00
133	1	1	75	1	11.20	13.11	0.00	1.91	94.38	22.32	0.00	44.40	138.78	0.00
134	1	2	75	1	6.20	7.40	8.80	1.20	73.60	7.54	0.00	24.00	97.60	0.00
135	1	3	75	1	4.11	5.61	8.89	1.50	69.68	4.84	0.00	16.00	85.68	0.00
136	1	4	75	1	6.56	7.58	0.00	1.02	74.52	6.40	0.00	33.60	108.12	0.00
137	1	5	75	1	10.08	11.66	0.00	1.58	86.99	10.08	0.00	64.20	151.19	0.00
138	1	6	75	1	55.17	61.78	0.00	6.61	198.33	6.23	0.00	199.80	398.13	0.00
139	1	7	75	1	16.06	16.06	0.00	0.00	96.93	0.00	0.00	119.10	216.03	0.00
140	1	8	75	1	51.09	53.59	0.00	2.50	302.64	34.90	0.00	146.00	448.64	0.00
141	1	9	75	1	48.23	48.23	0.00	0.00	171.08	2.82	0.00	137.00	308.08	0.00
142	1	10	75	1	57.88	63.82	0.00	5.94	395.87	83.34	0.00	207.20	603.07	0.00
143	1	11	75	1	68.67	104.70	0.00	36.03	333.59	87.48	0.00	301.30	634.89	0.00
144	1	12	75	1	25.39	32.92	0.00	7.53	128.48	34.38	0.00	140.80	269.28	0.00
145	1	1	76	1	6.35	9.73	0.00	3.38	69.19	0.00	0.00	61.20	130.39	0.00
146	1	2	76	1	2.89	4.64	11.56	1.75	70.96	6.83	0.00	27.30	98.26	0.00
147	1	3	76	1	1.87	2.88	11.62	1.01	67.02	3.68	0.00	17.90	84.92	0.00
148	1	4	76	1	4.63	4.63	0.00	0.00	69.09	3.43	0.00	20.40	89.49	0.00
149	1	5	76	1	21.28	42.56	0.00	21.28	143.63	13.00	0.00	73.20	216.83	0.00
150	1	6	76	1	20.45	22.33	0.00	1.88	112.57	4.50	0.00	81.80	194.37	0.00
151	1	7	76	1	23.90	24.30	0.00	0.40	134.55	6.88	0.00	61.20	195.75	0.00
152	1	8	76	1	26.14	26.14	0.00	0.00	153.79	37.49	0.00	101.90	255.69	0.00
153	1	9	76	1	66.74	66.74	0.00	0.00	446.50	53.35	0.00	198.30	644.80	0.00
154	1	10	76	1	17.18	20.83	0.00	3.65	101.90	14.01	0.00	173.60	275.50	0.00
155	1	11	76	1	47.07	70.85	0.00	23.78	233.79	68.78	0.00	233.00	466.79	0.00
156	1	12	76	1	11.58	25.13	0.00	13.55	121.39	34.98	0.00	180.30	301.69	0.00

1

LOC NO=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.				
PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR				
157	1	1	77	1	7.47	13.40	0.00	5.93	72.94	0.00	0.00	43.70	116.64	0.00
158	1	2	77	1	4.13	7.80	8.40	3.67	73.25	6.14	0.00	26.00	99.25	0.00
159	1	3	77	1	2.99	6.18	8.32	3.19	67.89	1.60	0.00	19.00	86.89	0.00
160	1	4	77	1	1.54	2.50	1.80	0.96	67.23	3.65	0.00	18.90	86.13	0.00
161	1	5	77	1	7.09	7.09	0.00	0.00	83.36	11.01	0.00	23.50	106.86	0.00
162	1	6	77	1	8.10	8.33	0.00	0.23	88.69	13.56	0.00	27.80	116.49	0.00
163	1	7	77	1	7.09	7.86	0.00	0.77	77.65	0.00	0.00	37.00	114.65	0.00
164	1	8	77	1	48.92	49.31	0.00	0.39	192.75	24.09	0.00	63.10	255.85	0.00
165	1	9	77	1	55.17	57.15	0.00	1.98	254.92	41.10	0.00	115.70	370.62	0.00
166	1	10	77	1	30.99	37.49	0.00	6.50	193.05	36.24	0.00	194.50	387.55	0.00

167	1	11	77	1	125.00	125.00	0.00	0.00	419.41	134.84	0.00	252.30	671.71	0.00
168	1	12	77	1	12.70	23.01	0.00	10.31	118.00	33.93	0.00	107.50	225.50	0.00
169	1	1	78	1	4.48	4.81	4.39	0.33	64.30	0.00	0.00	38.80	103.10	0.00
170	1	2	78	1	2.89	2.89	13.31	0.00	71.27	9.32	0.00	23.20	94.47	0.00
171	1	3	78	1	2.24	2.24	12.26	0.00	67.06	5.98	0.00	17.20	84.26	0.00
172	1	4	78	1	6.17	11.03	0.00	4.86	71.51	0.00	0.00	30.10	101.61	0.00
173	1	5	78	1	9.71	11.74	0.00	2.03	85.93	6.84	0.00	70.90	156.83	0.00
174	1	6	78	1	23.53	24.13	0.00	0.60	145.80	19.97	0.00	104.60	250.40	0.00
175	1	7	78	1	28.01	30.25	0.00	2.24	167.77	24.32	0.00	158.30	326.07	0.00
176	1	8	78	1	63.48	68.92	0.00	5.44	391.50	13.64	0.00	152.70	544.20	0.00
177	1	9	78	1	65.97	72.25	0.00	6.28	529.25	55.25	0.00	195.20	724.45	0.00
178	1	10	78	1	32.86	40.41	0.00	7.55	280.98	57.63	0.00	193.00	473.98	0.00
179	1	11	78	1	13.89	17.75	0.00	3.86	94.71	9.30	0.00	164.70	259.41	0.00
180	1	12	78	1	7.84	10.21	0.00	2.37	104.10	32.34	0.00	98.20	202.30	0.00
181	1	1	79	1	6.72	14.48	0.00	7.76	74.82	0.00	0.00	41.40	116.22	0.00
182	1	2	79	1	4.13	8.76	7.44	4.63	73.79	4.91	0.00	25.60	99.39	0.00
183	1	3	79	1	2.99	9.29	5.21	6.30	70.08	0.00	0.00	25.00	95.08	0.00
184	1	4	79	1	3.47	6.71	0.00	3.24	72.67	0.00	0.00	23.50	96.17	0.00
185	1	5	79	1	21.66	29.81	0.00	8.15	121.12	11.05	0.00	33.60	154.72	0.00
186	1	6	79	1	23.53	33.65	0.00	10.12	115.65	0.00	0.00	71.00	186.65	0.00
187	1	7	79	1	85.51	97.20	0.00	11.69	332.10	39.92	0.00	308.40	640.50	0.00
188	1	8	79	1	79.16	87.69	0.00	8.53	511.17	42.01	0.00	248.70	759.87	0.00
189	1	9	79	1	42.05	42.05	0.00	0.00	274.92	20.50	0.00	227.20	502.12	0.00
190	1	10	79	1	81.77	85.75	0.00	3.98	502.35	108.17	0.00	234.50	736.85	0.00
191	1	11	79	1	63.66	82.83	0.00	19.17	146.90	0.00	0.00	205.60	352.50	0.00
192	1	12	79	1	15.31	27.81	0.00	12.50	106.40	17.39	0.00	95.60	202.00	0.00
193	1	1	80	1	5.97	7.63	1.57	1.66	101.83	30.25	0.00	61.60	163.43	0.00
194	1	2	80	1	2.89	4.12	12.08	1.23	92.32	26.23	0.00	47.10	139.42	0.00
195	1	3	80	1	1.87	5.89	8.61	4.02	84.99	18.16	0.00	36.20	121.19	0.00
196	1	4	80	1	1.93	2.66	1.64	0.73	80.69	16.21	0.00	30.10	110.79	0.00
197	1	5	80	1	10.83	11.96	0.00	1.13	96.96	17.80	0.00	63.80	160.76	0.00
198	1	6	80	1	23.53	25.82	0.00	2.29	136.26	25.23	0.00	176.70	312.96	0.00
199	1	7	80	1	38.46	40.88	0.00	2.42	233.84	71.40	0.00	460.70	694.54	0.00
200	1	8	80	1	58.25	58.25	0.00	0.00	363.10	21.82	0.00	408.10	771.20	0.00
201	1	9	80	1	57.10	60.73	0.00	3.63	580.70	144.49	0.00	591.40	1172.10	0.00
202	1	10	80	1	43.69	48.57	0.00	4.88	307.25	94.98	0.00	316.20	623.45	0.00
203	1	11	80	1	36.27	48.16	0.00	11.89	276.64	106.60	0.00	286.30	562.94	0.00
204	1	12	80	1	21.28	29.16	0.00	7.88	164.86	66.65	0.00	146.00	310.86	0.00
205	1	1	81	1	7.47	9.85	0.00	2.38	78.03	7.81	0.00	45.50	123.53	0.00
206	1	2	81	1	4.13	5.05	11.15	0.92	70.65	4.28	0.00	21.10	91.75	0.00
207	1	3	81	1	3.73	3.73	10.77	0.00	69.22	4.50	0.00	17.20	86.42	0.00
208	1	4	81	1	6.17	6.17	0.00	0.00	92.03	23.38	0.00	23.50	115.53	0.00

1	LOC NO=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.			
PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X) FLOW REG	CP-4 (X) DEQ-SHOR	CP-4 (X) LOCAL IN	CP-5 (X) FLOW REG	CP-5 (X) LOCAL IN	CP-5 (X) DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR				
209	1	5	81	1	13.07	13.07	0.00	0.00	123.54	40.80	0.00	91.80	215.34	0.00
210	1	6	81	1	41.28	41.28	0.00	0.00	201.01	50.06	0.00	145.10	346.11	0.00
211	1	7	81	1	15.31	15.31	0.00	0.00	128.11	30.13	0.00	50.80	178.91	0.00
212	1	8	81	1	17.55	17.55	0.00	0.00	99.74	8.03	0.00	31.70	131.44	0.00
213	1	9	81	1	28.94	28.94	0.00	0.00	132.37	15.43	0.00	71.00	203.37	0.00

214	1	10	81	1	17.55	19.86	0.00	2.31	101.50	5.40	0.00	95.60	197.10	0.00
215	1	11	81	1	42.44	70.41	0.00	27.97	237.20	81.27	0.00	237.30	474.50	0.00
216	1	12	81	1	25.39	31.16	0.00	5.77	99.91	0.00	0.00	291.20	391.11	0.00
217	1	1	82	1	3.79	8.81	0.39	5.02	72.58	1.32	0.00	39.20	111.78	0.00
218	1	2	82	1	2.37	4.03	12.17	1.66	67.58	0.00	0.00	17.80	85.38	0.00
219	1	3	82	1	1.88	1.88	12.62	0.00	65.26	0.00	0.00	9.00	74.26	0.00
220	1	4	82	1	4.21	8.09	0.00	3.88	77.19	3.22	0.00	30.90	108.09	0.00
221	1	5	82	1	10.60	11.29	0.00	0.69	81.95	0.00	0.00	80.60	162.55	0.00
222	1	6	82	1	12.78	17.39	0.00	4.61	94.20	0.00	0.00	130.80	225.00	0.00
223	1	7	82	1	34.84	53.07	0.00	18.23	284.65	99.61	0.00	270.30	554.95	0.00
224	1	8	82	1	43.02	43.02	0.00	0.00	227.53	71.76	0.00	205.00	432.53	0.00
225	1	9	82	1	46.01	46.01	0.00	0.00	334.74	112.48	0.00	187.10	521.84	0.00
226	1	10	82	1	18.44	23.67	0.00	5.23	136.24	26.24	0.00	239.30	375.54	0.00
227	1	11	82	1	27.89	38.32	0.00	10.43	141.19	30.56	0.00	258.50	399.69	0.00
228	1	12	82	1	11.57	19.83	0.00	8.26	109.17	22.98	0.00	102.30	211.47	0.00
229	1	1	83	1	8.50	11.10	0.00	2.60	79.69	6.20	0.00	49.30	128.99	0.00
230	1	2	83	1	4.46	6.05	10.15	1.59	74.09	4.53	0.00	51.70	125.79	0.00
231	1	3	83	1	2.34	2.74	11.76	0.40	67.39	2.22	0.00	22.80	90.19	0.00
232	1	4	83	1	2.36	2.36	1.94	0.00	67.34	2.96	0.00	9.30	76.64	0.00
233	1	5	83	1	10.20	10.30	0.00	0.10	86.02	1.77	0.00	27.30	113.32	0.00
234	1	6	83	1	21.35	22.70	0.00	1.35	115.32	1.56	0.00	84.90	200.22	0.00
235	1	7	83	1	18.90	18.90	0.00	0.00	119.58	3.09	0.00	102.70	222.28	0.00
236	1	8	83	1	43.44	43.44	0.00	0.00	183.70	23.29	0.00	169.10	352.80	0.00
237	1	9	83	1	42.74	42.74	0.00	0.00	170.24	21.46	0.00	203.30	373.54	0.00
238	1	10	83	1	46.24	59.40	0.00	13.16	343.64	62.23	0.00	290.80	634.44	0.00
239	1	11	83	1	55.86	78.73	0.00	22.87	265.57	56.80	0.00	244.60	510.17	0.00
240	1	12	83	1	16.50	24.27	0.00	7.77	113.09	22.05	0.00	89.00	202.09	0.00
241	1	1	84	1	6.31	9.80	0.00	3.49	78.18	6.84	0.00	160.50	238.68	0.00
242	1	2	84	1	4.31	5.80	10.40	1.49	112.14	43.72	0.00	50.80	162.94	0.00
243	1	3	84	1	2.44	3.12	11.38	0.68	124.78	58.54	0.00	41.80	166.58	0.00
244	1	4	84	1	3.90	6.00	0.00	2.10	70.27	0.00	0.00	27.80	98.07	0.00
245	1	5	84	1	11.30	12.89	0.00	1.59	82.94	0.00	0.00	85.10	168.04	0.00
246	1	6	84	1	26.49	26.49	0.00	0.00	130.16	1.48	0.00	109.20	239.36	0.00
247	1	7	84	1	21.36	22.21	0.00	0.85	151.66	34.66	0.00	159.40	311.06	0.00
248	1	8	84	1	68.89	80.46	0.00	11.57	365.41	50.99	0.00	84.40	449.81	0.00
249	1	9	84	1	44.31	44.31	0.00	0.00	314.91	51.30	0.00	120.40	435.31	0.00
250	1	10	84	1	37.62	47.63	0.00	10.01	263.85	31.75	0.00	264.00	527.85	0.00
251	1	11	84	1	27.24	36.68	0.00	9.44	106.14	0.38	0.00	115.70	221.84	0.00
252	1	12	84	1	17.01	24.78	0.00	7.77	131.22	41.15	0.00	297.20	428.42	0.00
253	1	1	85	1	8.85	11.11	0.00	2.26	72.44	0.00	0.00	53.80	126.24	0.00
254	1	2	85	1	4.75	6.22	9.98	1.47	68.55	0.00	0.00	23.10	91.65	0.00
255	1	3	85	1	2.90	5.14	9.36	2.24	66.79	0.00	0.00	14.20	80.99	0.00
256	1	4	85	1	3.75	5.17	0.00	1.42	80.69	9.27	0.00	29.70	110.39	0.00
257	1	5	85	1	8.60	8.60	0.00	0.00	88.94	8.53	0.00	103.40	192.34	0.00
258	1	6	85	1	31.07	31.07	0.00	0.00	164.64	31.53	0.00	134.30	298.94	0.00
259	1	7	85	1	12.70	12.70	0.00	0.00	87.76	0.00	0.00	56.80	144.56	0.00
260	1	8	85	1	36.20	36.20	0.00	0.00	140.37	0.00	0.00	67.60	207.97	0.00

1	LOC NO=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.
	PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR

261	1	9	85	1	39.68	39.68	0.00	0.00	143.21	0.00	0.00	134.30	277.51	0.00
262	1	10	85	1	40.93	51.83	0.00	10.90	201.19	2.35	0.00	276.30	477.49	0.00
263	1	11	85	1	38.43	53.39	0.00	14.96	143.11	5.34	0.00	240.40	383.51	0.00
264	1	12	85	1	15.06	22.81	0.00	7.75	90.74	0.00	0.00	131.00	221.74	0.00
265	1	1	86	1	1.14	7.11	2.09	5.97	74.39	7.26	0.00	60.10	134.49	0.00
266	1	2	86	1	3.45	4.96	11.24	1.51	65.91	0.00	0.00	31.80	97.71	0.00
267	1	3	86	1	5.38	16.02	0.00	10.64	76.30	0.00	0.00	21.30	97.60	0.00
268	1	4	86	1	4.77	11.01	0.00	6.24	72.68	0.00	0.00	15.00	87.68	0.00
269	1	5	86	1	24.30	43.61	0.00	19.31	157.07	0.00	0.00	71.70	228.77	0.00
270	1	6	86	1	18.32	20.66	0.00	2.34	113.81	0.00	0.00	69.40	183.21	0.00
271	1	7	86	1	22.04	23.71	0.00	1.67	145.06	0.00	0.00	136.60	281.66	0.00
272	1	8	86	1	77.72	95.38	0.00	17.66	480.93	0.00	0.00	221.80	702.73	0.00
273	1	9	86	1	41.27	41.27	0.00	0.00	348.28	29.29	0.00	413.20	761.48	0.00
274	1	10	86	1	28.40	35.95	0.00	7.55	203.75	24.72	0.00	445.00	648.75	0.00
275	1	11	86	1	36.91	50.90	0.00	13.99	198.50	64.03	0.00	326.80	525.30	0.00
276	1	12	86	1	12.00	19.73	0.00	7.73	151.48	63.76	0.00	172.10	323.58	0.00
277	1	1	87	1	4.30	8.75	0.45	4.45	78.80	9.59	0.00	78.80	157.60	0.00
278	1	2	87	1	3.50	5.04	11.16	1.54	102.10	36.23	0.00	39.70	141.80	0.00
279	1	3	87	1	3.90	9.41	5.09	5.51	106.53	36.50	0.00	20.90	127.43	0.00
280	1	4	87	1	5.40	14.87	0.00	9.47	77.70	0.00	0.00	15.80	93.50	0.00
281	1	5	87	1	12.10	14.74	0.00	2.64	105.70	17.75	0.00	32.50	138.20	0.00
282	1	6	87	1	18.70	20.89	0.00	2.19	130.13	26.07	0.00	64.80	194.93	0.00
283	1	7	87	1	10.40	10.40	0.00	0.00	153.73	65.57	0.00	22.40	176.13	0.00
284	1	8	87	1	23.70	23.70	0.00	0.00	187.54	81.58	0.00	140.80	328.34	0.00
285	1	9	87	1	33.10	33.10	0.00	0.00	196.77	55.06	0.00	147.80	344.57	0.00
286	1	10	87	1	18.90	23.93	0.00	5.03	128.95	25.36	0.00	173.20	302.15	0.00
287	1	11	87	1	36.40	50.21	0.00	13.81	168.11	42.16	0.00	226.10	394.21	0.00
288	1	12	87	1	20.80	28.57	0.00	7.77	126.95	31.14	0.00	316.60	443.55	0.00
289	1	1	88	1	24.40	24.40	0.00	0.00	166.93	77.70	0.00	71.70	238.63	0.00
290	1	2	88	1	17.80	18.85	0.00	1.05	104.20	21.80	0.00	34.30	138.50	0.00
291	1	3	88	1	12.30	46.26	0.00	33.96	107.07	0.00	0.00	23.90	130.97	0.00
292	1	4	88	1	13.80	63.19	0.00	49.39	129.68	0.00	0.00	24.30	153.98	0.00
293	1	5	88	1	20.00	33.46	0.00	13.46	129.07	3.02	0.00	65.70	194.77	0.00
294	1	6	88	1	20.80	22.24	0.00	1.44	129.10	19.40	0.00	28.20	157.30	0.00
295	1	7	88	1	20.30	20.30	0.00	0.00	139.66	21.66	0.00	134.00	273.66	0.00
296	1	8	88	1	16.80	16.80	0.00	0.00	115.87	27.37	0.00	129.20	245.07	0.00
297	1	9	88	1	42.20	42.20	0.00	0.00	203.96	44.85	0.00	271.60	475.56	0.00
298	1	10	88	1	47.30	59.91	0.00	12.61	212.64	48.18	0.00	281.90	494.54	0.00
299	1	11	88	1	55.10	77.65	0.00	22.55	173.56	17.60	0.00	548.60	722.16	0.00
300	1	12	88	1	18.90	26.71	0.00	7.81	122.20	30.65	0.00	249.40	371.60	0.00
301	1	1	89	1	20.30	20.30	0.00	0.00	141.68	59.27	0.00	21.20	162.88	0.00
302	1	2	89	1	9.60	10.90	5.30	1.30	81.62	9.76	0.00	13.70	95.32	0.00
303	1	3	89	1	13.50	51.43	0.00	37.93	109.62	0.00	0.00	12.10	121.72	0.00
304	1	4	89	1	12.40	55.15	0.00	42.75	118.99	0.00	0.00	27.90	146.89	0.00
305	1	5	89	1	28.30	53.11	0.00	24.81	163.28	1.47	0.00	51.90	215.18	0.00
306	1	6	89	1	25.70	25.70	0.00	0.00	143.63	26.37	0.00	54.00	197.63	0.00
307	1	7	89	1	22.50	24.65	0.00	2.15	141.05	17.16	0.00	80.30	221.35	0.00
308	1	8	89	1	67.10	77.39	0.00	10.29	522.91	62.83	0.00	115.40	638.31	0.00
309	1	9	89	1	40.50	40.50	0.00	0.00	277.82	39.90	0.00	158.20	436.02	0.00
310	1	10	89	1	36.60	46.33	0.00	9.73	324.76	103.96	0.00	280.80	605.56	0.00
311	1	11	89	1	40.20	55.70	0.00	15.50	245.42	107.19	0.00	212.60	458.02	0.00
312	1	12	89	1	33.90	41.83	0.00	7.93	135.10	28.43	0.00	43.30	178.40	0.00

LOC NO=		3.	4.	4.	4.	5.	5.	5.	6.	7.	7.
	PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR
313	1 1 90 1	20.60	20.60	0.00	0.00	142.69	60.39	0.00	119.20	261.89	0.00
314	1 2 90 1	3.90	5.41	10.79	1.51	70.75	4.97	0.00	63.20	133.95	0.00
315	1 3 90 1	8.60	29.97	0.00	21.37	88.96	0.00	0.00	61.50	150.46	0.00
316	1 4 90 1	7.90	29.30	0.00	21.40	91.98	0.00	0.00	47.20	139.18	0.00
317	1 5 90 1	16.80	25.97	0.00	9.17	112.52	3.50	0.00	86.50	199.02	0.00
318	1 6 90 1	26.40	26.40	0.00	0.00	148.13	28.61	0.00	123.10	271.23	0.00
319	1 7 90 1	16.20	16.20	0.00	0.00	118.02	14.30	0.00	89.60	207.62	0.00
320	1 8 90 1	32.10	32.10	0.00	0.00	179.49	54.63	0.00	187.20	366.69	0.00
321	1 9 90 1	45.00	45.00	0.00	0.00	290.09	32.09	0.00	202.50	492.59	0.00
322	1 10 90 1	42.98	54.42	0.00	11.44	263.58	14.69	0.00	436.90	700.48	0.00
323	1 11 90 1	47.16	65.95	0.00	18.79	166.31	1.73	0.00	709.70	876.01	0.00
324	1 12 90 1	28.68	36.57	0.00	7.89	149.35	48.41	0.00	376.30	525.65	0.00
325	1 1 91 1	28.64	28.64	0.00	0.00	187.67	96.57	0.00	345.02	532.69	0.00
326	1 2 91 1	6.68	8.09	8.11	1.41	75.37	6.89	0.00	34.68	110.05	0.00
327	1 3 91 1	9.67	34.80	0.00	25.13	93.44	0.00	0.00	23.35	116.79	0.00
328	1 4 91 1	8.34	31.57	0.00	23.23	94.23	0.00	0.00	24.43	118.66	0.00
329	1 5 91 1	13.61	18.35	0.00	4.74	98.22	4.10	0.00	55.70	153.92	0.00
330	1 6 91 1	14.69	18.32	0.00	3.63	94.90	0.00	0.00	60.71	155.61	0.00
331	1 7 91 1	19.93	19.93	0.00	0.00	121.25	5.73	0.00	100.74	221.99	0.00
332	1 8 91 1	42.23	42.23	0.00	0.00	173.76	22.99	0.00	134.39	308.15	0.00
333	1 9 91 1	46.47	46.47	0.00	0.00	301.61	17.04	0.00	207.37	508.98	0.00
334	1 10 91 1	28.79	36.44	0.00	7.65	195.63	24.37	0.00	234.95	430.58	0.00
335	1 11 91 1	29.89	40.58	0.00	10.69	112.25	0.00	0.00	248.11	360.36	0.00
336	1 12 91 1	17.04	24.81	0.00	7.77	113.75	24.26	0.00	264.48	378.23	0.00
SUM =		8435.43	10684.37	440.95	2248.94	55749.07	8672.35	0.00	46457.69	102206.80	0.00
MAX =		125.00	158.99	13.31	71.52	315.24	307.62	0.00	830.05	1261.07	0.00
MIN =		1.14	1.88	0.00	0.00	31.39	0.00	0.00	9.00	54.12	0.00
PMAX=		167.00	56.00	170.00	119.00	44.00	25.00	1.00	36.00	25.00	1.00
AVG =		25.11	31.80	1.31	6.69	165.92	25.81	0.00	138.27	304.19	0.00
PMIN=		265.00	219.00	1.00	1.00	3.00	3.00	1.00	219.00	3.00	1.00

COMPUTATION INTERVAL IN HOURS= 24.00

*FLOOD 2

***** FLOOD NUMBER 2 *****

UNITS OF OUTPUT

NFLRD= 2 NFLCON= 0
IFLRD = 2 IFLCON= 1
FLOWS MULTIPLIED BY 1.000

ALL FLOWS AND EVAPORATION IN CFS OR CMS
RESERVOIR STORAGES IN ACRE FEET OR 1000 CU METERS
ELEVATIONS IN FEET OR METERS
ENERGY IN 1000 KWH EXCEPT WHEN IPER LT 24 HOURS-IN KWH

1

*USERS. 1 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 2									
LOC NO=	CODE=	1.	1.	1.	1.	1.	1.	1.	1.	2.	2.
		1.090	1.100	1.110	1.120	1.220	1.160	1.230	1.330	2.020	2.060
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY 6	RAJJAPRA ENERGY 9	RAJJAPRA POWER HE	DUM RES. NATURAL	DUM RES. DEQ-SHOR	
1 4 1 75 7	39.00	56.60	5467763.00	0.10	94.24	958.90	0.00	79.89	6.00	-1000.00	
2 5 1 75 1	45.00	56.61	5466314.00	0.10	94.23	958.90	0.00	79.88	19.00	-1000.00	
3 6 1 75 2	105.00	56.60	5470049.00	0.10	94.25	958.90	0.00	79.89	13.00	-1000.00	
4 7 1 75 3	89.00	56.59	5472403.00	0.10	94.26	958.90	0.00	79.91	10.00	-1000.00	
5 8 1 75 4	68.00	56.59	5472943.00	0.10	94.27	958.90	0.00	79.92	8.00	-1000.00	
6 9 1 75 5	102.00	56.58	5476421.00	0.10	94.29	958.90	0.00	79.93	11.00	-1000.00	
7 10 1 75 6	133.00	56.56	5482579.00	0.10	94.32	958.90	0.00	79.95	13.00	-1000.00	
8 11 1 75 7	94.00	56.54	5485368.00	0.10	94.34	958.90	0.00	79.98	12.00	-1000.00	
9 12 1 75 1	67.00	56.53	5485825.00	0.10	94.34	958.90	0.00	79.99	10.00	-1000.00	
10 13 1 75 2	56.00	56.53	5485332.00	0.10	94.34	958.90	0.00	79.99	8.00	-1000.00	
11 14 1 75 3	50.00	56.54	5484320.00	0.10	94.33	958.90	0.00	79.99	8.00	-1000.00	
12 15 1 75 4	47.00	56.54	5483049.00	0.10	94.33	958.90	0.00	79.98	5.00	-1000.00	
13 16 1 75 5	43.00	56.55	5481431.00	0.10	94.32	958.90	0.00	79.97	11.00	-1000.00	
14 17 1 75 6	40.00	56.55	5479554.00	0.10	94.31	958.90	0.00	79.96	10.00	-1000.00	
15 18 1 75 7	38.00	56.56	5477504.00	0.10	94.29	958.90	0.00	79.95	10.00	-1000.00	
16 19 1 75 1	36.00	56.57	5475280.00	0.10	94.28	958.90	0.00	79.94	8.00	-1000.00	
17 20 1 75 2	34.00	56.58	5472882.00	0.10	94.27	958.90	0.00	79.92	7.00	-1000.00	
SUM =	1086.00	961.62	93119010.00	1.70	1603.01	16301.30	0.00	1359.04	169.00	-17000.00	
MAX =	133.00	56.61	5485825.00	0.10	94.34	958.90	0.00	79.99	19.00	0.00	
MIN =	34.00	56.53	5466314.00	0.10	94.23	958.90	0.00	79.88	5.00	0.00	
PMAX=	7.00	2.00	9.00	1.00	8.00	1.00	1.00	9.00	2.00	1.00	
AVG =	63.88	56.57	5477589.00	0.10	94.29	958.90	0.00	79.94	9.94	0.00	
PMIN=	17.00	9.00	2.00	1.00	2.00	1.00	1.00	2.00	12.00	1.00	

1

*USERS. 2 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 2									
LOC NO=	CODE=	3.	4.	4.	4.	5.	5.	5.	6.	7.	7.
		3.020	4.040	4.060	4.240	5.040	5.240	5.060	6.020	7.040	7.060
PER DY MO YR DW	DUM RES. NATURAL	CP-4 (X. FLOW REG	CP-4 (X. DEQ-SHOR	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM RES. NATURAL	DUM LAST FLOW REG	DUM LAST DEQ-SHOR	
1 4 1 75 7	31.00	62.00	0.00	31.00	155.60	31.00	0.00	356.00	511.60	0.00	
2 5 1 75 1	44.00	76.71	0.00	42.00	325.52	193.00	0.00	466.00	591.58	0.00	
3 6 1 75 2	145.00	194.20	0.00	124.00	470.52	292.00	0.00	1080.00	951.25	0.00	

4	7	1	75	3	102.00	209.34	0.00	98.00	654.91	412.00	0.00	2454.00	1824.55	0.00
5	8	1	75	4	102.00	176.67	0.00	72.00	504.59	248.00	0.00	2784.00	2793.29	0.00
6	9	1	75	5	108.00	171.48	0.00	67.00	487.01	242.00	0.00	2850.00	3160.91	0.00
7	10	1	75	6	98.00	203.14	0.00	99.00	566.37	316.00	0.00	2707.00	3268.51	0.00
8	11	1	75	7	89.00	198.18	0.00	101.00	673.61	409.00	0.00	2597.00	3271.19	0.00
9	12	1	75	1	77.00	151.91	0.00	64.00	652.32	400.00	0.00	1630.00	2988.41	0.00
10	13	1	75	2	59.00	110.97	0.00	36.00	600.86	385.00	0.00	992.00	2287.07	0.00
11	14	1	75	3	52.00	88.56	0.00	27.00	543.63	363.00	0.00	825.00	1727.14	0.00
12	15	1	75	4	51.00	82.45	0.00	28.00	487.36	329.00	0.00	667.00	1409.84	0.00
13	16	1	75	5	44.00	70.98	0.00	21.00	446.54	300.00	0.00	541.00	1179.69	0.00
14	17	1	75	6	39.00	60.28	0.00	16.00	411.48	274.00	0.00	463.00	1010.14	0.00
15	18	1	75	7	36.00	53.65	0.00	14.00	369.98	242.00	0.00	409.00	885.95	0.00
16	19	1	75	1	33.00	47.19	0.00	11.00	333.02	213.00	0.00	372.00	788.41	0.00
17	20	1	75	2	30.00	42.05	0.00	9.00	299.37	187.00	0.00	340.00	710.09	0.00
SUM =					1140.00	1999.76	0.00	860.00	7982.69	4836.00	0.00	21533.00	29359.62	0.00
MAX =					145.00	209.34	0.00	124.00	673.61	412.00	0.00	2850.00	3271.19	0.00
MIN =					30.00	42.05	0.00	9.00	155.60	31.00	0.00	340.00	511.60	0.00
PMAX=					3.00	4.00	1.00	3.00	8.00	4.00	1.00	6.00	8.00	1.00
AVG =					67.06	117.63	0.00	50.59	469.57	284.47	0.00	1266.65	1727.04	0.00
PMIN=					17.00	17.00	1.00	17.00	1.00	1.00	1.00	17.00	1.00	1.00

1

FLOOD SUMMARY-EACH FLOOD COPY= 1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. RAJ. DAM P= 4.0
 RAJJAPRABHA PROJECT AT TAPI RIVER BASIN MONTH FLOW & DAILY FLOOD
 (POWER,FLOOD,IRRIGATION) 19 / 3 / 2536 (1964 - 1991),(1974)

*SUMFS 1

***** FLOOD NUMBER 1 *****

	MAX REG O	MAX NAT O	MAX LOC O	O BY RES
LOC 4 CP-4 (X.92)	159.	159.	159.	0.
LOC 5 CP-5 (X.6B)	815.	861.	380.	435.
LOC 7 DUM LAST DOSTR CP-7	1261.	1266.	1204.	57.

RESERVOIRS MIN STG MIN LEVEL MAX STG MAX LEVEL MAX REL

LOC 1 RAJJAPRABHA RES (X. 4300000.	2.000	5600000.	3.000	508.
-------------------------------------	-------	----------	-------	------

LOC 2 DUM RES.CP-2 (X.58) 0. 3.000 0. 3.000 165.

LOC 3 DUM RES.CP-3 (X.66) 0. 3.000 0. 3.000 125.

LOC 6 DUM.RES.CP-6 (X.37A) 0. 3.000 0. 3.000 830.

MIN SYSTEM STG= 4300000. MAX SYSTEM STG= 5600000.

*SUMFS 2

***** FLOOD NUMBER 2 *****

MAX REG 0 MAX NAT 0 MAX LOC 0 0 BY RES

LOC 4 CP-4 (X.92) 209. 209. 209. 0.

LOC 5 CP-5 (X.6B) 674. 731. 617. 57.

LOC 7 DUM LAST DOSTR CP-7 3271. 3317. 3215. 57.

RESERVOIRS MIN STG MIN LEVEL MAX STG MAX LEVEL MAX REL

LOC 1 RAJJAPRABHA RES (X. 5466314. 2.897 5485825. 2.912 56.

LOC 2 DUM RES.CP-2 (X.58) 0. 3.000 0. 3.000 19.

LOC 3 DUM RES.CP-3 (X.66) 0. 3.000 0. 3.000 145.

LOC 6 DUM.RES.CP-6 (X.37A) 0. 3.000 0. 3.000 2850.

MIN SYSTEM STG= 5466314. MAX SYSTEM STG= 5485825.

1

COPY= 1

***** MAX VALUES FOR MULTY FLOODS *****

MAX REG 0 MAX NAT 0 MAX LOC 0 0 BY RES

LOC 4 CP-4 (X.92) 209. 209. 209. 0.

LOC 5 CP-5 (X.6B) 815. 861. 617. 435.

LOC 7 DUM LAST DOSTR CP-7 3271. 3317. 3215. 57.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	4300000.	2.000	5600000.	3.000	508.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	165.
LOC	3 DUM RES.CP-3 (X.66)	0.	3.000	0.	3.000	145.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	2850.
1					COPY=	1

*SUMPO

0

MINIMUM VALUES AND SHORTAGES FOR CONSERVATION OPERATION-ALL FLOODS

***** DESIRED FLOW ***** REQUIRED FLOW *****

LOC		***** DESIRED FLOW *****			***** REQUIRED FLOW *****		
		SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX	SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX
1	RAJJAPRABHA RES (X.	0.	-1.	0.00	0.	-1.	0.00
2	DUM RES.CP-2 (X.58)	0.	-1.	0.00	0.	-1.	0.00
3	DUM RES.CP-3 (X.66)	0.	-1.	0.00	0.	-1.	0.00
4	CP-4 (X.92)	56.	441.	3.49	0.	0.	0.00
5	CP-5 (X.68)	0.	0.	0.00	0.	0.	0.00
6	DUM.RES.CP-6 (X.37A)	0.	-1.	0.00	0.	-1.	0.00
7	DUM LAST DOSTR CP-7	0.	0.	0.00	0.	0.	0.00

0 NOTE# -1. INDICATES THAT DESIRED AND/OR REQUIRED FLOWS WERE NOT SPECIFIED FOR GIVEN CONTROL POINT

	RESERVOIRS	FLD.PER	MIN STG	MIN LEVEL
LOC	1 RAJJAPRABHA RES (X.	1.00400	4300000.	2.000
LOC	2 DUM RES.CP-2 (X.58)	2.01700	0.	3.000
LOC	3 DUM RES.CP-3 (X.66)	2.01700	0.	3.000
LOC	6 DUM.RES.CP-6 (X.37A)	2.01700	0.	3.000

1

SUMMARY OF AT-SITE ENERGY PRODUCTIONS ** 1000 KWH ** CAPACITIES ** KW **

***** FLOOD NUMBER 1 *****

LOC=	PROJECT	PRIMARY	SECONDARY	SHORTAGE	TOTAL	MIN PEAK CAP	INSTALLED CAP
1	RAJJAPRABHA RE	9716201.	4348298.	90512.	13973990.	210450.	240000.

TOTALS OF AT-SITE ENERGY PRODUCTIONS

9716201.	4348298.	90512.	13973990.
----------	----------	--------	-----------

***** FLOOD NUMBER 2 *****

LOC=	PROJECT	PRIMARY	SECONDARY	SHORTAGE	TOTAL	MIN PEAK CAP	INSTALLED CAP
1	RAJJAPRABHA RE	16301.	0.	0.	16301.	227719.	240000.

TOTALS OF AT-SITE ENERGY PRODUCTIONS

16301.	0.	0.	16301.
--------	----	----	--------

***** ALL FLOODS *****

1	RAJJAPRABHA RE	9732502.	4348298.	90512.	13990290.	210450.	240000.
---	----------------	----------	----------	--------	-----------	---------	---------

TOTALS OF AT-SITE ENERGY PRODUCTIONS

9732502.	4348298.	90512.	13990290.
----------	----------	--------	-----------

SUMMARY OF AT-SITE POWER BENEFITS ** DOLLARS **

***** FLOOD NUMBER 1 *****

LOC=	PROJECT	BENEFIT RATES				ENERGY VALUE			TOTAL ENERGY VALUE	CAPACITY VALUE
		PRI	SEC	PUR	CAP	PRIMARY	SECONDARY	PURCHASE		
1	RAJJAPRABHA RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.

TOTALS OF AT-SITE POWER BENEFITS

0.	0.	0.	0.	0.
----	----	----	----	----

***** FLOOD NUMBER 2 *****

LOC=	PROJECT	BENEFIT RATES				ENERGY VALUE			TOTAL ENERGY VALUE	CAPACITY VALUE
		PRI	SEC	PUR	CAP	PRIMARY	SECONDARY	PURCHASE		
1	RAJJAPRABHA RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.

TOTALS OF AT-SITE POWER BENEFITS

0. 0. 0. 0. 0.

***** ALL FLOODS *****

1 RAJJAPRABHA RE 0. 0. 0. 0.

TOTALS OF AT-SITE POWER BENEFITS

0. 0. 0. 0. 0.

1

*CASES

CASES FOR PROGRAM DETERMINED RELEASES

** CASE = X.Y, WHERE: X = CONTROLLING LOCATION
Y = NUMBER OF FUTURE PERIOD CONTROLLING

EXCEPT WHEN X=0
THEN, TYPE OF RELEASE IS BASED ON RESERVOIR REQUIREMENTS. Y =

- Y=00 MINIMUM DESIRED FLOW AT DAM SITE
- Y=01 OPERATIONAL CHANNEL CAPACITY AT DAM SITE
- Y=02 BASED ON MAX RATE OF CHANGE OF RESERVOIR RELEASE
- Y=03 RELEASE TO REACH TOP OF CONSERVATION POOL
- Y=04 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
- Y=05 RELEASE TO BALANCE TANDEM RESERVOIRS
- Y=06 BASED ON MAX RELEASE DUE TO OUTLET CAPACITY
- Y=07 BASED ON NOT DRAWING BELOW LEVEL 1
- Y=08 MINIMUM REQUIRED FLOW AT DAM SITE
- Y=09 RELEASE TO REACH TOP OF BUFFER LEVEL
- Y=10 BASED ON AT-SITE POWER DEMAND
- Y=11 MIN FLOW SINCE HIGHEST RES CANNOT RELEASE
- Y=12 BASED ON SYSTEM POWER DEMAND
- Y=20 BASED ON GATE REGULATION CURVE - RISING POOL
- Y=21 BASED ON EMERGENCY RELEASE: PARTIAL GATE OPENING
- Y=22 BASED ON EMERGENCY RELEASE: TRANSITION
- Y=23 BASED ON EMERGENCY RELEASE: OUTFLOW=INFLOW
- Y=29 BASED ON EMERGENCY RELEASE: PRE-RELEASE

CASES FOR USER SPECIFIED RELEASE CRITERIA (QA CARDS)

** CASE = -X.Y, WHERE: X = RELEASE (CFS) OR RELEASE CRITERIA (IF ANY)
 Y = CODE THAT WAS INPUT ON QA CARD
 (OR REPEATED FROM PREVIOUS PERIOD)

Y=00 X RELEASE SPECIFIED BY USER
 Y=01 RELEASE SAME AS PREVIOUS PERIOD'S RELEASE
 Y=02 INTERPOLATED RELEASE BETWEEN TWO USER SUPPLIED RELEASE VALUES
 Y=03 PREVIOUS PERIOD RELEASE + X PERCENT
 Y=04 PREVIOUS PERIOD RELEASE - X PERCENT
 Y=10 PREVIOUS PERIOD RELEASE + X CONSTANT
 Y=20 PREVIOUS PERIOD RELEASE - X CONSTANT

Y=22 RELEASE FROM GATE REGULATION CURVE
 Y=23 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
 Y=24 RELEASE FOR DAM SITE OPERATIONAL CHANNEL CAPACITY
 Y=25 RELEASE FOR MAXIMUM OUTLET CAPACITY
 Y=26 RELEASE TO REACH TOP OF CONSERVATION POOL
 Y=27 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (RISING)
 Y=28 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (FALLING)
 Y=29 RELEASE TO REACH TOP OF BUFFER POOL
 Y=30 RELEASE TO REACH LEVEL 1 POOL
 Y=31 BASED ON FIRM ENERGY DEMAND
 Y=32 BASED ON ALLOCATED SYSTEM POWER ENERGY
 Y=33 RELEASE TO BALANCE TANDEM RESERVOIRS
 Y=34 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (DESIRED Q)
 Y=35 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (REQUIRED Q)
 Y=36 BASED ON D.S. FLOOD CONTROL REQUIREMENTS
 Y=37 BASED ON D.S. LOW FLOW REQUIREMENTS

Y=41 OUTFLOW EQUAL INFLOW
 Y=42 BASED ON PREVIOUS PERIOD GATE SETTING
 Y=43 RELEASE TO REACH X LEVEL (AT END OF CURRENT PERIOD)
 Y=44 RELEASE TO REACH X STORAGE (AT END OF CURRENT PERIOD)
 Y=45 RELEASE TO REACH X ELEVATION (AT END OF CURRENT PERIOD)
 Y=50 MINIMUM RELEASE MADE IF D.S. TANDEM RES. IS RISING AND
 D.S. RELEASE IS LESS THAN VALUE X

For your information, the following command line was given to execute Program HEC5A:

INPUT=CASE3.DAT OUTPUT=CASE3.OUT DSSFILE=CASE3.DSS MENU=OFF

1

```

*****
* HEC-5 SIMULATION OF FLOOD CONTROL AND CONSERVATION SYSTEMS *
*
*     Version     7.2; March 1991
*
* RUN DATE 20 MAR 93 TIME 22:25:37
*****

```

```

*****
* U.S. ARMY CORPS OF ENGINEERS     *
* HYDROLOGIC ENGINEERING CENTER    *
* 609 SECOND STREET, SUITE D       *
* DAVIS, CALIFORNIA 95616-4687     *
* (916) 756-1104                   *
*****

```

```

X   X   XXXXXXX   XXXXX            XXXXXX
X   X   X   X   X   X            X
X   X   X            X            X
XXXXXXX   XXXXX   X            XXXXX   XXXXXX
X   X   X            X                    X
X   X   X   X   X   X            X   X
X   X   XXXXXXX   XXXXX            XXXXXX

```

ศูนย์บริการวิชาการ
จุฬาลงกรณ์มหาวิทยาลัย

```

*****
*
* MODELING CAPABILITIES OF THIS VERSION ARE:
*
* Flood Control, Water Supply, Hydropower, DSS Version 6
*
*
*
* MAXIMUM LIMITS FOR THIS VERSION ARE:
*
*
*****

```

```

*   Reservoirs = 7,  Control Points = 15,  Diversions = 7,  Power Plants = 5           *
*                                                                                       *
*   Model Data cards (T1-ED)= 400   Reservoir Levels = 40   Flow Sequence Sets (BF-EJ)= 5 *
*   J8+JZ Output/DSS cards = 20   Seasonal Storages= 24   Periods per Flow Sequence = 370 *
*   "Stacked" Jobs (T1-EJ)= 1     Seasons (CS card)= 24   Dynamic Dimen. (DM array) = 20000 *
*                                                                                       *
*                                                                                       *
*****

```

1

HEC-5 SIMULATION OF FLOOD CONTROL
AND CONSERVATION SYSTEMS

Version 7.2; March 1991

MAX DIMENSION LIMITS ARE CURRENTLY SET AT 7 RESERVOIRS AND 15 CONTROL POINTS

*INPUT LISTING FROM PRERD

TO SUPPRESS LISTING, INSERT NOLIST CARD INTO INPUT DECK AT DESIRED POINT

```

T1   SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P.      RJ. & KK. DAM
T2   RAJJAPRABHA PROJECT AT TAPI RIVER BASIN             flood y.74  FORMAT
T3   ( POWER,FLOOD,IRRIGATION ) 19 / 3 / 2536            ( 1964 - 1991 )
J1   1      1      4      3      4      2
J2   1.2
J3   2      0      -1      0
J8   1.09   1.10   1.11   1.12   1.22   1.16   1.23   1.33   1.35   2.02
J8   3.09   3.10   3.11   3.12   3.22   3.16   3.23   3.33   3.35   3.02
J8   4.06   4.04   4.24   5.04   5.24   5.06   6.02   6.04   7.06   7.04

RL   1 4300000 1350000 4300000 5600000 5600000
RO   2      5      7
RS   5 1350000 2700000 3900000 4300000 5600000
RQ   5      258    305    335    343    362
RA   5  83500  117000  145000  155000  183500
RE   5      62     75     85     87.5   95
R3   74.1   83.5   106.9  101.1  86.4   71.1   70.8   67.6   68.9   64.6
R3   53.3   59.5
P1   1 240000      1      3      0      0      0.90
PR 29726 26850 29726 28767 29726 28767 29726 29726 28767 29726
PR 28767 29726
PQ   280    300    320    360    390
PT 14.35  14.5  14.7  15.0  15.25
PP198000 201000 216000 228000 240000
PS   69     70     75     80     83.5

CP   1 1500
ID RAJJAPRABHA RES ( X.39 )
RT   1      5      1.2    0.1    24

```


RL	2		
RO	2	5	7
RS	2	0	100
RQ	2	-1	-1
RA	2	0	1
RE	2	1	10

CP	2	400								
ID DUM RES.CP-2 (X.58)										
RT	2	5	1.2	0.1	24					

RL	3	970000	625000	970000	1200000	1330000					
RO	3	4	5	7							
RS	4	625000	970000	1200000	1330000						
RQ	4	500	850	1610	1870						
RA	4	22500	32000	36500	39000						
RE	4	135	148.6	154.5	157.8						
R3	74.1	83.5	106.9	101.1	86.4	71.1	70.8	67.6	68.9	64.6	
R3	53.3	59.5									
P1	3	80000	1	0	55.5	0	0.85				
PR	13640	12320	13640	13200	13640	13200	13640	13640	13200	13640	
PR	13200	13640									

CP	3	650								
ID KAENG KRUNG RES.(X.66)										
RT	3	4	1.2	0.1	24					

CP	4	800								
ID CP-4 (X.92)										
RT	4	5	1.2	0.1	24					
QM	9.20	16.20	14.5	4.3	3.70	7.80	5.60	3.10	0.00	0.00
QM	0.00	1.70								

CP	5	2000								
ID CP-5 (X.6B)										
RT	5	7	1.2	0.1	24					
QM	5.20	9.40	8.30	2.40	2.20	4.50	3.20	1.80	0.00	0.00
QM	0.00	1.00								

RL	6		
RO	1	7	
RS	2	0	100
RQ	2	-1	-1
RA	2	0	1
RE	2	1	10

CP	6	3000								
ID DUM.RES.CP-6 (X.37A)										
RT	6	7	1.2	0.1	24					

CP	7	5000								
ID DUM LAST DOSTR CP-7										

RT	7	0								
QM	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
QM	0.3	0.3								
ED										
BF	0	336	336	164010100	0	720				
IN	1	30JAN64	23.8	20.8	14.9	16.6	88.1	73.7	38.8	399.4
IN	196.0	158.7	164.7	64.2	23.6	16.2	15.3	34.2	76.2	280.1
IN	411.1	174.4	280.0	137.8	115.0	65.7	62.4	17.7	10.5	16.5
IN	107.5	60.6	165.4	237.1	94.5	86.6	101.9	95.2	15.8	8.4
IN	5.7	17.7	99.7	208.3	416.4	512.7	189.0	107.2	56.2	34.1
IN	16.8	11.0	9.8	12.4	42.6	77.5	238.2	536.6	215.7	99.0
IN	38.6	23.2	17.6	7.4	5.0	7.9	24.2	68.7	158.3	110.2
IN	486.9	93.0	74.8	23.6	14.7	8.1	15.3	8.4	14.3	92.2
IN	197.9	195.3	194.1	156.8	75.6	39.6	15.5	12.2	8.1	9.8
IN	18.9	175.2	146.4	87.4	91.4	315.5	63.3	27.1	16.5	10.2
IN	8.0	16.1	13.3	47.8	163.6	202.4	165.6	93.0	81.8	41.4
IN	16.8	11.2	7.2	7.0	10.8	73.7	241.6	180.4	147.4	171.8
IN	160.9	41.8	48.5	19.9	15.2	15.8	38.8	150.1	98.6	346.2
IN	149.3	200.1	152.4	49.7	16.7	9.5	9.8	14.2	26.2	248.8
IN	54.9	242.0	103.0	205.4	123.5	32.0	11.9	7.4	6.0	7.3
IN	90.0	81.0	144.1	143.4	298.2	56.4	91.8	28.8	13.2	9.3
IN	7.5	6.1	21.0	33.1	42.2	235.3	263.9	104.2	149.3	26.7
IN	10.6	7.2	5.4	9.7	24.5	144.7	202.4	296.9	328.7	148.2
IN	36.1	18.5	12.3	9.5	8.6	9.9	63.1	70.2	388.3	329.4
IN	167.1	258.4	50.5	20.4	15.2	11.0	8.0	7.5	25.2	98.4
IN	281.2	267.7	308.6	131.8	98.8	33.1	11.8	7.8	6.0	7.2
IN	16.4	173.2	74.6	76.5	101.1	52.7	92.2	34.3	10.5	6.5
IN	4.9	9.6	25.7	36.1	271.1	206.1	191.7	66.1	38.3	21.6
IN	14.6	9.4	5.9	3.2	23.7	83.7	111.7	208.0	164.4	181.9
IN	106.5	27.4	12.7	9.2	6.1	8.5	29.2	112.3	136.3	323.7
IN	177.5	146.0	36.7	28.0	14.9	9.8	7.1	8.0	15.7	137.7
IN	49.7	175.1	138.9	159.8	64.0	25.7	8.2	8.0	12.5	11.5
IN	94.2	66.9	143.1	363.8	152.2	107.6	60.3	22.1	10.9	8.1
IN	9.2	13.8	33.1	68.8	26.4	118.5	84.4	68.1	59.1	32.4
IN	28.4	28.0	27.5	42.8	72.7	80.5	123.0	86.7	159.8	186.4
IN	104.7	30.2	24.9	16.5	30.1	38.0	114.3	107.8	147.4	315.5
IN	145.8	141.7	68.3	47.9	25.1	8.7	19.4	22.5	56.9	112.0
IN	84.8	156.5	183.0	168.4	85.3	41.7	32.1	12.5	21.8	23.8
IN	40.8	46.7	122.0	202.5	195.5	109.2	43.2	28.0		
IN	2	30JAN64	5.12	3.72	2.07	4.43	38.92	25.22	20.83	98.10
IN	62.06	40.93	27.66	8.98	5.10	3.62	2.03	5.48	33.56	78.89
IN	95.29	42.00	71.30	36.34	22.69	9.01	9.36	3.65	2.56	4.42
IN	47.65	21.82	46.15	63.31	50.90	25.07	21.38	9.60	4.24	3.47
IN	3.08	4.49	44.14	60.22	96.35	157.02	61.29	29.60	16.71	8.38
IN	4.35	3.52	2.63	4.17	18.44	26.21	60.71	165.14	64.23	27.80
IN	15.05	8.16	4.44	3.45	3.16	3.90	10.16	23.92	44.73	20.17
IN	94.06	26.48	18.67	8.17	4.12	3.46	2.03	3.93	5.71	30.03
IN	52.65	49.10	61.85	40.52	18.75	8.49	4.21	3.54	2.82	4.02
IN	7.78	51.61	42.35	12.42	50.55	75.43	17.52	8.24	2.55	1.12
IN	0.87	4.40	5.26	18.49	45.79	51.52	45.91	16.71	12.77	5.56
IN	5.15	3.80	2.86	1.39	2.85	23.88	54.09	38.79	36.38	32.38
IN	20.25	8.77	7.80	3.75	2.88	4.32	18.17	37.54	22.53	101.83
IN	38.27	56.70	42.82	8.28	2.52	1.72	1.72	2.43	6.64	72.53

IN 24.05	48.49	21.91	47.74	21.68	4.96	2.81	2.28	2.62	2.53
IN 29.39	27.31	45.51	33.23	72.53	10.97	10.38	5.04	2.86	2.09
IN 2.30	2.60	6.19	7.29	9.96	60.43	69.53	19.55	14.04	4.81
IN 2.78	1.78	0.94	1.92	8.24	42.82	55.58	86.54	77.93	39.17
IN 11.46	5.00	3.29	2.51	2.58	7.10	21.07	22.84	80.57	56.70
IN 50.15	54.46	7.95	4.81	7.09	4.58	2.95	3.17	7.98	25.96
IN 63.78	64.53	71.76	36.33	26.85	12.83	3.73	4.13	3.19	4.01
IN 10.59	50.93	24.62	16.26	30.40	18.80	28.20	11.45	4.70	5.20
IN 4.36	6.17	10.37	16.09	72.36	55.20	53.63	24.66	16.13	9.85
IN 5.41	5.99	4.29	3.18	14.51	31.48	38.42	58.93	49.38	48.86
IN 27.31	10.52	4.85	5.37	5.26	5.75	11.00	43.21	36.52	75.35
IN 46.68	42.90	12.89	8.80	4.40	4.87	3.58	7.52	12.46	42.82
IN 16.19	45.88	46.30	59.68	24.15	11.67	3.28	3.63	2.39	3.17
IN 54.83	34.72	63.41	154.42	130.40	39.91	27.04	11.71	3.70	3.50
IN 2.70	4.30	14.20	24.00	18.40	23.00	49.80	21.00	17.10	8.40
IN 5.60	3.90	0.70	6.00	32.00	27.00	37.70	12.20	58.10	47.00
IN 21.70	8.30	5.20	3.60	0.40	5.70	50.70	34.10	42.50	90.00
IN 56.50	37.20	18.00	8.70	5.30	3.50	1.60	4.80	24.90	35.20
IN 30.00	35.90	60.60	30.50	17.10	8.20	6.03	3.55	1.31	4.86
IN 17.61	18.20	37.46	51.55	62.00	30.05	15.51	8.26		
IN 30JAN64	19.08	12.67	6.48	6.24	23.08	19.55	11.61	72.35	
IN 46.53	40.67	79.72	47.78	18.85	9.35	6.67	11.35	20.70	56.70
IN 48.84	36.05	56.61	35.65	59.34	49.06	63.47	10.43	4.46	6.22
IN 26.96	17.19	24.27	49.84	34.35	23.36	53.97	74.13	9.88	3.74
IN 2.25	6.56	25.40	43.77	49.37	110.47	45.69	28.31	34.82	22.20
IN 11.03	5.61	4.14	5.03	13.98	20.23	31.55	115.73	48.89	26.34
IN 28.02	12.93	11.95	3.02	1.93	3.72	10.30	18.65	23.56	21.92
IN 81.44	24.90	42.86	13.27	8.61	3.52	6.67	3.87	8.32	22.88
IN 27.52	40.65	46.30	40.21	43.19	26.87	9.54	6.47	3.36	4.27
IN 9.24	37.82	22.37	16.91	33.98	78.30	38.14	16.25	9.34	4.96
IN 2.99	6.56	7.09	24.69	31.74	31.37	33.18	29.87	33.18	30.25
IN 9.71	6.20	4.11	2.31	5.97	15.82	41.45	43.31	61.73	25.02
IN 36.27	23.52	48.17	12.40	7.09	4.24	14.56	32.02	19.04	66.84
IN 25.08	35.85	77.93	37.34	11.20	6.20	4.11	6.56	10.08	55.17
IN 16.06	51.09	48.23	57.88	68.67	25.39	6.35	2.89	1.87	4.63
IN 21.28	20.45	23.90	26.14	66.74	17.18	47.07	11.58	7.47	4.13
IN 2.99	1.54	7.09	8.10	7.09	48.92	55.17	30.99	125.00	12.70
IN 4.48	2.89	2.24	6.17	9.71	23.53	28.01	63.48	65.97	32.86
IN 13.89	7.84	6.72	4.13	2.99	3.47	21.66	23.53	85.51	79.16
IN 42.05	81.77	63.66	15.31	5.97	2.89	1.87	1.93	10.83	23.53
IN 38.46	58.25	57.10	43.69	36.27	21.28	7.47	4.13	3.73	6.17
IN 13.07	41.28	15.31	17.55	28.94	17.55	42.44	25.39	3.79	2.37
IN 1.88	4.21	10.60	12.78	34.84	43.02	46.01	18.44	27.89	11.57
IN 8.50	4.46	2.34	2.36	10.20	21.35	18.90	43.44	42.74	46.24
IN 55.86	16.50	6.31	4.31	2.44	3.90	11.30	26.49	21.36	68.89
IN 44.31	37.62	27.24	17.01	8.85	4.75	2.90	3.75	8.60	31.07
IN 12.70	36.20	39.68	40.93	38.43	15.06	1.14	3.45	5.38	4.77
IN 24.30	18.32	22.04	77.72	41.27	28.40	36.91	12.00	4.30	3.50
IN 3.90	5.40	12.10	18.70	10.40	23.70	33.10	18.90	36.40	20.80
IN 24.40	17.80	12.30	13.80	20.00	20.80	20.30	16.80	42.20	47.30
IN 55.10	18.90	20.30	9.60	13.50	12.40	28.30	25.70	22.50	67.10
IN 40.50	36.60	40.20	33.90	20.60	3.90	8.60	7.90	16.80	26.40
IN 16.20	32.10	45.00	42.98	47.16	28.68	28.64	6.68	9.67	8.34

IN	13.61	14.69	19.93	42.23	46.47	28.79	29.89	17.04		
IN	4	30JAN64	0.00	1.18	14.13	13.06	17.35	1.87	0.00	13.72
IN	0.00	10.64	33.50	7.93	0.00	1.30	14.74	36.91	14.16	0.00
IN	34.11	0.00	1.95	9.33	24.10	7.94	0.00	1.26	7.40	12.92
IN	22.55	2.70	4.27	0.00	0.00	6.10	21.62	8.17	1.74	1.48
IN	0.06	14.55	20.46	0.00	33.95	39.68	0.00	7.39	12.79	7.69
IN	1.20	1.42	6.33	7.35	5.16	1.63	12.88	43.26	0.00	6.88
IN	9.64	7.61	0.76	1.51	0.00	1.26	0.23	2.18	3.44	0.00
IN	11.74	6.50	16.49	7.61	2.34	1.49	14.74	1.93	0.00	0.70
IN	8.12	0.00	0.00	10.53	16.64	7.74	1.90	1.40	3.73	3.84
IN	0.00	0.00	2.01	0.00	0.00	20.53	14.32	7.64	2.42	1.50
IN	3.83	12.01	0.00	0.00	0.00	1.74	4.19	2.59	27.71	6.29
IN	2.24	1.06	1.43	0.95	0.00	4.81	5.75	0.00	0.00	26.29
IN	71.52	12.90	28.81	0.58	0.83	0.40	1.58	3.77	1.30	7.52
IN	2.41	5.97	33.71	14.94	1.91	1.20	1.50	1.02	1.58	6.61
IN	0.00	2.50	0.00	5.94	36.03	7.53	3.38	1.75	1.01	0.00
IN	21.28	1.88	0.40	0.00	0.00	3.65	23.78	13.55	5.93	3.67
IN	3.19	0.96	0.00	0.23	0.77	0.39	1.98	6.50	0.00	10.31
IN	0.33	0.00	0.00	4.86	2.03	0.60	2.24	5.44	6.28	7.55
IN	3.86	2.37	7.76	4.63	6.30	3.24	8.15	10.12	11.69	8.53
IN	0.00	3.98	19.17	12.50	1.66	1.23	4.02	0.73	1.13	2.29
IN	2.42	0.00	3.63	4.88	11.89	7.88	2.38	0.92	0.00	0.00
IN	0.00	0.00	0.00	0.00	0.00	2.31	27.97	5.77	5.02	1.66
IN	0.00	3.88	0.69	4.61	18.23	0.00	0.00	5.23	10.43	8.26
IN	2.60	1.59	0.40	0.00	0.10	1.35	0.00	0.00	0.00	13.16
IN	22.87	7.77	3.49	1.49	0.68	2.10	1.59	0.00	0.85	11.57
IN	0.00	10.01	9.44	7.77	2.26	1.47	2.24	1.42	0.00	0.00
IN	0.00	0.00	0.00	10.90	14.96	7.75	5.97	1.51	10.64	6.24
IN	19.31	2.34	1.67	17.66	0.00	7.55	13.99	7.73	4.45	1.54
IN	5.51	9.47	2.64	2.19	0.00	0.00	0.00	5.03	13.81	7.77
IN	0.00	1.05	33.96	49.39	13.46	1.44	0.00	0.00	0.00	12.61
IN	22.55	7.81	0.00	1.30	37.93	42.75	24.81	0.00	2.15	10.29
IN	0.00	9.73	15.50	7.93	0.00	1.51	21.37	21.40	9.17	0.00
IN	0.00	0.00	0.00	11.44	18.79	7.89	0.00	1.41	25.13	23.23
IN	4.74	3.63	0.00	0.00	0.00	7.65	10.69	7.77		
IN	5	30JAN64	64.93	13.22	0.00	0.00	2.90	3.36	0.00	0.00
IN	20.9	51.26	145.72	63.08	63.67	10.54	0.00	0.00	3.45	33.49
IN	43.0	32.26	44.59	42.09	84.50	64.48	307.62	11.42	0.00	0.00
IN	2.0	1.44	12.54	22.54	0.00	19.67	68.36	91.93	14.64	5.98
IN	3.5	0.00	2.37	23.01	44.60	0.00	18.85	28.70	9.92	35.06
IN	20.9	7.50	0.00	0.00	4.98	3.91	21.84	0.00	26.40	25.10
IN	0.0	24.92	25.95	5.39	4.43	1.41	5.82	2.63	11.63	38.37
IN	103.1	22.47	34.98	25.29	22.98	10.90	0.00	9.35	12.36	22.73
IN	33.0	43.75	25.87	53.23	51.32	47.89	9.91	3.40	0.00	0.00
IN	0.7	19.01	49.75	30.09	0.00	128.03	40.33	27.48	11.45	5.53
IN	0.2	0.00	3.92	0.00	0.00	10.97	7.74	33.01	11.88	28.11
IN	16.2	9.01	6.52	0.00	8.08	0.00	23.35	43.75	46.24	88.53
IN	193.3	54.71	180.98	15.97	6.67	1.43	6.95	9.77	0.00	20.56
IN	25.9	57.50	83.40	43.09	22.32	7.54	4.84	6.40	10.08	6.23
IN	0.0	34.90	2.82	83.34	87.48	34.38	0.00	6.83	3.68	3.43
IN	13.0	4.50	6.88	37.49	53.35	14.01	68.78	34.98	0.00	6.14
IN	1.6	3.65	11.01	13.56	0.00	24.09	41.10	36.24	134.84	33.93
IN	0.0	9.32	5.98	0.00	6.84	19.97	24.32	13.64	55.25	57.63

IN	9.3	32.34	0.00	4.91	0.00	0.00	11.05	0.00	39.92	42.01
IN	20.5	108.17	0.00	17.39	30.25	26.23	18.16	16.21	17.80	25.23
IN	71.4	21.82	144.49	94.98	106.60	66.65	7.81	4.28	4.50	23.38
IN	40.8	50.06	30.13	8.03	15.43	5.40	81.27	0.00	1.32	0.00
IN	0.0	3.22	0.00	0.00	99.61	71.76	112.48	26.24	30.56	22.98
IN	6.2	4.53	2.22	2.96	1.77	1.56	3.09	23.29	21.46	62.23
IN	56.8	22.05	6.84	43.72	58.54	0.00	0.00	1.48	34.66	50.99
IN	51.3	31.75	0.38	41.15	0.00	0.00	0.00	9.27	8.53	31.53
IN	0.0	0.00	0.00	2.35	5.34	0.00	7.26	0.00	0.00	0.00
IN	0.0	0.00	0.00	0.00	29.29	24.72	64.03	63.76	9.59	36.23
IN	36.5	0.00	17.75	26.07	65.57	81.58	55.06	25.36	42.16	31.14
IN	77.7	21.80	0.00	0.00	3.02	19.40	21.66	27.37	44.85	48.18
IN	17.6	30.65	59.27	9.76	0.00	0.00	1.47	26.37	17.16	62.83
IN	39.9	103.96	107.19	28.43	60.39	4.97	0.00	0.00	3.50	28.61
IN	14.3	54.63	32.09	14.69	1.73	48.41	96.57	6.89	0.00	0.00
IN	4.1	0.00	5.73	22.99	17.04	24.37	0.00	24.26		
IN	6	30JAN64	213.80	44.98	22.73	23.28	61.41	73.12	22.57	187.78
IN	207.8	237.92	347.75	569.03	210.64	39.28	22.77	26.09	59.98	168.07
IN	372.5	123.43	272.44	236.67	307.00	581.66	823.30	41.14	22.34	23.26
IN	63.7	67.10	141.58	147.88	129.61	233.60	296.26	830.05	87.48	29.61
IN	21.9	23.45	62.80	135.04	377.52	255.36	202.37	234.83	257.96	315.59
IN	103.3	32.83	22.27	22.60	55.95	74.87	210.01	264.68	222.93	234.34
IN	244.4	223.81	115.90	28.37	21.84	21.88	53.74	70.82	134.90	98.39
IN	431.8	233.98	274.04	227.18	70.60	24.40	30.60	20.40	28.00	59.80
IN	93.3	171.40	160.90	212.80	679.00	161.70	63.50	23.10	14.60	14.30
IN	18.7	26.60	39.20	33.60	49.80	194.90	117.30	165.80	50.40	22.70
IN	14.9	23.90	23.90	27.40	35.80	44.10	131.60	221.80	231.90	214.70
IN	79.5	33.50	23.20	13.10	41.10	82.90	201.60	174.40	201.00	201.60
IN	405.5	280.80	809.10	94.30	48.50	19.70	56.40	59.40	68.00	110.50
IN	145.4	252.80	368.80	230.40	44.40	24.00	16.00	33.60	64.20	199.80
IN	119.1	146.00	137.00	207.20	301.30	140.80	61.20	27.30	17.90	20.40
IN	73.2	81.80	61.20	101.90	198.30	173.60	233.00	180.30	43.70	26.00
IN	19.0	18.90	23.50	27.80	37.00	63.10	115.70	194.50	252.30	107.50
IN	38.8	23.20	17.20	30.10	70.90	104.60	158.30	152.70	195.20	193.00
IN	164.7	98.20	41.40	25.60	25.00	23.50	33.60	71.00	308.40	248.70
IN	227.2	234.50	205.60	95.60	61.60	47.10	36.20	30.10	63.80	176.70
IN	460.7	408.10	591.40	316.20	286.30	146.00	45.50	21.10	17.20	23.50
IN	91.8	145.10	50.80	31.70	71.00	95.60	237.30	291.20	39.20	17.80
IN	9.0	30.90	80.60	130.80	270.30	205.00	187.10	239.30	258.50	102.30
IN	49.3	51.70	22.80	9.30	27.30	84.90	102.70	169.10	203.30	290.80
IN	244.6	89.00	160.50	50.80	41.80	27.80	85.10	109.20	159.40	84.40
IN	120.4	264.00	115.70	297.20	53.80	23.10	14.20	29.70	103.40	134.30
IN	56.8	67.60	134.30	276.30	240.40	131.00	60.10	31.80	21.30	15.00
IN	71.7	69.40	136.60	221.80	413.20	445.00	326.80	172.10	78.80	39.70
IN	20.9	15.80	32.50	64.80	22.40	140.80	147.80	173.20	226.10	316.60
IN	71.7	34.30	23.90	24.30	65.70	28.20	134.00	129.20	271.60	281.90
IN	548.6	249.40	21.20	13.70	12.10	27.90	51.90	54.00	80.30	115.40
IN	158.2	280.80	212.60	43.30	119.20	63.20	61.50	47.20	86.50	123.10
IN	89.6	187.20	202.50	436.90	709.70	376.30	345.02	34.68	23.35	24.43
IN	55.7	60.71	100.74	134.39	207.37	234.95	248.11	264.48		

EJ

BF 0 17 0 175010400 0 24 2

IN	1	4JAN75	39	45	105	89	68	102	133	94
IN	67	56	50	47	43	40	38	36	34	
IN	2	4JAN75	6	19	13	10	8	11	13	12
IN	10	8	8	5	11	10	10	8	7	
IN	3	4JAN75	31	44	145	102	102	108	98	89
IN	77	59	52	51	44	39	36	33	30	
IN	4	4JAN75	31	42	124	98	72	67	99	101
IN	64	36	27	28	21	16	14	11	9	
IN	5	4JAN75	31	193	292	412	248	242	316	409
IN	400	385	363	329	300	274	242	213	187	
IN	6	4JAN75	356	466	1080	2454	2784	2850	2707	2597
IN	1630	992	825	667	541	463	409	372	340	

EJ
ER

START COMPUTATIONS FOR JOB NUMBER 1 FOR 2 FLOODS READ

NRES= 4 NCPT= 7

FIXED DIM. - DIVS.= 7 PWR. = 5

DYNAMIC DIM. - RES = 4 CPTS.= 7 PERS.= 128

MX=	1	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	400.00	*** CAUTION ***

FLOFMT	NPER	NPSTO	CNSTI	FLDAT	EPER	IPER.MINPER	ONESUM	
BF	0.	336.	336.	1.000	64010100	0.	720 . 0	0.

1
*INTAB

J1	METRIC	ISTMO	NULEV	LEVCON	LEVTFC	LEVBUF	LEVPUM	NOADLV	LEVPRC
	-1	1	4	3	4	2	3	0	2
J2	IFCAST	CFLOD	RATCHG	IPRIO	IOPMD	ISCHED	NCPTR		
	-1	1.20	0.04	0	0	0	0		
J3	IPRINT	PRCOL	IPLTJ	FLONAT	CRITPR	ILOCAL	NOROUT	INFLOW	NOOPTS
	2	130.	0	-1.	0.	0	24	0	0
J4	IANDAM	ECFCT	IPREC	BCRFAC	COSFAC	PCVAL	PEPVAL	PESVAL	PEBVAL
	0	1.0	0	1.00	1.00	0.0	0.0	0.0	0.0

USER ID QMAX QMDRAT QMIND QMINR LQCP RTLO QLAG

1R	RAJJAPRAB				
.-----2R	DUM RES.C				
.-----3R	KAENG KRU				
.-----4	CP-4 (X.9	3			
5	CP-5 (X.	1	2	3	
.-----6R	DUM.RES.C				
7	DUM LAST	1	2	3	6

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. RJ. & KK. DAM

		CHANNEL FLOOD CNTRL	CONSERV.	MIN DES.	MIN REQ.	DIVERT	MAP LOCATION
		CAPACITY	STORAGE	STORAGE	FLOW	FLOW	TO NUMBER NAME
1R	RAJJAPRAB	1500.	0.	4250000.	0.	0.	0 1 RAJJAPRABHA RES (X
.-----2R	DUM RES.C	400.	0.	0.	0.	0.	0 2 DUM RES.CP-2 (X.5B)
.-----3R	KAENG KRU	650.	130000.	575000.	0.	0.	0 3 KAENG KRUNG RES.(X.
.-----4	CP-4 (X.9	800.	0.	0.	0.	0.	0 4 CP-4 (X.92)
5	CP-5 (X.	2000.	0.	0.	0.	0.	0 5 CP-5 (X.6B)
.-----6R	DUM.RES.C	3000.	0.	0.	0.	0.	0 6 DUM.RES.CP-6 (X.37A
7	DUM LAST	5000.	0.	0.	0.	0.	0 7 DUM LAST DOSTR CP-7

1

RESERVOIR DATA

USER ID=	1	COMP ID=	1		
RS STORAGES=	1350000.	2700000.	3900000.	4300000.	5600000.
RQ CAPACITIES=	258.	305.	335.	343.	362.
RA AREAS=	83500.	117000.	145000.	155000.	183500.
RE ELEVATIONS=	62.00	75.00	85.00	87.50	95.00

USER ID= 2 COMP ID= 2

0	1	1500.	1.	0.	0.	0	1.000	0.	RAJJAPRABHA RES (X.39)
0	2	400.	1.	0.	0.	0	1.000	0.	DUM RES.CP-2 (X.58)
0	3	650.	1.	0.	0.	0	1.000	0.	KAENG KRUNG RES.(X.66)
0	4	800.	1.	0.	0.	0	1.000	0.	CP-4 (X.92)
0	5	2000.	1.	0.	0.	0	1.000	0.	CP-5 (X.6B)
0	6	3000.	1.	0.	0.	0	1.000	0.	DUM.RES.CP-6 (X.37A)
0	7	5000.	1.	0.	0.	0	1.000	0.	DUM LAST DOSTR CP-7

USER ID	COMP ID	RTFR	RTTO	RTMD	X	K	LAG
0	1	1	1.	5.	1.20	0.10	24.000
0	2	2	2.	5.	1.20	0.10	24.000
0	3	3	3.	4.	1.20	0.10	24.000
0	4	5	4.	5.	1.20	0.10	24.000
0	5	6	5.	7.	1.20	0.10	24.000
0	6	4	6.	7.	1.20	0.10	24.000
0	7	7	7.	0.	0.00	0.00	0.000

USER ID	COMP ID	STOR1	CUM DAYS	START DATE	STORL-1	-2	-3	-4	-5
1	1	4300000.	1.	01 JAN	1350000.	4300000.	5600000.	5600000.	
2	2	0.	1.	01 JAN	0.	0.	0.	0.	
3	3	970000.	1.	01 JAN	625000.	970000.	1200000.	1330000.	
6	4	0.	1.	01 JAN	0.	0.	0.	0.	

USER ID LOCATIONS RESERVOIR IS SERVING

1	1.	5.	7.
2	2.	5.	7.
3	3.	4.	5.
6	6.	7.	

1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P.

RJ. & KK. DAM

UPSTREAM RESERVOIRS OPERATING FOR EACH LOCATION

RS STORAGES= 0. 100.

RO Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

USER ID= 3 COMP ID= 3

RS STORAGES= 625000. 970000. 1200000. 1330000.

RO Q CAPACITIES= 500. 850. 1610. 1870.

RA AREAS= 22500. 32000. 36500. 39000.

RE ELEVATIONS= 135.00 148.60 154.50 157.80

USER ID= 6 COMP ID= 4

RS STORAGES= 0. 100.

RO Q CAPACITIES= -1. -1.

RA AREAS= 0. 1.

RE ELEVATIONS= 1.00 10.00

*RTCOF

ROUTING COEFFICIENTS FROM RES 1 TO MY

MY= 5 1.0000

MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 2 TO MY

MY= 5 1.0000

MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 3 TO MY

MY= 4 1.0000

MY= 5 1.0000

MY= 7 1.0000

ROUTING COEFFICIENTS FROM RES 6 TO MY

MY= 7 1.0000

Incremental LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
***** OR WERE READ FROM DSS

ELAPSED TIME: 0:00:09

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 118 PERIODS: 0:08:05

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS
***** OR WERE READ FROM DSS

ELAPSED TIME: 0:08:17

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

TOTAL ELAPSED CLOCK TIME FOR: 120 PERIODS: 0:16:21

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

"Incremental" LOCAL FLOW Information:

* NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS

 OR WERE READ FROM DSS

ELAPSED TIME: 0:16:34

LEVELS INCREASED TO 40 ,NLM= 40,NL1= 39,NLBUF= 5,LEVPRC= 5

 TOTAL ELAPSED CLOCK TIME FOR: 98 PERIODS: 0:23:09

MX=	1	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	2	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	3	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	4	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	5	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***
MX=	6	IF MUSK ROUT K LESS THAN	413.33	*** CAUTION ***

FLOFMT	NPER	NPSTO	CNSTI	FLDAT	EPER	IPER.MINPER	ONESUM	
BF	0.	17.	0.	1.000	75010400	0.	24 . 0	2.

"Incremental" LOCAL FLOW Information:

 * NOTE * INCREMENTAL LOCAL FLOWS WERE READ FROM "IN" CARDS

 OR WERE READ FROM DSS

ELAPSED TIME: 0:23:20

INTERPOLATION OF RESERVOIR LEVELS (RL CARDS) WAS USED.

 TOTAL ELAPSED CLOCK TIME FOR: 17 PERIODS: 0:24:31

1
 SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P. RJ. & KK. DAM
 RAJJAPRABHA PROJECT AT TAPI RIVER BASIN flood y.74 FORMAT
 (POWER,FLOOD,IRRIGATION) 19 / 3 / 2536 (1964 - 1991)

COMPUTATION INTERVAL IN HOURS=744.00

*FLOOD 1

***** FLOOD NUMBER 1 *****

UNITS OF OUTPUT

NFLRD= 2 NFLCON= 0

ALL FLOWS AND EVAPORATION IN CFS OR CMS
 RESERVOIR STORAGES IN ACRE FEET OR 1000 CU METERS

IFLRD = 1 IFLCON= 1
 FLOWS MULTIPLIED BY 1.000

ELEVATIONS IN FEET OR METERS
 ENERGY IN 1000 KWH EXCEPT WHEN IPER LT 24 HOURS-IN KWH

1
 *USERS. 1 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 1												
LOC NO=		1.	1.	1.	1.	1.	1.	1.	1.	1.	2.			
CODE=		1.090	1.100	1.110	1.120	1.220	1.160	1.230	1.330	1.350	2.020			
PER	DY	MO	YR	DW	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	RAJJAPRA	DUM RES.			
					INFLOW	OUTFLOW	EOP STOR	CASE	EOP ELEV	ENERGY G	ENERGY S	POWER HE	PLANT FA	NATURAL
1	1	1	64	1	23.80	19.51	4300000.00	0.10	87.50	9382.23	20343.77	73.15	0.05	5.12
2	1	2	64	1	20.80	15.63	4300000.00	0.10	87.50	7032.84	20776.09	73.15	0.04	3.72
3	1	3	64	1	14.90	8.71	4300000.00	0.10	87.50	4189.95	25536.05	73.15	0.02	2.07
4	1	4	64	1	16.60	10.55	4300000.00	0.10	87.50	4911.31	23855.70	73.15	0.03	4.43
5	1	5	64	1	88.10	61.68	4357316.00	0.10	87.83	29726.00	0.00	73.32	0.17	38.92
6	1	6	64	1	73.70	61.49	4377834.00	0.10	87.95	28767.00	0.00	73.54	0.17	25.22
7	1	7	64	1	38.80	61.62	4305682.00	0.10	87.53	29726.00	0.00	73.39	0.17	20.83
8	1	8	64	1	399.40	59.68	5204441.00	0.10	92.72	29726.00	0.00	75.78	0.17	98.10
9	1	9	64	1	196.00	56.97	5552489.00	0.10	94.73	28767.00	0.00	79.37	0.17	62.06
10	1	10	64	1	158.70	136.55	5600000.00	0.03	95.00	72267.97	0.00	80.51	0.40	40.93
11	1	11	64	1	164.70	160.93	5600000.00	0.03	95.00	82563.13	0.00	80.65	0.48	27.66
12	1	12	64	1	64.20	60.12	5600000.00	0.03	95.00	31874.51	0.00	80.65	0.18	8.98
13	1	1	65	1	23.60	56.27	5498970.00	0.10	94.42	29726.00	0.00	80.36	0.17	5.10
14	1	2	65	1	16.20	56.71	5385931.00	0.10	93.76	26850.00	0.00	79.74	0.17	3.62
15	1	3	65	1	15.30	57.22	5254703.00	0.10	93.01	29726.00	0.00	79.04	0.17	2.03
16	1	4	65	1	34.20	57.66	5176204.00	0.10	92.56	28767.00	0.00	78.43	0.17	5.48
17	1	5	65	1	76.20	57.75	5210534.00	0.10	92.75	29726.00	0.00	78.30	0.17	33.56
18	1	6	65	1	280.10	124.93	5600000.00	0.03	95.00	63200.48	0.00	79.53	0.37	78.89
19	1	7	65	1	411.10	406.25	5600000.00	0.03	95.00	168943.80	0.00	79.61	0.95	95.29
20	1	8	65	1	174.40	169.77	5600000.00	0.03	95.00	90002.82	0.00	80.65	0.50	42.00
21	1	9	65	1	280.00	275.12	5600000.00	0.03	95.00	141151.00	0.00	80.65	0.82	71.30
22	1	10	65	1	137.80	133.37	5600000.00	0.03	95.00	70708.30	0.00	80.65	0.40	36.34
23	1	11	65	1	115.00	111.23	5600000.00	0.03	95.00	57064.63	0.00	80.65	0.33	22.69
24	1	12	65	1	65.70	61.62	5600000.00	0.03	95.00	32669.74	0.00	80.65	0.18	9.01
25	1	1	66	1	62.40	57.32	5600000.00	0.03	95.00	30389.96	0.00	80.65	0.17	9.36
26	1	2	66	1	17.70	56.29	5491418.00	0.10	94.37	26850.00	0.00	80.34	0.17	3.65
27	1	3	66	1	10.50	56.80	5348206.00	0.10	93.55	29726.00	0.00	79.61	0.17	2.56
28	1	4	66	1	16.50	57.36	5224446.00	0.10	92.83	28767.00	0.00	78.84	0.17	4.42
29	1	5	66	1	107.50	57.37	5343464.00	0.10	93.52	29726.00	0.00	78.83	0.17	47.65
30	1	6	66	1	60.60	57.13	5339823.00	0.10	93.50	28767.00	0.00	79.16	0.17	21.82
31	1	7	66	1	165.40	63.49	5600000.00	0.03	95.00	33343.70	0.00	79.90	0.19	46.15
32	1	8	66	1	237.10	232.47	5600000.00	0.03	95.00	123243.20	0.00	80.65	0.69	63.31
33	1	9	66	1	94.50	89.62	5600000.00	0.03	95.00	45980.53	0.00	80.65	0.27	50.90
34	1	10	66	1	86.60	82.17	5600000.00	0.03	95.00	43564.63	0.00	80.65	0.24	25.07
35	1	11	66	1	101.90	98.13	5600000.00	0.03	95.00	50343.70	0.00	80.65	0.29	21.38
36	1	12	66	1	95.20	91.12	5600000.00	0.03	95.00	48309.16	0.00	80.65	0.27	9.60
37	1	1	67	1	15.80	56.32	5477982.00	0.10	94.30	29726.00	0.00	80.30	0.17	4.24
38	1	2	67	1	8.40	56.84	5345825.00	0.10	93.53	26850.00	0.00	79.56	0.17	3.47
39	1	3	67	1	5.70	57.44	5188412.00	0.10	92.63	29726.00	0.00	78.73	0.17	3.08

40	1	4	67	1	17.70	58.03	5066366.00	0.10	91.92	28767.00	0.00	77.92	0.17	4.49
41	1	5	67	1	99.70	58.09	5162885.00	0.10	92.48	29726.00	0.00	77.85	0.17	44.14
42	1	6	67	1	208.30	57.08	5542183.00	0.10	94.67	28767.00	0.00	79.22	0.17	60.22
43	1	7	67	1	416.40	389.98	5600000.00	0.03	95.00	168888.10	0.00	79.58	0.95	96.35
44	1	8	67	1	512.70	508.07	5600000.00	0.03	95.00	167428.70	0.00	78.77	0.94	157.02
45	1	9	67	1	189.00	184.12	5600000.00	0.03	95.00	94463.59	0.00	80.65	0.55	61.29
46	1	10	67	1	107.20	102.77	5600000.00	0.03	95.00	54485.72	0.00	80.65	0.31	29.60
47	1	11	67	1	56.20	56.09	5590511.00	0.10	94.95	28767.00	0.00	80.62	0.17	16.71
48	1	12	67	1	34.10	56.25	5520323.00	0.10	94.54	29726.00	0.00	80.39	0.17	8.38
49	1	1	68	1	16.80	56.64	5400253.00	0.10	93.85	29726.00	0.00	79.84	0.17	4.35
50	1	2	68	1	11.00	57.16	5269768.00	0.10	93.09	27808.93	0.00	79.12	0.17	3.52
51	1	3	68	1	9.80	57.74	5122699.00	0.10	92.25	29726.00	0.00	78.32	0.17	2.63
52	1	4	68	1	12.40	58.35	4986260.00	0.10	91.46	28767.00	0.00	77.50	0.17	4.17

1

LOC NO=					1.	1.	1.	1.	1.	1.	1.	1.	1.	2.
PER	DY	MO	YR	DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL
53	1	5	68	1	42.60	58.77	4928305.00	0.10	91.12	29726.00	0.00	76.94	0.17	18.44
54	1	6	68	1	77.50	58.82	4964694.00	0.10	91.33	28767.00	0.00	76.88	0.17	26.21
55	1	7	68	1	238.20	57.72	5435716.00	0.10	94.05	29726.00	0.00	78.34	0.17	60.71
56	1	8	68	1	536.60	470.68	5600000.00	0.03	95.00	167138.90	0.00	78.60	0.94	165.14
57	1	9	68	1	215.70	210.82	5600000.00	0.03	95.00	108162.00	0.00	80.65	0.63	64.23
58	1	10	68	1	99.00	94.57	5600000.00	0.03	95.00	50138.49	0.00	80.65	0.28	27.80
59	1	11	68	1	38.60	56.18	5544680.00	0.10	94.68	28767.00	0.00	80.49	0.17	15.05
60	1	12	68	1	23.20	56.50	5444717.00	0.10	94.10	29726.00	0.00	80.04	0.17	8.16
61	1	1	69	1	17.60	56.95	5326087.00	0.10	93.42	29726.00	0.00	79.41	0.17	4.44
62	1	2	69	1	7.40	57.48	5190242.00	0.10	92.64	26850.00	0.00	78.68	0.17	3.45
63	1	3	69	1	5.00	58.11	5029529.00	0.10	91.71	29726.00	0.00	77.82	0.17	3.16
64	1	4	69	1	7.90	58.78	4880519.00	0.10	90.85	28767.00	0.00	76.93	0.17	3.90
65	1	5	69	1	24.20	59.36	4771967.00	0.10	90.22	29726.00	0.00	76.19	0.17	10.16
66	1	6	69	1	68.70	59.57	4783856.00	0.10	90.29	28767.00	0.00	75.91	0.17	23.92
67	1	7	69	1	158.30	58.98	5037958.00	0.10	91.76	29726.00	0.00	76.67	0.17	44.73
68	1	8	69	1	110.20	58.14	5165721.00	0.10	92.49	29726.00	0.00	77.78	0.17	20.17
69	1	9	69	1	486.90	314.60	5600000.00	0.03	95.00	158306.90	0.00	79.10	0.92	94.06
70	1	10	69	1	93.00	88.57	5600000.00	0.03	95.00	46957.59	0.00	80.65	0.26	26.48
71	1	11	69	1	74.80	71.03	5600000.00	0.03	95.00	36440.09	0.00	80.65	0.21	18.67
72	1	12	69	1	23.60	56.27	5501646.00	0.10	94.43	29726.00	0.00	80.37	0.17	8.17
73	1	1	70	1	14.70	56.73	5375749.00	0.10	93.71	29726.00	0.00	79.72	0.17	4.12
74	1	2	70	1	8.10	57.26	5242020.00	0.10	92.93	26850.00	0.00	78.97	0.17	3.46
75	1	3	70	1	15.30	57.83	5109497.00	0.10	92.17	29726.00	0.00	78.20	0.17	2.03
76	1	4	70	1	8.40	58.43	4962523.00	0.10	91.32	28767.00	0.00	77.40	0.17	3.93
77	1	5	70	1	14.30	59.05	4828152.00	0.10	90.55	29726.00	0.00	76.58	0.17	5.71
78	1	6	70	1	92.20	59.18	4901832.00	0.10	90.97	28767.00	0.00	76.41	0.17	30.03
79	1	7	70	1	197.90	58.23	5263748.00	0.10	93.06	29726.00	0.00	77.67	0.17	52.65
80	1	8	70	1	195.30	65.22	5600000.00	0.03	95.00	34160.31	0.00	79.68	0.19	49.10
81	1	9	70	1	194.10	189.22	5600000.00	0.03	95.00	97080.14	0.00	80.65	0.56	61.85
82	1	10	70	1	156.80	152.37	5600000.00	0.03	95.00	80781.16	0.00	80.65	0.45	40.52
83	1	11	70	1	75.60	71.83	5600000.00	0.03	95.00	36850.53	0.00	80.65	0.21	18.75
84	1	12	70	1	39.60	56.18	5544705.00	0.10	94.68	29726.00	0.00	80.49	0.17	8.49
85	1	1	71	1	15.50	56.54	5421365.00	0.10	93.97	29726.00	0.00	79.98	0.17	4.21
86	1	2	71	1	12.20	57.05	5297974.00	0.10	93.26	26850.00	0.00	79.26	0.17	3.54

87	1	3	71	1	8.10	57.63	5146587.00	0.10	92.38	29726.00	0.00	78.47	0.17	2.82
88	1	4	71	1	9.80	58.26	5003594.00	0.10	91.56	28767.00	0.00	77.62	0.17	4.02
89	1	5	71	1	18.90	58.84	4882017.00	0.10	90.86	29726.00	0.00	76.86	0.17	7.78
90	1	6	71	1	175.20	58.47	5172437.00	0.10	92.53	28767.00	0.00	77.35	0.17	51.61
91	1	7	71	1	146.40	57.36	5398413.00	0.10	93.84	29726.00	0.00	78.84	0.17	42.35
92	1	8	71	1	87.40	56.75	5468356.00	0.10	94.24	29726.00	0.00	79.69	0.17	12.42
93	1	9	71	1	91.40	56.44	5546457.00	0.10	94.69	28767.00	0.00	80.12	0.17	50.55
94	1	10	71	1	315.50	291.10	5600000.00	0.03	95.00	153870.50	0.00	80.41	0.86	75.43
95	1	11	71	1	63.30	59.53	5600000.00	0.03	95.00	30540.04	0.00	80.65	0.18	17.52
96	1	12	71	1	27.10	56.25	5511065.00	0.10	94.49	29726.00	0.00	80.39	0.17	8.24
97	1	1	72	1	16.50	56.68	5390101.00	0.10	93.79	29726.00	0.00	79.79	0.17	2.55
98	1	2	72	1	10.20	57.20	5257514.00	0.10	93.02	27808.93	0.00	79.06	0.17	1.12
99	1	3	72	1	8.00	57.80	5105491.00	0.10	92.15	29726.00	0.00	78.24	0.17	0.87
100	1	4	72	1	16.10	58.40	4978529.00	0.10	91.41	28767.00	0.00	77.43	0.17	4.40
101	1	5	72	1	13.30	58.98	4841627.00	0.10	90.62	29726.00	0.00	76.67	0.17	5.26
102	1	6	72	1	47.80	59.38	4799777.00	0.10	90.38	28767.00	0.00	76.15	0.17	18.49
103	1	7	72	1	163.60	58.88	5068313.00	0.10	91.93	29726.00	0.00	76.81	0.17	45.79
104	1	8	72	1	202.40	57.48	5444561.00	0.10	94.10	29726.00	0.00	78.67	0.17	51.52

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL				
105	1	9	72	1	165.60	100.80	5600000.00	0.03	95.00	51427.13	0.00	80.20	0.30	45.91
106	1	10	72	1	93.00	88.57	5600000.00	0.03	95.00	46957.59	0.00	80.65	0.26	16.71
107	1	11	72	1	81.80	78.03	5600000.00	0.03	95.00	40031.43	0.00	80.65	0.23	12.77
108	1	12	72	1	41.40	56.17	5549549.00	0.10	94.71	29726.00	0.00	80.50	0.17	5.56
109	1	1	73	1	16.80	56.52	5429752.00	0.10	94.02	29726.00	0.00	80.01	0.17	5.15
110	1	2	73	1	11.20	57.02	5304001.00	0.10	93.29	26850.00	0.00	79.31	0.17	3.80
111	1	3	73	1	7.20	57.61	5150247.00	0.10	92.41	29726.00	0.00	78.50	0.17	2.86
112	1	4	73	1	7.00	58.26	4999997.00	0.10	91.54	28767.00	0.00	77.62	0.17	1.39
113	1	5	73	1	10.80	58.90	4856581.00	0.10	90.71	29726.00	0.00	76.77	0.17	2.85
114	1	6	73	1	73.70	59.16	4882354.00	0.10	90.86	28767.00	0.00	76.44	0.17	23.88
115	1	7	73	1	241.60	58.06	5361709.00	0.10	93.63	29726.00	0.00	77.89	0.17	54.09
116	1	8	73	1	180.40	86.87	5600000.00	0.03	95.00	45659.88	0.00	79.96	0.26	38.79
117	1	9	73	1	147.40	142.52	5600000.00	0.03	95.00	73120.78	0.00	80.65	0.42	36.38
118	1	10	73	1	171.80	167.37	5600000.00	0.03	95.00	88733.40	0.00	80.65	0.50	32.38
119	1	11	73	1	160.90	157.13	5600000.00	0.03	95.00	80613.54	0.00	80.65	0.47	20.25
120	1	12	73	1	41.80	56.17	5550625.00	0.10	94.72	29726.00	0.00	80.51	0.17	8.77
121	1	1	74	1	48.50	56.34	5516139.00	0.10	94.52	29726.00	0.00	80.27	0.17	7.80
122	1	2	74	1	19.90	56.62	5412226.00	0.10	93.92	26850.00	0.00	79.87	0.17	3.75
123	1	3	74	1	15.20	57.11	5280962.00	0.10	93.16	29726.00	0.00	79.19	0.17	2.88
124	1	4	74	1	15.80	57.65	5154791.00	0.10	92.43	28767.00	0.00	78.45	0.17	4.32
125	1	5	74	1	38.80	58.06	5088262.00	0.10	92.05	29726.00	0.00	77.89	0.17	18.17
126	1	6	74	1	150.10	57.71	5315298.00	0.10	93.36	28767.00	0.00	78.35	0.17	37.54
127	1	7	74	1	98.60	57.03	5414010.00	0.10	93.93	29726.00	0.00	79.29	0.17	22.53
128	1	8	74	1	346.20	272.18	5600000.00	0.03	95.00	143335.90	0.00	80.11	0.80	101.83
129	1	9	74	1	149.30	144.42	5600000.00	0.03	95.00	74095.58	0.00	80.65	0.43	38.27
130	1	10	74	1	200.10	195.67	5600000.00	0.03	95.00	103736.60	0.00	80.65	0.58	56.70
131	1	11	74	1	152.40	148.63	5600000.00	0.03	95.00	76252.63	0.00	80.65	0.44	42.82
132	1	12	74	1	49.70	56.13	5571885.00	0.10	94.84	29726.00	0.00	80.57	0.17	8.28
133	1	1	75	1	16.70	56.43	5452028.00	0.10	94.15	29726.00	0.00	80.14	0.17	2.52

134	1	2	75	1	9.50	56.94	5322330.00	0.10	93.40	26850.00	0.00	79.42	0.17	1.72
135	1	3	75	1	9.80	57.51	5175737.00	0.10	92.55	29726.00	0.00	78.63	0.17	1.72
136	1	4	75	1	14.20	58.11	5044464.00	0.10	91.79	28767.00	0.00	77.82	0.17	2.43
137	1	5	75	1	26.20	58.61	4942943.00	0.10	91.21	29726.00	0.00	77.15	0.17	6.64
138	1	6	75	1	248.80	57.79	5425644.00	0.10	93.99	28767.00	0.00	78.25	0.17	72.53
139	1	7	75	1	54.90	56.82	5407805.00	0.10	93.89	29726.00	0.00	79.59	0.17	24.05
140	1	8	75	1	242.00	165.66	5600000.00	0.03	95.00	87223.23	0.00	80.10	0.49	48.49
141	1	9	75	1	103.00	98.12	5600000.00	0.03	95.00	50341.44	0.00	80.65	0.29	21.91
142	1	10	75	1	205.40	200.97	5600000.00	0.03	95.00	106546.40	0.00	80.65	0.60	47.74
143	1	11	75	1	123.50	119.73	5600000.00	0.03	95.00	61425.54	0.00	80.65	0.36	21.68
144	1	12	75	1	32.00	56.22	5524252.00	0.10	94.56	29726.00	0.00	80.43	0.17	4.96
145	1	1	76	1	11.90	56.65	5391033.00	0.10	93.79	29726.00	0.00	79.83	0.17	2.81
146	1	2	76	1	7.40	57.21	5251409.00	0.10	92.99	27808.93	0.00	79.04	0.17	2.28
147	1	3	76	1	6.00	57.84	5093949.00	0.10	92.08	29726.00	0.00	78.18	0.17	2.62
148	1	4	76	1	7.30	58.50	4943968.00	0.10	91.22	28767.00	0.00	77.30	0.17	2.53
149	1	5	76	1	90.00	58.68	5013180.00	0.10	91.61	29726.00	0.00	77.06	0.17	29.39
150	1	6	76	1	81.00	58.43	5059522.00	0.10	91.88	28767.00	0.00	77.40	0.17	27.31
151	1	7	76	1	144.10	57.86	5278197.00	0.10	93.14	29726.00	0.00	78.16	0.17	45.51
152	1	8	76	1	143.40	56.93	5497696.00	0.10	94.41	29726.00	0.00	79.43	0.17	33.23
153	1	9	76	1	298.20	253.88	5600000.00	0.03	95.00	129777.50	0.00	80.35	0.75	72.53
154	1	10	76	1	56.40	56.09	5588976.00	0.10	94.94	29726.00	0.00	80.62	0.17	10.97
155	1	11	76	1	91.80	83.78	5600000.00	0.03	95.00	42964.20	0.00	80.62	0.25	10.38
156	1	12	76	1	28.80	56.24	5515640.00	0.10	94.51	29726.00	0.00	80.41	0.17	5.04

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.				
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY 6	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL				
157	1	1	77	1	13.20	56.68	5385839.00	0.10	93.76	29726.00	0.00	79.79	0.17	2.86
158	1	2	77	1	9.30	57.22	5255109.00	0.10	93.01	26850.00	0.00	79.04	0.17	2.09
159	1	3	77	1	7.50	57.81	5101719.00	0.10	92.13	29726.00	0.00	78.22	0.17	2.30
160	1	4	77	1	6.10	58.48	4948685.00	0.10	91.24	28767.00	0.00	77.33	0.17	2.60
161	1	5	77	1	21.00	59.07	4832210.00	0.10	90.57	29726.00	0.00	76.56	0.17	6.19
162	1	6	77	1	33.10	59.51	4751967.00	0.10	90.11	28767.00	0.00	75.99	0.17	7.29
163	1	7	77	1	42.20	59.83	4693128.00	0.10	89.77	29726.00	0.00	75.59	0.17	9.96
164	1	8	77	1	235.30	58.92	5154137.00	0.10	92.43	29726.00	0.00	76.75	0.17	60.43
165	1	9	77	1	263.90	87.14	5600000.00	0.03	95.00	43992.51	0.00	79.36	0.25	69.53
166	1	10	77	1	104.20	99.77	5600000.00	0.03	95.00	52895.27	0.00	80.65	0.30	19.55
167	1	11	77	1	149.30	145.53	5600000.00	0.03	95.00	74662.19	0.00	80.65	0.43	14.04
168	1	12	77	1	26.70	56.25	5509989.00	0.10	94.48	29726.00	0.00	80.39	0.17	4.81
169	1	1	78	1	10.60	56.71	5373138.00	0.10	93.69	29726.00	0.00	79.74	0.17	2.78
170	1	2	78	1	7.20	57.28	5237200.00	0.10	92.91	26850.00	0.00	78.95	0.17	1.78
171	1	3	78	1	5.40	57.90	5077996.00	0.10	91.99	29726.00	0.00	78.10	0.17	0.94
172	1	4	78	1	9.70	58.56	4934118.00	0.10	91.16	28767.00	0.00	77.22	0.17	1.92
173	1	5	78	1	24.50	59.11	4826918.00	0.10	90.54	29726.00	0.00	76.50	0.17	8.24
174	1	6	78	1	144.70	58.88	5037348.00	0.10	91.75	28767.00	0.00	76.80	0.17	42.82
175	1	7	78	1	202.40	57.62	5412726.00	0.10	93.92	29726.00	0.00	78.49	0.17	55.58
176	1	8	78	1	296.90	222.40	5600000.00	0.03	95.00	117115.80	0.00	80.11	0.66	86.54
177	1	9	78	1	328.70	323.82	5600000.00	0.03	95.00	164829.80	0.00	80.27	0.95	77.93
178	1	10	78	1	148.20	143.77	5600000.00	0.03	95.00	76221.86	0.00	80.65	0.43	39.17
179	1	11	78	1	36.10	56.20	5538170.00	0.10	94.64	28767.00	0.00	80.47	0.17	11.46
180	1	12	78	1	18.50	56.55	5425495.00	0.10	93.99	29726.00	0.00	79.97	0.17	5.00

181	1	1	79	1	12.30	57.05	5292418.00	0.10	93.23	29726.00	0.00	79.26	0.17	3.29
182	1	2	79	1	9.50	57.61	5161391.00	0.10	92.47	26850.00	0.00	78.50	0.17	2.51
183	1	3	79	1	8.60	58.21	5010098.00	0.10	91.60	29726.00	0.00	77.68	0.17	2.58
184	1	4	79	1	9.90	58.86	4866116.00	0.10	90.77	28767.00	0.00	76.83	0.17	7.10
185	1	5	79	1	63.10	59.19	4862137.00	0.10	90.74	29726.00	0.00	76.40	0.17	21.07
186	1	6	79	1	70.20	59.16	4878849.00	0.10	90.84	28767.00	0.00	76.44	0.17	22.84
187	1	7	79	1	388.30	114.41	5600000.00	0.03	95.00	59090.60	0.00	78.57	0.33	80.57
188	1	8	79	1	329.40	324.77	5600000.00	0.03	95.00	170306.00	0.00	80.26	0.95	56.70
189	1	9	79	1	167.10	162.22	5600000.00	0.03	95.00	83227.84	0.00	80.65	0.48	50.15
190	1	10	79	1	258.40	253.97	5600000.00	0.03	95.00	134644.40	0.00	80.65	0.75	54.46
191	1	11	79	1	50.50	56.12	5575668.00	0.10	94.86	28767.00	0.00	80.58	0.17	7.95
192	1	12	79	1	20.40	56.39	5468468.00	0.10	94.24	29726.00	0.00	80.20	0.17	4.81
193	1	1	80	1	15.20	56.86	5343604.00	0.10	93.52	29726.00	0.00	79.53	0.17	7.09
194	1	2	80	1	11.00	57.39	5212627.00	0.10	92.77	27808.93	0.00	78.79	0.17	4.58
195	1	3	80	1	8.00	57.99	5060193.00	0.10	91.89	29726.00	0.00	77.98	0.17	2.95
196	1	4	80	1	7.50	58.65	4910423.00	0.10	91.02	28767.00	0.00	77.10	0.17	3.17
197	1	5	80	1	25.20	59.22	4804868.00	0.10	90.41	29726.00	0.00	76.37	0.17	7.98
198	1	6	80	1	98.40	59.25	4894465.00	0.10	90.93	28767.00	0.00	76.32	0.17	25.96
199	1	7	80	1	281.20	57.78	5480533.00	0.10	94.31	29726.00	0.00	78.27	0.17	63.78
200	1	8	80	1	267.70	218.50	5600000.00	0.03	95.00	115341.50	0.00	80.31	0.65	64.53
201	1	9	80	1	308.60	303.72	5600000.00	0.03	95.00	155462.40	0.00	80.46	0.90	71.76
202	1	10	80	1	131.80	127.37	5600000.00	0.03	95.00	67527.41	0.00	80.65	0.38	36.33
203	1	11	80	1	98.80	95.03	5600000.00	0.03	95.00	48753.25	0.00	80.65	0.28	26.85
204	1	12	80	1	33.10	56.22	5527212.00	0.10	94.58	29726.00	0.00	80.44	0.17	12.83
205	1	1	81	1	11.80	56.64	5393752.00	0.10	93.81	29726.00	0.00	79.85	0.17	3.73
206	1	2	81	1	7.80	57.19	5259444.00	0.10	93.04	26850.00	0.00	79.07	0.17	4.13
207	1	3	81	1	6.00	57.80	5102057.00	0.10	92.13	29726.00	0.00	78.23	0.17	3.19
208	1	4	81	1	7.20	58.47	4951890.00	0.10	91.26	28767.00	0.00	77.34	0.17	4.01

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	RAJJAPRA	DUM RES. NATURAL			
209	1	5	81	1	16.40	59.08	4823065.00	0.10	90.52	29726.00	0.00	76.54	0.17	10.59
210	1	6	81	1	173.20	58.74	5107695.00	0.10	92.16	28767.00	0.00	76.99	0.17	50.93
211	1	7	81	1	74.60	58.05	5139773.00	0.10	92.34	29726.00	0.00	77.90	0.17	24.62
212	1	8	81	1	76.50	57.90	5177845.00	0.10	92.56	29726.00	0.00	78.10	0.17	16.26
213	1	9	81	1	101.10	57.60	5278508.00	0.10	93.15	28767.00	0.00	78.50	0.17	30.40
214	1	10	81	1	52.70	57.44	5254427.00	0.10	93.01	29726.00	0.00	78.73	0.17	18.80
215	1	11	81	1	92.20	57.32	5335408.00	0.10	93.47	28767.00	0.00	78.89	0.17	28.20
216	1	12	81	1	34.30	57.30	5263269.00	0.10	93.06	29726.00	0.00	78.92	0.17	11.45
217	1	1	82	1	10.50	57.75	5123777.00	0.10	92.25	29726.00	0.00	78.30	0.17	4.70
218	1	2	82	1	6.50	58.35	4984014.00	0.10	91.45	26850.00	0.00	77.50	0.17	5.20
219	1	3	82	1	4.90	59.02	4821090.00	0.10	90.51	29726.00	0.00	76.63	0.17	4.36
220	1	4	82	1	9.60	59.71	4674540.00	0.10	89.66	28767.00	0.00	75.73	0.17	6.17
221	1	5	82	1	25.70	60.29	4567888.00	0.10	89.05	29726.00	0.00	75.00	0.17	10.37
222	1	6	82	1	36.10	60.72	4492701.00	0.10	88.61	28767.00	0.00	74.48	0.17	16.09
223	1	7	82	1	271.10	59.61	5047453.00	0.10	91.81	29726.00	0.00	75.86	0.17	72.36
224	1	8	82	1	206.10	57.55	5433454.00	0.10	94.04	29726.00	0.00	78.58	0.17	55.20
225	1	9	82	1	191.70	122.62	5600000.00	0.03	95.00	62533.65	0.00	80.17	0.36	53.63
226	1	10	82	1	66.10	61.67	5600000.00	0.03	95.00	32696.56	0.00	80.65	0.18	24.66
227	1	11	82	1	38.30	56.18	5543898.00	0.10	94.68	28767.00	0.00	80.49	0.17	16.13

228	1	12	82	1	21.60	56.51	5439622.00	0.10	94.07	29726.00	0.00	80.03	0.17	9.85
229	1	1	83	1	14.60	56.98	5312870.00	0.10	93.34	29726.00	0.00	79.36	0.17	5.41
230	1	2	83	1	9.40	57.52	5181772.00	0.10	92.59	26850.00	0.00	78.62	0.17	5.99
231	1	3	83	1	5.90	58.14	5023403.00	0.10	91.67	29726.00	0.00	77.78	0.17	4.29
232	1	4	83	1	3.20	58.84	4862097.00	0.10	90.74	28767.00	0.00	76.86	0.17	3.18
233	1	5	83	1	23.70	59.44	4752011.00	0.10	90.11	29726.00	0.00	76.08	0.17	14.51
234	1	6	83	1	83.70	59.58	4802775.00	0.10	90.40	28767.00	0.00	75.90	0.17	31.48
235	1	7	83	1	111.70	59.17	4931609.00	0.10	91.14	29726.00	0.00	76.42	0.17	38.42
236	1	8	83	1	208.00	58.04	5321569.00	0.10	93.39	29726.00	0.00	77.92	0.17	58.93
237	1	9	83	1	164.40	56.66	5588411.00	0.10	94.93	28767.00	0.00	79.81	0.17	49.38
238	1	10	83	1	181.90	173.15	5600000.00	0.03	95.00	91757.51	0.00	80.62	0.51	48.86
239	1	11	83	1	106.50	102.73	5600000.00	0.03	95.00	52703.72	0.00	80.65	0.30	27.31
240	1	12	83	1	27.40	56.25	5511872.00	0.10	94.49	29726.00	0.00	80.40	0.17	10.52
241	1	1	84	1	12.70	56.69	5380690.00	0.10	93.73	29726.00	0.00	79.76	0.17	4.85
242	1	2	84	1	9.20	57.25	5245506.00	0.10	92.95	27808.93	0.00	78.99	0.17	5.37
243	1	3	84	1	6.10	57.86	5088261.00	0.10	92.05	29726.00	0.00	78.15	0.17	5.26
244	1	4	84	1	8.50	58.52	4941353.00	0.10	91.20	28767.00	0.00	77.27	0.17	5.75
245	1	5	84	1	29.20	59.05	4846878.00	0.10	90.66	29726.00	0.00	76.58	0.17	11.00
246	1	6	84	1	112.30	58.98	4973107.00	0.10	91.38	28767.00	0.00	76.67	0.17	43.21
247	1	7	84	1	136.30	58.27	5169920.00	0.10	92.52	29726.00	0.00	77.60	0.17	36.52
248	1	8	84	1	323.70	158.61	5600000.00	0.03	95.00	82795.76	0.00	79.41	0.46	75.35
249	1	9	84	1	177.50	172.62	5600000.00	0.03	95.00	88563.53	0.00	80.65	0.51	46.68
250	1	10	84	1	146.00	141.57	5600000.00	0.03	95.00	75055.53	0.00	80.65	0.42	42.90
251	1	11	84	1	36.70	56.19	5539732.00	0.10	94.65	28767.00	0.00	80.48	0.17	12.89
252	1	12	84	1	28.00	56.49	5452640.00	0.10	94.15	29726.00	0.00	80.05	0.17	8.80
253	1	1	85	1	14.90	56.93	5326819.00	0.10	93.42	29726.00	0.00	79.44	0.17	4.40
254	1	2	85	1	9.80	57.46	5196810.00	0.10	92.67	26850.00	0.00	78.70	0.17	4.87
255	1	3	85	1	7.10	58.07	5041809.00	0.10	91.78	29726.00	0.00	77.88	0.17	3.58
256	1	4	85	1	8.00	58.73	4893172.00	0.10	90.92	28767.00	0.00	77.00	0.17	7.52
257	1	5	85	1	15.70	59.35	4761867.00	0.10	90.16	29726.00	0.00	76.19	0.17	12.46
258	1	6	85	1	137.70	59.22	4953409.00	0.10	91.27	28767.00	0.00	76.37	0.17	42.82
259	1	7	85	1	49.70	58.87	4916886.00	0.10	91.06	29726.00	0.00	76.81	0.17	16.19
260	1	8	85	1	175.10	58.29	5218131.00	0.10	92.80	29726.00	0.00	77.58	0.17	45.88

1

LOC NO=	1.	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.			
PER DY MO YR DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL				
261	1	9	85	1	138.90	57.23	5417614.00	0.10	93.95	28767.00	0.00	79.02	0.17	46.30
262	1	10	85	1	159.80	87.33	5600000.00	0.03	95.00	45994.53	0.00	80.12	0.26	59.68
263	1	11	85	1	64.00	60.23	5600000.00	0.03	95.00	30899.17	0.00	80.65	0.18	24.15
264	1	12	85	1	25.70	56.26	5507297.00	0.10	94.47	29726.00	0.00	80.38	0.17	11.67
265	1	1	86	1	8.20	56.74	5363963.00	0.10	93.64	29726.00	0.00	79.70	0.17	3.28
266	1	2	86	1	8.00	57.32	5229892.00	0.10	92.86	26850.00	0.00	78.90	0.17	3.63
267	1	3	86	1	12.50	57.89	5089725.00	0.10	92.06	29726.00	0.00	78.11	0.17	2.39
268	1	4	86	1	11.50	58.50	4950642.00	0.10	91.25	28767.00	0.00	77.30	0.17	3.17
269	1	5	86	1	94.20	58.63	5031225.00	0.10	91.72	29726.00	0.00	77.14	0.17	54.83
270	1	6	86	1	66.90	58.43	5041018.00	0.10	91.78	28767.00	0.00	77.40	0.17	34.72
271	1	7	86	1	143.10	57.94	5256817.00	0.10	93.02	29726.00	0.00	78.05	0.17	63.41
272	1	8	86	1	363.80	231.13	5600000.00	0.03	95.00	121031.40	0.00	79.66	0.68	154.42
273	1	9	86	1	152.20	147.32	5600000.00	0.03	95.00	75583.41	0.00	80.65	0.44	130.40
274	1	10	86	1	107.60	103.17	5600000.00	0.03	95.00	54697.78	0.00	80.65	0.31	39.91

275	1	11	86	1	60.30	56.53	5600000.00	0.03	95.00	29000.89	0.00	80.65	0.17	27.04
276	1	12	86	1	22.10	56.28	5497609.00	0.10	94.41	29726.00	0.00	80.35	0.17	11.71
277	1	1	87	1	10.90	56.76	5361448.00	0.10	93.62	29726.00	0.00	79.67	0.17	3.70
278	1	2	87	1	8.10	57.33	5227600.00	0.10	92.85	26850.00	0.00	78.89	0.17	3.50
279	1	3	87	1	9.20	57.92	5078532.00	0.10	91.99	29726.00	0.00	78.07	0.17	2.70
280	1	4	87	1	13.80	58.53	4945335.00	0.10	91.22	28767.00	0.00	77.26	0.17	4.30
281	1	5	87	1	33.10	59.01	4861399.00	0.10	90.74	29726.00	0.00	76.63	0.17	14.20
282	1	6	87	1	68.80	59.17	4874456.00	0.10	90.81	28767.00	0.00	76.43	0.17	24.00
283	1	7	87	1	26.40	59.36	4774376.00	0.10	90.24	29726.00	0.00	76.18	0.17	18.40
284	1	8	87	1	118.50	59.26	4921758.00	0.10	91.09	29726.00	0.00	76.31	0.17	23.00
285	1	9	87	1	84.40	58.81	4976430.00	0.10	91.40	28767.00	0.00	76.89	0.17	49.80
286	1	10	87	1	68.10	58.66	4990740.00	0.10	91.49	29726.00	0.00	77.09	0.17	21.00
287	1	11	87	1	59.10	58.64	4982860.00	0.10	91.44	28767.00	0.00	77.11	0.17	17.10
288	1	12	87	1	32.40	58.84	4901986.00	0.10	90.97	29726.00	0.00	76.86	0.17	8.40
289	1	1	88	1	28.40	59.23	4807026.00	0.10	90.43	29726.00	0.00	76.35	0.17	5.60
290	1	2	88	1	28.00	59.65	4713926.00	0.10	89.89	27808.93	0.00	75.81	0.17	3.90
291	1	3	88	1	27.50	60.11	4609178.00	0.10	89.28	29726.00	0.00	75.24	0.17	0.70
292	1	4	88	1	42.80	60.49	4547031.00	0.10	88.93	28767.00	0.00	74.75	0.17	6.00
293	1	5	88	1	72.70	60.59	4565576.00	0.10	89.03	29726.00	0.00	74.63	0.17	32.00
294	1	6	88	1	80.50	60.46	4606062.00	0.10	89.27	28767.00	0.00	74.80	0.17	27.00
295	1	7	88	1	123.00	60.00	4763231.00	0.10	90.17	29726.00	0.00	75.37	0.17	37.70
296	1	8	88	1	86.70	59.50	4824869.00	0.10	90.53	29726.00	0.00	76.00	0.17	12.20
297	1	9	88	1	159.80	58.81	5074986.00	0.10	91.97	28767.00	0.00	76.90	0.17	58.10
298	1	10	88	1	186.40	57.55	5408764.00	0.10	93.90	29726.00	0.00	78.58	0.17	47.00
299	1	11	88	1	104.70	56.61	5523783.00	0.10	94.56	28767.00	0.00	79.88	0.17	21.70
300	1	12	88	1	30.20	56.54	5442459.00	0.10	94.09	29726.00	0.00	79.98	0.17	8.30
301	1	1	89	1	24.90	56.91	5343452.00	0.10	93.52	29726.00	0.00	79.46	0.17	5.20
302	1	2	89	1	16.50	57.36	5229859.00	0.10	92.86	26850.00	0.00	78.84	0.17	3.60
303	1	3	89	1	30.10	57.79	5137046.00	0.10	92.33	29726.00	0.00	78.25	0.17	0.40
304	1	4	89	1	38.00	58.14	5067392.00	0.10	91.93	28767.00	0.00	77.78	0.17	5.70
305	1	5	89	1	114.30	58.00	5203215.00	0.10	92.71	29726.00	0.00	77.97	0.17	50.70
306	1	6	89	1	107.80	57.46	5321178.00	0.10	93.39	28767.00	0.00	78.70	0.17	34.10
307	1	7	89	1	147.40	56.74	5551276.00	0.10	94.72	29726.00	0.00	79.71	0.17	42.50
308	1	8	89	1	315.50	292.69	5600000.00	0.03	95.00	154716.30	0.00	80.41	0.87	90.00
309	1	9	89	1	145.80	140.92	5600000.00	0.03	95.00	72299.91	0.00	80.65	0.42	56.50
310	1	10	89	1	141.70	137.27	5600000.00	0.03	95.00	72775.89	0.00	80.65	0.41	37.20
311	1	11	89	1	68.30	64.53	5600000.00	0.03	95.00	33105.28	0.00	80.65	0.19	18.00
312	1	12	89	1	47.90	56.14	5567041.00	0.10	94.81	29726.00	0.00	80.55	0.17	8.70

1

LOC NO=

1. 1. 1. 1. 1. 1. 1. 1. 1. 2.

PER	DY	MO	YR	DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY G	RAJJAPRA ENERGY S	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL
313	1	1	90	1	25.10	56.40	5469742.00	0.10	94.25	29726.00	0.00	80.18	0.17	5.30
314	1	2	90	1	8.70	56.87	5338246.00	0.10	93.49	26850.00	0.00	79.52	0.17	3.50
315	1	3	90	1	19.40	57.39	5217624.00	0.10	92.79	29726.00	0.00	78.79	0.17	1.60
316	1	4	90	1	22.50	57.88	5108335.00	0.10	92.16	28767.00	0.00	78.13	0.17	4.80
317	1	5	90	1	56.90	58.15	5090070.00	0.10	92.06	29726.00	0.00	77.76	0.17	24.90
318	1	6	90	1	112.00	57.92	5217897.00	0.10	92.80	28767.00	0.00	78.08	0.17	35.20
319	1	7	90	1	84.80	57.52	5278523.00	0.10	93.15	29726.00	0.00	78.62	0.17	30.00
320	1	8	90	1	156.50	56.86	5533280.00	0.10	94.62	29726.00	0.00	79.53	0.17	35.90
321	1	9	90	1	183.00	152.40	5600000.00	0.03	95.00	78002.45	0.00	80.46	0.45	60.60

322	1	10	90	1	168.40	163.97	5600000.00	0.03	95.00	86930.88	0.00	80.65	0.49	30.50
323	1	11	90	1	85.30	81.53	5600000.00	0.03	95.00	41827.10	0.00	80.65	0.24	17.10
324	1	12	90	1	41.70	56.17	5550356.00	0.10	94.71	29726.00	0.00	80.51	0.17	8.20
325	1	1	91	1	32.10	56.43	5471738.00	0.10	94.26	29726.00	0.00	80.14	0.17	6.03
326	1	2	91	1	12.50	56.84	5349489.00	0.10	93.55	26850.00	0.00	79.56	0.17	3.55
327	1	3	91	1	21.80	57.33	5235424.00	0.10	92.90	29726.00	0.00	78.88	0.17	1.31
328	1	4	91	1	23.80	57.80	5129678.00	0.10	92.29	28767.00	0.00	78.24	0.17	4.86
329	1	5	91	1	40.80	58.16	5068288.00	0.10	91.93	29726.00	0.00	77.76	0.17	17.61
330	1	6	91	1	46.70	58.38	5025829.00	0.10	91.69	28767.00	0.00	77.46	0.17	18.20
331	1	7	91	1	122.00	58.13	5184679.00	0.10	92.60	29726.00	0.00	77.80	0.17	37.46
332	1	8	91	1	202.50	56.99	5562333.00	0.10	94.78	29726.00	0.00	79.34	0.17	51.55
333	1	9	91	1	195.50	176.10	5600000.00	0.03	95.00	90226.59	0.00	80.54	0.52	62.00
334	1	10	91	1	109.20	104.77	5600000.00	0.03	95.00	55546.02	0.00	80.65	0.31	30.05
335	1	11	91	1	43.20	56.16	5556658.00	0.10	94.75	28767.00	0.00	80.52	0.17	15.51
336	1	12	91	1	28.00	56.42	5469730.00	0.10	94.25	29726.00	0.00	80.15	0.17	8.26
SUM =					29994.09	27959.01	*****	27.58	31282.06	14064500.00	90511.61	26450.31	80.98	8433.34
MAX =					536.60	508.07	5600000.00	0.10	95.00	170306.00	25536.05	80.65	0.95	165.14
MIN =					3.20	8.71	4300000.00	0.03	87.50	4189.95	0.00	73.15	0.02	0.40
PMAX=					56.00	44.00	10.00	1.00	10.00	188.00	3.00	11.00	19.00	56.00
AVG =					89.27	83.21	5270906.00	0.08	93.10	41858.63	269.38	78.72	0.24	25.10
PMIN=					232.00	3.00	1.00	10.00	1.00	3.00	5.00	1.00	3.00	303.00

1

^USERS. 2 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 1												
LOC NO=		3.	3.	3.	3.	3.	3.	3.	3.	3.	3.			
CODE=		3.090	3.100	3.110	3.120	3.220	3.160	3.230	3.330	3.350	3.020			
PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY G	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
1	1	1	64	1	19.08	18.19	970000.00	0.10	148.60	10516.35	3123.65	93.10	0.18	19.08
2	1	2	64	1	12.67	11.60	970000.00	0.10	148.60	6274.06	6485.94	93.10	0.11	12.67
3	1	3	64	1	6.48	5.20	970000.00	0.10	148.60	3007.18	10632.82	93.10	0.05	6.48
4	1	4	64	1	6.24	4.99	970000.00	0.10	148.60	2792.17	10407.87	93.10	0.05	6.24
5	1	5	64	1	23.08	22.05	970000.00	0.10	148.60	12743.38	896.62	93.10	0.21	23.08
6	1	6	64	1	19.55	18.67	970000.00	0.10	148.60	10444.22	2755.78	93.10	0.18	19.55
7	1	7	64	1	11.61	10.76	970000.00	0.10	148.60	6221.56	7418.44	93.10	0.10	11.61
8	1	8	64	1	72.35	23.19	1099433.00	0.10	151.92	13640.00	0.00	94.76	0.23	72.35
9	1	9	64	1	46.53	22.61	1159022.00	0.10	153.45	13200.00	0.00	97.18	0.23	46.53
10	1	10	64	1	40.67	24.50	1200000.00	0.03	154.50	14978.07	0.00	98.47	0.25	40.67
11	1	11	64	1	79.72	78.97	1200000.00	0.03	154.50	46970.43	0.00	99.00	0.82	79.72
12	1	12	64	1	47.78	46.97	1200000.00	0.03	154.50	28868.13	0.00	99.00	0.49	47.78
13	1	1	65	1	18.85	22.23	1188261.00	0.10	154.20	13640.00	0.00	98.85	0.23	18.85
14	1	2	65	1	9.35	22.36	1153785.00	0.10	153.31	12320.00	0.00	98.26	0.23	9.35
15	1	3	65	1	6.67	22.60	1107364.00	0.10	152.12	13640.00	0.00	97.22	0.23	6.67
16	1	4	65	1	11.35	22.84	1074110.00	0.10	151.27	13200.00	0.00	96.20	0.23	11.35

17	1	5	65	1	20.70	22.97	1065100.00	0.10	151.04	13640.00	0.00	95.66	0.23	20.70
18	1	6	65	1	56.70	22.74	1150670.00	0.10	153.23	13200.00	0.00	96.64	0.23	56.70
19	1	7	65	1	48.84	29.47	1200000.00	0.03	154.50	17997.16	0.00	98.37	0.30	48.84
20	1	8	65	1	36.05	35.13	1200000.00	0.03	154.50	21590.81	0.00	99.00	0.36	36.05
21	1	9	65	1	56.61	55.64	1200000.00	0.03	154.50	33094.11	0.00	99.00	0.57	56.61
22	1	10	65	1	35.65	34.77	1200000.00	0.03	154.50	21370.09	0.00	99.00	0.36	35.65
23	1	11	65	1	59.34	58.59	1200000.00	0.03	154.50	34848.56	0.00	99.00	0.61	59.34
24	1	12	65	1	49.06	48.25	1200000.00	0.03	154.50	29654.85	0.00	99.00	0.50	49.06
25	1	1	66	1	63.47	62.46	1200000.00	0.03	154.50	38389.22	0.00	99.00	0.64	63.47
26	1	2	66	1	10.43	22.28	1168301.00	0.10	153.69	12320.00	0.00	98.59	0.23	10.43
27	1	3	66	1	4.46	22.53	1116121.00	0.10	152.35	13640.00	0.00	97.52	0.23	4.46
28	1	4	66	1	6.22	22.83	1069599.00	0.10	151.15	13200.00	0.00	96.25	0.23	6.22
29	1	5	66	1	26.96	22.94	1077414.00	0.10	151.36	13640.00	0.00	95.76	0.23	26.96
30	1	6	66	1	17.19	22.97	1060009.00	0.10	150.91	13200.00	0.00	95.63	0.23	17.19
31	1	7	66	1	24.27	23.02	1060953.00	0.10	150.93	13640.00	0.00	95.42	0.23	24.27
32	1	8	66	1	49.84	22.81	1131028.00	0.10	152.73	13640.00	0.00	96.33	0.23	49.84
33	1	9	66	1	34.35	22.51	1159269.00	0.10	153.46	13200.00	0.00	97.59	0.23	34.35
34	1	10	66	1	23.36	22.43	1159457.00	0.10	153.46	13640.00	0.00	97.96	0.23	23.36
35	1	11	66	1	53.97	37.59	1200000.00	0.03	154.50	22238.39	0.00	98.48	0.39	53.97
36	1	12	66	1	74.13	73.32	1200000.00	0.03	154.50	45063.34	0.00	99.00	0.76	74.13
37	1	1	67	1	9.88	22.30	1164065.00	0.10	153.58	13640.00	0.00	98.54	0.23	9.88
38	1	2	67	1	3.74	22.54	1115625.00	0.10	152.34	12320.00	0.00	97.46	0.23	3.74
39	1	3	67	1	2.25	22.87	1056741.00	0.10	150.83	13640.00	0.00	96.08	0.23	2.25
40	1	4	67	1	6.56	23.19	1010267.00	0.10	149.63	13200.00	0.00	94.73	0.23	6.56
41	1	5	67	1	25.40	23.33	1012972.00	0.10	149.70	13640.00	0.00	94.17	0.23	25.40
42	1	6	67	1	43.77	23.16	1064018.00	0.10	151.01	13200.00	0.00	94.86	0.23	43.77
43	1	7	67	1	49.37	22.79	1132759.00	0.10	152.78	13640.00	0.00	96.39	0.23	49.37
44	1	8	67	1	110.47	84.46	1200000.00	0.03	154.50	51458.71	0.00	98.14	0.86	110.47
45	1	9	67	1	45.69	44.72	1200000.00	0.03	154.50	26598.98	0.00	99.00	0.46	45.69
46	1	10	67	1	28.31	27.43	1200000.00	0.03	154.50	16858.79	0.00	99.00	0.28	28.31
47	1	11	67	1	34.82	34.07	1200000.00	0.03	154.50	20264.25	0.00	99.00	0.35	34.82
48	1	12	67	1	22.20	22.20	1197833.00	0.10	154.44	13640.00	0.00	98.97	0.23	22.20
49	1	1	68	1	11.03	22.30	1164969.00	0.10	153.60	13640.00	0.00	98.52	0.23	11.03
50	1	2	68	1	5.61	22.53	1119622.00	0.10	152.44	12760.00	0.00	97.52	0.23	5.61
51	1	3	68	1	4.14	22.83	1065894.00	0.10	151.06	13640.00	0.00	96.25	0.23	4.14
52	1	4	68	1	5.03	23.15	1015557.00	0.10	149.77	13200.00	0.00	94.91	0.23	5.03

1

LOC NO=	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.				
PER DY MO YR DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY G	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL				
53	1	5	68	1	13.98	23.40	987519.70	0.10	149.05	13640.00	0.00	93.91	0.23	13.98
54	1	6	68	1	20.23	23.52	976698.60	0.10	148.77	13200.00	0.00	93.41	0.23	20.23
55	1	7	68	1	31.55	23.49	995989.60	0.10	149.27	13640.00	0.00	93.52	0.23	31.55
56	1	8	68	1	115.73	38.69	1200000.00	0.03	154.50	23151.33	0.00	96.38	0.39	115.73
57	1	9	68	1	48.89	47.92	1200000.00	0.03	154.50	28502.31	0.00	99.00	0.49	48.89
58	1	10	68	1	26.34	25.46	1200000.00	0.03	154.50	15647.99	0.00	99.00	0.26	26.34
59	1	11	68	1	28.02	27.27	1200000.00	0.03	154.50	16219.66	0.00	99.00	0.28	28.02
60	1	12	68	1	12.93	22.27	1172825.00	0.10	153.80	13640.00	0.00	98.65	0.23	12.93
61	1	1	69	1	11.95	22.44	1142086.00	0.10	153.01	13640.00	0.00	97.91	0.23	11.95
62	1	2	69	1	3.02	22.68	1091609.00	0.10	151.72	12320.00	0.00	96.87	0.23	3.02
63	1	3	69	1	1.93	23.02	1031514.00	0.10	150.18	13640.00	0.00	95.45	0.23	1.93

64	1	4	69	1	3.72	23.38	977258.50	0.10	148.79	13200.00	0.00	93.98	0.23	3.72
65	1	5	69	1	10.30	11.98	970000.00	0.10	148.60	6928.62	6711.38	93.19	0.12	10.30
66	1	6	69	1	18.65	17.77	970000.00	0.10	148.60	9940.81	3259.19	93.10	0.17	18.65
67	1	7	69	1	23.56	22.71	970000.00	0.10	148.60	13128.54	511.46	93.10	0.22	23.56
68	1	8	69	1	21.92	21.11	970000.00	0.10	148.60	12202.73	1437.27	93.10	0.21	21.92
69	1	9	69	1	81.44	23.12	1118848.00	0.10	152.42	13200.00	0.00	95.01	0.23	81.44
70	1	10	69	1	24.90	22.66	1122595.00	0.10	152.51	13640.00	0.00	96.97	0.23	24.90
71	1	11	69	1	42.86	22.50	1173489.00	0.10	153.82	13200.00	0.00	97.67	0.23	42.86
72	1	12	69	1	13.27	22.42	1146845.00	0.10	153.14	13640.00	0.00	97.98	0.23	13.27
73	1	1	70	1	8.61	22.62	1106717.00	0.10	152.11	13640.00	0.00	97.12	0.23	8.61
74	1	2	70	1	3.52	22.89	1056994.00	0.10	150.83	12320.00	0.00	95.97	0.23	3.52
75	1	3	70	1	6.67	23.20	1009179.00	0.10	149.61	13640.00	0.00	94.72	0.23	6.67
76	1	4	70	1	3.87	17.72	970000.00	0.10	148.60	9966.31	3233.69	93.60	0.17	3.87
77	1	5	70	1	8.32	7.29	970000.00	0.10	148.60	4212.24	9427.76	93.10	0.07	8.32
78	1	6	70	1	22.88	22.00	970000.00	0.10	148.60	12306.84	893.16	93.10	0.21	22.88
79	1	7	70	1	27.52	23.57	978302.80	0.10	148.81	13640.00	0.00	93.21	0.23	27.52
80	1	8	70	1	40.65	23.40	1022292.00	0.10	149.94	13640.00	0.00	93.88	0.23	40.65
81	1	9	70	1	46.30	23.08	1080158.00	0.10	151.43	13200.00	0.00	95.18	0.23	46.30
82	1	10	70	1	40.21	22.77	1124639.00	0.10	152.57	13640.00	0.00	96.50	0.23	40.21
83	1	11	70	1	43.19	22.48	1176423.00	0.10	153.90	13200.00	0.00	97.73	0.23	43.19
84	1	12	70	1	26.87	22.30	1186514.00	0.10	154.15	13640.00	0.00	98.52	0.23	26.87
85	1	1	71	1	9.54	22.38	1149470.00	0.10	153.20	13640.00	0.00	98.18	0.23	9.54
86	1	2	71	1	6.47	22.61	1107490.00	0.10	152.13	12320.00	0.00	97.17	0.23	6.47
87	1	3	71	1	3.36	22.91	1051483.00	0.10	150.69	13640.00	0.00	95.91	0.23	3.36
88	1	4	71	1	4.27	23.25	998953.90	0.10	149.34	13200.00	0.00	94.52	0.23	4.27
89	1	5	71	1	9.24	19.01	970000.00	0.10	148.60	11030.71	2609.29	93.47	0.19	9.24
90	1	6	71	1	37.82	23.49	1004854.00	0.10	149.49	13200.00	0.00	93.55	0.23	37.82
91	1	7	71	1	22.37	23.39	999809.60	0.10	149.36	13640.00	0.00	93.93	0.23	22.37
92	1	8	71	1	16.91	23.47	980049.30	0.10	148.86	13640.00	0.00	93.61	0.23	16.91
93	1	9	71	1	33.98	23.45	1005100.00	0.10	149.50	13200.00	0.00	93.68	0.23	33.98
94	1	10	71	1	78.30	22.92	1151236.00	0.10	153.25	13640.00	0.00	95.87	0.23	78.30
95	1	11	71	1	38.14	22.36	1190217.00	0.10	154.25	13200.00	0.00	98.25	0.23	38.14
96	1	12	71	1	16.25	22.30	1171857.00	0.10	153.78	13640.00	0.00	98.51	0.23	16.25
97	1	1	72	1	9.34	22.47	1134063.00	0.10	152.81	13640.00	0.00	97.79	0.23	9.34
98	1	2	72	1	4.96	22.72	1086661.00	0.10	151.59	12760.00	0.00	96.70	0.23	4.96
99	1	3	72	1	2.99	23.04	1029354.00	0.10	150.12	13640.00	0.00	95.36	0.23	2.99
100	1	4	72	1	6.56	23.37	982481.80	0.10	148.92	13200.00	0.00	94.02	0.23	6.56
101	1	5	72	1	7.09	10.71	970000.00	0.10	148.60	6203.22	7436.78	93.26	0.10	7.09
102	1	6	72	1	24.69	23.60	970556.90	0.10	148.61	13200.00	0.00	93.11	0.23	24.69
103	1	7	72	1	31.74	23.53	990262.50	0.10	149.12	13640.00	0.00	93.37	0.23	31.74
104	1	8	72	1	31.37	23.41	1009389.00	0.10	149.61	13640.00	0.00	93.87	0.23	31.37

1

LOC NO= 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.

PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY G	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
105	1	9	72	1	33.18	23.27	1032798.00	0.10	150.21	13200.00	0.00	94.41	0.23	33.18
106	1	10	72	1	29.87	23.15	1048646.00	0.10	150.62	13640.00	0.00	94.91	0.23	29.87
107	1	11	72	1	33.18	23.02	1073174.00	0.10	151.25	13200.00	0.00	95.43	0.23	33.18
108	1	12	72	1	30.25	22.89	1090846.00	0.10	151.70	13640.00	0.00	95.97	0.23	30.25
109	1	1	73	1	9.71	22.95	1052852.00	0.10	150.73	13640.00	0.00	95.71	0.23	9.71
110	1	2	73	1	6.20	23.21	1008931.00	0.10	149.60	12320.00	0.00	94.66	0.23	6.20

111	1	3	73	1	4.11	17.35	970000.00	0.10	148.60	10083.59	3556.41	93.60	0.17	4.11
112	1	4	73	1	2.31	1.06	970000.00	0.10	148.60	593.94	12606.06	93.10	0.01	2.31
113	1	5	73	1	5.97	4.94	970000.00	0.10	148.60	2853.97	10786.03	93.10	0.05	5.97
114	1	6	73	1	15.82	14.94	970000.00	0.10	148.60	8357.86	4842.14	93.10	0.15	15.82
115	1	7	73	1	41.45	23.45	1015912.00	0.10	149.78	13640.00	0.00	93.69	0.23	41.45
116	1	8	73	1	43.31	23.14	1067674.00	0.10	151.11	13640.00	0.00	94.94	0.23	43.31
117	1	9	73	1	61.73	22.68	1166489.00	0.10	153.64	13200.00	0.00	96.87	0.23	61.73
118	1	10	73	1	25.02	22.37	1171260.00	0.10	153.76	13640.00	0.00	98.20	0.23	25.02
119	1	11	73	1	36.27	24.44	1200000.00	0.03	154.50	14480.86	0.00	98.63	0.25	36.27
120	1	12	73	1	23.52	22.71	1200000.00	0.03	154.50	13957.48	0.00	99.00	0.23	23.52
121	1	1	74	1	48.17	47.16	1200000.00	0.03	154.50	28985.55	0.00	99.00	0.49	48.17
122	1	2	74	1	12.40	22.27	1173096.00	0.10	153.81	12320.00	0.00	98.65	0.23	12.40
123	1	3	74	1	7.09	22.48	1128076.00	0.10	152.65	13640.00	0.00	97.73	0.23	7.09
124	1	4	74	1	4.24	22.77	1076552.00	0.10	151.33	13200.00	0.00	96.49	0.23	4.24
125	1	5	74	1	14.56	23.00	1051011.00	0.10	150.68	13640.00	0.00	95.51	0.23	14.56
126	1	6	74	1	32.02	23.02	1071939.00	0.10	151.21	13200.00	0.00	95.45	0.23	32.02
127	1	7	74	1	19.04	22.99	1058950.00	0.10	150.88	13640.00	0.00	95.55	0.23	19.04
128	1	8	74	1	66.84	22.68	1174868.00	0.10	153.86	13640.00	0.00	96.87	0.23	66.84
129	1	9	74	1	25.08	22.32	1179527.00	0.10	153.97	13200.00	0.00	98.42	0.23	25.08
130	1	10	74	1	35.85	27.33	1200000.00	0.03	154.50	16753.32	0.00	98.74	0.28	35.85
131	1	11	74	1	77.93	77.18	1200000.00	0.03	154.50	45905.75	0.00	99.00	0.80	77.93
132	1	12	74	1	37.34	36.53	1200000.00	0.03	154.50	22451.51	0.00	99.00	0.38	37.34
133	1	1	75	1	11.20	22.29	1167626.00	0.10	153.67	13640.00	0.00	98.58	0.23	11.20
134	1	2	75	1	6.20	22.51	1125221.00	0.10	152.58	12320.00	0.00	97.63	0.23	6.20
135	1	3	75	1	4.11	22.79	1071491.00	0.10	151.20	13640.00	0.00	96.39	0.23	4.11
136	1	4	75	1	6.56	23.10	1025228.00	0.10	150.02	13200.00	0.00	95.11	0.23	6.56
137	1	5	75	1	10.08	23.37	986814.40	0.10	149.03	13640.00	0.00	94.02	0.23	10.08
138	1	6	75	1	55.17	23.23	1067238.00	0.10	151.09	13200.00	0.00	94.56	0.23	55.17
139	1	7	75	1	16.06	23.05	1046134.00	0.10	150.55	13640.00	0.00	95.32	0.23	16.06
140	1	8	75	1	51.09	22.89	1119358.00	0.10	152.43	13640.00	0.00	95.99	0.23	51.09
141	1	9	75	1	48.23	22.47	1183666.00	0.10	154.08	13200.00	0.00	97.76	0.23	48.23
142	1	10	75	1	57.88	50.91	1200000.00	0.03	154.50	31221.00	0.00	98.79	0.52	57.88
143	1	11	75	1	68.67	67.92	1200000.00	0.03	154.50	40397.97	0.00	99.00	0.70	68.67
144	1	12	75	1	25.39	24.58	1200000.00	0.03	154.50	15106.82	0.00	99.00	0.25	25.39
145	1	1	76	1	6.35	22.32	1154543.00	0.10	153.33	13640.00	0.00	98.42	0.23	6.35
146	1	2	76	1	2.89	22.61	1102196.00	0.10	151.99	12760.00	0.00	97.16	0.23	2.89
147	1	3	76	1	1.87	22.95	1042093.00	0.10	150.45	13640.00	0.00	95.72	0.23	1.87
148	1	4	76	1	4.63	23.30	990368.20	0.10	149.12	13200.00	0.00	94.29	0.23	4.63
149	1	5	76	1	21.28	23.50	981642.60	0.10	148.90	13640.00	0.00	93.51	0.23	21.28
150	1	6	76	1	20.45	23.56	971305.00	0.10	148.63	13200.00	0.00	93.27	0.23	20.45
151	1	7	76	1	23.90	23.54	970000.00	0.10	148.60	13640.00	0.00	93.12	0.23	23.90
152	1	8	76	1	26.14	23.58	974680.20	0.10	148.72	13640.00	0.00	93.16	0.23	26.14
153	1	9	76	1	66.74	23.22	1085210.00	0.10	151.56	13200.00	0.00	94.64	0.23	66.74
154	1	10	76	1	17.18	22.93	1067616.00	0.10	151.10	13640.00	0.00	95.83	0.23	17.18
155	1	11	76	1	47.07	22.79	1128700.00	0.10	152.67	13200.00	0.00	96.39	0.23	47.07
156	1	12	76	1	11.58	22.71	1096830.00	0.10	151.85	13640.00	0.00	96.76	0.23	11.58

1	LOC NO=	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.
		KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR	KAENG KR
	PER DY MO YR DW	INFLOW	OUTFLOW	EOP STOR	CASE	EOP ELEV	ENERGY G	ENERGY S	POWER HE	PLANT FA	NATURAL
	157 1 1 77 1	7.47	22.94	1052882.00	0.10	150.73	13640.00	0.00	95.79	0.23	7.47

158	1	2	77	1	4.13	23.23	1003919.00	0.10	149.47	12320.00	0.00	94.60	0.23	4.13
159	1	3	77	1	2.99	14.36	970000.00	0.10	148.60	8340.80	5299.20	93.54	0.14	2.99
160	1	4	77	1	1.54	0.29	970000.00	0.10	148.60	163.25	13036.75	93.10	0.00	1.54
161	1	5	77	1	7.09	6.06	970000.00	0.10	148.60	3501.31	10138.69	93.10	0.06	7.09
162	1	6	77	1	8.10	7.22	970000.00	0.10	148.60	4039.72	9160.28	93.10	0.07	8.10
163	1	7	77	1	7.09	6.24	970000.00	0.10	148.60	3609.04	10030.96	93.10	0.06	7.09
164	1	8	77	1	48.92	23.39	1036184.00	0.10	150.30	13640.00	0.00	93.95	0.23	48.92
165	1	9	77	1	55.17	22.92	1117416.00	0.10	152.38	13200.00	0.00	95.84	0.23	55.17
166	1	10	77	1	30.99	22.62	1137574.00	0.10	152.90	13640.00	0.00	97.14	0.23	30.99
167	1	11	77	1	125.00	100.18	1200000.00	0.03	154.50	57600.00	0.00	98.20	1.00	125.00
168	1	12	77	1	12.70	22.27	1172205.00	0.10	153.79	13640.00	0.00	98.64	0.23	12.70
169	1	1	78	1	4.48	22.50	1121304.00	0.10	152.48	13640.00	0.00	97.63	0.23	4.48
170	1	2	78	1	2.89	22.81	1070240.00	0.10	151.17	12320.00	0.00	96.33	0.23	2.89
171	1	3	78	1	2.24	23.15	1010667.00	0.10	149.64	13640.00	0.00	94.91	0.23	2.24
172	1	4	78	1	6.17	20.60	970000.00	0.10	148.60	11584.71	1615.29	93.62	0.20	6.17
173	1	5	78	1	9.71	8.68	970000.00	0.10	148.60	5015.65	8624.35	93.10	0.08	9.71
174	1	6	78	1	23.53	22.65	970000.00	0.10	148.60	12670.41	529.59	93.10	0.22	23.53
175	1	7	78	1	28.01	23.57	979625.80	0.10	148.85	13640.00	0.00	93.22	0.23	28.01
176	1	8	78	1	63.48	23.20	1085266.00	0.10	151.56	13640.00	0.00	94.70	0.23	63.48
177	1	9	78	1	65.97	22.54	1195400.00	0.10	154.38	13200.00	0.00	97.47	0.23	65.97
178	1	10	78	1	32.86	30.26	1200000.00	0.03	154.50	18589.23	0.00	98.94	0.31	32.86
179	1	11	78	1	13.89	22.26	1176370.00	0.10	153.89	13200.00	0.00	98.70	0.23	13.89
180	1	12	78	1	7.84	22.45	1135118.00	0.10	152.84	13640.00	0.00	97.86	0.23	7.84
181	1	1	79	1	6.72	22.71	1089718.00	0.10	151.67	13640.00	0.00	96.75	0.23	6.72
182	1	2	79	1	4.13	22.99	1041254.00	0.10	150.43	12320.00	0.00	95.55	0.23	4.13
183	1	3	79	1	2.99	23.33	983273.60	0.10	148.94	13640.00	0.00	94.18	0.23	2.99
184	1	4	79	1	3.47	7.34	970000.00	0.10	148.60	4111.86	9088.14	93.27	0.07	3.47
185	1	5	79	1	21.66	20.63	970000.00	0.10	148.60	11922.63	1717.37	93.10	0.20	21.66
186	1	6	79	1	23.53	22.65	970000.00	0.10	148.60	12670.41	529.59	93.10	0.22	23.53
187	1	7	79	1	85.51	23.07	1134846.00	0.10	152.83	13640.00	0.00	95.21	0.23	85.51
188	1	8	79	1	79.16	53.93	1200000.00	0.03	154.50	32866.14	0.00	98.16	0.55	79.16
189	1	9	79	1	42.05	41.08	1200000.00	0.03	154.50	24433.94	0.00	99.00	0.42	42.05
190	1	10	79	1	81.77	80.89	1200000.00	0.03	154.50	49716.31	0.00	99.00	0.84	81.77
191	1	11	79	1	63.66	62.91	1200000.00	0.03	154.50	37418.06	0.00	99.00	0.65	63.66
192	1	12	79	1	15.31	22.25	1179246.00	0.10	153.97	13640.00	0.00	98.73	0.23	15.31
193	1	1	80	1	5.97	22.45	1132467.00	0.10	152.77	13640.00	0.00	97.87	0.23	5.97
194	1	2	80	1	2.89	22.75	1079822.00	0.10	151.42	12760.00	0.00	96.59	0.23	2.89
195	1	3	80	1	1.87	23.09	1019392.00	0.10	149.87	13640.00	0.00	95.14	0.23	1.87
196	1	4	80	1	1.93	19.72	970000.00	0.10	148.60	11104.51	2095.49	93.73	0.19	1.93
197	1	5	80	1	10.83	9.80	970000.00	0.10	148.60	5663.00	7977.00	93.10	0.10	10.83
198	1	6	80	1	23.53	22.65	970000.00	0.10	148.60	12670.41	529.59	93.10	0.22	23.53
199	1	7	80	1	38.46	23.48	1007840.00	0.10	149.57	13640.00	0.00	93.59	0.23	38.46
200	1	8	80	1	58.25	23.07	1099802.00	0.10	151.93	13640.00	0.00	95.25	0.23	58.25
201	1	9	80	1	57.10	22.52	1186987.00	0.10	154.17	13200.00	0.00	97.55	0.23	57.10
202	1	10	80	1	43.69	37.95	1200000.00	0.03	154.50	23288.00	0.00	98.83	0.39	43.69
203	1	11	80	1	36.27	35.52	1200000.00	0.03	154.50	21126.70	0.00	99.00	0.37	36.27
204	1	12	80	1	21.28	22.21	1195351.00	0.10	154.38	13640.00	0.00	98.94	0.23	21.28
205	1	1	81	1	7.47	22.34	1152849.00	0.10	153.29	13640.00	0.00	98.34	0.23	7.47
206	1	2	81	1	4.13	22.61	1105214.00	0.10	152.07	12320.00	0.00	97.18	0.23	4.13
207	1	3	81	1	3.73	22.92	1050173.00	0.10	150.66	13640.00	0.00	95.86	0.23	3.73
208	1	4	81	1	6.17	23.24	1002586.00	0.10	149.44	13200.00	0.00	94.55	0.23	6.17

1
 LOC NO= 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.

PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY 6	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
209	1	5	81	1	13.07	23.49	971889.50	0.10	148.65	13640.00	0.00	93.54	0.23	13.07
210	1	6	81	1	41.28	23.44	1015810.00	0.10	149.78	13200.00	0.00	93.71	0.23	41.28
211	1	7	81	1	15.31	23.38	991879.80	0.10	149.16	13640.00	0.00	93.97	0.23	15.31
212	1	8	81	1	17.55	23.52	973720.10	0.10	148.70	13640.00	0.00	93.43	0.23	17.55
213	1	9	81	1	28.94	23.54	985507.80	0.10	149.00	13200.00	0.00	93.35	0.23	28.94
214	1	10	81	1	17.55	22.56	970000.00	0.10	148.60	13069.90	570.10	93.30	0.22	17.55
215	1	11	81	1	42.44	23.45	1017503.00	0.10	149.82	13200.00	0.00	93.71	0.23	42.44
216	1	12	81	1	25.39	23.28	1021187.00	0.10	149.91	13640.00	0.00	94.37	0.23	25.39
217	1	1	82	1	3.79	22.00	970000.00	0.10	148.60	12806.45	833.55	93.76	0.22	3.79
218	1	2	82	1	2.37	1.27	970000.00	0.10	148.60	660.66	11659.34	93.10	0.01	2.37
219	1	3	82	1	1.88	0.60	970000.00	0.10	148.60	348.42	13291.58	93.10	0.01	1.88
220	1	4	82	1	4.21	2.96	970000.00	0.10	148.60	1656.70	11543.30	93.10	0.03	4.21
221	1	5	82	1	10.60	9.57	970000.00	0.10	148.60	5530.06	8109.94	93.10	0.09	10.60
222	1	6	82	1	12.78	11.90	970000.00	0.10	148.60	6657.45	6542.55	93.10	0.12	12.78
223	1	7	82	1	34.84	23.51	998066.30	0.10	149.32	13640.00	0.00	93.46	0.23	34.84
224	1	8	82	1	43.02	23.26	1048766.00	0.10	150.62	13640.00	0.00	94.47	0.23	43.02
225	1	9	82	1	46.01	22.92	1106266.00	0.10	152.10	13200.00	0.00	95.86	0.23	46.01
226	1	10	82	1	18.44	22.79	1092392.00	0.10	151.74	13640.00	0.00	96.42	0.23	18.44
227	1	11	82	1	27.89	22.79	1103760.00	0.10	152.03	13200.00	0.00	96.39	0.23	27.89
228	1	12	82	1	11.57	22.86	1071485.00	0.10	151.20	13640.00	0.00	96.12	0.23	11.57
229	1	1	83	1	8.50	23.09	1029931.00	0.10	150.14	13640.00	0.00	95.17	0.23	8.50
230	1	2	83	1	4.46	23.37	981455.10	0.10	148.89	12320.00	0.00	94.02	0.23	4.46
231	1	3	83	1	2.34	5.34	970000.00	0.10	148.60	3088.56	10551.44	93.25	0.05	2.34
232	1	4	83	1	2.36	1.11	970000.00	0.10	148.60	621.91	12578.09	93.10	0.01	2.36
233	1	5	83	1	10.20	9.17	970000.00	0.10	148.60	5298.86	8341.14	93.10	0.09	10.20
234	1	6	83	1	21.35	20.47	970000.00	0.10	148.60	11451.04	1748.96	93.10	0.20	21.35
235	1	7	83	1	18.90	18.05	970000.00	0.10	148.60	10435.10	3204.90	93.10	0.18	18.90
236	1	8	83	1	43.44	23.43	1021389.00	0.10	149.92	13640.00	0.00	93.76	0.23	43.44
237	1	9	83	1	42.74	23.12	1069945.00	0.10	151.16	13200.00	0.00	95.04	0.23	42.74
238	1	10	83	1	46.24	22.78	1130545.00	0.10	152.72	13640.00	0.00	96.44	0.23	46.24
239	1	11	83	1	55.86	28.33	1200000.00	0.03	154.50	16697.29	0.00	98.11	0.29	55.86
240	1	12	83	1	16.50	22.24	1182456.00	0.10	154.05	13640.00	0.00	98.77	0.23	16.50
241	1	1	84	1	6.31	22.43	1136640.00	0.10	152.87	13640.00	0.00	97.96	0.23	6.31
242	1	2	84	1	4.31	22.71	1087634.00	0.10	151.62	12760.00	0.00	96.75	0.23	4.31
243	1	3	84	1	2.44	23.04	1028857.00	0.10	150.11	13640.00	0.00	95.36	0.23	2.44
244	1	4	84	1	3.90	23.39	975032.10	0.10	148.73	13200.00	0.00	93.92	0.23	3.90
245	1	5	84	1	11.30	12.14	970000.00	0.10	148.60	7024.52	6615.48	93.16	0.12	11.30
246	1	6	84	1	26.49	23.58	975258.90	0.10	148.73	13200.00	0.00	93.17	0.23	26.49
247	1	7	84	1	21.36	22.48	970000.00	0.10	148.60	13000.43	639.57	93.17	0.22	21.36
248	1	8	84	1	68.89	23.21	1090094.00	0.10	151.68	13640.00	0.00	94.64	0.23	68.89
249	1	9	84	1	44.31	22.68	1143753.00	0.10	153.06	13200.00	0.00	96.87	0.23	44.31
250	1	10	84	1	37.62	22.41	1182187.00	0.10	154.04	13640.00	0.00	98.05	0.23	37.62
251	1	11	84	1	27.24	22.26	1193153.00	0.10	154.32	13200.00	0.00	98.68	0.23	27.24
252	1	12	84	1	17.01	22.28	1176886.00	0.10	153.91	13640.00	0.00	98.62	0.23	17.01
253	1	1	85	1	8.85	22.44	1137842.00	0.10	152.91	13640.00	0.00	97.91	0.23	8.85
254	1	2	85	1	4.75	22.69	1091523.00	0.10	151.72	12320.00	0.00	96.81	0.23	4.75
255	1	3	85	1	2.90	23.01	1034044.00	0.10	150.24	13640.00	0.00	95.48	0.23	2.90
256	1	4	85	1	3.75	23.36	979903.40	0.10	148.85	13200.00	0.00	94.05	0.23	3.75
257	1	5	85	1	8.60	11.26	970000.00	0.10	148.60	6518.27	7121.73	93.23	0.11	8.60

258	1	6	85	1	31.07	23.54	987222.40	0.10	149.04	13200.00	0.00	93.32	0.23	31.07
259	1	7	85	1	12.70	18.28	970000.00	0.10	148.60	10590.59	3049.41	93.32	0.18	12.70
260	1	8	85	1	36.20	23.50	1001842.00	0.10	149.42	13640.00	0.00	93.51	0.23	36.20

1														
LOC NO=														
3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.														
PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY 6	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
261	1	9	85	1	39.68	23.27	1042113.00	0.10	150.45	13200.00	0.00	94.43	0.23	39.68
262	1	10	85	1	40.93	23.00	1087958.00	0.10	151.63	13640.00	0.00	95.54	0.23	40.93
263	1	11	85	1	38.43	22.74	1126782.00	0.10	152.62	13200.00	0.00	96.62	0.23	38.43
264	1	12	85	1	15.06	22.69	1104274.00	0.10	152.04	13640.00	0.00	96.83	0.23	15.06
265	1	1	86	1	1.14	22.94	1043356.00	0.10	150.48	13640.00	0.00	95.76	0.23	1.14
266	1	2	86	1	3.45	23.29	992606.10	0.10	149.18	12320.00	0.00	94.33	0.23	3.45
267	1	3	86	1	5.38	12.53	970000.00	0.10	148.60	7267.17	6372.83	93.39	0.12	5.38
268	1	4	86	1	4.77	3.52	970000.00	0.10	148.60	1969.93	11230.07	93.10	0.03	4.77
269	1	5	86	1	24.30	23.27	970000.00	0.10	148.60	13640.00	0.00	93.10	0.23	24.30
270	1	6	86	1	18.32	17.44	970000.00	0.10	148.60	9756.22	3443.78	93.10	0.17	18.32
271	1	7	86	1	22.04	21.19	970000.00	0.10	148.60	12249.99	1390.01	93.10	0.21	22.04
272	1	8	86	1	77.72	23.14	1113928.00	0.10	152.29	13640.00	0.00	94.95	0.23	77.72
273	1	9	86	1	41.27	22.56	1159992.00	0.10	153.47	13200.00	0.00	97.38	0.23	41.27
274	1	10	86	1	28.40	22.38	1173787.00	0.10	153.83	13640.00	0.00	98.15	0.23	28.40
275	1	11	86	1	36.91	26.05	1200000.00	0.03	154.50	15442.77	0.00	98.66	0.27	36.91
276	1	12	86	1	12.00	22.28	1170316.00	0.10	153.74	13640.00	0.00	98.62	0.23	12.00
277	1	1	87	1	4.30	22.52	1118903.00	0.10	152.42	13640.00	0.00	97.58	0.23	4.30
278	1	2	87	1	3.50	22.82	1069292.00	0.10	151.15	12320.00	0.00	96.28	0.23	3.50
279	1	3	87	1	3.90	23.14	1014184.00	0.10	149.73	13640.00	0.00	94.94	0.23	3.90
280	1	4	87	1	5.40	21.18	970000.00	0.10	148.60	11919.84	1280.16	93.67	0.21	5.40
281	1	5	87	1	12.10	11.07	970000.00	0.10	148.60	6397.05	7242.95	93.10	0.11	12.10
282	1	6	87	1	18.70	17.82	970000.00	0.10	148.60	9968.78	3231.22	93.10	0.17	18.70
283	1	7	87	1	10.40	9.55	970000.00	0.10	148.60	5522.19	8117.81	93.10	0.09	10.40
284	1	8	87	1	23.70	22.89	970000.00	0.10	148.60	13231.55	408.45	93.10	0.22	23.70
285	1	9	87	1	33.10	23.53	992596.30	0.10	149.18	13200.00	0.00	93.39	0.23	33.10
286	1	10	87	1	18.90	23.50	978190.80	0.10	148.81	13640.00	0.00	93.49	0.23	18.90
287	1	11	87	1	36.40	23.44	1010044.00	0.10	149.63	13200.00	0.00	93.72	0.23	36.40
288	1	12	87	1	20.80	23.37	1001216.00	0.10	149.40	13640.00	0.00	94.01	0.23	20.80
289	1	1	88	1	24.40	23.40	1001486.00	0.10	149.41	13640.00	0.00	93.90	0.23	24.40
290	1	2	88	1	17.80	23.45	984619.60	0.10	148.98	12760.00	0.00	93.69	0.23	17.80
291	1	3	88	1	12.30	16.48	970000.00	0.10	148.60	9541.82	4098.18	93.29	0.16	12.30
292	1	4	88	1	13.80	12.55	970000.00	0.10	148.60	7020.82	6179.18	93.10	0.12	13.80
293	1	5	88	1	20.00	18.97	970000.00	0.10	148.60	10963.17	2676.83	93.10	0.18	20.00
294	1	6	88	1	20.80	19.92	970000.00	0.10	148.60	11143.40	2056.60	93.10	0.19	20.80
295	1	7	88	1	20.30	19.45	970000.00	0.10	148.60	11244.29	2395.71	93.10	0.19	20.30
296	1	8	88	1	16.80	15.99	970000.00	0.10	148.60	9243.42	4396.58	93.10	0.16	16.80
297	1	9	88	1	42.20	23.45	1016366.00	0.10	149.79	13200.00	0.00	93.69	0.23	42.20
298	1	10	88	1	47.30	23.10	1079006.00	0.10	151.40	13640.00	0.00	95.09	0.23	47.30
299	1	11	88	1	55.10	22.66	1161224.00	0.10	153.51	13200.00	0.00	96.95	0.23	55.10
300	1	12	88	1	18.90	22.45	1149590.00	0.10	153.21	13640.00	0.00	97.86	0.23	18.90
301	1	1	89	1	20.30	22.51	1141041.00	0.10	152.99	13640.00	0.00	97.60	0.23	20.30
302	1	2	89	1	9.60	22.64	1106573.00	0.10	152.10	12320.00	0.00	97.05	0.23	9.60
303	1	3	89	1	13.50	22.83	1077907.00	0.10	151.37	13640.00	0.00	96.24	0.23	13.50
304	1	4	89	1	12.40	23.01	1046980.00	0.10	150.57	13200.00	0.00	95.47	0.23	12.40

305	1	5	89	1	28.30	23.07	1058072.00	0.10	150.86	13640.00	0.00	95.22	0.23	28.30
306	1	6	89	1	25.70	23.03	1062603.00	0.10	150.98	13200.00	0.00	95.42	0.23	25.70
307	1	7	89	1	22.50	23.02	1058809.00	0.10	150.88	13640.00	0.00	95.43	0.23	22.50
308	1	8	89	1	67.10	22.68	1175427.00	0.10	153.87	13640.00	0.00	96.87	0.23	67.10
309	1	9	89	1	40.50	30.06	1200000.00	0.03	154.50	17819.98	0.00	98.68	0.31	40.50
310	1	10	89	1	36.60	35.72	1200000.00	0.03	154.50	21953.98	0.00	99.00	0.37	36.60
311	1	11	89	1	40.20	39.45	1200000.00	0.03	154.50	23464.23	0.00	99.00	0.41	40.20
312	1	12	89	1	33.90	33.09	1200000.00	0.03	154.50	20337.22	0.00	99.00	0.34	33.90

1
LOC NO= 3. 3. 3. 3. 3. 3. 3. 3. 3.

PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY G	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
313	1	1	90	1	20.60	22.21	1192981.00	0.10	154.32	13640.00	0.00	98.91	0.23	20.60
314	1	2	90	1	3.90	22.37	1145297.00	0.10	153.10	12320.00	0.00	98.21	0.23	3.90
315	1	3	90	1	8.60	22.63	1103962.00	0.10	152.04	13640.00	0.00	97.07	0.23	8.60
316	1	4	90	1	7.90	22.89	1061656.00	0.10	150.95	13200.00	0.00	95.99	0.23	7.90
317	1	5	90	1	16.80	23.08	1041936.00	0.10	150.45	13640.00	0.00	95.20	0.23	16.80
318	1	6	90	1	26.40	23.12	1048055.00	0.10	150.60	13200.00	0.00	95.02	0.23	26.40
319	1	7	90	1	16.20	23.17	1027033.00	0.10	150.06	13640.00	0.00	94.83	0.23	16.20
320	1	8	90	1	32.10	23.17	1048709.00	0.10	150.62	13640.00	0.00	94.84	0.23	32.10
321	1	9	90	1	45.00	22.93	1103571.00	0.10	152.03	13200.00	0.00	95.82	0.23	45.00
322	1	10	90	1	42.98	22.60	1155876.00	0.10	153.37	13640.00	0.00	97.20	0.23	42.98
323	1	11	90	1	47.16	29.40	1200000.00	0.03	154.50	17384.11	0.00	98.43	0.30	47.16
324	1	12	90	1	28.68	27.87	1200000.00	0.03	154.50	17128.91	0.00	99.00	0.29	28.68
325	1	1	91	1	28.64	27.63	1200000.00	0.03	154.50	16982.04	0.00	99.00	0.29	28.64
326	1	2	91	1	6.68	22.31	1159172.00	0.10	153.45	12320.00	0.00	98.48	0.23	6.68
327	1	3	91	1	9.67	22.54	1120917.00	0.10	152.47	13640.00	0.00	97.46	0.23	9.67
328	1	4	91	1	8.34	22.78	1079995.00	0.10	151.42	13200.00	0.00	96.45	0.23	8.34
329	1	5	91	1	13.61	22.99	1051941.00	0.10	150.70	13640.00	0.00	95.56	0.23	13.61
330	1	6	91	1	14.69	23.15	1027631.00	0.10	150.08	13200.00	0.00	94.89	0.23	14.69
331	1	7	91	1	19.93	23.27	1016359.00	0.10	149.79	13640.00	0.00	94.43	0.23	19.93
332	1	8	91	1	42.23	23.15	1065213.00	0.10	151.04	13640.00	0.00	94.92	0.23	42.23
333	1	9	91	1	46.47	22.82	1124153.00	0.10	152.55	13200.00	0.00	96.30	0.23	46.47
334	1	10	91	1	28.79	22.59	1138475.00	0.10	152.92	13640.00	0.00	97.24	0.23	28.79
335	1	11	91	1	29.89	22.50	1155737.00	0.10	153.36	13200.00	0.00	97.64	0.23	29.89
336	1	12	91	1	17.04	22.50	1139004.00	0.10	152.94	13640.00	0.00	97.65	0.23	17.04
SUM =					8435.43	8068.33*****		30.38	50833.40	4736189.00	360325.40	32183.15	81.21	8435.43
MAX =					125.00	100.18	1200000.00	0.10	154.50	57600.00	13291.58	99.00	1.00	125.00
MIN =					1.14	0.29	970000.00	0.03	148.60	163.25	0.00	93.10	0.00	1.14
PMAX=					167.00	167.00	10.00	1.00	10.00	167.00	219.00	11.00	167.00	167.00
AVG =					25.11	24.01	1074852.00	0.09	151.29	14095.80	1072.40	95.78	0.24	25.11
PMIN=					265.00	160.00	1.00	10.00	1.00	160.00	8.00	1.00	160.00	265.00

1
*USERS. 3 USER DESIGNED OUTPUT

SUMMARY BY PERIOD FLOOD= 1

LOC NO=	4.	4.	4.	5.	5.	5.	6.	6.	7.	7.
CODE=	4.060	4.040	4.240	5.040	5.240	5.060	6.020	6.040	7.060	7.040
PER DY MO YR DW	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG
1 1 1 64 1	0.00	18.19	0.00	107.76	64.93	0.00	213.80	213.80	0.00	321.56
2 1 2 64 1	3.42	12.78	1.18	45.36	13.22	0.00	44.98	44.98	0.00	90.34
3 1 3 64 1	0.00	19.33	14.13	30.12	0.00	0.00	22.73	22.73	0.00	52.85
4 1 4 64 1	0.00	18.05	13.06	33.04	0.00	0.00	23.28	23.28	0.00	56.32
5 1 5 64 1	0.00	39.40	17.35	142.90	2.90	0.00	61.41	61.41	0.00	204.31
6 1 6 64 1	0.00	20.54	1.87	110.61	3.36	0.00	73.12	73.12	0.00	183.73
7 1 7 64 1	0.00	10.76	0.00	93.21	0.00	0.00	22.57	22.57	0.00	115.78
8 1 8 64 1	0.00	36.91	13.72	194.68	0.00	0.00	187.78	187.78	0.00	382.46
9 1 9 64 1	0.00	22.61	0.00	162.54	20.90	0.00	207.80	207.80	0.00	370.34
10 1 10 64 1	0.00	35.14	10.64	263.88	51.26	0.00	237.92	237.92	0.00	501.80
11 1 11 64 1	0.00	112.47	33.50	446.78	145.72	0.00	347.75	347.75	0.00	794.53
12 1 12 64 1	0.00	54.90	7.93	187.08	63.08	0.00	569.03	569.03	0.00	756.11
13 1 1 65 1	0.00	22.23	0.00	147.27	63.67	0.00	210.64	210.64	0.00	357.91
14 1 2 65 1	0.00	23.66	1.30	94.53	10.54	0.00	39.28	39.28	0.00	133.81
15 1 3 65 1	0.00	37.34	14.74	96.58	0.00	0.00	22.77	22.77	0.00	119.35
16 1 4 65 1	0.00	59.75	36.91	122.89	0.00	0.00	26.09	26.09	0.00	148.98
17 1 5 65 1	0.00	37.13	14.16	131.89	3.45	0.00	59.98	59.98	0.00	191.87
18 1 6 65 1	0.00	22.74	0.00	260.04	33.49	0.00	168.07	168.07	0.00	428.11
19 1 7 65 1	0.00	63.58	34.11	608.12	43.00	0.00	372.50	372.50	0.00	980.62
20 1 8 65 1	0.00	35.13	0.00	279.16	32.26	0.00	123.43	123.43	0.00	402.59
21 1 9 65 1	0.00	57.59	1.95	448.60	44.59	0.00	272.44	272.44	0.00	721.04
22 1 10 65 1	0.00	44.10	9.33	255.90	42.09	0.00	236.67	236.67	0.00	492.57
23 1 11 65 1	0.00	82.69	24.10	301.11	84.50	0.00	307.00	307.00	0.00	608.11
24 1 12 65 1	0.00	56.19	7.94	191.30	64.48	0.00	581.66	581.66	0.00	772.96
25 1 1 66 1	0.00	62.46	0.00	436.76	307.62	0.00	823.30	823.30	0.00	1260.06
26 1 2 66 1	0.00	23.54	1.26	94.91	11.42	0.00	41.14	41.14	0.00	136.05
27 1 3 66 1	0.00	29.93	7.40	89.29	0.00	0.00	22.34	22.34	0.00	111.63
28 1 4 66 1	0.00	35.75	12.92	97.52	0.00	0.00	23.26	23.26	0.00	120.78
29 1 5 66 1	0.00	45.49	22.55	152.51	2.00	0.00	63.70	63.70	0.00	216.21
30 1 6 66 1	0.00	25.67	2.70	106.06	1.44	0.00	67.10	67.10	0.00	173.16
31 1 7 66 1	0.00	27.29	4.27	149.47	12.54	0.00	141.58	141.58	0.00	291.05
32 1 8 66 1	0.00	22.81	0.00	341.13	22.54	0.00	147.88	147.88	0.00	489.01
33 1 9 66 1	0.00	22.51	0.00	163.03	0.00	0.00	129.61	129.61	0.00	292.64
34 1 10 66 1	0.00	28.53	6.10	155.44	19.67	0.00	233.60	233.60	0.00	389.04
35 1 11 66 1	0.00	59.21	21.62	247.07	68.36	0.00	296.26	296.26	0.00	543.33
36 1 12 66 1	0.00	81.49	8.17	274.14	91.93	0.00	830.05	830.05	0.00	1104.19
37 1 1 67 1	0.00	24.04	1.74	99.23	14.64	0.00	87.48	87.48	0.00	186.71
38 1 2 67 1	0.00	24.02	1.48	90.31	5.98	0.00	29.61	29.61	0.00	119.92
39 1 3 67 1	0.00	22.93	0.06	86.95	3.50	0.00	21.90	21.90	0.00	108.85
40 1 4 67 1	0.00	37.74	14.55	100.27	0.00	0.00	23.45	23.45	0.00	123.72
41 1 5 67 1	0.00	43.79	20.46	148.39	2.37	0.00	62.80	62.80	0.00	211.19
42 1 6 67 1	0.00	23.16	0.00	163.47	23.01	0.00	135.04	135.04	0.00	298.51
43 1 7 67 1	0.00	56.74	33.95	587.67	44.60	0.00	377.52	377.52	0.00	965.19
44 1 8 67 1	0.00	124.14	39.68	789.23	0.00	0.00	255.36	255.36	0.00	1044.59
45 1 9 67 1	0.00	44.72	0.00	308.98	18.85	0.00	202.37	202.37	0.00	511.35
46 1 10 67 1	0.00	34.82	7.39	195.89	28.70	0.00	234.83	234.83	0.00	430.72

47	1	11	67	1	0.00	46.86	12.79	129.58	9.92	0.00	257.96	257.96	0.00	387.54
48	1	12	67	1	0.00	29.89	7.69	129.58	35.06	0.00	315.59	315.59	0.00	445.17
49	1	1	68	1	0.00	23.50	1.20	105.39	20.90	0.00	103.30	103.30	0.00	208.69
50	1	2	68	1	0.00	23.95	1.42	92.13	7.50	0.00	32.83	32.83	0.00	124.96
51	1	3	68	1	0.00	29.16	6.33	89.53	0.00	0.00	22.27	22.27	0.00	111.80
52	1	4	68	1	0.00	30.50	7.35	93.02	0.00	0.00	22.60	22.60	0.00	115.62
1														
LOC NO=					4.	4.	4.	5.	5.	5.	6.	6.	7.	7.
					CP-4 (X.	CP-4 (X.	CP-4 (X.	CP-5 (X	CP-5 (X	CP-5 (X	DUM.RES.	DUM.RES.	DUM LAST	DUM LAST
PER DY MO YR DW					DEQ-SHOR	FLOW REG	LOCAL IN	FLOW REG	LOCAL IN	DEQ-SHOR	NATURAL	FLOW REG	DEQ-SHOR	FLOW REG
53	1	5	68	1	0.00	28.56	5.16	110.75	4.98	0.00	55.95	55.95	0.00	166.70
54	1	6	68	1	0.00	25.15	1.63	114.09	3.91	0.00	74.87	74.87	0.00	188.96
55	1	7	68	1	0.00	36.37	12.88	176.64	21.94	0.00	210.01	210.01	0.00	386.65
56	1	8	68	1	0.00	81.95	43.26	717.77	0.00	0.00	264.68	264.68	0.00	982.45
57	1	9	68	1	0.00	47.92	0.00	349.37	26.40	0.00	222.93	222.93	0.00	572.30
58	1	10	68	1	0.00	32.34	6.88	179.81	25.10	0.00	234.34	234.34	0.00	414.15
59	1	11	68	1	0.00	36.91	9.64	108.14	0.00	0.00	244.40	244.40	0.00	352.54
60	1	12	68	1	0.00	29.88	7.61	119.46	24.92	0.00	223.81	223.81	0.00	343.27
61	1	1	69	1	0.00	23.20	0.76	110.54	25.95	0.00	115.90	115.90	0.00	226.44
62	1	2	69	1	0.00	24.19	1.51	90.51	5.39	0.00	28.37	28.37	0.00	118.98
63	1	3	69	1	0.00	23.02	0.00	88.72	4.43	0.00	21.84	21.84	0.00	110.56
64	1	4	69	1	0.00	24.64	1.26	88.73	1.41	0.00	21.88	21.88	0.00	110.61
65	1	5	69	1	0.00	12.21	0.23	87.54	5.82	0.00	53.74	53.74	0.00	141.28
66	1	6	69	1	0.00	19.95	2.18	106.08	2.63	0.00	70.82	70.82	0.00	176.90
67	1	7	69	1	0.00	26.15	3.44	141.49	11.63	0.00	134.90	134.90	0.00	276.39
68	1	8	69	1	0.00	21.11	0.00	137.80	38.37	0.00	98.39	98.39	0.00	236.19
69	1	9	69	1	0.00	34.86	11.74	546.63	103.10	0.00	431.80	431.80	0.00	978.43
70	1	10	69	1	0.00	29.16	6.50	166.68	22.47	0.00	233.98	233.98	0.00	400.66
71	1	11	69	1	0.00	38.99	16.49	163.66	34.98	0.00	274.04	274.04	0.00	437.70
72	1	12	69	1	0.00	30.03	7.61	119.76	25.29	0.00	227.18	227.18	0.00	346.94
73	1	1	70	1	0.00	24.96	2.34	108.79	22.98	0.00	70.60	70.60	0.00	179.39
74	1	2	70	1	0.00	24.38	1.49	96.01	10.90	0.00	24.40	24.40	0.00	120.41
75	1	3	70	1	0.00	37.94	14.74	97.79	0.00	0.00	30.60	30.60	0.00	128.39
76	1	4	70	1	0.00	19.65	1.93	91.36	9.35	0.00	20.40	20.40	0.00	111.76
77	1	5	70	1	0.00	7.29	0.00	84.41	12.36	0.00	28.00	28.00	0.00	112.41
78	1	6	70	1	0.00	22.70	0.70	134.64	22.73	0.00	59.80	59.80	0.00	194.44
79	1	7	70	1	0.00	31.69	8.12	175.57	33.00	0.00	93.30	93.30	0.00	268.87
80	1	8	70	1	0.00	23.40	0.00	181.47	43.75	0.00	171.40	171.40	0.00	352.87
81	1	9	70	1	0.00	23.08	0.00	300.02	25.87	0.00	160.90	160.90	0.00	460.92
82	1	10	70	1	0.00	33.30	10.53	279.42	53.23	0.00	212.80	212.80	0.00	492.22
83	1	11	70	1	0.00	39.12	16.64	181.02	51.32	0.00	679.00	679.00	0.00	860.02
84	1	12	70	1	0.00	30.04	7.74	142.60	47.89	0.00	161.70	161.70	0.00	304.30
85	1	1	71	1	0.00	24.28	1.90	94.94	9.91	0.00	63.50	63.50	0.00	158.44
86	1	2	71	1	0.00	24.01	1.40	88.00	3.40	0.00	23.10	23.10	0.00	111.10
87	1	3	71	1	0.00	26.64	3.73	87.09	0.00	0.00	14.60	14.60	0.00	101.69
88	1	4	71	1	0.00	27.09	3.84	89.36	0.00	0.00	14.30	14.30	0.00	103.66
89	1	5	71	1	0.00	19.01	0.00	86.33	0.70	0.00	18.70	18.70	0.00	105.03
90	1	6	71	1	0.00	23.49	0.00	152.57	19.81	0.00	26.60	26.60	0.00	179.17
91	1	7	71	1	0.00	25.40	2.01	174.86	49.75	0.00	39.20	39.20	0.00	214.06
92	1	8	71	1	0.00	23.47	0.00	122.73	30.09	0.00	33.60	33.60	0.00	156.33
93	1	9	71	1	0.00	23.45	0.00	130.45	0.00	0.00	49.80	49.80	0.00	180.25

94	1	10	71	1	0.00	43.45	20.53	538.00	128.03	0.00	194.90	194.90	0.00	732.90
95	1	11	71	1	0.00	36.68	14.32	154.06	40.33	0.00	117.30	117.30	0.00	271.36
96	1	12	71	1	0.00	29.94	7.64	121.91	27.48	0.00	165.80	165.80	0.00	287.71
97	1	1	72	1	0.00	24.89	2.42	95.56	11.45	0.00	50.40	50.40	0.00	145.96
98	1	2	72	1	0.00	24.22	1.50	88.07	5.53	0.00	22.70	22.70	0.00	110.77
99	1	3	72	1	0.00	26.87	3.83	85.74	0.20	0.00	14.90	14.90	0.00	100.64
100	1	4	72	1	0.00	35.38	12.01	98.18	0.00	0.00	23.90	23.90	0.00	122.08
101	1	5	72	1	0.00	10.71	0.00	78.88	3.92	0.00	23.90	23.90	0.00	102.78
102	1	6	72	1	0.00	23.60	0.00	101.47	0.00	0.00	27.40	27.40	0.00	128.87
103	1	7	72	1	0.00	23.53	0.00	128.20	0.00	0.00	35.80	35.80	0.00	164.00
104	1	8	72	1	0.00	25.15	1.74	145.12	10.97	0.00	44.10	44.10	0.00	189.22

1

LOC NO=

4. 4. 4. 5. 5. 5. 6. 6. 7. 7.

PER	DY	MO	YR	DW	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG
105	1	9	72	1	0.00	27.46	4.19	181.91	7.74	0.00	131.60	131.60	0.00	313.51
106	1	10	72	1	0.00	25.74	2.59	164.03	33.01	0.00	221.80	221.80	0.00	385.83
107	1	11	72	1	0.00	50.73	27.71	153.41	11.88	0.00	231.90	231.90	0.00	385.31
108	1	12	72	1	0.00	29.18	6.29	119.02	28.11	0.00	214.70	214.70	0.00	333.72
109	1	1	73	1	0.00	25.19	2.24	103.06	16.20	0.00	79.50	79.50	0.00	182.56
110	1	2	73	1	0.00	24.27	1.06	94.10	9.01	0.00	33.50	33.50	0.00	127.60
111	1	3	73	1	0.00	18.78	1.43	85.77	6.52	0.00	23.20	23.20	0.00	108.97
112	1	4	73	1	2.29	2.01	0.95	61.66	0.00	0.00	13.10	13.10	0.00	74.76
113	1	5	73	1	0.00	4.94	0.00	74.77	8.08	0.00	41.10	41.10	0.00	115.87
114	1	6	73	1	0.00	19.75	4.81	102.79	0.00	0.00	82.90	82.90	0.00	185.69
115	1	7	73	1	0.00	29.20	5.75	164.70	23.35	0.00	201.60	201.60	0.00	366.30
116	1	8	73	1	0.00	23.14	0.00	192.55	43.75	0.00	174.40	174.40	0.00	366.95
117	1	9	73	1	0.00	22.68	0.00	247.82	46.24	0.00	201.00	201.00	0.00	448.82
118	1	10	73	1	0.00	48.66	26.29	336.95	88.53	0.00	201.60	201.60	0.00	538.55
119	1	11	73	1	0.00	95.96	71.52	466.63	193.30	0.00	405.50	405.50	0.00	872.13
120	1	12	73	1	0.00	35.61	12.90	155.26	54.71	0.00	280.80	280.80	0.00	436.06
121	1	1	74	1	0.00	75.97	28.81	321.09	180.98	0.00	809.10	809.10	0.00	1130.19
122	1	2	74	1	0.00	22.85	0.58	99.19	15.97	0.00	94.30	94.30	0.00	193.49
123	1	3	74	1	0.00	23.31	0.83	89.97	6.67	0.00	48.50	48.50	0.00	138.67
124	1	4	74	1	0.00	23.17	0.40	86.57	1.43	0.00	19.70	19.70	0.00	106.27
125	1	5	74	1	0.00	24.58	1.58	107.76	6.95	0.00	56.40	56.40	0.00	164.16
126	1	6	74	1	0.00	26.79	3.77	131.81	9.77	0.00	59.40	59.40	0.00	191.21
127	1	7	74	1	0.00	24.29	1.30	103.86	0.00	0.00	68.00	68.00	0.00	171.86
128	1	8	74	1	0.00	30.20	7.52	424.77	20.56	0.00	110.50	110.50	0.00	535.27
129	1	9	74	1	0.00	24.73	2.41	233.33	25.90	0.00	145.40	145.40	0.00	378.73
130	1	10	74	1	0.00	33.30	5.97	343.17	57.50	0.00	252.80	252.80	0.00	595.97
131	1	11	74	1	0.00	110.89	33.71	385.74	83.40	0.00	368.80	368.80	0.00	754.54
132	1	12	74	1	0.00	51.47	14.94	158.97	43.09	0.00	230.40	230.40	0.00	389.37
133	1	1	75	1	0.00	24.20	1.91	105.46	22.32	0.00	44.40	44.40	0.00	149.86
134	1	2	75	1	0.00	23.71	1.20	89.90	7.54	0.00	24.00	24.00	0.00	113.90
135	1	3	75	1	0.00	24.29	1.50	88.37	4.84	0.00	16.00	16.00	0.00	104.37
136	1	4	75	1	0.00	24.12	1.02	91.06	6.40	0.00	33.60	33.60	0.00	124.66
137	1	5	75	1	0.00	24.95	1.58	100.28	10.08	0.00	64.20	64.20	0.00	164.48
138	1	6	75	1	0.00	29.84	6.61	166.39	6.23	0.00	199.80	199.80	0.00	366.19
139	1	7	75	1	0.00	23.05	0.00	103.91	0.00	0.00	119.10	119.10	0.00	223.01
140	1	8	75	1	0.00	25.39	2.50	274.44	34.90	0.00	146.00	146.00	0.00	420.44

141	1	9	75	1	0.00	22.47	0.00	145.33	2.82	0.00	137.00	137.00	0.00	282.33
142	1	10	75	1	0.00	56.85	5.94	388.90	83.34	0.00	207.20	207.20	0.00	596.10
143	1	11	75	1	0.00	103.95	36.03	332.84	87.48	0.00	301.30	301.30	0.00	634.14
144	1	12	75	1	0.00	32.11	7.53	127.67	34.38	0.00	140.80	140.80	0.00	268.47
145	1	1	76	1	0.00	25.70	3.38	85.16	0.00	0.00	61.20	61.20	0.00	146.36
146	1	2	76	1	0.00	24.36	1.75	90.69	6.83	0.00	27.30	27.30	0.00	117.99
147	1	3	76	1	0.00	23.96	1.01	88.10	3.68	0.00	17.90	17.90	0.00	106.00
148	1	4	76	1	0.00	23.30	0.00	87.76	3.43	0.00	20.40	20.40	0.00	108.16
149	1	5	76	1	0.00	44.78	21.28	145.84	13.00	0.00	73.20	73.20	0.00	219.04
150	1	6	76	1	0.00	25.44	1.88	115.67	4.50	0.00	81.80	81.80	0.00	197.47
151	1	7	76	1	0.00	23.94	0.40	134.19	6.88	0.00	61.20	61.20	0.00	195.39
152	1	8	76	1	0.00	23.58	0.00	151.24	37.49	0.00	101.90	101.90	0.00	253.14
153	1	9	76	1	0.00	23.22	0.00	402.98	53.35	0.00	198.30	198.30	0.00	601.28
154	1	10	76	1	0.00	26.58	3.65	107.65	14.01	0.00	173.60	173.60	0.00	281.25
155	1	11	76	1	0.00	46.57	23.78	209.51	68.78	0.00	233.00	233.00	0.00	442.51
156	1	12	76	1	0.00	36.26	13.55	132.52	34.98	0.00	180.30	180.30	0.00	312.82

1

LOC NO=

4. 4. 4. 5. 5. 5. 6. 6. 7. 7.

PER	DY	MO	YR	DW	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG
157	1	1	77	1	0.00	28.87	5.93	88.40	0.00	0.00	43.70	43.70	0.00	132.10
158	1	2	77	1	0.00	26.90	3.67	92.34	6.14	0.00	26.00	26.00	0.00	118.34

ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

188	1	8	79	1	0.00	62.46	8.53	485.94	42.01	0.00	248.70	248.70	0.00	734.64
189	1	9	79	1	0.00	41.08	0.00	273.95	20.50	0.00	227.20	227.20	0.00	501.15
190	1	10	79	1	0.00	84.87	3.98	501.47	108.17	0.00	234.50	234.50	0.00	735.97
191	1	11	79	1	0.00	82.08	19.17	146.15	0.00	0.00	205.60	205.60	0.00	351.75
192	1	12	79	1	0.00	34.75	12.50	113.34	17.39	0.00	95.60	95.60	0.00	208.94
193	1	1	80	1	0.00	24.11	1.66	118.31	30.25	0.00	61.60	61.60	0.00	179.91
194	1	2	80	1	0.00	23.98	1.23	112.18	26.23	0.00	47.10	47.10	0.00	159.28
195	1	3	80	1	0.00	27.11	4.02	106.22	18.16	0.00	36.20	36.20	0.00	142.42
196	1	4	80	1	0.00	20.45	0.73	98.48	16.21	0.00	30.10	30.10	0.00	128.58
197	1	5	80	1	0.00	10.93	1.13	95.92	17.80	0.00	63.80	63.80	0.00	159.72
198	1	6	80	1	0.00	24.94	2.29	135.38	25.23	0.00	176.70	176.70	0.00	312.08
199	1	7	80	1	0.00	25.90	2.42	218.85	71.40	0.00	460.70	460.70	0.00	679.55
200	1	8	80	1	0.00	23.07	0.00	327.91	21.82	0.00	408.10	408.10	0.00	736.01
201	1	9	80	1	0.00	26.15	3.63	546.13	144.49	0.00	591.40	591.40	0.00	1137.53
202	1	10	80	1	0.00	42.83	4.88	301.52	94.98	0.00	316.20	316.20	0.00	617.72
203	1	11	80	1	0.00	47.41	11.89	275.89	106.60	0.00	286.30	286.30	0.00	562.19
204	1	12	80	1	0.00	30.09	7.88	165.78	66.65	0.00	146.00	146.00	0.00	311.78
205	1	1	81	1	0.00	24.72	2.38	92.90	7.81	0.00	45.50	45.50	0.00	138.40
206	1	2	81	1	0.00	23.53	0.92	89.13	4.28	0.00	21.10	21.10	0.00	110.23
207	1	3	81	1	0.00	22.92	0.00	88.41	4.50	0.00	17.20	17.20	0.00	105.61
208	1	4	81	1	0.00	23.24	0.00	109.10	23.38	0.00	23.50	23.50	0.00	132.60

1

LOC NO=				4.	4.	4.	5.	5.	5.	6.	6.	7.	7.	
PER	DY	MO	YR	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG	
209	1	5	81	1	0.00	23.49	0.00	133.96	40.80	0.00	91.80	91.80	0.00	225.76
210	1	6	81	1	0.00	23.44	0.00	183.17	50.06	0.00	145.10	145.10	0.00	328.27
211	1	7	81	1	0.00	23.38	0.00	136.18	30.13	0.00	50.80	50.80	0.00	186.98
212	1	8	81	1	0.00	23.52	0.00	105.70	8.03	0.00	31.70	31.70	0.00	137.40
213	1	9	81	1	0.00	23.54	0.00	126.97	15.43	0.00	71.00	71.00	0.00	197.97
214	1	10	81	1	0.00	24.87	2.31	106.52	5.40	0.00	95.60	95.60	0.00	202.12
215	1	11	81	1	0.00	51.42	27.97	218.21	81.27	0.00	237.30	237.30	0.00	455.51
216	1	12	81	1	0.00	29.05	5.77	97.81	0.00	0.00	291.20	291.20	0.00	389.01
217	1	1	82	1	0.00	27.02	5.02	90.79	1.32	0.00	39.20	39.20	0.00	129.99
218	1	2	82	1	13.27	2.93	1.66	66.48	0.00	0.00	17.80	17.80	0.00	84.28
219	1	3	82	1	13.90	0.60	0.00	63.98	0.00	0.00	9.00	9.00	0.00	72.98
220	1	4	82	1	0.00	6.84	3.88	75.94	3.22	0.00	30.90	30.90	0.00	106.84
221	1	5	82	1	0.00	10.26	0.69	80.92	0.00	0.00	80.60	80.60	0.00	161.52
222	1	6	82	1	0.00	16.51	4.61	93.32	0.00	0.00	130.80	130.80	0.00	224.12
223	1	7	82	1	0.00	41.74	18.23	273.32	99.61	0.00	270.30	270.30	0.00	543.62
224	1	8	82	1	0.00	23.26	0.00	207.77	71.76	0.00	205.00	205.00	0.00	412.77
225	1	9	82	1	0.00	22.92	0.00	311.65	112.48	0.00	187.10	187.10	0.00	498.75
226	1	10	82	1	0.00	28.02	5.23	140.59	26.24	0.00	239.30	239.30	0.00	379.89
227	1	11	82	1	0.00	33.22	10.43	136.10	30.56	0.00	258.50	258.50	0.00	394.60
228	1	12	82	1	0.00	31.12	8.26	120.46	22.98	0.00	102.30	102.30	0.00	222.76
229	1	1	83	1	0.00	25.69	2.60	94.28	6.20	0.00	49.30	49.30	0.00	143.58
230	1	2	83	1	0.00	24.96	1.59	93.00	4.53	0.00	51.70	51.70	0.00	144.70
231	1	3	83	1	8.76	5.74	0.40	70.38	2.22	0.00	22.80	22.80	0.00	93.18
232	1	4	83	1	3.19	1.11	0.00	66.09	2.96	0.00	9.30	9.30	0.00	75.39
233	1	5	83	1	0.00	9.27	0.10	84.99	1.77	0.00	27.30	27.30	0.00	112.29
234	1	6	83	1	0.00	21.82	1.35	114.44	1.56	0.00	84.90	84.90	0.00	199.34

235	1	7	83	1	0.00	18.05	0.00	118.74	3.09	0.00	102.70	102.70	0.00	221.44
236	1	8	83	1	0.00	23.43	0.00	163.69	23.29	0.00	169.10	169.10	0.00	332.79
237	1	9	83	1	0.00	23.12	0.00	150.62	21.46	0.00	203.30	203.30	0.00	353.92
238	1	10	83	1	0.00	35.94	13.16	320.18	62.23	0.00	290.80	290.80	0.00	610.98
239	1	11	83	1	0.00	51.20	22.87	238.03	56.80	0.00	244.60	244.60	0.00	482.63
240	1	12	83	1	0.00	30.01	7.77	118.83	22.05	0.00	89.00	89.00	0.00	207.83
241	1	1	84	1	0.00	25.92	3.49	94.30	6.84	0.00	160.50	160.50	0.00	254.80
242	1	2	84	1	0.00	24.20	1.49	130.54	43.72	0.00	50.80	50.80	0.00	181.34
243	1	3	84	1	0.00	23.72	0.68	145.38	58.54	0.00	41.80	41.80	0.00	187.18
244	1	4	84	1	0.00	25.49	2.10	89.76	0.00	0.00	27.80	27.80	0.00	117.56
245	1	5	84	1	0.00	13.73	1.59	83.79	0.00	0.00	85.10	85.10	0.00	168.89
246	1	6	84	1	0.00	23.58	0.00	127.25	1.48	0.00	109.20	109.20	0.00	236.45
247	1	7	84	1	0.00	23.33	0.85	152.78	34.66	0.00	159.40	159.40	0.00	312.18
248	1	8	84	1	0.00	34.78	11.57	319.74	50.99	0.00	84.40	84.40	0.00	404.14
249	1	9	84	1	0.00	22.68	0.00	293.28	51.30	0.00	120.40	120.40	0.00	413.68
250	1	10	84	1	0.00	32.42	10.01	248.64	31.75	0.00	264.00	264.00	0.00	512.64
251	1	11	84	1	0.00	31.70	9.44	101.17	0.38	0.00	115.70	115.70	0.00	216.87
252	1	12	84	1	0.00	30.05	7.77	136.49	41.15	0.00	297.20	297.20	0.00	433.69
253	1	1	85	1	0.00	24.70	2.26	86.03	0.00	0.00	53.80	53.80	0.00	139.83
254	1	2	85	1	0.00	24.16	1.47	86.50	0.00	0.00	23.10	23.10	0.00	109.60
255	1	3	85	1	0.00	25.25	2.24	86.90	0.00	0.00	14.20	14.20	0.00	101.10
256	1	4	85	1	0.00	24.78	1.42	100.30	9.27	0.00	29.70	29.70	0.00	130.00
257	1	5	85	1	0.00	11.26	0.00	91.60	8.53	0.00	103.40	103.40	0.00	195.00
258	1	6	85	1	0.00	23.54	0.00	157.11	31.53	0.00	134.30	134.30	0.00	291.41
259	1	7	85	1	0.00	18.28	0.00	93.34	0.00	0.00	56.80	56.80	0.00	150.14
260	1	8	85	1	0.00	23.50	0.00	127.67	0.00	0.00	67.60	67.60	0.00	195.27

1

LOC NO=

4. 4. 4. 5. 5. 5. 6. 6. 7. 7.

PER	DY	MO	YR	DW	CP-4 (X) DEQ-SHOR	CP-4 (X) FLOW REG	CP-4 (X) LOCAL IN	CP-5 (X) FLOW REG	CP-5 (X) LOCAL IN	CP-5 (X) DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG
261	1	9	85	1	0.00	23.27	0.00	126.79	0.00	0.00	134.30	134.30	0.00	261.09
262	1	10	85	1	0.00	33.90	10.90	183.25	2.35	0.00	276.30	276.30	0.00	459.55
263	1	11	85	1	0.00	37.70	14.96	127.42	5.34	0.00	240.40	240.40	0.00	367.82
264	1	12	85	1	0.00	30.44	7.75	98.37	0.00	0.00	131.00	131.00	0.00	229.37
265	1	1	86	1	0.00	28.91	5.97	96.19	7.26	0.00	60.10	60.10	0.00	156.29
266	1	2	86	1	0.00	24.80	1.51	85.75	0.00	0.00	31.80	31.80	0.00	117.55
267	1	3	86	1	0.00	23.17	10.64	83.46	0.00	0.00	21.30	21.30	0.00	104.76
268	1	4	86	1	0.00	9.76	6.24	71.43	0.00	0.00	15.00	15.00	0.00	86.43
269	1	5	86	1	0.00	42.58	19.31	156.03	0.00	0.00	71.70	71.70	0.00	227.73
270	1	6	86	1	0.00	19.78	2.34	112.93	0.00	0.00	69.40	69.40	0.00	182.33
271	1	7	86	1	0.00	22.86	1.67	144.21	0.00	0.00	136.60	136.60	0.00	280.81
272	1	8	86	1	0.00	40.80	17.66	426.35	0.00	0.00	221.80	221.80	0.00	648.15
273	1	9	86	1	0.00	22.56	0.00	329.57	29.29	0.00	413.20	413.20	0.00	742.77
274	1	10	86	1	0.00	29.93	7.55	197.74	24.72	0.00	445.00	445.00	0.00	642.74
275	1	11	86	1	0.00	40.04	13.99	187.64	64.03	0.00	326.80	326.80	0.00	514.44
276	1	12	86	1	0.00	30.01	7.73	161.76	63.76	0.00	172.10	172.10	0.00	333.86
277	1	1	87	1	0.00	26.97	4.45	97.02	9.59	0.00	78.80	78.80	0.00	175.82
278	1	2	87	1	0.00	24.36	1.54	121.41	36.23	0.00	39.70	39.70	0.00	161.11
279	1	3	87	1	0.00	28.65	5.51	125.77	36.50	0.00	20.90	20.90	0.00	146.67
280	1	4	87	1	0.00	30.65	9.47	93.48	0.00	0.00	15.80	15.80	0.00	109.28
281	1	5	87	1	0.00	13.71	2.64	104.67	17.75	0.00	32.50	32.50	0.00	137.17

282	1	6	87	1	0.00	20.01	2.19	129.25	26.07	0.00	64.80	64.80	0.00	194.05
283	1	7	87	1	0.00	9.55	0.00	152.89	65.57	0.00	22.40	22.40	0.00	175.29
284	1	8	87	1	0.00	22.89	0.00	186.73	81.58	0.00	140.80	140.80	0.00	327.53
285	1	9	87	1	0.00	23.53	0.00	187.19	55.06	0.00	147.80	147.80	0.00	334.99
286	1	10	87	1	0.00	28.53	5.03	133.55	25.36	0.00	173.20	173.20	0.00	306.75
287	1	11	87	1	0.00	37.25	13.81	155.16	42.16	0.00	226.10	226.10	0.00	381.26
288	1	12	87	1	0.00	31.14	7.77	129.52	31.14	0.00	316.60	316.60	0.00	446.12
289	1	1	88	1	0.00	23.40	0.00	165.93	77.70	0.00	71.70	71.70	0.00	237.63
290	1	2	88	1	0.00	24.50	1.05	109.86	21.80	0.00	34.30	34.30	0.00	144.16
291	1	3	88	1	0.00	50.44	33.96	111.24	0.00	0.00	23.90	23.90	0.00	135.14
292	1	4	88	1	0.00	61.94	49.39	128.43	0.00	0.00	24.30	24.30	0.00	152.73
293	1	5	88	1	0.00	32.43	13.46	128.04	3.02	0.00	65.70	65.70	0.00	193.74
294	1	6	88	1	0.00	21.36	1.44	128.22	19.40	0.00	28.20	28.20	0.00	156.42
295	1	7	88	1	0.00	19.45	0.00	138.81	21.66	0.00	134.00	134.00	0.00	272.81
296	1	8	88	1	0.00	15.99	0.00	115.06	27.37	0.00	129.20	129.20	0.00	244.26
297	1	9	88	1	0.00	23.45	0.00	185.20	44.85	0.00	271.60	271.60	0.00	456.80
298	1	10	88	1	0.00	35.71	12.61	188.44	48.18	0.00	281.90	281.90	0.00	470.34
299	1	11	88	1	0.00	45.21	22.55	141.12	17.60	0.00	548.60	548.60	0.00	689.72
300	1	12	88	1	0.00	30.26	7.81	125.76	30.65	0.00	249.40	249.40	0.00	375.16
301	1	1	89	1	0.00	22.51	0.00	143.90	59.27	0.00	21.20	21.20	0.00	165.10
302	1	2	89	1	0.00	23.94	1.30	94.66	9.76	0.00	13.70	13.70	0.00	108.36
303	1	3	89	1	0.00	60.76	37.93	118.95	0.00	0.00	12.10	12.10	0.00	131.05
304	1	4	89	1	0.00	65.76	42.75	129.60	0.00	0.00	27.90	27.90	0.00	157.50
305	1	5	89	1	0.00	47.88	24.81	158.05	1.47	0.00	51.90	51.90	0.00	209.95
306	1	6	89	1	0.00	23.03	0.00	140.96	26.37	0.00	54.00	54.00	0.00	194.96
307	1	7	89	1	0.00	25.17	2.15	141.57	17.16	0.00	80.30	80.30	0.00	221.87
308	1	8	89	1	0.00	32.97	10.29	478.49	62.83	0.00	115.40	115.40	0.00	593.89
309	1	9	89	1	0.00	30.06	0.00	267.38	39.90	0.00	158.20	158.20	0.00	425.58
310	1	10	89	1	0.00	45.45	9.73	323.88	103.96	0.00	280.80	280.80	0.00	604.68
311	1	11	89	1	0.00	54.95	15.50	244.67	107.19	0.00	212.60	212.60	0.00	457.27
312	1	12	89	1	0.00	41.02	7.93	134.29	28.43	0.00	43.30	43.30	0.00	177.59

1

LOC NO=	4.	4.	4.	5.	5.	5.	6.	6.	7.	7.				
PER DY MO YR DW	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG				
313	1	1	90	1	0.00	22.21	0.00	144.30	60.39	0.00	119.20	119.20	0.00	263.50
314	1	2	90	1	0.00	23.88	1.51	89.22	4.97	0.00	63.20	63.20	0.00	152.42
315	1	3	90	1	0.00	44.00	21.37	103.00	0.00	0.00	61.50	61.50	0.00	164.50
316	1	4	90	1	0.00	44.29	21.40	106.97	0.00	0.00	47.20	47.20	0.00	154.17
317	1	5	90	1	0.00	32.25	9.17	118.80	3.50	0.00	86.50	86.50	0.00	205.30
318	1	6	90	1	0.00	23.12	0.00	144.85	28.61	0.00	123.10	123.10	0.00	267.95
319	1	7	90	1	0.00	23.17	0.00	124.99	14.30	0.00	89.60	89.60	0.00	214.59
320	1	8	90	1	0.00	23.17	0.00	170.56	54.63	0.00	187.20	187.20	0.00	357.76
321	1	9	90	1	0.00	22.93	0.00	268.02	32.09	0.00	202.50	202.50	0.00	470.52
322	1	10	90	1	0.00	34.04	11.44	243.21	14.69	0.00	436.90	436.90	0.00	680.11
323	1	11	90	1	0.00	48.19	18.79	148.54	1.73	0.00	709.70	709.70	0.00	858.24
324	1	12	90	1	0.00	35.76	7.89	148.54	48.41	0.00	376.30	376.30	0.00	524.84
325	1	1	91	1	0.00	27.63	0.00	186.66	96.57	0.00	345.02	345.02	0.00	531.68
326	1	2	91	1	0.00	23.72	1.41	91.00	6.89	0.00	34.68	34.68	0.00	125.68
327	1	3	91	1	0.00	47.67	25.13	106.32	0.00	0.00	23.35	23.35	0.00	129.67
328	1	4	91	1	0.00	46.01	23.23	108.67	0.00	0.00	24.43	24.43	0.00	133.10

329	1	5	91	1	0.00	27.73	4.74	107.60	4.10	0.00	55.70	55.70	0.00	163.30
330	1	6	91	1	0.00	26.78	3.63	103.36	0.00	0.00	60.71	60.71	0.00	164.07
331	1	7	91	1	0.00	23.27	0.00	124.58	5.73	0.00	100.74	100.74	0.00	225.32
332	1	8	91	1	0.00	23.15	0.00	154.68	22.99	0.00	134.39	134.39	0.00	289.07
333	1	9	91	1	0.00	22.82	0.00	277.96	17.04	0.00	207.37	207.37	0.00	485.33
334	1	10	91	1	0.00	30.24	7.65	189.44	24.37	0.00	234.95	234.95	0.00	424.39
335	1	11	91	1	0.00	33.19	10.69	104.86	0.00	0.00	248.11	248.11	0.00	352.97
336	1	12	91	1	0.00	30.27	7.77	119.21	24.26	0.00	264.48	264.48	0.00	383.69
SUM =					48.23	10317.27	2248.94	55382.02	8672.35	0.00	46457.69	46457.69	0.00	101839.70
MAX =					13.90	124.14	71.52	789.23	307.62	0.00	830.05	830.05	0.00	1260.06
MIN =					0.00	0.60	0.00	30.12	0.00	0.00	9.00	9.00	0.00	52.85
PMAX=					219.00	44.00	119.00	44.00	25.00	1.00	36.00	36.00	1.00	25.00
AVG =					0.14	30.71	6.69	164.83	25.81	0.00	138.27	138.27	0.00	303.09
PMIN=					1.00	219.00	1.00	3.00	3.00	1.00	219.00	219.00	1.00	3.00

COMPUTATION INTERVAL IN HOURS= 24.00

*FLOOD 2

***** FLOOD NUMBER 2 *****

UNITS OF OUTPUT

NFLRD= 2 NFLCON= 0
 IFLRD = 2 IFLCON= 1
 FLOWS MULTIPLIED BY 1.000

ALL FLOWS AND EVAPORATION IN CFS OR CMS
 RESERVOIR STORAGES IN ACRE FEET OR 1000 CU METERS
 ELEVATIONS IN FEET OR METERS
 ENERGY IN 1000 KWH EXCEPT WHEN IPER LT 24 HOURS-IN KWH

1

*USERS. 1 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 2												
LOC NO=	CODE=	1.	1.	1.	1.	1.	1.	1.	1.	1.	2.			
		1.090	1.100	1.110	1.120	1.220	1.160	1.230	1.330	1.350	2.020			
PER	DY	MO	YR	DW	RAJJAPRA INFLOW	RAJJAPRA OUTFLOW	RAJJAPRA EOP STOR	RAJJAPRA CASE	RAJJAPRA EOP ELEV	RAJJAPRA ENERGY 6	RAJJAPRA ENERGY 5	RAJJAPRA POWER HE	RAJJAPRA PLANT FA	DUM RES. NATURAL
1	4	1	75	7	39.00	56.60	5467763.00	0.10	94.24	958.90	0.00	79.89	0.17	6.00
2	5	1	75	1	45.00	56.61	5466314.00	0.10	94.23	958.90	0.00	79.88	0.17	19.00
3	6	1	75	2	105.00	56.60	5470049.00	0.10	94.25	958.90	0.00	79.89	0.17	13.00
4	7	1	75	3	89.00	56.59	5472403.00	0.10	94.26	958.90	0.00	79.91	0.17	10.00
5	8	1	75	4	68.00	56.59	5472943.00	0.10	94.27	958.90	0.00	79.92	0.17	8.00
6	9	1	75	5	102.00	56.58	5476421.00	0.10	94.29	958.90	0.00	79.93	0.17	11.00
7	10	1	75	6	133.00	56.56	5482579.00	0.10	94.32	958.90	0.00	79.95	0.17	13.00
8	11	1	75	7	94.00	56.54	5485368.00	0.10	94.34	958.90	0.00	79.98	0.17	12.00
9	12	1	75	1	67.00	56.53	5485825.00	0.10	94.34	958.90	0.00	79.99	0.17	10.00
10	13	1	75	2	56.00	56.53	5485332.00	0.10	94.34	958.90	0.00	79.99	0.17	8.00

11	14	1	75	3	50.00	56.54	5484320.00	0.10	94.33	958.90	0.00	79.99	0.17	8.00
12	15	1	75	4	47.00	56.54	5483049.00	0.10	94.33	958.90	0.00	79.98	0.17	5.00
13	16	1	75	5	43.00	56.55	5481431.00	0.10	94.32	958.90	0.00	79.97	0.17	11.00
14	17	1	75	6	40.00	56.55	5479554.00	0.10	94.31	958.90	0.00	79.96	0.17	10.00
15	18	1	75	7	38.00	56.56	5477504.00	0.10	94.29	958.90	0.00	79.95	0.17	10.00
16	19	1	75	1	36.00	56.57	5475280.00	0.10	94.28	958.90	0.00	79.94	0.17	8.00
17	20	1	75	2	34.00	56.58	5472882.00	0.10	94.27	958.90	0.00	79.92	0.17	7.00
SUM =					1086.00	961.62931	19010.00	1.70	1603.01	16301.30	0.00	1359.04	2.89	169.00
MAX =					133.00	56.61	5485825.00	0.10	94.34	958.90	0.00	79.99	0.17	19.00
MIN =					34.00	56.53	5466314.00	0.10	94.23	958.90	0.00	79.88	0.17	5.00
PMAX=					7.00	2.00	9.00	1.00	8.00	1.00	1.00	9.00	1.00	2.00
AVG =					63.88	56.57	5477589.00	0.10	94.29	958.90	0.00	79.94	0.17	9.94
PMIN=					17.00	9.00	2.00	1.00	2.00	1.00	1.00	2.00	1.00	12.00

1

*USERS. 2 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 2												
LOC NO=	CODE=	3.	3.	3.	3.	3.	3.	3.	3.	3.	3.			
		3.090	3.100	3.110	3.120	3.220	3.160	3.230	3.330	3.350	3.020			
PER	DY	MO	YR	DW	KAENG KR INFLOW	KAENG KR OUTFLOW	KAENG KR EOP STOR	KAENG KR CASE	KAENG KR EOP ELEV	KAENG KR ENERGY G	KAENG KR ENERGY S	KAENG KR POWER HE	KAENG KR PLANT FA	KAENG KR NATURAL
1	4	1	75	7	31.00	22.55	1139647.00	0.10	152.95	440.00	0.00	97.44	0.23	31.00
2	5	1	75	1	44.00	22.54	1141414.00	0.10	153.00	440.00	0.00	97.47	0.23	44.00
3	6	1	75	2	145.00	22.50	1151910.00	0.10	153.27	440.00	0.00	97.63	0.23	145.00
4	7	1	75	3	102.00	22.45	1158695.00	0.10	153.44	440.00	0.00	97.85	0.23	102.00
5	8	1	75	4	102.00	22.41	1165483.00	0.10	153.61	440.00	0.00	98.03	0.23	102.00
6	9	1	75	5	108.00	22.37	1172793.00	0.10	153.80	440.00	0.00	98.21	0.23	108.00
7	10	1	75	6	98.00	22.33	1179242.00	0.10	153.97	440.00	0.00	98.38	0.23	98.00
8	11	1	75	7	89.00	22.30	1184915.00	0.10	154.11	440.00	0.00	98.54	0.23	89.00
9	12	1	75	1	77.00	22.27	1189555.00	0.10	154.23	440.00	0.00	98.67	0.23	77.00
10	13	1	75	2	59.00	22.24	1192641.00	0.10	154.31	440.00	0.00	98.77	0.23	59.00
11	14	1	75	3	52.00	22.23	1195123.00	0.10	154.37	440.00	0.00	98.84	0.23	52.00
12	15	1	75	4	51.00	22.21	1197521.00	0.10	154.44	440.00	0.00	98.91	0.23	51.00
13	16	1	75	5	44.00	22.20	1199314.00	0.10	154.48	440.00	0.00	98.96	0.23	44.00
14	17	1	75	6	39.00	30.01	1200000.00	0.03	154.50	595.02	0.00	98.99	0.31	39.00
15	18	1	75	7	36.00	34.96	1200000.00	0.83	154.50	693.06	0.00	99.00	0.36	36.00
16	19	1	75	1	33.00	31.96	1200000.00	0.03	154.50	633.58	0.00	99.00	0.33	33.00
17	20	1	75	2	30.00	28.96	1200000.00	0.03	154.50	574.10	0.00	99.00	0.30	30.00
SUM =					1140.00	416.49200	68250.00	1.42	2617.98	8215.76	0.00	1673.69	4.29	1140.00
MAX =					145.00	34.96	1200000.00	0.10	154.50	693.06	0.00	99.00	0.36	145.00
MIN =					30.00	22.20	1139647.00	0.03	152.95	440.00	0.00	97.44	0.23	30.00

PMAX=	3.00	15.00	14.00	1.00	14.00	15.00	1.00	15.00	15.00	3.00
AVG =	67.06	24.50	1180486.00	0.08	154.00	483.28	0.00	98.45	0.25	67.06
PMIN=	17.00	13.00	1.00	14.00	1.00	1.00	1.00	1.00	1.00	17.00

1

*USERS. 3 USER DESIGNED OUTPUT

		SUMMARY BY PERIOD FLOOD= 2									
LOC NO=		4.	4.	4.	5.	5.	5.	6.	6.	7.	7.
CODE=		4.060	4.040	4.240	5.040	5.240	5.060	6.020	6.040	7.060	7.040
PER	DY MO YR DW	CP-4 (X. DEQ-SHOR	CP-4 (X. FLOW REG	CP-4 (X. LOCAL IN	CP-5 (X FLOW REG	CP-5 (X LOCAL IN	CP-5 (X DEQ-SHOR	DUM.RES. NATURAL	DUM.RES. FLOW REG	DUM LAST DEQ-SHOR	DUM LAST FLOW REG
1	4 1 75 7	0.00	53.55	31.00	147.15	31.00	0.00	356.00	356.00	0.00	503.15
2	5 1 75 1	0.00	64.55	42.00	316.01	193.00	0.00	466.00	466.00	0.00	582.82
3	6 1 75 2	0.00	146.53	124.00	448.96	292.00	0.00	1080.00	1080.00	0.00	938.51
4	7 1 75 3	0.00	120.50	98.00	602.93	412.00	0.00	2454.00	2454.00	0.00	1796.83
5	8 1 75 4	0.00	94.45	72.00	428.17	248.00	0.00	2784.00	2784.00	0.00	2741.26
6	9 1 75 5	0.00	89.41	67.00	406.49	242.00	0.00	2850.00	2850.00	0.00	3090.29
7	10 1 75 6	0.00	121.37	99.00	484.83	316.00	0.00	2707.00	2707.00	0.00	3190.53
8	11 1 75 7	0.00	123.33	101.00	593.89	409.00	0.00	2597.00	2597.00	0.00	3191.19
9	12 1 75 1	0.00	86.30	64.00	578.72	400.00	0.00	1630.00	1630.00	0.00	2910.35
10	13 1 75 2	0.00	58.27	36.00	536.65	385.00	0.00	992.00	992.00	0.00	2214.88
11	14 1 75 3	0.00	49.25	27.00	491.47	363.00	0.00	825.00	825.00	0.00	1664.09
12	15 1 75 4	0.00	50.23	28.00	446.40	329.00	0.00	667.00	667.00	0.00	1357.77
13	16 1 75 5	0.00	43.21	21.00	413.09	300.00	0.00	541.00	541.00	0.00	1137.71
14	17 1 75 6	0.00	40.44	16.00	384.35	274.00	0.00	463.00	463.00	0.00	976.06
15	18 1 75 7	0.00	43.83	14.00	350.92	242.00	0.00	409.00	409.00	0.00	859.14
16	19 1 75 1	0.00	43.64	11.00	322.35	213.00	0.00	372.00	372.00	0.00	769.54
17	20 1 75 2	0.00	40.29	9.00	294.30	187.00	0.00	340.00	340.00	0.00	698.67
SUM =		0.00	1269.15	860.00	7246.68	4836.00	0.00	21533.00	21533.00	0.00	28622.79
MAX =		0.00	146.53	124.00	602.93	412.00	0.00	2850.00	2850.00	0.00	3191.19
MIN =		0.00	40.29	9.00	147.15	31.00	0.00	340.00	340.00	0.00	503.15
PMAX=		1.00	3.00	3.00	4.00	4.00	1.00	6.00	6.00	1.00	8.00
AVG =		0.00	74.66	50.59	426.28	284.47	0.00	1266.65	1266.65	0.00	1683.69
PMIN=		1.00	17.00	17.00	1.00	1.00	1.00	17.00	17.00	1.00	1.00

1

FLOOD SUMMARY-EACH FLOOD COPY= 1

SINGLE FLOOD CONTROL RES OPERATING FOR SIX C.P.
 RAJJAPRABHA PROJECT AT TAPI RIVER BASIN
 (POWER,FLOOD,IRRIGATION) 19 / 3 / 2536

RJ. & KK. DAM
 flood y.74 FORMAT
 (1964 - 1991)

*SUMFS 1

***** FLOOD NUMBER 1 *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES
LOC	4 CP-4 (X.92)	124.	159.	72.	53.
LOC	5 CP-5 (X.6B)	789.	861.	317.	472.
LOC	7 DUM LAST DOSTR CP-7	1260.	1266.	1140.	120.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	4300000.	2.000	5600000.	3.000	508.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	165.
LOC	3 KAENG KRUNG RES.(X.6	970000.	2.000	1200000.	3.000	100.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	830.

MIN SYSTEM STG= 5270000. MAX SYSTEM STG= 6800000.

*SUMFS 2

***** FLOOD NUMBER 2 *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES
LOC	4 CP-4 (X.92)	147.	209.	124.	23.
LOC	5 CP-5 (X.6B)	603.	731.	524.	79.
LOC	7 DUM LAST DOSTR CP-7	3191.	3317.	3112.	79.

	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	5466314.	2.897	5485825.	2.912	56.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	19.
LOC	3 KAENG KRUNG RES.(X.6	1139647.	2.738	1200000.	3.000	34.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	2850.

MIN SYSTEM STG= 6605961. MAX SYSTEM STG= 6685825.

1

COPY= 1

***** MAX VALUES FOR MULTY FLOODS *****

		MAX REG Q	MAX NAT Q	MAX LOC Q	Q BY RES	
LOC	4 CP-4 (X.92)	147.	209.	124.	53.	
LOC	5 CP-5 (X.6B)	789.	861.	524.	472.	
LOC	7 DUM LAST DOSTR CP-7	3191.	3317.	3112.	120.	
	RESERVOIRS	MIN STG	MIN LEVEL	MAX STG	MAX LEVEL	MAX REL
LOC	1 RAJJAPRABHA RES (X.	4300000.	2.000	5600000.	3.000	508.
LOC	2 DUM RES.CP-2 (X.58)	0.	3.000	0.	3.000	165.
LOC	3 KAENG KRUNG RES.(X.6	970000.	2.000	1200000.	3.000	100.
LOC	6 DUM.RES.CP-6 (X.37A)	0.	3.000	0.	3.000	2850.

1

COPY= 1

*SUMPO

0

MINIMUM VALUES AND SHORTAGES FOR CONSERVATION OPERATION-ALL FLOODS

LOC	***** DESIRED FLOW *****			***** REQUIRED FLOW *****		
	SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX	SHORTAGE PERIODS	SHORTAGE VOLUME	SHORTAGE INDEX
	1 RAJJAPRABHA RES (X.	0.	-1.	0.00	0.	-1.
2 DUM RES.CP-2 (X.58)	0.	-1.	0.00	0.	-1.	0.00
3 KAENG KRUNG RES.(X.6	0.	-1.	0.00	0.	-1.	0.00
4 CP-4 (X.92)	8.	48.	0.37	0.	0.	0.00
5 CP-5 (X.6B)	0.	0.	0.00	0.	0.	0.00
6 DUM.RES.CP-6 (X.37A)	0.	-1.	0.00	0.	-1.	0.00
7 DUM LAST DOSTR CP-7	0.	0.	0.00	0.	0.	0.00

0 NOTE -1. INDICATES THAT DESIRED AND/OR REQUIRED FLOWS WERE NOT SPECIFIED FOR GIVEN CONTROL POINT

	RESERVOIRS	FLD.PER	MIN STG	MIN LEVEL
LOC	1 RAJJAPRABHA RES (X.	1.00400	4300000.	2.000
LOC	2 DUM RES.CP-2 (X.58)	2.01700	0.	3.000
LOC	3 KAENG KRUNG RES.(X.6	1.29600	970000.	2.000
LOC	6 DUM.RES.CP-6 (X.37A)	2.01700	0.	3.000

1

SUMMARY OF AT-SITE ENERGY PRODUCTIONS ** 1000 KWH ** CAPACITIES ** KW **

***** FLOOD NUMBER 1 *****

LOC=	PROJECT	PRIMARY	SECONDARY	SHORTAGE	TOTAL	MIN PEAK CAP	INSTALLED CAP
1	RAJJAPRABHA RE	9716201.	4348298.	90512.	13973990.	210450.	240000.
3	KAENG KRUNG RE	4139555.	596635.	360325.	4375864.	80000.	80000.

TOTALS OF AT-SITE ENERGY PRODUCTIONS

13855760. 4944933. 450837. 18349850.

***** FLOOD NUMBER 2 *****

LOC=	PROJECT	PRIMARY	SECONDARY	SHORTAGE	TOTAL	MIN PEAK CAP	INSTALLED CAP
1	RAJJAPRABHA RE	16301.	0.	0.	16301.	227719.	240000.
3	KAENG KRUNG RE	7480.	736.	0.	8216.	80000.	80000.

TOTALS OF AT-SITE ENERGY PRODUCTIONS

23781. 736. 0. 24517.

***** ALL FLOODS *****

1	RAJJAPRABHA RE	9732502.	4348298.	90512.	13990290.	210450.	240000.
3	KAENG KRUNG RE	4147035.	597370.	360325.	4384080.	80000.	80000.

TOTALS OF AT-SITE ENERGY PRODUCTIONS

13879540. 4945669. 450837. 18374370.

SUMMARY OF AT-SITE POWER BENEFITS ** DOLLARS **

***** FLOOD NUMBER 1 *****

LOC=	PROJECT	BENEFIT RATES				ENERGY VALUE			TOTAL ENERGY VALUE	CAPACITY VALUE
		PRI	SEC	PUR	CAP	PRIMARY	SECONDARY	PURCHASE		
1	RAJJAPRABHA RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.
3	KAENG KRUNG RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.
TOTALS OF AT-SITE POWER BENEFITS						0.	0.	0.	0.	0.

***** FLOOD NUMBER 2 *****

LOC=	PROJECT	BENEFIT RATES				ENERGY VALUE			TOTAL ENERGY VALUE	CAPACITY VALUE
		PRI	SEC	PUR	CAP	PRIMARY	SECONDARY	PURCHASE		
1	RAJJAPRABHA RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.
3	KAENG KRUNG RE	0.00	0.00	0.00	0.00	0.	0.	0.	0.	0.
TOTALS OF AT-SITE POWER BENEFITS						0.	0.	0.	0.	0.

***** ALL FLOODS *****

1	RAJJAPRABHA RE					0.	0.	0.	0.	
3	KAENG KRUNG RE					0.	0.	0.	0.	
TOTALS OF AT-SITE POWER BENEFITS						0.	0.	0.	0.	0.

1

*CASES

CASES FOR PROGRAM DETERMINED RELEASES

** CASE = X.Y, WHERE: X = CONTROLLING LOCATION
Y = NUMBER OF FUTURE PERIOD CONTROLLING

EXCEPT WHEN X=0

THEN, TYPE OF RELEASE IS BASED ON RESERVOIR REQUIREMENTS, Y =

Y=00 MINIMUM DESIRED FLOW AT DAM SITE
Y=01 OPERATIONAL CHANNEL CAPACITY AT DAM SITE
Y=02 BASED ON MAX RATE OF CHANGE OF RESERVOIR RELEASE
Y=03 RELEASE TO REACH TOP OF CONSERVATION POOL
Y=04 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
Y=05 RELEASE TO BALANCE TANDEM RESERVOIRS
Y=06 BASED ON MAX RELEASE DUE TO OUTLET CAPACITY
Y=07 BASED ON NOT DRAWING BELOW LEVEL 1
Y=08 MINIMUM REQUIRED FLOW AT DAM SITE
Y=09 RELEASE TO REACH TOP OF BUFFER LEVEL
Y=10 BASED ON AT-SITE POWER DEMAND
Y=11 MIN FLOW SINCE HIGHEST RES CANNOT RELEASE
Y=12 BASED ON SYSTEM POWER DEMAND
Y=20 BASED ON GATE REGULATION CURVE - RISING POOL
Y=21 BASED ON EMERGENCY RELEASE: PARTIAL GATE OPENING
Y=22 BASED ON EMERGENCY RELEASE: TRANSITION
Y=23 BASED ON EMERGENCY RELEASE: OUTFLOW=INFLOW
Y=29 BASED ON EMERGENCY RELEASE: PRE-RELEASE


CASES FOR USER SPECIFIED RELEASE CRITERIA (QA CARDS)

** CASE = -X.Y, WHERE: X = RELEASE (CFS) OR RELEASE CRITERIA (IF ANY)
Y = CODE THAT WAS INPUT ON QA CARD
(OR REPEATED FROM PREVIOUS PERIOD)

Y=00 X RELEASE SPECIFIED BY USER
Y=01 RELEASE SAME AS PREVIOUS PERIOD'S RELEASE
Y=02 INTERPOLATED RELEASE BETWEEN TWO USER SUPPLIED RELEASE VALUES
Y=03 PREVIOUS PERIOD RELEASE + X PERCENT
Y=04 PREVIOUS PERIOD RELEASE - X PERCENT
Y=10 PREVIOUS PERIOD RELEASE + X CONSTANT
Y=20 PREVIOUS PERIOD RELEASE - X CONSTANT
Y=22 RELEASE FROM GATE REGULATION CURVE
Y=23 RELEASE TO REACH TOP OF FLOOD CONTROL POOL
Y=24 RELEASE FOR DAM SITE OPERATIONAL CHANNEL CAPACITY
Y=25 RELEASE FOR MAXIMUM OUTLET CAPACITY
Y=26 RELEASE TO REACH TOP OF CONSERVATION POOL
Y=27 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (RISING)
Y=28 BASED ON MAXIMUM RATE OF CHANGE OF RESERVOIR RELEASE (FALLING)
Y=29 RELEASE TO REACH TOP OF BUFFER POOL
Y=30 RELEASE TO REACH LEVEL 1 POOL
Y=31 BASED ON FIRM ENERGY DEMAND
Y=32 BASED ON ALLOCATED SYSTEM POWER ENERGY

- Y=33 RELEASE TO BALANCE TANDEM RESERVOIRS
Y=34 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (DESIRED Q)
Y=35 BASED ON RESERVOIR LOW FLOW REQUIREMENTS (REQUIRED Q)
Y=36 BASED ON D.S. FLOOD CONTROL REQUIREMENTS
Y=37 BASED ON D.S. LOW FLOW REQUIREMENTS
- Y=41 OUTFLOW EQUAL INFLOW
Y=42 BASED ON PREVIOUS PERIOD GATE SETTING
Y=43 RELEASE TO REACH X LEVEL (AT END OF CURRENT PERIOD)
Y=44 RELEASE TO REACH X STORAGE (AT END OF CURRENT PERIOD)
Y=45 RELEASE TO REACH X ELEVATION (AT END OF CURRENT PERIOD)
Y=50 MINIMUM RELEASE MADE IF D.S. TANDEM RES. IS RISING AND
D.S. RELEASE IS LESS THAN VALUE X

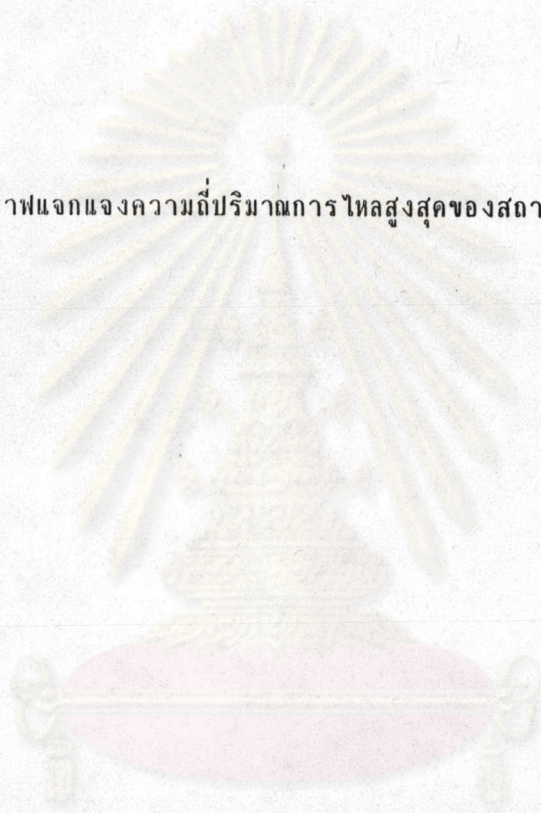
1



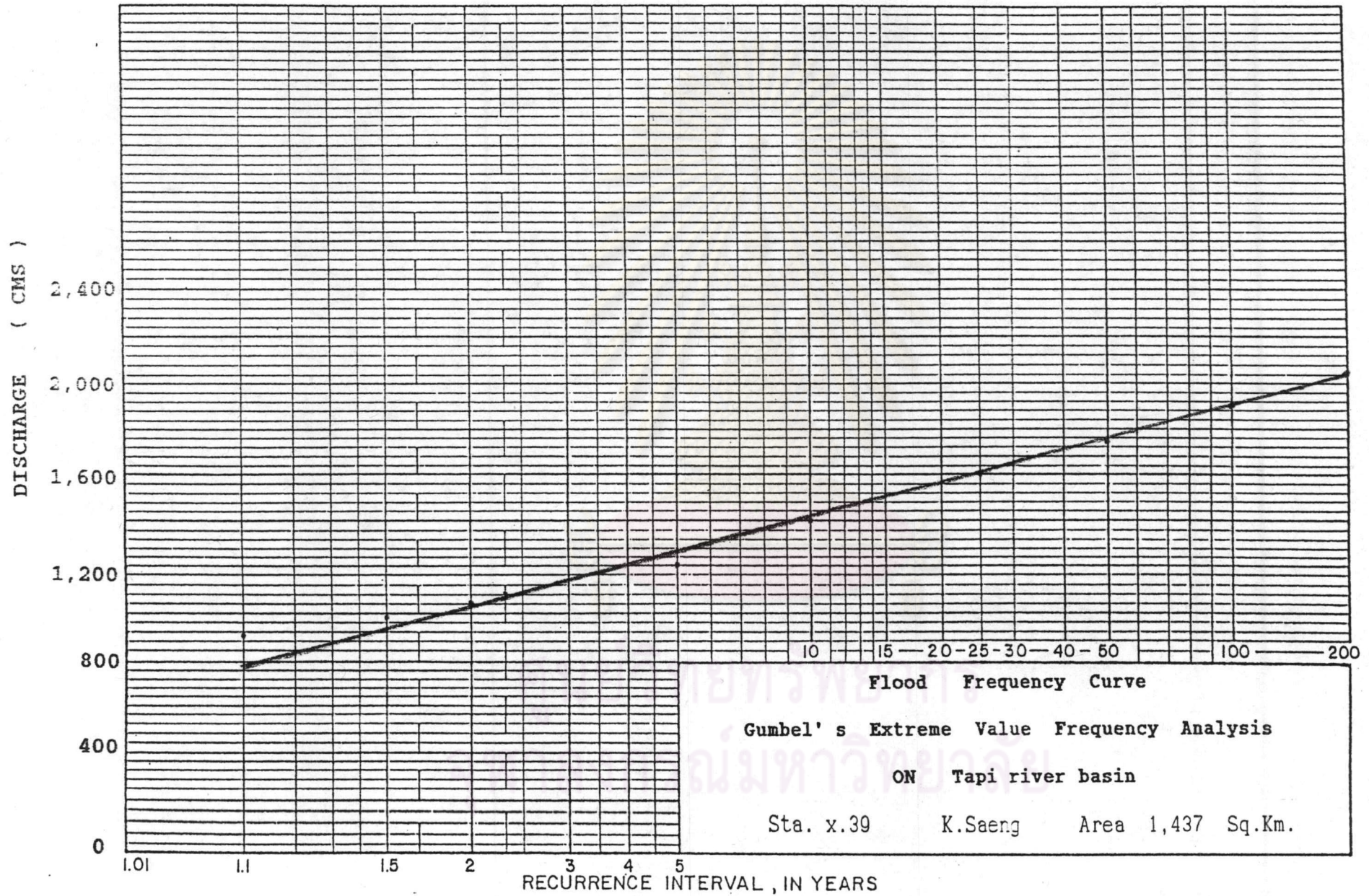
ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย

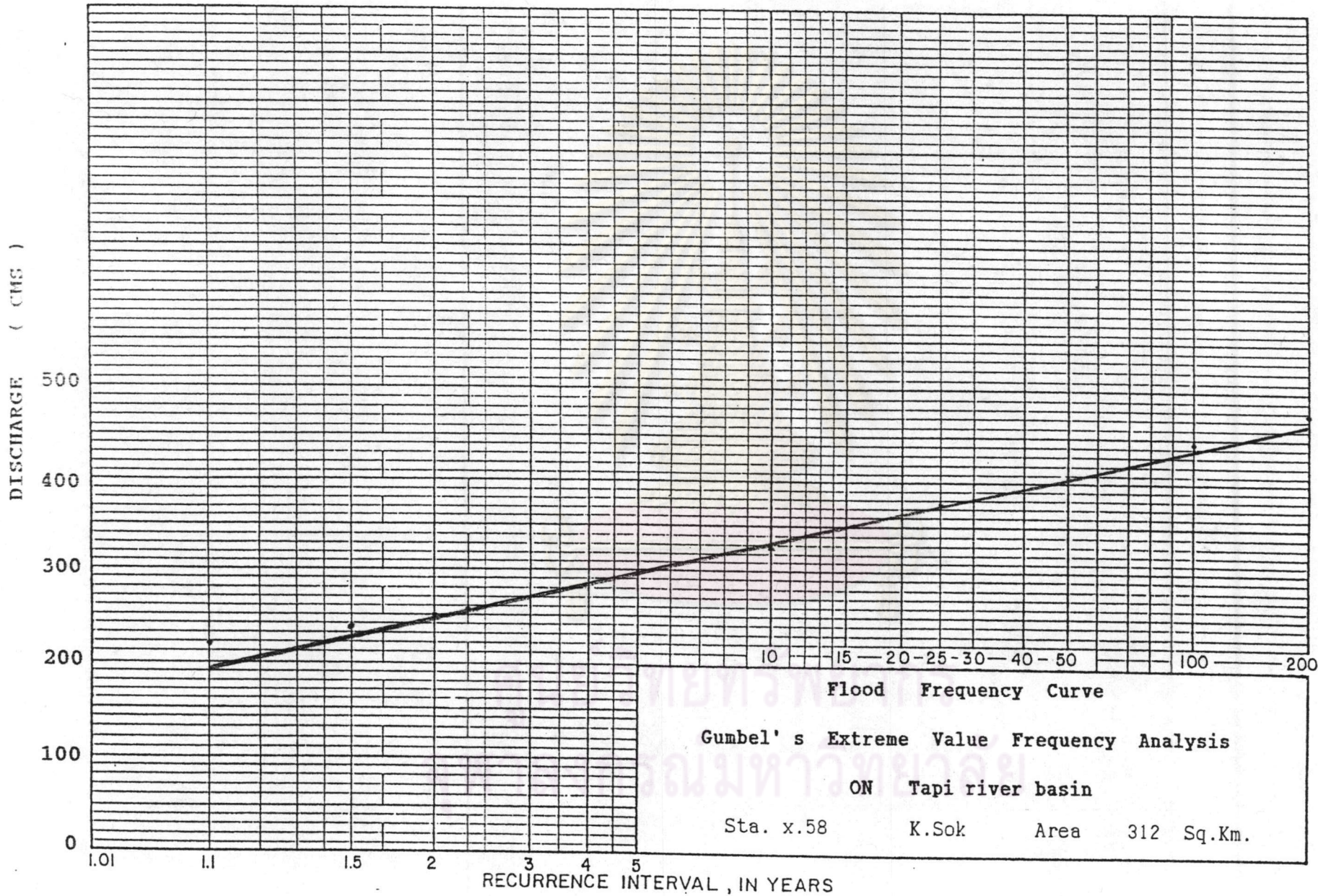
ภาคผนวก จ

กราฟแจกแจงความถี่ปริมาณการไหลสูงสุดของสถานีศึกษาในลุ่มน้ำตาปี



ศูนย์วิทยทรัพยากร
จุฬาลงกรณ์มหาวิทยาลัย





DISCHARGE (CMS)

1,000

800

600

400

200

0

1.01

1.1

1.5

2

3

4

5

10

15

20

25

30

40

50

100

200

RECURRENCE INTERVAL , IN YEARS

Flood Frequency Curve

Gumbel's Extreme Value Frequency Analysis

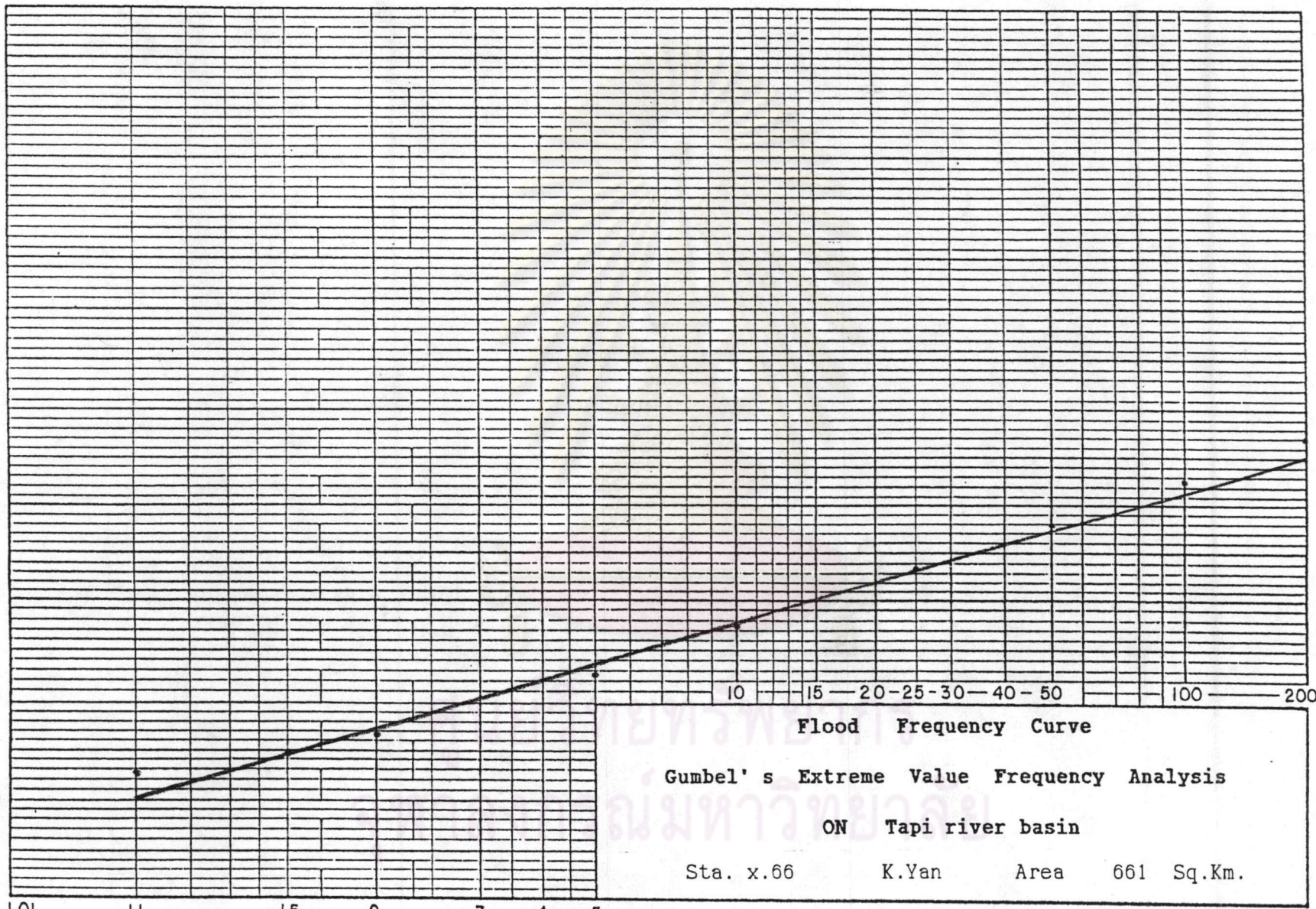
ON Tapi river basin

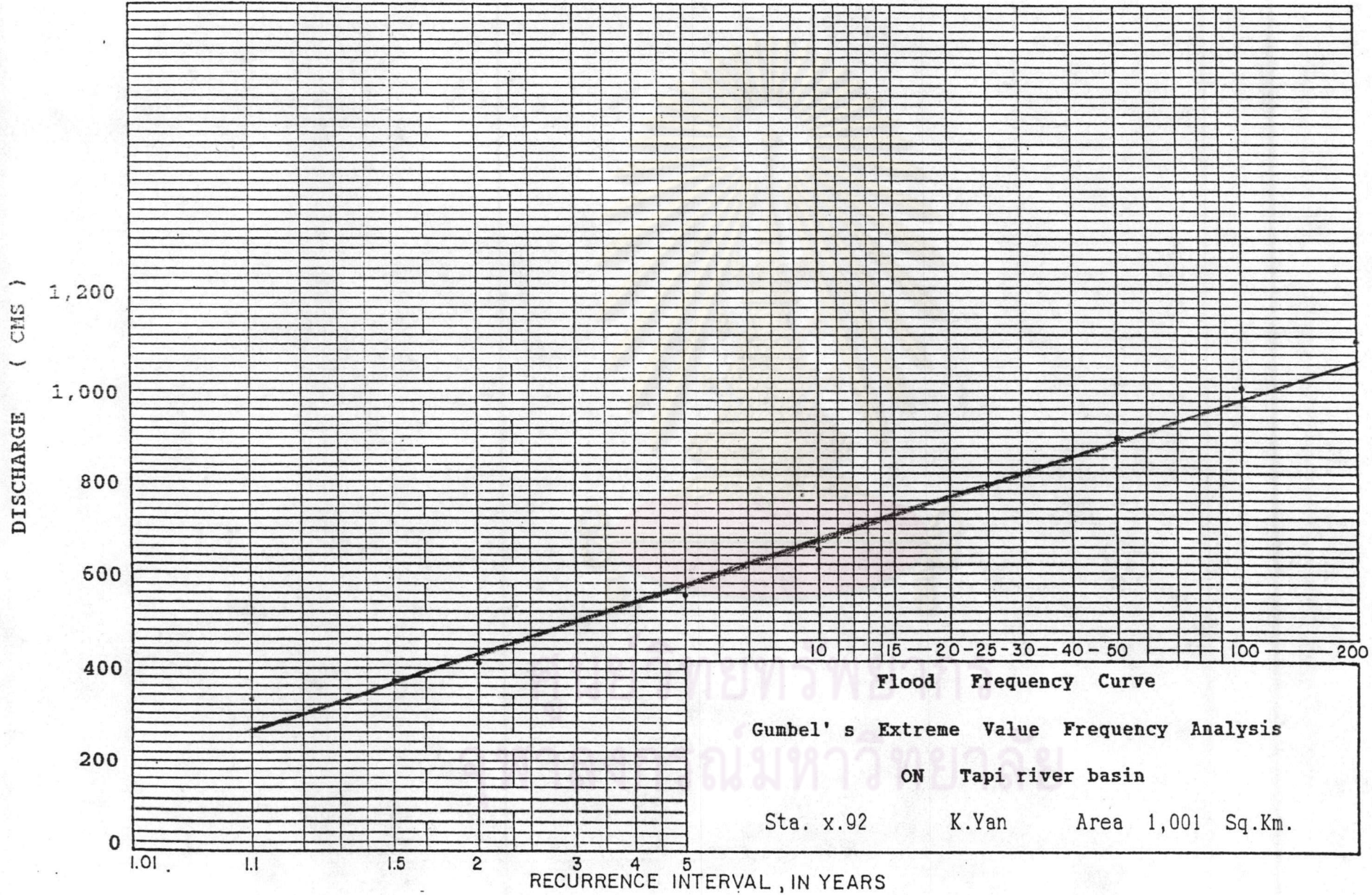
Sta. x.66

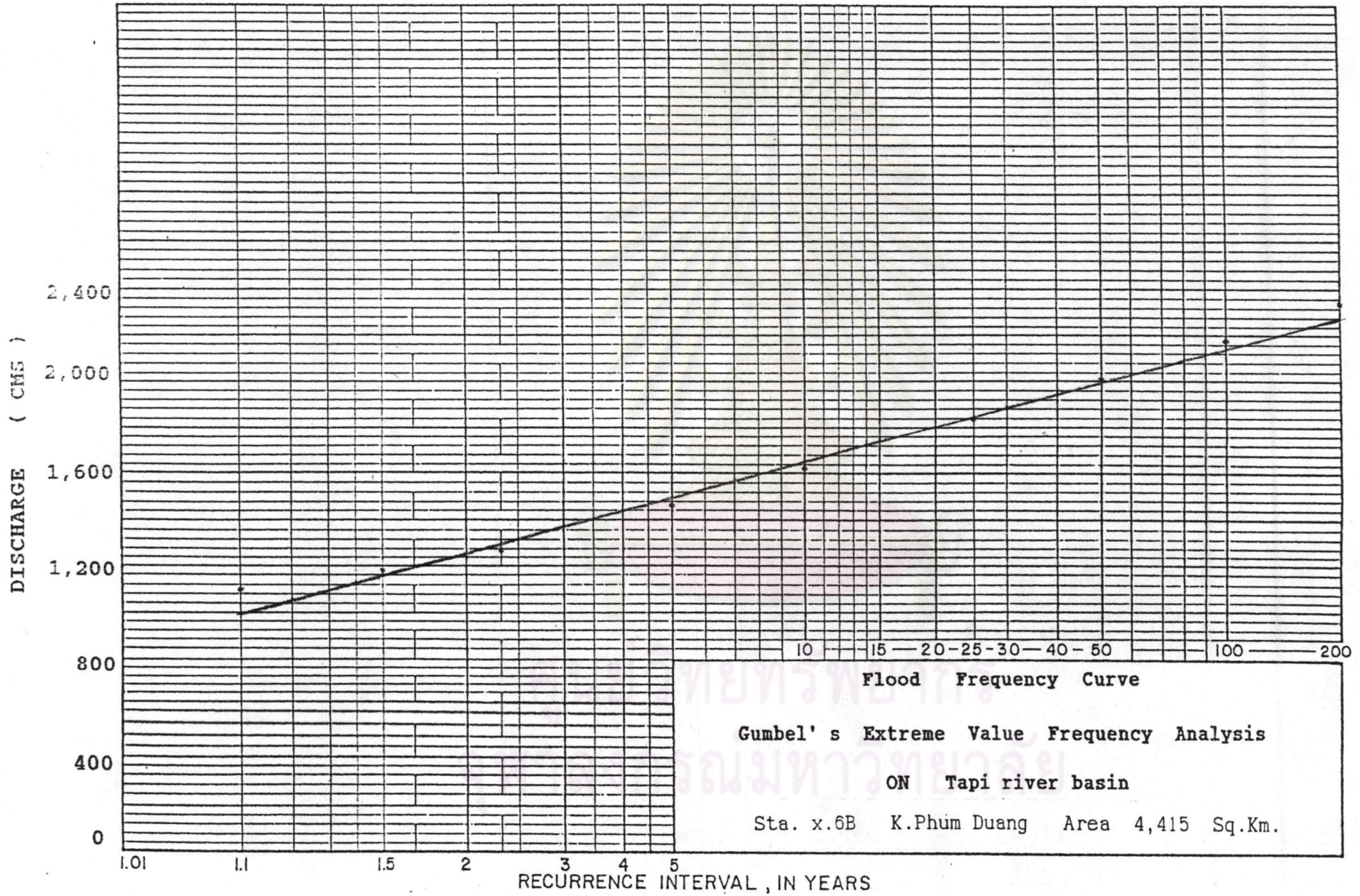
K.Yan

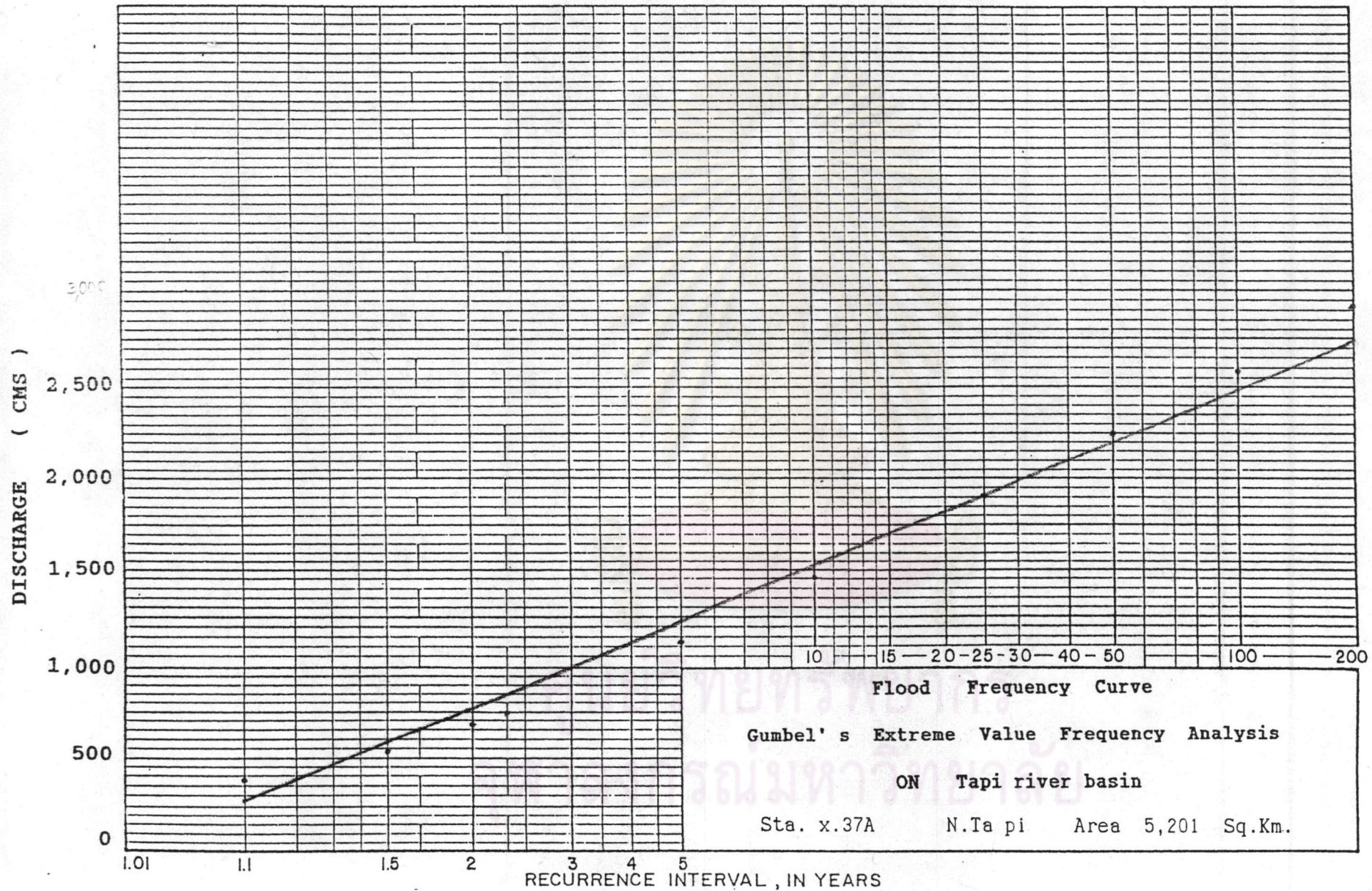
Area

661 Sq.Km.









ประวัติผู้ศึกษา

ชื่อ นายพิชัย ทองอุทัยศิริ
 เกิด 12 กรกฎาคม 2510 , จังหวัดอุดรธานี
 การศึกษา พศ. 2531 สำเร็จการศึกษา วิศวกรรมศาสตรบัณฑิต (วศ.บ.)
 ภาควิชา วิศวกรรมโยธา
 คณะวิศวกรรมศาสตร์ มหาวิทยาลัยขอนแก่น
 พศ. 2532 เข้าศึกษาต่อหลักสูตร วิศวกรรมศาสตรมหาบัณฑิต (วศ.ม.)
 สาขาวิศวกรรมแหล่งน้ำ ภาควิชา วิศวกรรมโยธา
 คณะวิศวกรรมศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

ประสบการณ์การทำงาน

พศ. 2534 - 2536

วิศวกร โครงการอาคารเรียนรวมมนุษยศาสตร์
 จุฬาลงกรณ์มหาวิทยาลัย

