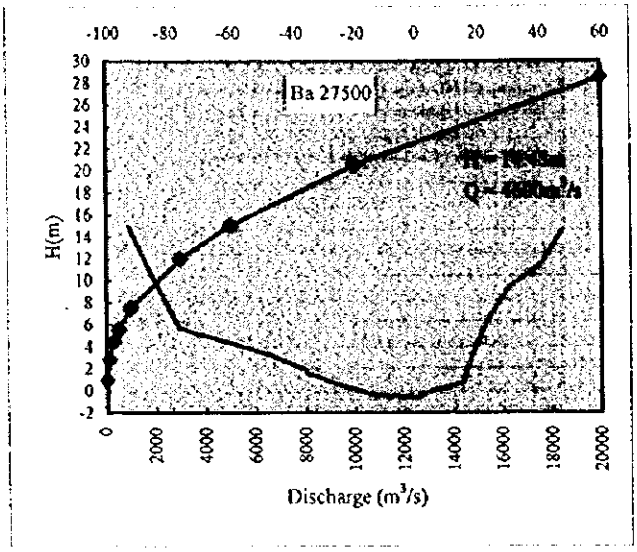
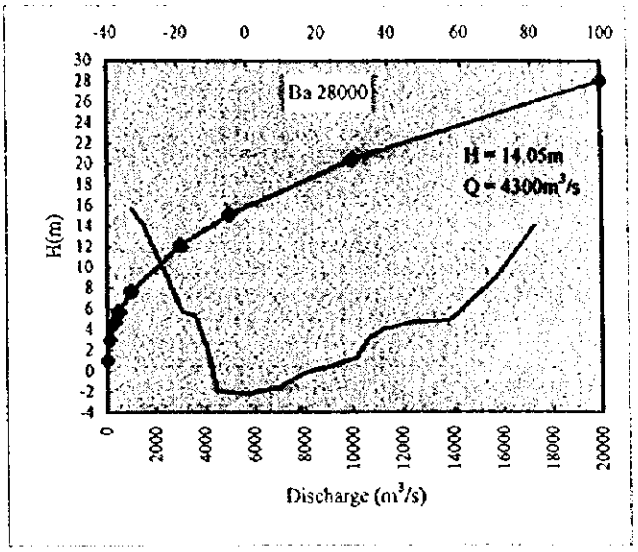
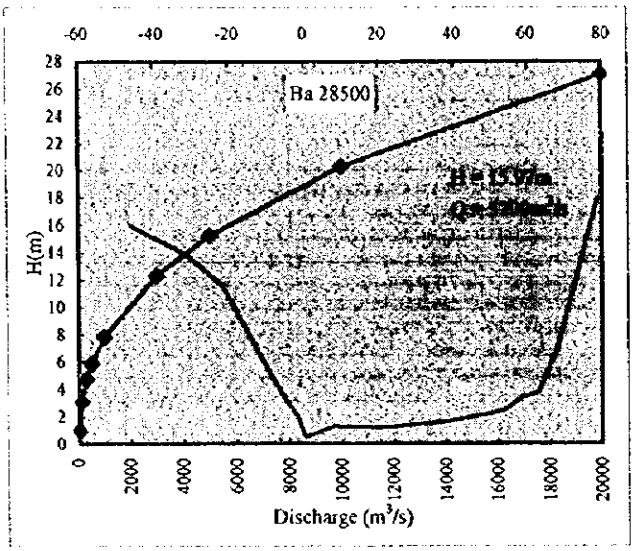
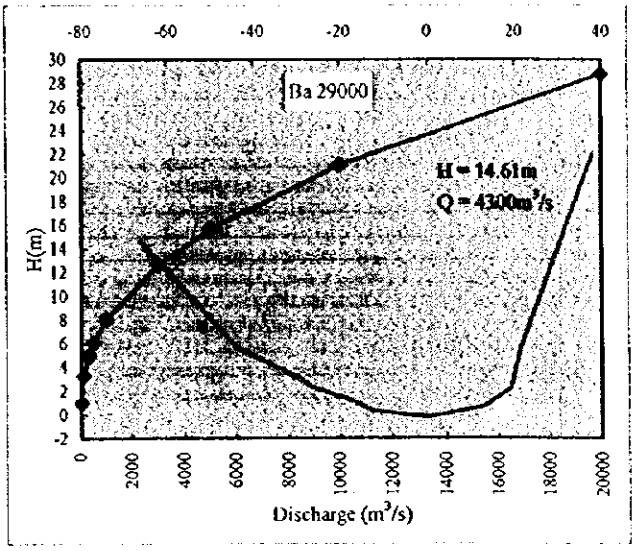
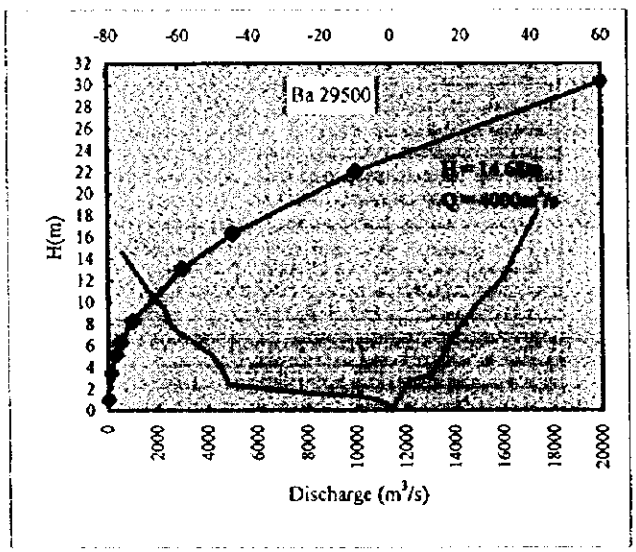
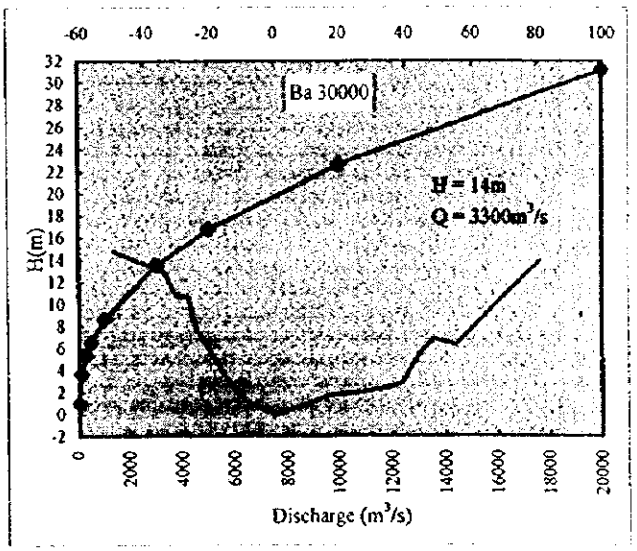

Ba 27500
H(m)
Discharge (m³/s)

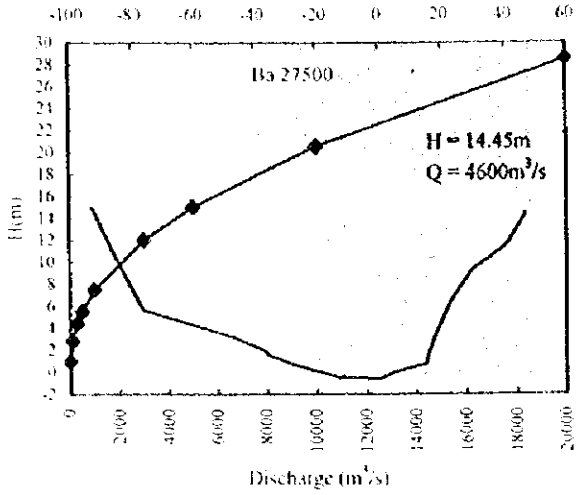

Ba 28000
H = 14.05m
Q = 4300m³/s
H(m)
Discharge (m³/s)

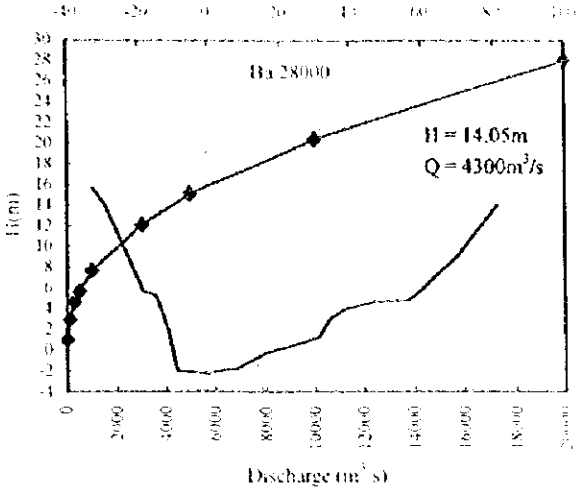

Ba 28500
H(m)
Discharge (m³/s)

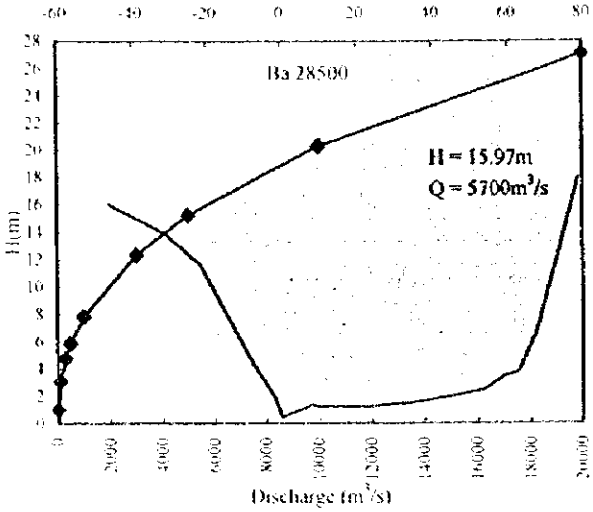

Ba 29000
H = 14.61m
Q = 4300m³/s
H(m)
Discharge (m³/s)

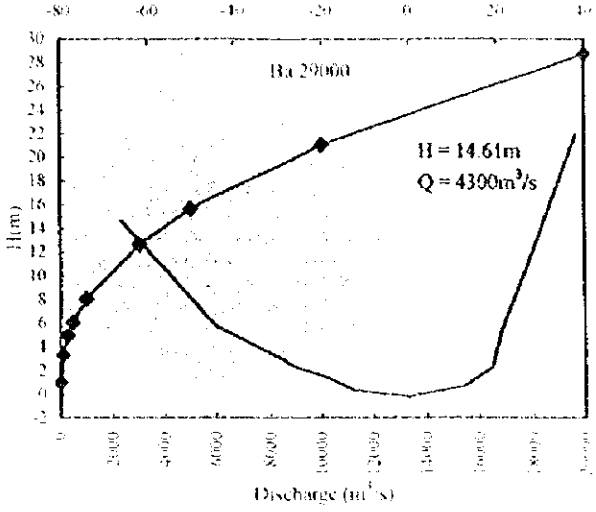

Ba 29500
H(m)
Discharge (m³/s)

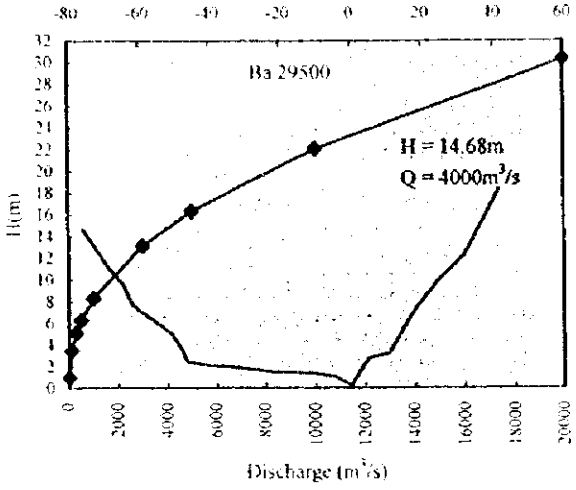

Ba 30000
H = 14m
Q = 3300m³/s
H(m)
Discharge (m³/s)

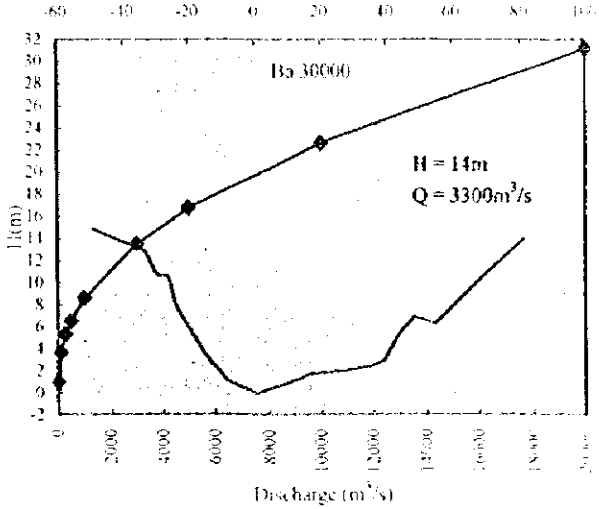

Ba 27500
H = 14.45m
Q = 4600m³/s
H(m)
Discharge (m³/s)

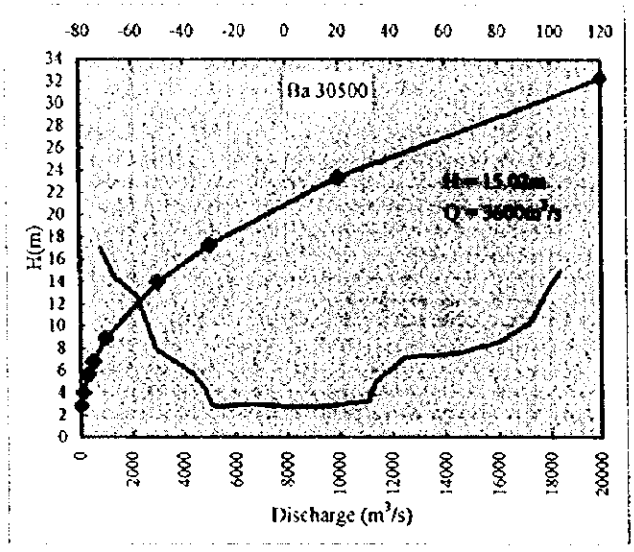

Ba 28000
H = 14.05m
Q = 4300m³/s
H(m)
Discharge (m³/s)

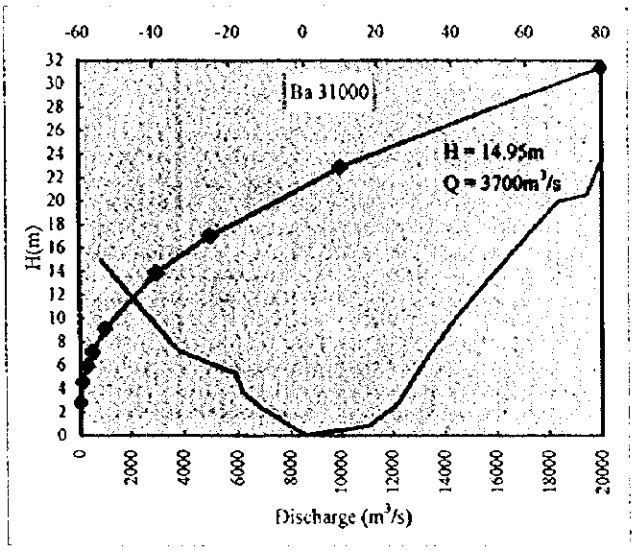

Ba 28500
H = 15.97m
Q = 5700m³/s
H(m)
Discharge (m³/s)

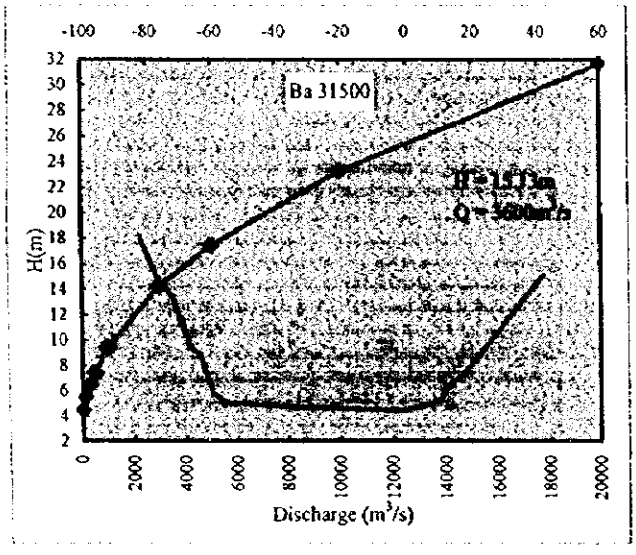

Ba 29000
H = 14.61m
Q = 4300m³/s
H(m)
Discharge (m³/s)

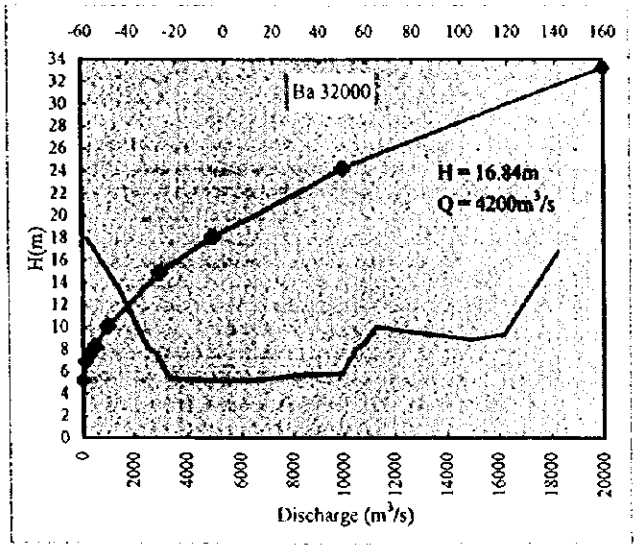

Ba 29500
H = 14.68m
Q = 4000m³/s
H(m)
Discharge (m³/s)

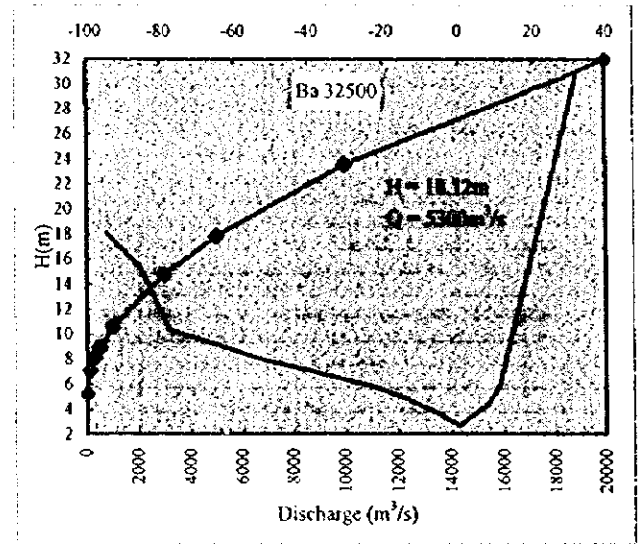

Ba 30000
H = 14m
Q = 3300m³/s
H(m)
Discharge (m³/s)

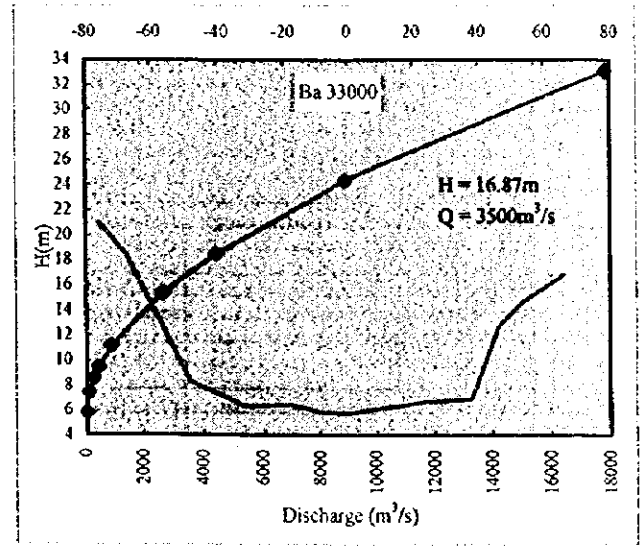

Ba 30500
H(m)
Discharge (m³/s)

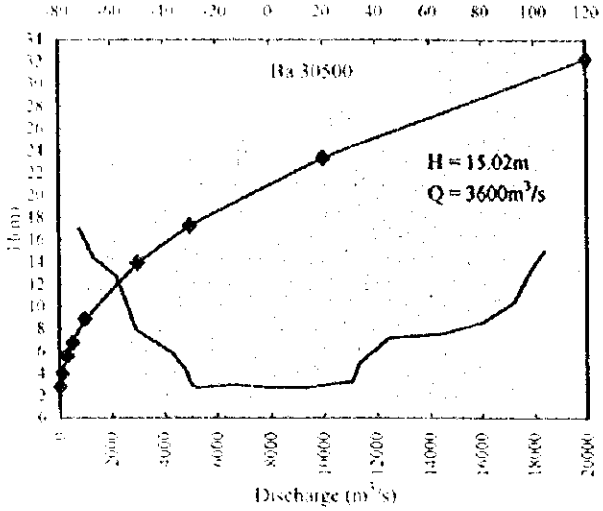

Ba 31000
H = 14.95m
Q = 3700m³/s
H(m)
Discharge (m³/s)

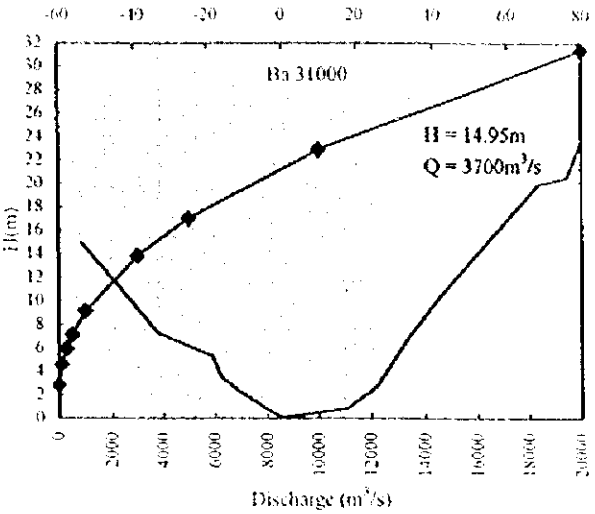

Ba 31500
H(m)
Discharge (m³/s)

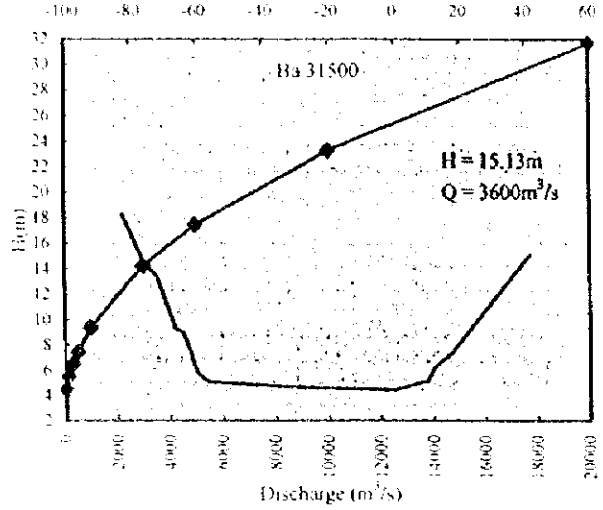

Ba 32000
H = 16.84m
Q = 4200m³/s
H(m)
Discharge (m³/s)

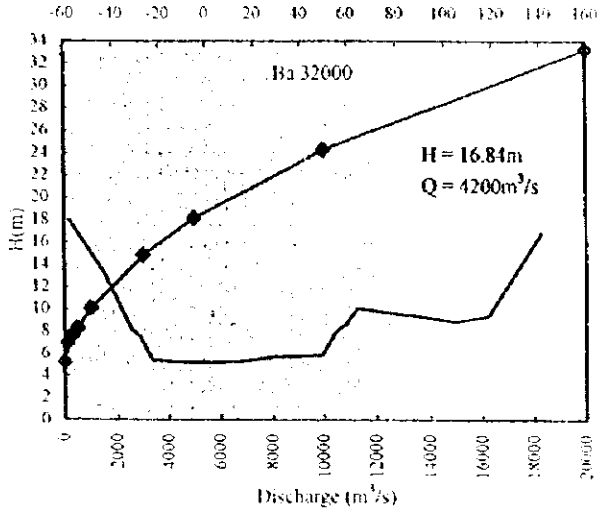

Ba 32500
H(m)
Discharge (m³/s)

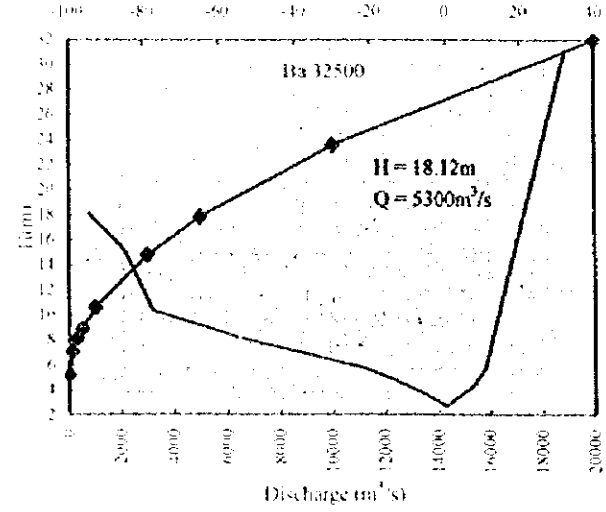

Ba 33000
H = 16.87m
Q = 3500m³/s
H(m)
Discharge (m³/s)

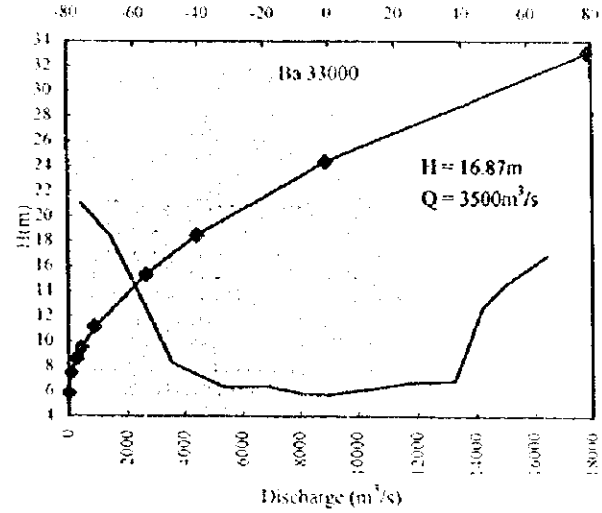

Ba 30500
H = 15.02m
Q = 3600m³/s
H(m)
Discharge (m³/s)

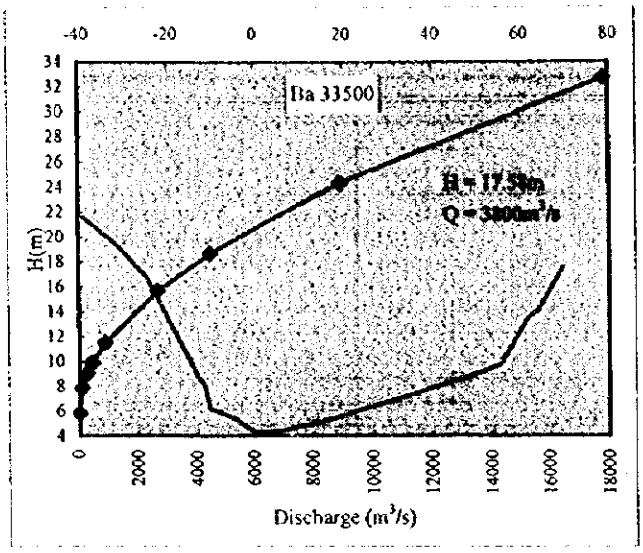

Ba 31000
H = 14.95m
Q = 3700m³/s
H(m)
Discharge (m³/s)

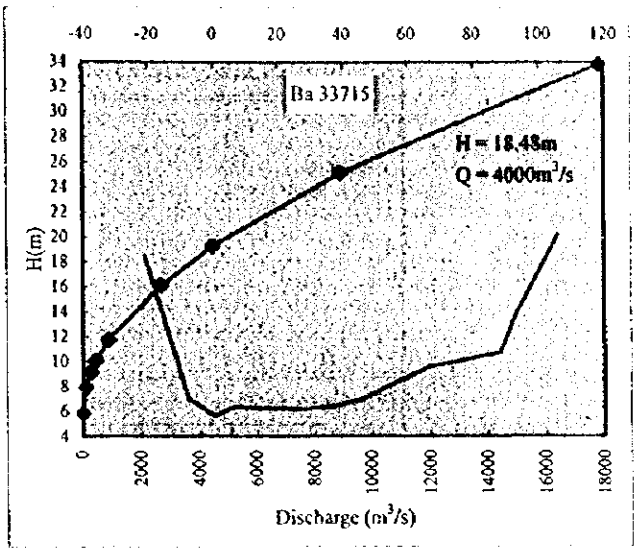

Ba 31500
H = 15.13m
Q = 3600m³/s
H(m)
Discharge (m³/s)

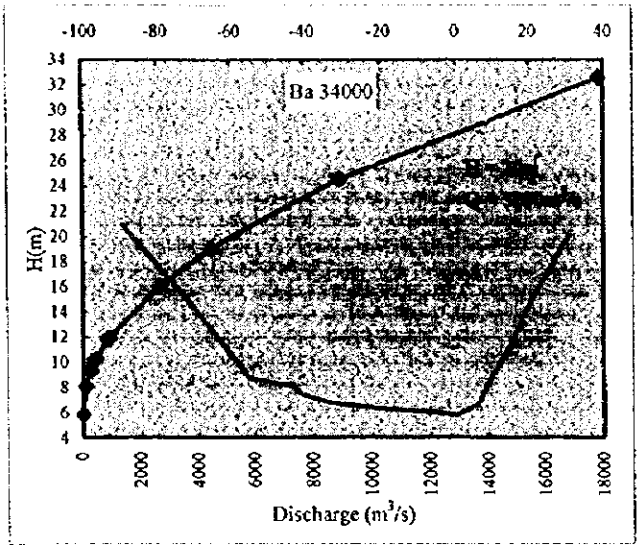

Ba 32000
H = 16.84m
Q = 4200m³/s
H(m)
Discharge (m³/s)

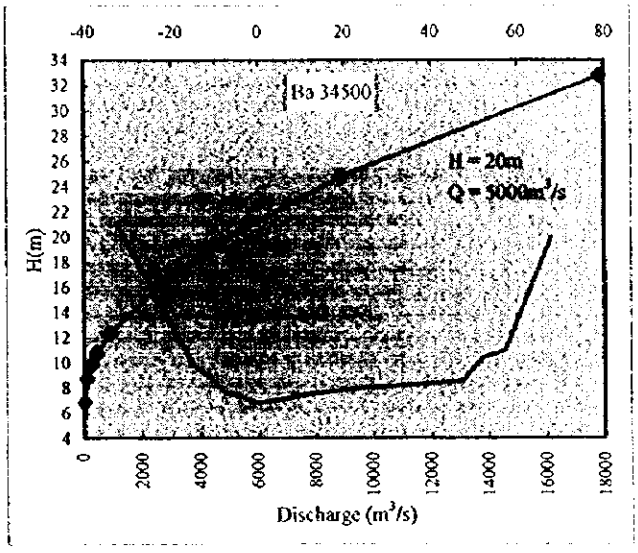

Ba 32500
H = 18.12m
Q = 5300m³/s
H(m)
Discharge (m³/s)

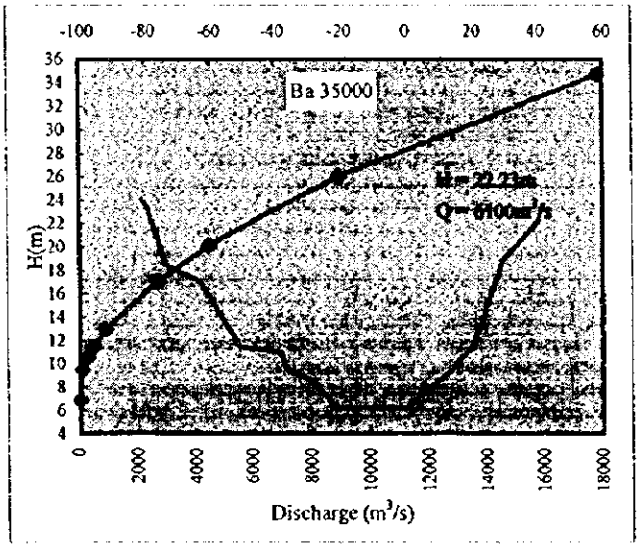

Ba 33000
H = 16.87m
Q = 3500m³/s
H(m)
Discharge (m³/s)

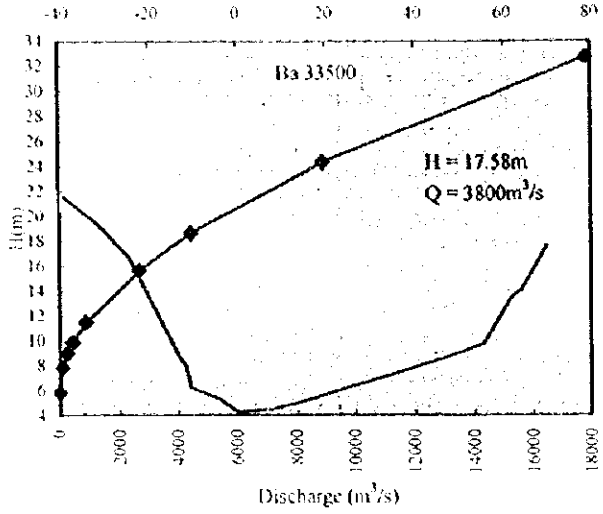

Ba 33500
H = 17.5m
Q = 3800m³/s
H(m)
Discharge (m³/s)

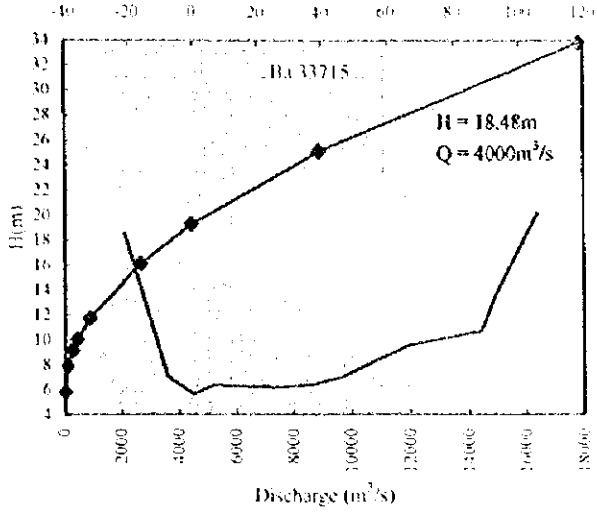

Ba 33715
H = 18.48m
Q = 4000m³/s
H(m)
Discharge (m³/s)

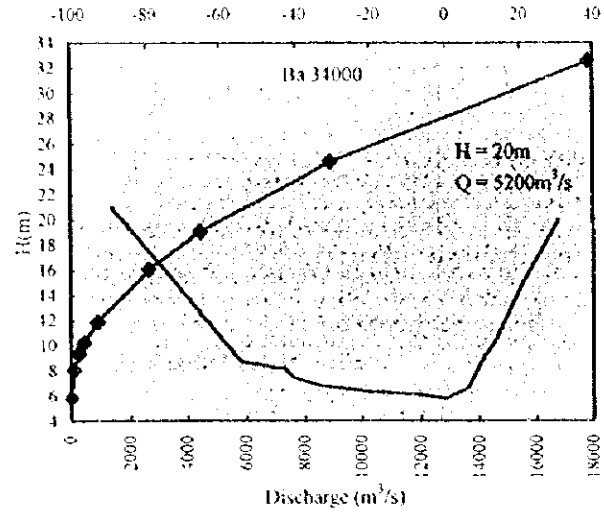

Ba 34000
H(m)
Discharge (m³/s)

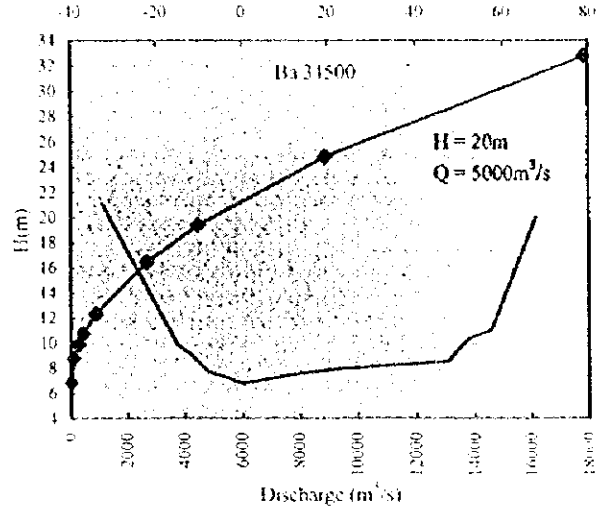

Ba 34500
H = 20m
Q = 5000m³/s
H(m)
Discharge (m³/s)

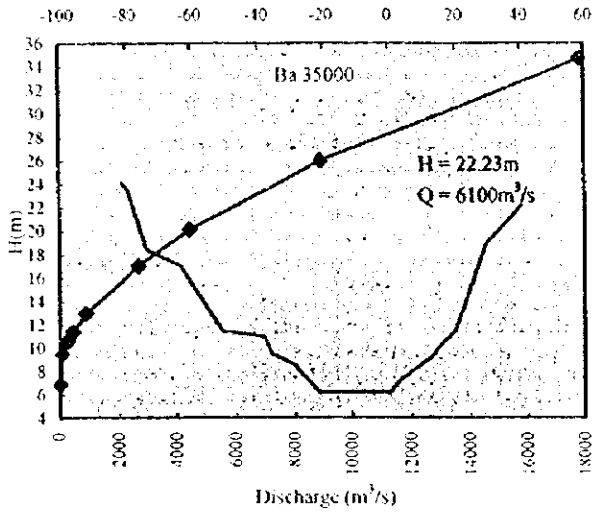

Ba 35000
H(m)
Discharge (m³/s)


Ba 33500
H = 17.58m
Q = 3800m³/s
H(m)
Discharge (m³/s)


Ba 33715
H = 18.48m
Q = 4000m³/s
H(m)
Discharge (m³/s)


Ba 34000
H = 20m
Q = 5200m³/s
H(m)
Discharge (m³/s)


Ba 34500
H = 20m
Q = 5000m³/s
H(m)
Discharge (m³/s)


Ba 35000
H = 22.23m
Q = 6100m³/s
H(m)
Discharge (m³/s)

1 * * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

1

"Non-Uniform Flow, 0m3/s, Ba"

NAME	DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400 .0	.00	1.000	.000	1.000	.14022E-17	1168.649	363.91	3.19	3.21	.0300	1.00	.00	.00
BA	1000 600.0	.00	1.000	.000	1.000	.14829E-17	982.360	245.02	3.97	4.01	.0300	1.00	.00	.00
BA	1500 500.0	.00	1.000	.000	1.000	.14178E-17	891.234	184.41	4.75	4.83	.0300	1.00	.00	.00
BA	2000 500.0	.00	1.000	.000	1.000	.15795E-17	921.509	218.97	4.17	4.21	.0300	1.00	.00	.00
BA	2500 500.0	.00	1.000	.000	1.000	.17210E-17	805.955	166.71	4.78	4.83	.0300	1.00	.00	.00
BA	3000 500.0	.00	1.000	.000	1.000	.10892E-17	1224.931	338.67	3.59	3.62	.0300	1.00	.00	.00
BA	3500 500.0	.00	1.000	.000	1.000	.14558E-17	1172.904	379.17	3.09	3.09	.0300	1.00	.00	.00

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BA	4000	500.0	.00	1.000	.000	1.000	.18969E-17	1054.079	353.98	2.97	2.98	.0300	1.00	.00	.00
BA	4500	500.0	.00	1.000	.000	1.000	.15257E-17	886.571	192.23	4.53	4.61	.0300	1.00	.00	.00
BA	5000	500.0	.00	1.000	.000	1.000	.23760E-17	748.084	176.98	4.20	4.23	.0300	1.00	.00	.00
BA	5500	500.0	.00	1.000	.000	1.000	.24264E-17	922.489	305.06	3.02	3.02	.0300	1.00	.00	.00
BA	6000	500.0	.00	1.000	.000	1.000	.16758E-16	439.457	203.12	2.15	2.16	.0300	1.00	.00	.00
BA	6500	500.0	.00	1.000	.000	1.000	.32610E-17	722.305	206.32	3.49	3.50	.0300	1.00	.00	.00
BA	7000	500.0	.00	1.000	.000	1.000	.33156E-17	708.695	199.30	3.54	3.56	.0300	1.00	.00	.00
BA	7500	500.0	.00	1.000	.000	1.000	.53635E-17	594.049	183.19	3.22	3.24	.0300	1.00	.00	.00
BA	8000	500.0	.00	1.000	.000	1.000	.56037E-17	518.192	133.84	3.82	3.87	.0300	1.00	.00	.00
BA	8500	500.0	.00	1.000	.000	1.000	.93775E-18	1057.930	207.97	5.01	5.09	.0300	1.00	.00	.00
BA	9000	500.0	.00	1.000	.000	1.000	.54489E-17	605.454	193.83	3.09	3.12	.0300	1.00	.00	.00
BA	9500	500.0	.00	1.000	.000	1.000	.63822E-17	588.804	203.66	2.86	2.89	.0300	1.00	.00	.00
BA	10000	500.0	.00	1.000	.000	1.000	.67901E-17	551.048	180.89	3.02	3.05	.0300	1.00	.00	.00
BA	10500	500.0	.00	1.000	.000	1.000	.93125E-17	542.678	221.07	2.44	2.45	.0300	1.00	.00	.00
BA	11000	500.0	.00	1.000	.000	1.000	.98424E-17	527.555	215.12	2.44	2.45	.0300	1.00	.00	.00
BA	11500	500.0	.00	1.000	.000	1.000	.93614E-17	487.028	169.36	2.86	2.88	.0300	1.00	.00	.00
BA	12000	500.0	.00	1.000	.000	1.000	.12397E-16	520.472	247.59	2.09	2.10	.0300	1.00	.00	.00
BA	12500	500.0	.00	1.000	.000	1.000	.10098E-16	483.826	175.71	2.73	2.75	.0300	1.00	.00	.00
BA	13000	500.0	.00	1.000	.000	1.000	.15210E-16	439.876	189.18	2.31	2.33	.0300	1.00	.00	.00
BA	13500	500.0	.00	1.000	.000	1.000	.17245E-16	431.759	198.56	2.16	2.17	.0300	1.00	.00	.00
BA	14000	500.0	.00	1.000	.000	1.000	.14396E-16	444.431	186.47	2.37	2.38	.0300	1.00	.00	.00
BA	14500	500.0	.00	1.000	.000	1.000	.25592E-16	382.689	197.44	1.93	1.94	.0300	1.00	.00	.00
BA	15000	500.0	.00	1.000	.000	1.000	.15798E-16	430.597	184.34	2.32	2.34	.0300	1.00	.00	.00
BA	15500	500.0	.00	1.000	.000	1.000	.14325E-16	430.443	171.05	2.50	2.52	.0300	1.00	.00	.00
BA	16000	500.0	.00	1.000	.000	1.000	.32372E-16	326.619	158.39	2.05	2.06	.0300	1.00	.00	.00
BA	16500	500.0	.00	1.000	.000	1.000	.57133E-16	264.650	143.39	1.84	1.85	.0300	1.00	.00	.00
BA	17000	500.0	.00	1.000	.000	1.000	.35594E-16	273.396	108.32	2.49	2.52	.0300	1.00	.00	.00
BA	17500	500.0	.00	1.000	.000	1.000	.18298E-16	361.209	132.24	2.71	2.73	.0300	1.00	.00	.00
BA	18000	500.0	.00	1.000	.000	1.000	.62129E-16	252.127	135.44	1.85	1.86	.0300	1.00	.00	.00
BA	18500	500.0	.00	1.000	.000	1.000	.83588E-17	421.851	107.13	3.86	3.94	.0300	1.00	.00	.00
BA	19000	500.0	.00	1.000	.000	1.000	.81523E-17	445.524	120.82	3.62	3.69	.0300	1.00	.00	.00
BA	19500	500.0	.00	1.000	.000	1.000	.14988E-16	373.745	123.35	2.99	3.03	.0300	1.00	.00	.00
BA	20000	500.0	.00	1.000	.000	1.000	.16505E-16	341.270	106.06	3.18	3.22	.0300	1.00	.00	.00
BA	20500	500.0	.00	1.000	.000	1.000	.76646E-16	249.492	154.39	1.61	1.62	.0300	1.00	.00	.00
BA	21000	500.0	.00	1.000	.000	1.000	.18632E-15	148.770	82.33	1.80	1.81	.0300	1.00	.00	.00
BA	21500	500.0	.00	1.000	.000	1.000	.18403E-15	149.465	80.84	1.80	1.85	.0300	1.00	.00	.00
BA	22000	500.0	.00	1.000	.000	1.000	.81808E-16	188.107	78.86	2.34	2.39	.0300	1.00	.00	.00
BA	22500	500.0	.00	1.000	.000	1.000	.11232E-15	161.379	68.70	2.32	2.35	.0300	1.00	.00	.00
BA	23000	500.0	.00	1.000	.000	1.000	.55028E-15	107.182	81.07	1.30	1.32	.0300	1.00	.00	.00
BA	23500	500.0	.00	1.000	.000	1.000	.48690E-15	108.582	76.95	1.40	1.41	.0300	1.00	.00	.00
BA	24000	500.0	.00	1.000	.000	1.000	.85621E-14	41.448	59.75	.69	.69	.0300	1.00	.00	.00
BA	24500	500.0	.00	1.000	.000	1.000	.67724E-15	79.285	44.26	1.75	1.79	.0300	1.00	.00	.00
BA	25000	500.0	.00	1.000	.000	1.000	.26400E-15	112.027	50.69	2.12	2.21	.0300	1.00	.00	.00
BA	25500	500.0	.00	1.000	.000	1.000	.71180E-14	32.950	28.42	1.12	1.16	.0300	1.00	.00	.00
BA	26000	500.0	.00	1.000	.000	1.000	.16233E-14	59.407	41.36	1.40	1.44	.0300	1.00	.00	.00
BA	26500	500.0	.00	1.000	.000	1.000	.23767E-14	46.893	30.52	1.50	1.54	.0300	1.00	.00	.00
BA	27000	500.0	.00	1.000	.000	1.000	.23234E-13	24.184	32.00	.73	.76	.0300	1.00	.00	.00
BA	27500	500.0	.00	1.000	.000	1.000	.46589E-14	44.462	44.74	.98	.99	.0300	1.00	.00	.00
BA	28000	500.0	.00	1.000	.000	1.000	.66053E-15	76.811	39.06	1.87	1.97	.0300	1.00	.00	.00
BA	28500	500.0	.00	1.000	.000	1.000	.29609E-10	1.440	5.53	.24	.26	.0300	1.00	.00	.00
BA	29000	500.0	.00	1.000	.000	1.000	.26839E-13	22.515	29.99	.73	.75	.0300	1.00	.00	.00

BA	29500	500.0	.00	1.000	.000	1.000	.10357E-10	2.081	6.28	.30	.33	.0300	1.00	.00	.00
BA	30000	500.0	.00	1.000	.000	1.000	.26188E-12	9.168	17.33	.51	.53	.0300	1.00	.00	.00
BA	30500	500.0	.00	2.820	.000	2.820	.34734E-09	1.628	9.35	.03	.17	.0300	1.00	.00	.00
BA	31000	500.0	.00	2.820	.000	2.820	.91545E-15	68.677	39.00	1.73	1.76	.0300	1.00	.00	.00
BA	31500	500.0	.00	4.490	.000	4.490	.14825E-08	.872	6.81	.03	.13	.0300	1.00	.00	.00
BA	32000	500.0	.00	5.200	.000	5.200	.24057E-08	.696	9.55	.03	.07	.0300	1.00	.00	.00
BA	32500	500.0	.00	5.200	.000	5.200	.62182E-14	33.318	26.23	1.22	1.27	.0300	1.00	.00	.00
BA	33000	500.0	.00	5.830	.000	5.830	.22533E-08	.654	3.03	.03	.22	.0300	1.00	.00	.00
BA	33500	500.0	.00	5.830	.000	5.830	.17212E-13	25.211	28.62	.86	.88	.0300	1.00	.00	.00
BA	33715	215.0	.00	5.830	.000	5.830	.14291E-08	.413	2.49	.08	.17	.0300	1.00	.00	.00
BA	34000	285.0	.00	5.860	.000	5.860	.73068E-07	.130	1.73	.02	.07	.0300	1.00	.00	.00
BA	34500	500.0	.00	6.870	.000	6.870	.51824E-07	.154	1.34	.02	.11	.0300	1.00	.00	.00
BA	35000	500.0	.00	6.870	.000	6.870	.81109E-13	15.084	25.61	.58	.59	.0300	1.00	.00	.00

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

1

"Non-Uniform Flow. 100m3/s. Ba"

NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	100.00	1.000	.000	1.000	.14022E-05	1168.649	363.91	3.19	3.21	.0300	1.00	.09	.02
BA	1000	600.0	100.00	1.001	.001	1.001	.14820E-05	982.536	245.02	3.97	4.01	.0300	1.00	.10	.02
BA	1500	500.0	100.00	1.001	.001	1.002	.14166E-05	891.479	184.41	4.75	4.83	.0300	1.00	.11	.02
BA	2000	500.0	100.00	1.002	.001	1.003	.15769E-05	921.973	218.97	4.17	4.21	.0300	1.00	.11	.02
BA	2500	500.0	100.00	1.003	.001	1.004	.17179E-05	806.414	166.72	4.78	4.84	.0300	1.00	.12	.02
BA	3000	500.0	100.00	1.004	.000	1.004	.10854E-05	1226.253	338.67	3.60	3.62	.0300	1.00	.08	.01
BA	3500	500.0	100.00	1.005	.000	1.005	.14488E-05	1174.618	379.18	3.09	3.10	.0300	1.00	.09	.02

BA	4000	500.0	100.00	1.005	.000	1.006	.18861E-05	1055.943	354.03	2.98	2.98	.0300	1.00	.09	.02
BA	4500	500.0	100.00	1.006	.001	1.007	.15193E-05	887.711	192.23	4.54	4.62	.0300	1.00	.11	.02
BA	5000	500.0	100.00	1.007	.001	1.008	.23640E-05	749.260	176.99	4.20	4.23	.0300	1.00	.13	.02
BA	5500	500.0	100.00	1.008	.001	1.009	.24052E-05	924.979	305.10	3.02	3.03	.0300	1.00	.11	.02
BA	6000	500.0	100.00	1.011	.003	1.013	.16485E-04	441.665	203.16	2.16	2.17	.0300	1.00	.23	.05
BA	6500	500.0	100.00	1.017	.001	1.018	.32086E-05	725.902	206.35	3.50	3.52	.0300	1.00	.14	.02
BA	7000	500.0	100.00	1.019	.001	1.020	.32608E-05	712.491	199.46	3.56	3.57	.0300	1.00	.14	.02
BA	7500	500.0	100.00	1.021	.001	1.022	.52543E-05	597.847	183.26	3.24	3.26	.0300	1.00	.17	.03
BA	8000	500.0	100.00	1.023	.002	1.025	.55205E-05	521.302	134.34	3.83	3.88	.0300	1.00	.19	.03
BA	8500	500.0	100.00	1.026	.000	1.026	.92901E-06	1063.262	209.13	5.01	5.08	.0300	1.00	.09	.01
BA	9000	500.0	100.00	1.027	.001	1.028	.52992E-05	610.620	193.86	3.12	3.15	.0300	1.00	.16	.03
BA	9500	500.0	100.00	1.029	.001	1.031	.61726E-05	594.799	203.67	2.89	2.92	.0300	1.00	.17	.03
BA	10000	500.0	100.00	1.032	.002	1.034	.66046E-05	556.864	181.89	3.04	3.06	.0300	1.00	.18	.03
BA	10500	500.0	100.00	1.036	.002	1.038	.88730E-05	550.698	221.12	2.47	2.49	.0300	1.00	.18	.04
BA	11000	500.0	100.00	1.041	.002	1.042	.93219E-05	536.314	215.15	2.48	2.49	.0300	1.00	.19	.04
BA	11500	500.0	100.00	1.045	.002	1.047	.89135E-05	494.660	169.69	2.90	2.92	.0300	1.00	.20	.04
BA	12000	500.0	100.00	1.050	.002	1.052	.11469E-04	532.939	247.76	2.14	2.15	.0300	1.00	.19	.04
BA	12500	500.0	100.00	1.055	.002	1.057	.94632E-05	493.539	175.85	2.78	2.81	.0300	1.00	.20	.04
BA	13000	500.0	100.00	1.061	.003	1.063	.13977E-04	451.361	189.33	2.37	2.38	.0300	1.00	.22	.05
BA	13500	500.0	100.00	1.068	.003	1.071	.15578E-04	445.271	198.66	2.23	2.24	.0300	1.00	.22	.05
BA	14000	500.0	100.00	1.075	.002	1.078	.13000E-04	458.483	186.67	2.44	2.46	.0300	1.00	.22	.04
BA	14500	500.0	100.00	1.083	.003	1.087	.22275E-04	399.152	197.62	2.01	2.02	.0300	1.00	.25	.06
BA	15000	500.0	100.00	1.093	.003	1.096	.13895E-04	447.767	184.54	2.41	2.43	.0300	1.00	.22	.05
BA	15500	500.0	100.00	1.100	.003	1.102	.12620E-04	447.520	171.37	2.59	2.61	.0300	1.00	.22	.04
BA	16000	500.0	100.00	1.108	.004	1.112	.27415E-04	343.748	158.80	2.15	2.16	.0300	1.00	.29	.06
BA	16500	500.0	100.00	1.124	.006	1.131	.46545E-04	282.584	144.81	1.94	1.95	.0300	1.00	.35	.08
BA	17000	500.0	100.00	1.144	.006	1.150	.29711E-04	288.974	108.49	2.63	2.66	.0300	1.00	.35	.07
BA	17500	500.0	100.00	1.158	.003	1.161	.15260E-04	382.103	132.73	2.85	2.88	.0300	1.00	.26	.05
BA	18000	500.0	100.00	1.170	.007	1.177	.46983E-04	275.247	136.69	2.01	2.01	.0300	1.00	.36	.08
BA	18500	500.0	100.00	1.188	.003	1.190	.72141E-05	441.913	107.59	4.02	4.11	.0300	1.00	.23	.04
BA	19000	500.0	100.00	1.191	.002	1.194	.69200E-05	468.670	121.02	3.80	3.87	.0300	1.00	.21	.03
BA	19500	500.0	100.00	1.195	.003	1.199	.12242E-04	397.873	123.79	3.16	3.21	.0300	1.00	.25	.04
BA	20000	500.0	100.00	1.201	.004	1.205	.13943E-04	363.108	109.05	3.29	3.33	.0300	1.00	.28	.05
BA	20500	500.0	100.00	1.215	.006	1.221	.51113E-04	282.859	155.83	1.81	1.82	.0300	1.00	.35	.08
BA	21000	500.0	100.00	1.247	.018	1.265	.12439E-03	169.371	83.98	2.00	2.02	.0300	1.00	.59	.13
BA	21500	500.0	100.00	1.309	.017	1.326	.11707E-03	175.178	85.69	1.99	2.04	.0300	1.00	.57	.13
BA	22000	500.0	100.00	1.357	.011	1.368	.52097E-04	216.356	79.43	2.66	2.72	.0300	1.00	.46	.09
BA	22500	500.0	100.00	1.384	.014	1.399	.71002E-04	188.371	71.57	2.60	2.63	.0300	1.00	.53	.10
BA	23000	500.0	100.00	1.445	.025	1.470	.21337E-03	143.647	82.62	1.71	1.74	.0300	1.00	.70	.17
BA	23500	500.0	100.00	1.543	.022	1.565	.16842E-03	150.772	78.57	1.90	1.92	.0300	1.00	.66	.15
BA	24000	500.0	100.00	1.741	.055	1.796	.75334E-03	96.510	79.66	1.21	1.21	.0300	1.00	1.04	.30
BA	24500	500.0	100.00	2.009	.025	2.035	.20242E-03	142.386	76.95	1.80	1.85	.0300	1.00	.70	.16
BA	25000	500.0	100.00	2.088	.018	2.106	.81677E-04	170.528	60.00	2.72	2.84	.0300	1.00	.59	.11
BA	25500	500.0	100.00	2.226	.044	2.270	.57398E-03	107.741	84.32	1.25	1.28	.0300	1.00	.93	.26
BA	26000	500.0	100.00	2.431	.030	2.461	.19184E-03	130.064	58.80	2.15	2.21	.0300	1.00	.77	.17
BA	26500	500.0	100.00	2.539	.035	2.574	.26170E-03	120.375	60.66	1.91	1.98	.0300	1.00	.83	.19
BA	27000	500.0	100.00	2.698	.051	2.748	.43457E-03	100.226	57.00	1.72	1.76	.0300	1.00	1.00	.24
BA	27500	500.0	100.00	2.868	.025	2.893	.14292E-03	143.943	61.39	2.30	2.34	.0300	1.00	.69	.14
BA	28000	500.0	100.00	2.927	.020	2.947	.72978E-04	160.726	46.54	3.23	3.45	.0300	1.00	.62	.11
BA	28500	500.0	100.00	3.066	.061	3.127	.64766E-03	91.320	61.37	1.47	1.49	.0300	1.00	1.10	.29
BA	29000	500.0	100.00	3.305	.036	3.341	.20885E-03	119.034	50.63	2.30	2.35	.0300	1.00	.84	.18

BA	29500	500.0	100.00	3.461	.053	3.515	.48483E-03	97.963	58.49	1.64	1.67	.0300	1.00	1.02	.25
BA	30000	500.0	100.00	3.662	.038	3.699	.25411E-03	116.462	55.83	2.05	2.09	.0300	1.00	.86	.19
BA	30500	500.0	100.00	4.056	.102	4.157	.15780E-02	70.856	63.79	1.10	1.11	.0300	1.00	1.41	.43
BA	31000	500.0	100.00	4.552	.025	4.577	.10088E-03	143.823	46.68	2.99	3.08	.0300	1.00	.70	.13
BA	31500	500.0	100.00	5.520	.177	5.697	.43778E-02	53.710	68.83	.78	.78	.0300	1.00	1.86	.67
BA	32000	500.0	100.00	6.879	.045	6.923	.52922E-03	106.859	78.71	1.35	1.36	.0300	1.00	.94	.26
BA	32500	500.0	100.00	7.091	.046	7.138	.32748E-03	104.872	51.19	1.99	2.05	.0300	1.00	.95	.21
BA	33000	500.0	100.00	7.454	.074	7.527	.12306E-02	83.300	79.50	1.04	1.05	.0300	1.00	1.20	.37
BA	33500	500.0	89.00	7.858	.034	7.893	.23108E-03	108.379	51.26	2.06	2.11	.0300	1.00	.82	.18
BA	33715	215.0	89.00	7.926	.050	7.977	.55082E-03	89.578	61.95	1.43	1.45	.0300	1.00	.99	.26
BA	34000	285.0	89.00	8.082	.064	8.146	.63515E-03	79.672	51.35	1.53	1.55	.0300	1.00	1.12	.29
BA	34500	500.0	89.00	8.762	.126	8.887	.23321E-02	56.666	58.35	.96	.97	.0300	1.00	1.57	.51
BA	35000	500.0	89.00	9.489	.034	9.523	.21019E-03	109.145	48.93	2.19	2.23	.0300	1.00	.82	.17

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

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"Non-Uniform Flow, 300m3/s, Ba"

NAME	DELTX (M)		Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	300.00	1.000	.003	1.003	.12620E-04	1168.649	363.91	3.19	3.21	.0300	1.00	.26	.05
BA	1000	600.0	300.00	1.006	.005	1.011	.13276E-04	983.926	245.02	3.98	4.02	.0300	1.00	.30	.05
BA	1500	500.0	300.00	1.012	.006	1.018	.12659E-04	893.421	184.41	4.76	4.84	.0300	1.00	.34	.05
BA	2000	500.0	300.00	1.019	.005	1.024	.14008E-04	925.654	218.97	4.19	4.23	.0300	1.00	.32	.05
BA	2500	500.0	300.00	1.025	.007	1.032	.15240E-04	810.052	166.78	4.80	4.86	.0300	1.00	.37	.05
BA	3000	500.0	300.00	1.035	.003	1.038	.94979E-05	1236.713	338.67	3.63	3.65	.0300	1.00	.24	.04
BA	3500	500.0	300.00	1.040	.003	1.043	.12560E-04	1188.095	379.31	3.12	3.13	.0300	1.00	.25	.05

BA	4000	500.0	300.00	1.046	.004	1.051	.16242E-04	1070.534	354.42	3.01	3.02	.0300	1.00	.28	.05
BA	4500	500.0	300.00	1.052	.006	1.058	.13235E-04	896.599	192.24	4.58	4.66	.0300	1.00	.33	.05
BA	5000	500.0	300.00	1.058	.008	1.066	.20457E-04	758.406	177.09	4.25	4.28	.0300	1.00	.40	.06
BA	5500	500.0	300.00	1.071	.005	1.076	.20242E-04	944.256	305.42	3.08	3.09	.0300	1.00	.32	.06
BA	6000	500.0	300.00	1.093	.022	1.114	.13150E-03	458.273	203.48	2.24	2.25	.0300	1.00	.65	.14
BA	6500	500.0	300.00	1.146	.008	1.154	.25678E-04	752.356	206.44	3.63	3.64	.0300	1.00	.40	.07
BA	7000	500.0	300.00	1.158	.008	1.167	.26021E-04	740.336	200.54	3.68	3.69	.0300	1.00	.41	.07
BA	7500	500.0	300.00	1.172	.012	1.183	.40874E-04	625.541	183.89	3.38	3.40	.0300	1.00	.48	.08
BA	8000	500.0	300.00	1.189	.016	1.205	.44689E-04	543.824	137.93	3.90	3.94	.0300	1.00	.55	.09
BA	8500	500.0	300.00	1.214	.004	1.218	.75967E-05	1103.173	213.27	5.09	5.17	.0300	1.00	.27	.04
BA	9000	500.0	300.00	1.219	.011	1.230	.39280E-04	647.851	194.07	3.30	3.34	.0300	1.00	.46	.08
BA	9500	500.0	300.00	1.239	.011	1.250	.44210E-04	637.506	203.70	3.09	3.13	.0300	1.00	.47	.08
BA	10000	500.0	300.00	1.261	.013	1.274	.48711E-04	599.191	188.00	3.16	3.19	.0300	1.00	.50	.09
BA	10500	500.0	300.00	1.288	.012	1.300	.58142E-04	606.379	221.48	2.72	2.74	.0300	1.00	.49	.10
BA	11000	500.0	300.00	1.317	.013	1.330	.59331E-04	595.738	215.35	2.75	2.77	.0300	1.00	.50	.10
BA	11500	500.0	300.00	1.344	.015	1.359	.58889E-04	545.688	171.86	3.15	3.18	.0300	1.00	.55	.10
BA	12000	500.0	300.00	1.378	.012	1.390	.64733E-04	614.299	248.85	2.46	2.47	.0300	1.00	.49	.10
BA	12500	500.0	300.00	1.406	.015	1.421	.57978E-04	555.372	176.79	3.10	3.14	.0300	1.00	.54	.10
BA	13000	500.0	300.00	1.438	.017	1.455	.77673E-04	522.981	190.32	2.73	2.75	.0300	1.00	.57	.11
BA	13500	500.0	300.00	1.478	.017	1.494	.80596E-04	526.798	199.26	2.63	2.64	.0300	1.00	.57	.11
BA	14000	500.0	300.00	1.516	.016	1.532	.68128E-04	540.976	187.84	2.86	2.88	.0300	1.00	.55	.10
BA	14500	500.0	300.00	1.555	.019	1.574	.10064E-03	492.673	199.21	2.46	2.47	.0300	1.00	.61	.12
BA	15000	500.0	300.00	1.600	.016	1.616	.67424E-04	541.732	186.63	2.88	2.90	.0300	1.00	.55	.10
BA	15500	500.0	300.00	1.632	.016	1.648	.61971E-04	539.255	173.10	3.09	3.12	.0300	1.00	.56	.10
BA	16000	500.0	300.00	1.668	.024	1.693	.11694E-03	433.646	161.90	2.66	2.68	.0300	1.00	.69	.14
BA	16500	500.0	300.00	1.733	.033	1.766	.17729E-03	372.891	151.80	2.44	2.46	.0300	1.00	.80	.16
BA	17000	500.0	300.00	1.809	.035	1.844	.13173E-03	361.574	111.12	3.19	3.25	.0300	1.00	.83	.15
BA	17500	500.0	300.00	1.873	.020	1.893	.66756E-04	477.758	134.60	3.50	3.55	.0300	1.00	.63	.11
BA	18000	500.0	300.00	1.916	.032	1.948	.15152E-03	378.826	140.29	2.68	2.70	.0300	1.00	.79	.15
BA	18500	500.0	300.00	1.979	.016	1.996	.39380E-04	531.330	116.96	4.43	4.54	.0300	1.00	.56	.08
BA	19000	500.0	300.00	2.000	.014	2.014	.33731E-04	566.807	121.87	4.52	4.65	.0300	1.00	.53	.08
BA	19500	500.0	300.00	2.017	.018	2.035	.52817E-04	500.397	125.95	3.89	3.97	.0300	1.00	.60	.10
BA	20000	500.0	300.00	2.042	.022	2.064	.61468E-04	456.751	112.93	3.98	4.04	.0300	1.00	.66	.10
BA	20500	500.0	300.00	2.086	.026	2.112	.13017E-03	421.526	163.62	2.56	2.58	.0300	1.00	.71	.14
BA	21000	500.0	300.00	2.156	.074	2.231	.34432E-03	248.405	90.02	2.73	2.76	.0300	1.00	1.21	.23
BA	21500	500.0	300.00	2.326	.064	2.390	.29210E-03	267.808	94.56	2.76	2.83	.0300	1.00	1.12	.21
BA	22000	500.0	300.00	2.456	.048	2.504	.16588E-03	307.932	87.63	3.42	3.51	.0300	1.00	.97	.17
BA	22500	500.0	300.00	2.544	.057	2.601	.22228E-03	283.128	89.58	3.11	3.16	.0300	1.00	1.06	.19
BA	23000	500.0	300.00	2.666	.075	2.742	.33979E-03	246.871	86.65	2.78	2.85	.0300	1.00	1.22	.23
BA	23500	500.0	300.00	2.827	.071	2.898	.28662E-03	254.167	82.39	3.02	3.08	.0300	1.00	1.18	.21
BA	24000	500.0	300.00	3.024	.108	3.132	.64926E-03	205.997	90.84	2.25	2.27	.0300	1.00	1.46	.31
BA	24500	500.0	300.00	3.301	.075	3.376	.32696E-03	247.341	83.65	2.85	2.96	.0300	1.00	1.21	.23
BA	25000	500.0	300.00	3.445	.068	3.513	.21923E-03	260.520	69.61	3.56	3.74	.0300	1.00	1.15	.19
BA	25500	500.0	300.00	3.596	.089	3.686	.47175E-03	226.557	89.19	2.47	2.54	.0300	1.00	1.32	.27
BA	26000	500.0	300.00	3.803	.098	3.901	.38810E-03	216.900	68.66	3.06	3.16	.0300	1.00	1.38	.25
BA	26500	500.0	300.00	4.028	.084	4.112	.45748E-03	233.399	93.10	2.42	2.51	.0300	1.00	1.29	.26
BA	27000	500.0	300.00	4.246	.110	4.356	.51821E-03	204.464	74.03	2.69	2.76	.0300	1.00	1.47	.28
BA	27500	500.0	300.00	4.484	.069	4.552	.26772E-03	258.649	81.73	3.10	3.16	.0300	1.00	1.16	.21
BA	28000	500.0	300.00	4.599	.075	4.674	.22001E-03	246.895	60.05	3.85	4.11	.0300	1.00	1.22	.19
BA	28500	500.0	300.00	4.744	.109	4.852	.49207E-03	205.500	72.55	2.77	2.83	.0300	1.00	1.46	.28
BA	29000	500.0	300.00	4.962	.103	5.065	.35955E-03	211.280	60.66	3.37	3.48	.0300	1.00	1.42	.24

BA	29500	500.0	300.00	5.157	.111	5.268	.45230E-03	202.942	65.38	3.01	3.10	.0300	1.00	1.48	.27
BA	30000	500.0	300.00	5.369	.097	5.466	.33695E-03	217.522	62.58	3.38	3.48	.0300	1.00	1.38	.24
BA	30500	500.0	300.00	5.609	.148	5.757	.82928E-03	175.974	73.13	2.37	2.41	.0300	1.00	1.70	.35
BA	31000	500.0	300.00	5.940	.101	6.041	.30726E-03	213.243	54.99	3.74	3.88	.0300	1.00	1.41	.23
BA	31500	500.0	300.00	6.496	.302	6.798	.27178E-02	123.328	73.74	1.66	1.67	.0300	1.00	2.43	.60
BA	32000	500.0	300.00	7.606	.168	7.773	.11852E-02	165.378	82.46	1.99	2.01	.0300	1.00	1.81	.41
BA	32500	500.0	300.00	8.127	.167	8.293	.89442E-03	165.980	65.80	2.44	2.52	.0300	1.00	1.81	.36
BA	33000	500.0	300.00	8.617	.139	8.755	.95421E-03	182.006	89.04	2.03	2.04	.0300	1.00	1.65	.37
BA	33500	500.0	268.00	9.015	.120	9.135	.56355E-03	174.602	62.84	2.70	2.78	.0300	1.00	1.53	.29
BA	33715	215.0	268.00	9.148	.124	9.272	.71074E-03	172.131	73.03	2.32	2.36	.0300	1.00	1.56	.32
BA	34000	285.0	268.00	9.347	.148	9.495	.85757E-03	157.257	67.13	2.31	2.34	.0300	1.00	1.70	.36
BA	34500	500.0	268.00	9.902	.225	10.127	.16679E-02	127.604	65.88	1.92	1.94	.0300	1.00	2.10	.48
BA	35000	500.0	268.00	10.548	.137	10.685	.56624E-03	163.601	53.73	2.97	3.04	.0300	1.00	1.64	.30

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

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"Non-Uniform Flow. 500m3/s. Ba"

NAME	DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400 .0	500.00	1.000	.009	1.009	.35056E-04	1168.649	363.91	3.19	3.21	.0300	1.00	.43	.08
BA	1000 600.0	500.00	1.018	.013	1.031	.36538E-04	986.701	245.02	3.99	4.03	.0300	1.00	.51	.08
BA	1500 500.0	500.00	1.033	.016	1.049	.34672E-04	897.278	184.41	4.78	4.87	.0300	1.00	.56	.08
BA	2000 500.0	500.00	1.052	.015	1.067	.37924E-04	932.921	218.97	4.22	4.26	.0300	1.00	.54	.08
BA	2500 500.0	500.00	1.067	.019	1.087	.41145E-04	817.198	166.79	4.84	4.90	.0300	1.00	.61	.09
BA	3000 500.0	500.00	1.095	.008	1.103	.24995E-04	1257.106	338.68	3.69	3.71	.0300	1.00	.40	.07
BA	3500 500.0	500.00	1.109	.009	1.117	.32485E-04	1214.176	379.53	3.19	3.20	.0300	1.00	.41	.07

BA	4000	500.0	500.00	1.125	.011	1.136	.41525E-04	1098.538	355.16	3.08	3.09	.0300	1.00	.46	.08
BA	4500	500.0	500.00	1.140	.015	1.155	.34596E-04	913.425	192.25	4.67	4.75	.0300	1.00	.55	.08
BA	5000	500.0	500.00	1.156	.021	1.177	.52843E-04	775.650	177.27	4.34	4.38	.0300	1.00	.64	.10
BA	5500	500.0	500.00	1.189	.013	1.202	.49781E-04	980.304	306.00	3.19	3.20	.0300	1.00	.51	.09
BA	6000	500.0	500.00	1.236	.054	1.290	.29852E-03	487.486	204.05	2.38	2.39	.0300	1.00	1.03	.21
BA	6500	500.0	500.00	1.359	.020	1.379	.59177E-04	796.400	206.55	3.83	3.86	.0300	1.00	.63	.10
BA	7000	500.0	500.00	1.388	.021	1.409	.59503E-04	786.557	201.42	3.89	3.91	.0300	1.00	.64	.10
BA	7500	500.0	500.00	1.418	.028	1.446	.90638E-04	670.959	184.94	3.60	3.63	.0300	1.00	.75	.12
BA	8000	500.0	500.00	1.457	.038	1.495	.10320E-03	581.290	141.82	4.05	4.10	.0300	1.00	.86	.14
BA	8500	500.0	500.00	1.515	.009	1.525	.17548E-04	1167.497	213.40	5.37	5.47	.0300	1.00	.43	.06
BA	9000	500.0	500.00	1.524	.026	1.550	.81879E-04	707.211	194.40	3.59	3.64	.0300	1.00	.71	.12
BA	9500	500.0	500.00	1.567	.026	1.592	.88508E-04	704.222	203.75	3.41	3.46	.0300	1.00	.71	.12
BA	10000	500.0	500.00	1.611	.029	1.640	.10096E-03	666.535	196.77	3.35	3.39	.0300	1.00	.75	.13
BA	10500	500.0	500.00	1.665	.027	1.691	.10563E-03	689.902	222.01	3.08	3.11	.0300	1.00	.72	.13
BA	11000	500.0	500.00	1.717	.027	1.744	.10563E-03	681.923	215.65	3.13	3.16	.0300	1.00	.73	.13
BA	11500	500.0	500.00	1.765	.033	1.798	.11039E-03	618.697	174.92	3.51	3.54	.0300	1.00	.81	.14
BA	12000	500.0	500.00	1.828	.024	1.852	.10378E-03	726.498	250.34	2.89	2.90	.0300	1.00	.69	.13
BA	12500	500.0	500.00	1.872	.031	1.903	.10260E-03	638.046	178.03	3.54	3.58	.0300	1.00	.78	.13
BA	13000	500.0	500.00	1.927	.034	1.960	.12621E-03	616.340	191.59	3.19	3.22	.0300	1.00	.81	.14
BA	13500	500.0	500.00	1.991	.032	2.023	.12508E-03	629.340	200.43	3.11	3.14	.0300	1.00	.79	.14
BA	14000	500.0	500.00	2.051	.031	2.082	.10842E-03	641.827	189.25	3.36	3.39	.0300	1.00	.78	.14
BA	14500	500.0	500.00	2.110	.035	2.145	.14417E-03	603.823	201.33	2.98	3.00	.0300	1.00	.83	.15
BA	15000	500.0	500.00	2.177	.030	2.207	.10533E-03	650.694	191.43	3.37	3.40	.0300	1.00	.77	.13
BA	15500	500.0	500.00	2.227	.031	2.258	.97539E-04	642.759	175.02	3.63	3.67	.0300	1.00	.78	.13
BA	16000	500.0	500.00	2.279	.045	2.324	.16680E-03	533.306	164.44	3.21	3.24	.0300	1.00	.94	.17
BA	16500	500.0	500.00	2.370	.057	2.427	.24541E-03	472.826	162.82	2.88	2.90	.0300	1.00	1.06	.20
BA	17000	500.0	500.00	2.474	.066	2.541	.20929E-03	438.218	118.12	3.64	3.71	.0300	1.00	1.14	.19
BA	17500	500.0	500.00	2.580	.039	2.619	.10313E-03	573.551	136.43	4.13	4.20	.0300	1.00	.87	.14
BA	18000	500.0	500.00	2.638	.055	2.693	.19478E-03	480.978	142.54	3.34	3.37	.0300	1.00	1.04	.18
BA	18500	500.0	500.00	2.726	.033	2.759	.68589E-04	620.296	121.15	4.99	5.12	.0300	1.00	.81	.11
BA	19000	500.0	500.00	2.761	.029	2.791	.57484E-04	659.942	122.53	5.19	5.39	.0300	1.00	.76	.10
BA	19500	500.0	500.00	2.791	.035	2.826	.84292E-04	599.554	130.41	4.50	4.60	.0300	1.00	.83	.12
BA	20000	500.0	500.00	2.829	.043	2.872	.97227E-04	546.659	115.60	4.64	4.73	.0300	1.00	.91	.13
BA	20500	500.0	500.00	2.893	.041	2.934	.15457E-03	557.880	174.14	3.18	3.20	.0300	1.00	.90	.16
BA	21000	500.0	500.00	2.958	.123	3.080	.42851E-03	322.528	94.35	3.37	3.42	.0300	1.00	1.55	.27
BA	21500	500.0	500.00	3.174	.104	3.278	.36135E-03	350.159	100.62	3.38	3.48	.0300	1.00	1.43	.24
BA	22000	500.0	500.00	3.341	.085	3.426	.23029E-03	388.226	92.72	4.06	4.19	.0300	1.00	1.29	.20
BA	22500	500.0	500.00	3.457	.095	3.552	.27601E-03	366.473	92.93	3.87	3.94	.0300	1.00	1.36	.22
BA	23000	500.0	500.00	3.600	.117	3.718	.38544E-03	329.499	90.79	3.53	3.63	.0300	1.00	1.52	.25
BA	23500	500.0	500.00	3.785	.114	3.899	.34062E-03	334.607	86.22	3.79	3.88	.0300	1.00	1.49	.24
BA	24000	500.0	500.00	3.990	.144	4.134	.59833E-03	297.863	99.66	2.95	2.99	.0300	1.00	1.68	.31
BA	24500	500.0	500.00	4.268	.116	4.384	.40206E-03	331.817	94.57	3.39	3.51	.0300	1.00	1.51	.26
BA	25000	500.0	500.00	4.442	.116	4.558	.29479E-03	331.928	73.73	4.27	4.50	.0300	1.00	1.51	.23
BA	25500	500.0	500.00	4.617	.125	4.742	.44138E-03	319.279	92.50	3.34	3.45	.0300	1.00	1.57	.27
BA	26000	500.0	500.00	4.811	.154	4.965	.45007E-03	287.909	71.89	3.85	4.01	.0300	1.00	1.74	.28
BA	26500	500.0	500.00	5.086	.108	5.195	.46790E-03	343.386	115.83	2.87	2.96	.0300	1.00	1.46	.27
BA	27000	500.0	500.00	5.282	.160	5.441	.51971E-03	282.558	76.78	3.55	3.68	.0300	1.00	1.77	.29
BA	27500	500.0	500.00	5.551	.102	5.653	.32780E-03	353.852	96.79	3.58	3.66	.0300	1.00	1.41	.24
BA	28000	500.0	500.00	5.699	.120	5.819	.33479E-03	325.850	77.10	3.99	4.23	.0300	1.00	1.53	.24
BA	28500	500.0	500.00	5.869	.152	6.021	.47342E-03	289.382	76.59	3.68	3.78	.0300	1.00	1.73	.28
BA	29000	500.0	500.00	6.088	.159	6.247	.42964E-03	283.251	66.60	4.08	4.25	.0300	1.00	1.77	.27

BA	29500	500.0	500.00	6.314	.160	6.474	.47871E-03	282.300	72.19	3.78	3.91	.0300	1.00	1.77	.29
BA	30000	500.0	500.00	6.549	.146	6.695	.40757E-03	295.334	71.84	3.99	4.11	.0300	1.00	1.69	.27
BA	30500	500.0	500.00	6.794	.175	6.969	.68692E-03	259.946	86.01	3.09	3.14	.0300	1.00	1.85	.33
BA	31000	500.0	500.00	7.087	.160	7.247	.42421E-03	282.706	65.94	4.13	4.29	.0300	1.00	1.77	.27
BA	31500	500.0	500.00	7.462	.328	7.790	.17464E-02	197.334	79.34	2.45	2.49	.0300	1.00	2.53	.51
BA	32000	500.0	500.00	8.302	.252	8.554	.13114E-02	225.102	89.20	2.50	2.52	.0300	1.00	2.22	.45
BA	32500	500.0	500.00	8.907	.261	9.168	.11451E-02	221.025	75.33	2.84	2.93	.0300	1.00	2.26	.42
BA	33000	500.0	500.00	9.478	.189	9.667	.84868E-03	259.857	91.89	2.79	2.83	.0300	1.00	1.92	.37
BA	33500	500.0	446.00	9.865	.190	10.055	.70386E-03	231.252	69.69	3.22	3.32	.0300	1.00	1.93	.34
BA	33715	215.0	446.00	10.042	.173	10.215	.79084E-03	242.125	86.42	2.75	2.80	.0300	1.00	1.84	.35
BA	34000	285.0	446.00	10.239	.211	10.451	.96109E-03	219.184	71.67	3.00	3.06	.0300	1.00	2.03	.37
BA	34500	500.0	446.00	10.745	.296	11.041	.14993E-02	185.125	71.48	2.55	2.59	.0300	1.00	2.41	.48
BA	35000	500.0	446.00	11.410	.220	11.630	.85923E-03	214.645	67.53	3.10	3.18	.0300	1.00	2.08	.37

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

"Non-Uniform Flow, 1000m3/s, Ba"

NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	1000.00	1.000	.037	1.037	.14022E-03	1168.649	363.91	3.19	3.21	.0300	1.00	.86	.15
BA	1000	600.0	1000.00	1.070	.051	1.121	.14004E-03	999.604	245.02	4.04	4.08	.0300	1.00	1.00	.16
BA	1500	500.0	1000.00	1.128	.061	1.189	.13019E-03	914.844	184.41	4.87	4.96	.0300	1.00	1.09	.16
BA	2000	500.0	1000.00	1.201	.055	1.255	.13556E-03	965.455	218.97	4.36	4.41	.0300	1.00	1.04	.16
BA	2500	500.0	1000.00	1.255	.071	1.326	.14569E-03	848.468	166.84	5.01	5.09	.0300	1.00	1.18	.17
BA	3000	500.0	1000.00	1.354	.028	1.382	.80014E-04	1344.812	338.70	3.94	3.97	.0300	1.00	.74	.12
BA	3500	500.0	1000.00	1.398	.029	1.427	.97766E-04	1323.858	380.27	3.47	3.48	.0300	1.00	.76	.13

BA	4000	500.0	1000.00	1.447	.035	1.481	.12083E-03	1213.090	358.17	3.37	3.39	.0300	1.00	.82	.14
BA	4500	500.0	1000.00	1.486	.053	1.539	.10998E-03	979.977	192.28	4.99	5.10	.0300	1.00	1.02	.14
BA	5000	500.0	1000.00	1.535	.072	1.607	.16154E-03	843.049	177.99	4.68	4.74	.0300	1.00	1.19	.17
BA	5500	500.0	1000.00	1.639	.041	1.680	.12917E-03	1117.997	306.40	3.63	3.65	.0300	1.00	.89	.15
BA	6000	500.0	1000.00	1.726	.148	1.874	.64731E-03	587.933	205.54	2.84	2.86	.0300	1.00	1.70	.32
BA	6500	500.0	1000.00	2.012	.059	2.071	.14167E-03	931.406	206.76	4.45	4.50	.0300	1.00	1.07	.16
BA	7000	500.0	1000.00	2.082	.059	2.141	.13932E-03	926.435	201.86	4.54	4.59	.0300	1.00	1.08	.16
BA	7500	500.0	1000.00	2.147	.078	2.226	.19952E-03	806.549	186.48	4.27	4.33	.0300	1.00	1.24	.19
BA	8000	500.0	1000.00	2.233	.106	2.338	.24975E-03	695.360	152.15	4.51	4.57	.0300	1.00	1.44	.21
BA	8500	500.0	1000.00	2.384	.028	2.411	.43419E-04	1352.745	213.40	6.17	6.34	.0300	1.00	.74	.09
BA	9000	500.0	1000.00	2.397	.066	2.463	.16206E-03	877.195	195.30	4.40	4.49	.0300	1.00	1.14	.17
BA	9500	500.0	1000.00	2.480	.064	2.544	.16391E-03	890.387	203.89	4.27	4.37	.0300	1.00	1.12	.17
BA	10000	500.0	1000.00	2.562	.069	2.631	.18212E-03	858.014	202.17	4.17	4.24	.0300	1.00	1.17	.18
BA	10500	500.0	1000.00	2.657	.061	2.719	.16971E-03	911.012	223.42	4.02	4.08	.0300	1.00	1.10	.17
BA	11000	500.0	1000.00	2.741	.063	2.803	.16796E-03	903.120	216.40	4.10	4.17	.0300	1.00	1.11	.17
BA	11500	500.0	1000.00	2.814	.079	2.893	.19026E-03	804.922	178.46	4.44	4.51	.0300	1.00	1.24	.19
BA	12000	500.0	1000.00	2.926	.051	2.977	.14474E-03	1003.449	253.91	3.92	3.95	.0300	1.00	1.00	.16
BA	12500	500.0	1000.00	2.983	.073	3.056	.17239E-03	838.108	182.97	4.50	4.58	.0300	1.00	1.19	.18
BA	13000	500.0	1000.00	3.075	.072	3.147	.19167E-03	841.142	201.08	4.13	4.18	.0300	1.00	1.19	.19
BA	13500	500.0	1000.00	3.171	.068	3.239	.17752E-03	868.338	205.44	4.18	4.23	.0300	1.00	1.15	.18
BA	14000	500.0	1000.00	3.259	.066	3.325	.16434E-03	881.023	201.06	4.33	4.38	.0300	1.00	1.14	.17
BA	14500	500.0	1000.00	3.345	.069	3.414	.19522E-03	857.247	214.14	3.96	4.00	.0300	1.00	1.17	.19
BA	15000	500.0	1000.00	3.439	.063	3.502	.15536E-03	899.732	203.24	4.38	4.43	.0300	1.00	1.11	.17
BA	15500	500.0	1000.00	3.510	.067	3.578	.14704E-03	869.838	178.31	4.80	4.88	.0300	1.00	1.15	.17
BA	16000	500.0	1000.00	3.580	.091	3.670	.22385E-03	750.708	169.85	4.37	4.42	.0300	1.00	1.33	.20
BA	16500	500.0	1000.00	3.706	.101	3.806	.31995E-03	711.398	194.68	3.62	3.65	.0300	1.00	1.41	.23
BA	17000	500.0	1000.00	3.823	.141	3.964	.31220E-03	601.507	123.96	4.74	4.85	.0300	1.00	1.66	.24
BA	17500	500.0	1000.00	3.997	.086	4.083	.16169E-03	769.380	139.80	5.37	5.50	.0300	1.00	1.30	.18
BA	18000	500.0	1000.00	4.077	.107	4.185	.24614E-03	689.052	146.25	4.62	4.71	.0300	1.00	1.45	.21
BA	18500	500.0	1000.00	4.199	.079	4.278	.12609E-03	804.764	129.25	6.05	6.23	.0300	1.00	1.24	.16
BA	19000	500.0	1000.00	4.264	.071	4.336	.10469E-03	844.781	123.74	6.47	6.83	.0300	1.00	1.18	.14
BA	19500	500.0	1000.00	4.317	.079	4.396	.13709E-03	804.488	138.08	5.68	5.83	.0300	1.00	1.24	.16
BA	20000	500.0	1000.00	4.374	.096	4.470	.15915E-03	729.366	120.86	5.89	6.03	.0300	1.00	1.37	.18
BA	20500	500.0	1000.00	4.484	.070	4.554	.17538E-03	852.660	195.19	4.33	4.37	.0300	1.00	1.17	.18
BA	21000	500.0	1000.00	4.500	.229	4.729	.52403E-03	472.309	99.93	4.62	4.73	.0300	1.00	2.12	.31
BA	21500	500.0	1000.00	4.796	.179	4.975	.46262E-03	533.363	122.84	4.23	4.34	.0300	1.00	1.87	.29
BA	22000	500.0	1000.00	5.001	.171	5.171	.32099E-03	546.962	98.25	5.36	5.57	.0300	1.00	1.83	.25
BA	22500	500.0	1000.00	5.159	.182	5.341	.35727E-03	530.035	99.61	5.18	5.32	.0300	1.00	1.89	.26
BA	23000	500.0	1000.00	5.337	.207	5.544	.45645E-03	496.061	101.01	4.76	4.91	.0300	1.00	2.02	.29
BA	23500	500.0	1000.00	5.566	.203	5.769	.44297E-03	500.843	101.51	4.80	4.93	.0300	1.00	2.00	.29
BA	24000	500.0	1000.00	5.829	.203	6.031	.60590E-03	501.902	131.08	3.78	3.83	.0300	1.00	1.99	.33
BA	24500	500.0	1000.00	6.101	.190	6.290	.43124E-03	518.330	107.26	4.65	4.83	.0300	1.00	1.93	.28
BA	25000	500.0	1000.00	6.274	.227	6.501	.41222E-03	474.094	81.16	5.50	5.84	.0300	1.00	2.11	.28
BA	25500	500.0	1000.00	6.509	.204	6.713	.43580E-03	500.190	98.65	4.87	5.07	.0300	1.00	2.00	.28
BA	26000	500.0	1000.00	6.716	.250	6.967	.57781E-03	451.319	94.54	4.60	4.77	.0300	1.00	2.22	.32
BA	26500	500.0	1000.00	7.089	.116	7.205	.37348E-03	663.083	180.31	3.58	3.68	.0300	1.00	1.51	.25
BA	27000	500.0	1000.00	7.178	.269	7.447	.59545E-03	435.531	88.07	4.74	4.95	.0300	1.00	2.30	.33
BA	27500	500.0	1000.00	7.512	.167	7.680	.33534E-03	552.636	105.33	5.10	5.25	.0300	1.00	1.81	.25
BA	28000	500.0	1000.00	7.651	.216	7.867	.41399E-03	486.476	86.75	5.28	5.61	.0300	1.00	2.06	.28
BA	28500	500.0	1000.00	7.839	.256	8.096	.50133E-03	446.133	81.74	5.20	5.46	.0300	1.00	2.24	.31
BA	29000	500.0	1000.00	8.066	.287	8.353	.52770E-03	421.980	73.54	5.44	5.74	.0300	1.00	2.37	.32

BA	29500	500.0	1000.00	8.355	.261	8.616	.52425E-03	442.248	83.47	5.10	5.30	.0300	1.00	2.26	.31
BA	30000	500.0	1000.00	8.629	.236	8.864	.46863E-03	465.388	87.36	5.14	5.33	.0300	1.00	2.15	.30
BA	30500	500.0	1000.00	8.933	.193	9.126	.57915E-03	514.532	134.53	3.77	3.82	.0300	1.00	1.94	.32
BA	31000	500.0	1000.00	9.125	.277	9.402	.52297E-03	429.461	77.32	5.34	5.55	.0300	1.00	2.33	.32
BA	31500	500.0	1000.00	9.419	.390	9.809	.11073E-02	361.822	90.03	3.93	4.02	.0300	1.00	2.76	.44
BA	32000	500.0	1000.00	10.119	.266	10.385	.11940E-02	438.222	155.38	2.79	2.82	.0300	1.00	2.28	.43
BA	32500	500.0	1000.00	10.585	.387	10.972	.11579E-02	363.012	92.71	3.78	3.92	.0300	1.00	2.75	.44
BA	33000	500.0	1000.00	11.160	.290	11.451	.75465E-03	419.158	97.46	4.21	4.30	.0300	1.00	2.39	.37
BA	33500	500.0	892.00	11.506	.331	11.837	.79001E-03	350.466	75.24	4.48	4.66	.0300	1.00	2.55	.38
BA	33715	215.0	892.00	11.756	.240	11.996	.69378E-03	410.969	103.27	3.89	3.98	.0300	1.00	2.17	.35
BA	34000	285.0	892.00	11.876	.346	12.222	.89378E-03	342.516	78.96	4.22	4.34	.0300	1.00	2.60	.40
BA	34500	500.0	892.00	12.331	.438	12.769	.12920E-02	304.498	77.63	3.82	3.92	.0300	1.00	2.93	.47
BA	35000	500.0	892.00	12.961	.378	13.339	.98777E-03	327.671	75.77	4.19	4.32	.0300	1.00	2.72	.42

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

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"Non-Uniform Flow, 3000m3/s, Ba"

NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	3000.00	1.000	.336	1.336	.12620E-02	1168.649	363.91	3.19	3.21	.0300	1.00	2.57	.46
BA	1000	600.0	3000.00	1.608	.359	1.967	.83918E-03	1131.279	245.02	4.55	4.62	.0300	1.00	2.65	.39
BA	1500	500.0	3000.00	1.950	.404	2.354	.71093E-03	1066.495	184.41	5.63	5.78	.0300	1.00	2.81	.37
BA	2000	500.0	3000.00	2.365	.308	2.673	.56643E-03	1220.436	218.97	5.45	5.57	.0300	1.00	2.46	.33
BA	2500	500.0	3000.00	2.568	.403	2.971	.62249E-03	1067.505	166.84	6.21	6.40	.0300	1.00	2.81	.35
BA	3000	500.0	3000.00	3.057	.124	3.182	.22199E-03	1921.788	338.70	5.57	5.67	.0300	1.00	1.56	.21
BA	3500	500.0	3000.00	3.179	.115	3.293	.22466E-03	2001.662	380.51	5.20	5.26	.0300	1.00	1.50	.21

BA	4000	500.0	3000.00	3.284	.130	3.415	.26018E-03	1877.223	361.61	5.12	5.19	.0300	1.00	1.60	.22
BA	4500	500.0	3000.00	3.312	.259	3.571	.36553E-03	1331.097	192.28	6.65	6.92	.0300	1.00	2.25	.27
BA	5000	500.0	3000.00	3.457	.325	3.783	.48081E-03	1187.908	179.92	6.42	6.60	.0300	1.00	2.53	.31
BA	5500	500.0	3000.00	3.821	.144	3.965	.24818E-03	1786.673	306.40	5.72	5.83	.0300	1.00	1.68	.22
BA	6000	500.0	3000.00	3.824	.442	4.265	.95368E-03	1019.716	205.85	4.83	4.95	.0300	1.00	2.94	.42
BA	6500	500.0	3000.00	4.356	.229	4.585	.32390E-03	1415.983	206.76	6.64	6.85	.0300	1.00	2.12	.26
BA	7000	500.0	3000.00	4.516	.228	4.744	.31301E-03	1417.959	201.95	6.80	7.02	.0300	1.00	2.12	.26
BA	7500	500.0	3000.00	4.640	.284	4.924	.40696E-03	1272.444	186.91	6.57	6.81	.0300	1.00	2.36	.29
BA	8000	500.0	3000.00	4.781	.380	5.161	.53917E-03	1099.349	161.24	6.62	6.82	.0300	1.00	2.73	.33
BA	8500	500.0	3000.00	5.205	.120	5.325	.11803E-03	1954.764	213.40	8.72	9.16	.0300	1.00	1.53	.16
BA	9000	500.0	3000.00	5.203	.226	5.429	.29976E-03	1425.411	195.32	6.96	7.30	.0300	1.00	2.10	.25
BA	9500	500.0	3000.00	5.365	.210	5.575	.28169E-03	1478.622	203.92	6.91	7.25	.0300	1.00	2.03	.24
BA	10000	500.0	3000.00	5.501	.218	5.719	.29425E-03	1452.389	202.21	6.87	7.18	.0300	1.00	2.07	.25
BA	10500	500.0	3000.00	5.672	.183	5.855	.24929E-03	1585.862	223.89	6.81	7.08	.0300	1.00	1.89	.23
BA	11000	500.0	3000.00	5.792	.188	5.980	.25090E-03	1564.769	216.89	6.92	7.21	.0300	1.00	1.92	.23
BA	11500	500.0	3000.00	5.871	.250	6.122	.31809E-03	1354.185	180.06	7.19	7.52	.0300	1.00	2.22	.26
BA	12000	500.0	3000.00	6.110	.138	6.248	.18687E-03	1821.132	257.29	6.87	7.08	.0300	1.00	1.65	.20
BA	12500	500.0	3000.00	6.137	.229	6.365	.28200E-03	1416.904	183.63	7.36	7.72	.0300	1.00	2.12	.24
BA	13000	500.0	3000.00	6.298	.205	6.502	.26623E-03	1497.302	203.91	7.07	7.34	.0300	1.00	2.00	.24
BA	13500	500.0	3000.00	6.440	.190	6.630	.24562E-03	1554.253	211.25	7.10	7.36	.0300	1.00	1.93	.23
BA	14000	500.0	3000.00	6.562	.189	6.751	.23605E-03	1558.106	206.41	7.29	7.55	.0300	1.00	1.93	.22
BA	14500	500.0	3000.00	6.698	.172	6.869	.23851E-03	1635.641	239.44	6.73	6.83	.0300	1.00	1.83	.22
BA	15000	500.0	3000.00	6.817	.169	6.986	.22885E-03	1648.370	235.07	6.86	7.01	.0300	1.00	1.82	.22
BA	15500	500.0	3000.00	6.893	.210	7.103	.23892E-03	1479.367	181.20	7.81	8.16	.0300	1.00	2.03	.23
BA	16000	500.0	3000.00	6.990	.252	7.241	.31439E-03	1350.089	179.50	7.29	7.52	.0300	1.00	2.22	.26
BA	16500	500.0	3000.00	7.172	.229	7.401	.32381E-03	1415.904	206.74	6.64	6.85	.0300	1.00	2.12	.26
BA	17000	500.0	3000.00	7.206	.406	7.612	.52152E-03	1063.120	143.41	7.14	7.41	.0300	1.00	2.82	.33
BA	17500	500.0	3000.00	7.532	.284	7.817	.29553E-03	1270.503	142.09	8.36	8.94	.0300	1.00	2.36	.25
BA	18000	500.0	3000.00	7.670	.309	7.979	.35400E-03	1218.603	147.52	7.78	8.26	.0300	1.00	2.46	.27
BA	18500	500.0	3000.00	7.861	.272	8.133	.26051E-03	1299.840	138.58	8.89	9.38	.0300	1.00	2.31	.24
BA	19000	500.0	3000.00	7.991	.266	8.257	.23693E-03	1313.184	127.64	9.40	10.29	.0300	1.00	2.28	.23
BA	19500	500.0	3000.00	8.124	.254	8.377	.24504E-03	1345.858	142.94	8.83	9.42	.0300	1.00	2.23	.23
BA	20000	500.0	3000.00	8.236	.290	8.526	.34813E-03	1258.865	163.86	7.50	7.68	.0300	1.00	2.38	.27
BA	20500	500.0	3000.00	8.491	.169	8.660	.18820E-03	1648.146	199.75	7.94	8.25	.0300	1.00	1.82	.20
BA	21000	500.0	3000.00	8.347	.557	8.904	.79017E-03	907.928	133.48	6.62	6.80	.0300	1.00	3.30	.40
BA	21500	500.0	3000.00	8.822	.404	9.226	.49537E-03	1066.261	137.58	7.39	7.75	.0300	1.00	2.81	.32
BA	22000	500.0	3000.00	8.975	.508	9.483	.53217E-03	950.938	105.58	8.31	9.01	.0300	1.00	3.15	.34
BA	22500	500.0	3000.00	9.254	.493	9.747	.52394E-03	965.407	109.26	8.22	8.84	.0300	1.00	3.11	.33
BA	23000	500.0	3000.00	9.510	.511	10.020	.56976E-03	948.357	112.18	7.93	8.45	.0300	1.00	3.16	.35
BA	23500	500.0	3000.00	9.641	.458	10.299	.54462E-03	1001.513	126.99	7.56	7.89	.0300	1.00	3.00	.34
BA	24000	500.0	3000.00	10.233	.312	10.545	.44156E-03	1212.336	178.87	6.64	6.78	.0300	1.00	2.47	.30
BA	24500	500.0	3000.00	10.323	.460	10.783	.50992E-03	998.663	115.93	7.97	8.61	.0300	1.00	3.00	.33
BA	25000	500.0	3000.00	10.448	.638	11.086	.70308E-03	848.043	98.47	8.01	8.61	.0300	1.00	3.54	.39
BA	25500	500.0	3000.00	10.934	.465	11.399	.54676E-03	994.111	124.33	7.62	8.00	.0300	1.00	3.02	.34
BA	26000	500.0	3000.00	11.155	.545	11.700	.65662E-03	917.783	117.14	7.49	7.83	.0300	1.00	3.27	.37
BA	26500	500.0	3000.00	11.727	.195	11.922	.23247E-03	1534.724	193.47	7.54	7.93	.0300	1.00	1.95	.22
BA	27000	500.0	3000.00	11.564	.591	12.156	.70203E-03	881.135	110.61	7.57	7.97	.0300	1.00	3.40	.39
BA	27500	500.0	3000.00	12.043	.394	12.437	.42535E-03	1079.543	126.86	8.13	8.51	.0300	1.00	2.78	.30
BA	28000	500.0	3000.00	12.143	.546	12.689	.58212E-03	916.719	103.82	8.21	8.83	.0300	1.00	3.27	.35
BA	28500	500.0	3000.00	12.345	.660	13.005	.68253E-03	833.829	89.20	8.40	9.35	.0300	1.00	3.60	.38
BA	29000	500.0	3000.00	12.641	.727	13.368	.76769E-03	795.003	89.58	8.26	8.88	.0300	1.00	3.77	.40

BA	29500	500.0	3000.00	13.144	.573	13.716	.62591E-03	895.312	105.84	8.05	8.46	.0300	1.00	3.35	.37
BA	30000	500.0	3000.00	13.517	.500	14.017	.57546E-03	958.304	118.25	7.75	8.10	.0300	1.00	3.13	.35
BA	30500	500.0	3000.00	13.961	.285	14.246	.34147E-03	1269.316	164.90	7.52	7.70	.0300	1.00	2.36	.27
BA	31000	500.0	3000.00	13.878	.627	14.505	.69436E-03	855.920	102.49	7.97	8.35	.0300	1.00	3.51	.39
BA	31500	500.0	3000.00	14.243	.637	14.880	.80488E-03	849.178	113.45	7.22	7.48	.0300	1.00	3.53	.41
BA	32000	500.0	3000.00	14.887	.296	15.183	.40727E-03	1245.179	179.12	6.78	6.95	.0300	1.00	2.41	.29
BA	32500	500.0	3000.00	14.763	.772	15.535	.10033E-02	771.068	102.66	7.07	7.51	.0300	1.00	3.89	.45
BA	33000	500.0	3000.00	15.376	.609	15.985	.79459E-03	868.553	119.18	7.05	7.29	.0300	1.00	3.45	.41
BA	33500	500.0	2676.00	15.659	.762	16.421	.94985E-03	692.607	89.61	7.29	7.73	.0300	1.00	3.86	.44
BA	33715	215.0	2676.00	16.122	.462	16.585	.57335E-03	888.820	116.09	7.33	7.66	.0300	1.00	3.01	.35
BA	34000	285.0	2676.00	16.077	.721	16.798	.92294E-03	712.007	94.41	7.15	7.54	.0300	1.00	3.76	.44
BA	34500	500.0	2676.00	16.434	.890	17.323	.11790E-02	640.789	85.35	6.97	7.51	.0300	1.00	4.18	.49
BA	35000	500.0	2676.00	17.070	.817	17.886	.10724E-02	668.867	90.59	7.02	7.38	.0300	1.00	4.00	.47

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

1

"Non-Uniform Flow. 5000m3/s. Ba"

NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	5000.00	1.000	.934	1.934	.35056E-02	1168.649	363.91	3.19	3.21	.0300	1.00	4.28	.76
BA	1000	600.0	5000.00	2.682	.656	3.338	.11733E-02	1394.376	245.02	5.57	5.69	.0300	1.00	3.59	.48
BA	1500	500.0	5000.00	3.127	.774	3.902	.10826E-02	1283.533	184.41	6.69	6.96	.0300	1.00	3.90	.47
BA	2000	500.0	5000.00	3.818	.539	4.357	.73862E-03	1538.574	218.97	6.79	7.03	.0300	1.00	3.25	.39
BA	2500	500.0	5000.00	4.021	.743	4.764	.89167E-03	1309.997	166.84	7.51	7.85	.0300	1.00	3.82	.44
BA	3000	500.0	5000.00	4.850	.199	5.050	.24982E-03	2529.051	338.70	7.27	7.47	.0300	1.00	1.98	.23
BA	3500	500.0	5000.00	4.995	.176	5.171	.23422E-03	2692.685	380.51	6.94	7.08	.0300	1.00	1.86	.22

BA	4000	500.0	5000.00	5.098	.199	5.296	.26853E-03	2532.938	361.61	6.87	7.00	.0300	1.00	1.97	.24
BA	4500	500.0	5000.00	5.025	.463	5.488	.49612E-03	1660.499	192.28	8.17	8.64	.0300	1.00	3.01	.33
BA	5000	500.0	5000.00	5.203	.565	5.768	.62589E-03	1501.953	179.92	7.98	8.35	.0300	1.00	3.33	.37
BA	5500	500.0	5000.00	5.767	.225	5.991	.26692E-03	2382.819	306.40	7.56	7.78	.0300	1.00	2.10	.24
BA	6000	500.0	5000.00	5.638	.657	6.295	.94723E-03	1393.102	205.85	6.54	6.77	.0300	1.00	3.59	.44
BA	6500	500.0	5000.00	6.242	.391	6.633	.40469E-03	1805.936	206.76	8.39	8.73	.0300	1.00	2.77	.30
BA	7000	500.0	5000.00	6.442	.391	6.833	.39395E-03	1806.967	201.95	8.55	8.95	.0300	1.00	2.77	.30
BA	7500	500.0	5000.00	6.578	.477	7.056	.49883E-03	1634.675	186.91	8.33	8.75	.0300	1.00	3.06	.33
BA	8000	500.0	5000.00	6.709	.640	7.349	.67361E-03	1411.631	162.06	8.28	8.71	.0300	1.00	3.54	.38
BA	8500	500.0	5000.00	7.339	.220	7.559	.16536E-03	2410.235	213.40	10.65	11.29	.0300	1.00	2.07	.20
BA	9000	500.0	5000.00	7.313	.378	7.691	.36343E-03	1837.482	195.32	8.86	9.41	.0300	1.00	2.72	.28
BA	9500	500.0	5000.00	7.518	.347	7.865	.33413E-03	1917.820	203.92	8.85	9.40	.0300	1.00	2.61	.27
BA	10000	500.0	5000.00	7.679	.356	8.035	.34425E-03	1892.759	202.21	8.83	9.36	.0300	1.00	2.64	.28
BA	10500	500.0	5000.00	7.898	.294	8.192	.28291E-03	2084.240	223.89	8.85	9.31	.0300	1.00	2.40	.25
BA	11000	500.0	5000.00	8.031	.303	8.334	.28765E-03	2050.331	216.89	8.96	9.45	.0300	1.00	2.44	.25
BA	11500	500.0	5000.00	8.087	.415	8.502	.38301E-03	1753.098	180.06	9.14	9.74	.0300	1.00	2.85	.29
BA	12000	500.0	5000.00	8.431	.218	8.649	.20422E-03	2418.297	257.29	9.04	9.40	.0300	1.00	2.07	.22
BA	12500	500.0	5000.00	8.405	.379	8.784	.33860E-03	1833.447	183.63	9.37	9.98	.0300	1.00	2.73	.28
BA	13000	500.0	5000.00	8.616	.329	8.945	.30317E-03	1970.106	203.91	9.14	9.66	.0300	1.00	2.54	.26
BA	13500	500.0	5000.00	8.787	.304	9.090	.27783E-03	2049.917	211.25	9.20	9.70	.0300	1.00	2.44	.25
BA	14000	500.0	5000.00	8.922	.305	9.227	.27124E-03	2045.422	206.41	9.40	9.91	.0300	1.00	2.44	.25
BA	14500	500.0	5000.00	9.098	.260	9.358	.25051E-03	2217.006	243.59	8.84	9.10	.0300	1.00	2.26	.24
BA	15000	500.0	5000.00	9.221	.260	9.481	.24416E-03	2213.459	235.07	9.03	9.42	.0300	1.00	2.26	.24
BA	15500	500.0	5000.00	9.266	.350	9.616	.29241E-03	1909.240	181.20	9.85	10.54	.0300	1.00	2.62	.26
BA	16000	500.0	5000.00	9.376	.403	9.779	.36050E-03	1778.373	179.50	9.36	9.91	.0300	1.00	2.81	.29
BA	16500	500.0	5000.00	9.606	.346	9.953	.33512E-03	1919.211	206.74	8.82	9.28	.0300	1.00	2.61	.27
BA	17000	500.0	5000.00	9.538	.651	10.188	.60687E-03	1400.183	144.87	9.07	9.67	.0300	1.00	3.57	.37
BA	17500	500.0	5000.00	9.945	.490	10.435	.38131E-03	1613.384	142.09	10.39	11.35	.0300	1.00	3.10	.29
BA	18000	500.0	5000.00	10.126	.510	10.636	.42298E-03	1580.947	147.52	9.91	10.72	.0300	1.00	3.16	.31
BA	18500	500.0	5000.00	10.361	.468	10.829	.34592E-03	1650.838	141.44	10.80	11.67	.0300	1.00	3.03	.28
BA	19000	500.0	5000.00	10.523	.475	10.998	.33149E-03	1639.073	129.08	11.27	12.70	.0300	1.00	3.05	.27
BA	19500	500.0	5000.00	10.727	.432	11.159	.31233E-03	1717.891	142.94	10.98	12.02	.0300	1.00	2.91	.27
BA	20000	500.0	5000.00	10.893	.438	11.332	.37886E-03	1705.690	169.35	9.60	10.07	.0300	1.00	2.93	.30
BA	20500	500.0	5000.00	11.213	.265	11.479	.20904E-03	2191.942	199.75	10.30	10.97	.0300	1.00	2.28	.22
BA	21000	500.0	5000.00	10.943	.788	11.730	.79805E-03	1272.663	142.52	8.52	8.93	.0300	1.00	3.93	.42
BA	21500	500.0	5000.00	11.442	.625	12.067	.54667E-03	1428.574	138.36	9.52	10.33	.0300	1.00	3.50	.35
BA	22000	500.0	5000.00	11.546	.838	12.384	.72238E-03	1233.506	116.35	9.62	10.60	.0300	1.00	4.05	.40
BA	22500	500.0	5000.00	11.917	.808	12.725	.64142E-03	1256.327	109.26	10.24	11.50	.0300	1.00	3.98	.37
BA	23000	500.0	5000.00	12.240	.810	13.050	.65889E-03	1254.602	112.18	10.05	11.18	.0300	1.00	3.99	.38
BA	23500	500.0	5000.00	12.691	.670	13.361	.58446E-03	1379.729	134.80	9.54	10.24	.0300	1.00	3.62	.36
BA	24000	500.0	5000.00	13.185	.418	13.603	.38372E-03	1747.288	181.97	9.17	9.60	.0300	1.00	2.86	.29
BA	24500	500.0	5000.00	13.117	.729	13.846	.58855E-03	1322.556	115.93	10.11	11.41	.0300	1.00	3.78	.36
BA	25000	500.0	5000.00	13.194	1.008	14.202	.83730E-03	1125.000	102.46	9.89	10.98	.0300	1.00	4.44	.43
BA	25500	500.0	5000.00	13.874	.679	14.554	.56767E-03	1370.385	129.65	9.85	10.57	.0300	1.00	3.65	.36
BA	26000	500.0	5000.00	14.096	.774	14.870	.69674E-03	1283.819	130.29	9.31	9.85	.0300	1.00	3.89	.40
BA	26500	500.0	5000.00	14.822	.278	15.100	.22489E-03	2142.844	197.80	10.08	10.83	.0300	1.00	2.33	.23
BA	27000	500.0	5000.00	14.501	.845	15.347	.76212E-03	1228.389	124.73	9.30	9.85	.0300	1.00	4.07	.41
BA	27500	500.0	5000.00	15.063	.589	15.652	.45974E-03	1471.698	131.86	10.36	11.16	.0300	1.00	3.40	.32
BA	28000	500.0	5000.00	15.104	.832	15.935	.67310E-03	1238.504	112.56	10.09	11.00	.0300	1.00	4.04	.39
BA	28500	500.0	5000.00	15.241	1.069	16.311	.82799E-03	1092.189	89.20	10.43	12.24	.0300	1.00	4.58	.42
BA	29000	500.0	5000.00	15.643	1.097	16.740	.88743E-03	1078.328	97.54	10.09	11.06	.0300	1.00	4.64	.45

BA	29500	500.0	5000.00	16.303	.823	17.126	.65726E-03	1245.258	114.07	10.18	10.92	.0300	1.00	4.02	.39
BA	30000	500.0	5000.00	16.756	.677	17.433	.57160E-03	1373.096	130.27	9.77	10.54	.0300	1.00	3.64	.36
BA	30500	500.0	5000.00	17.276	.377	17.652	.30623E-03	1840.325	175.79	10.05	10.47	.0300	1.00	2.72	.27
BA	31000	500.0	5000.00	17.028	.886	17.914	.74033E-03	1199.940	114.16	9.85	10.51	.0300	1.00	4.17	.41
BA	31500	500.0	5000.00	17.441	.843	18.284	.74073E-03	1230.046	122.26	9.48	10.06	.0300	1.00	4.06	.41
BA	32000	500.0	5000.00	18.178	.373	18.551	.32727E-03	1848.348	185.01	9.50	9.99	.0300	1.00	2.71	.27
BA	32500	500.0	5000.00	17.833	1.047	18.880	.98712E-03	1103.609	114.28	9.00	9.66	.0300	1.00	4.53	.47
BA	33000	500.0	5000.00	18.523	.787	19.310	.73387E-03	1273.045	133.75	9.07	9.52	.0300	1.00	3.93	.41
BA	33500	500.0	4460.00	18.678	1.060	19.738	.97873E-03	978.332	99.35	9.14	9.85	.0300	1.00	4.56	.46
BA	33715	215.0	4460.00	19.273	.629	19.902	.54668E-03	1269.766	125.06	9.57	10.15	.0300	1.00	3.51	.35
BA	34000	285.0	4460.00	19.086	1.023	20.109	.90147E-03	996.025	94.41	9.46	10.55	.0300	1.00	4.48	.44
BA	34500	500.0	4460.00	19.375	1.257	20.632	.11920E-02	898.548	89.92	8.96	9.99	.0300	1.00	4.96	.50
BA	35000	500.0	4460.00	20.143	1.056	21.199	.10748E-02	930.373	109.16	8.49	8.98	.0300	1.00	4.55	.48

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

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"Non-Uniform Flow, 10.000m3/s, Ba"

NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	10000.00	2.044	2.128	4.172	.55259E-02	1548.541	363.91	4.21	4.26	.0300	1.00	6.46	1.00
BA	1000	600.0	10000.00	4.955	1.340	6.295	.15512E-02	1951.364	245.02	7.71	7.96	.0300	1.00	5.12	.58
BA	1500	500.0	10000.00	5.341	1.783	7.123	.17637E-02	1691.675	184.41	8.68	9.17	.0300	1.00	5.91	.62
BA	2000	500.0	10000.00	6.723	1.079	7.802	.95001E-03	2174.669	218.97	9.47	9.93	.0300	1.00	4.60	.47
BA	2500	500.0	10000.00	6.737	1.641	8.378	.13563E-02	1763.124	166.84	9.93	10.57	.0300	1.00	5.67	.56
BA	3000	500.0	10000.00	8.421	.365	8.786	.27494E-03	3738.459	338.70	10.65	11.04	.0300	1.00	2.67	.26
BA	3500	500.0	10000.00	8.606	.308	8.915	.23903E-03	4066.815	380.51	10.42	10.69	.0300	1.00	2.46	.24

BA	4000	500.0	10000.00	8.695	.347	9.042	.27205E-03	3833.872	361.61	10.33	10.60	.0300	1.00	2.61	.26
BA	4500	500.0	10000.00	8.313	.971	9.284	.69368E-03	2292.767	192.28	11.07	11.92	.0300	1.00	4.36	.40
BA	5000	500.0	10000.00	8.508	1.161	9.669	.84697E-03	2096.720	179.92	10.90	11.65	.0300	1.00	4.77	.45
BA	5500	500.0	10000.00	9.546	.407	9.953	.28825E-03	3540.750	306.40	11.15	11.56	.0300	1.00	2.82	.27
BA	6000	500.0	10000.00	9.119	1.146	10.265	.96042E-03	2109.656	205.85	9.83	10.25	.0300	1.00	4.74	.47
BA	6500	500.0	10000.00	9.851	.783	10.634	.51761E-03	2552.221	206.76	11.74	12.34	.0300	1.00	3.92	.36
BA	7000	500.0	10000.00	10.105	.787	10.892	.51097E-03	2546.726	201.95	11.90	12.61	.0300	1.00	3.93	.35
BA	7500	500.0	10000.00	10.228	.951	11.178	.63517E-03	2316.742	186.91	11.65	12.39	.0300	1.00	4.32	.39
BA	8000	500.0	10000.00	10.274	1.289	11.563	.90330E-03	1989.344	162.06	11.24	12.28	.0300	1.00	5.03	.46
BA	8500	500.0	10000.00	11.372	.477	11.849	.24280E-03	3270.966	213.40	14.28	15.33	.0300	1.00	3.06	.25
BA	9000	500.0	10000.00	11.277	.748	12.025	.45853E-03	2611.655	195.32	12.42	13.37	.0300	1.00	3.83	.33
BA	9500	500.0	10000.00	11.564	.678	12.242	.41222E-03	2742.835	203.92	12.50	13.45	.0300	1.00	3.65	.32
BA	10000	500.0	10000.00	11.760	.691	12.450	.41982E-03	2717.968	202.21	12.50	13.44	.0300	1.00	3.68	.32
BA	10500	500.0	10000.00	12.079	.559	12.639	.33379E-03	3020.442	223.89	12.68	13.49	.0300	1.00	3.31	.29
BA	11000	500.0	10000.00	12.226	.582	12.808	.34372E-03	2960.198	216.89	12.78	13.65	.0300	1.00	3.38	.29
BA	11500	500.0	10000.00	12.194	.821	13.016	.48609E-03	2492.719	180.06	12.75	13.84	.0300	1.00	4.01	.34
BA	12000	500.0	10000.00	12.788	.407	13.195	.23229E-03	3539.394	257.29	13.11	13.76	.0300	1.00	2.83	.24
BA	12500	500.0	10000.00	12.609	.752	13.360	.42867E-03	2605.399	183.63	13.12	14.19	.0300	1.00	3.84	.33
BA	13000	500.0	10000.00	12.930	.628	13.558	.36252E-03	2849.720	203.91	13.00	13.98	.0300	1.00	3.51	.30
BA	13500	500.0	10000.00	13.154	.577	13.731	.32997E-03	2972.521	211.25	13.10	14.07	.0300	1.00	3.36	.29
BA	14000	500.0	10000.00	13.310	.586	13.896	.32769E-03	2951.026	206.41	13.31	14.30	.0300	1.00	3.39	.29
BA	14500	500.0	10000.00	13.580	.466	14.046	.27497E-03	3308.800	243.59	12.79	13.58	.0300	1.00	3.02	.26
BA	15000	500.0	10000.00	13.706	.478	14.184	.27420E-03	3267.689	235.07	13.05	13.90	.0300	1.00	3.06	.26
BA	15500	500.0	10000.00	13.649	.698	14.347	.37929E-03	2703.499	181.20	13.60	14.92	.0300	1.00	3.70	.31
BA	16000	500.0	10000.00	13.779	.773	14.552	.44044E-03	2568.767	179.50	13.13	14.31	.0300	1.00	3.89	.33
BA	16500	500.0	10000.00	14.127	.626	14.754	.36652E-03	2853.860	206.74	12.87	13.80	.0300	1.00	3.50	.30
BA	17000	500.0	10000.00	13.781	1.257	15.037	.76805E-03	2014.867	144.87	12.45	13.91	.0300	1.00	4.96	.43
BA	17500	500.0	10000.00	14.343	1.018	15.362	.52847E-03	2238.274	142.09	14.08	15.75	.0300	1.00	4.47	.36
BA	18000	500.0	10000.00	14.615	1.014	15.629	.54016E-03	2243.107	147.52	13.80	15.21	.0300	1.00	4.46	.37
BA	18500	500.0	10000.00	14.920	.968	15.888	.49745E-03	2295.730	141.44	14.18	16.23	.0300	1.00	4.36	.35
BA	19000	500.0	10000.00	15.116	1.024	16.141	.51273E-03	2231.979	129.08	14.46	17.29	.0300	1.00	4.48	.34
BA	19500	500.0	10000.00	15.488	.887	16.375	.42593E-03	2398.539	142.94	14.92	16.78	.0300	1.00	4.17	.33
BA	20000	500.0	10000.00	15.796	.793	16.590	.43178E-03	2536.042	169.35	13.58	14.98	.0300	1.00	3.94	.33
BA	20500	500.0	10000.00	16.261	.498	16.759	.24601E-03	3200.243	199.75	14.61	16.02	.0300	1.00	3.12	.25
BA	21000	500.0	10000.00	15.685	1.344	17.029	.83285E-03	1948.518	142.52	12.32	13.67	.0300	1.00	5.13	.44
BA	21500	500.0	10000.00	16.236	1.166	17.402	.65863E-03	2091.903	138.36	13.21	15.12	.0300	1.00	4.78	.39
BA	22000	500.0	10000.00	16.182	1.621	17.803	.94457E-03	1774.230	116.64	12.90	15.21	.0300	1.00	5.64	.46
BA	22500	500.0	10000.00	16.631	1.626	18.257	.87423E-03	1771.457	109.26	13.71	16.21	.0300	1.00	5.65	.45
BA	23000	500.0	10000.00	17.113	1.572	18.685	.83779E-03	1801.283	112.18	13.80	16.06	.0300	1.00	5.55	.44
BA	23500	500.0	10000.00	17.876	1.181	19.057	.64823E-03	2078.708	134.80	13.50	15.42	.0300	1.00	4.81	.39
BA	24000	500.0	10000.00	18.629	.681	19.310	.36441E-03	2737.998	181.97	13.75	15.05	.0300	1.00	3.65	.30
BA	24500	500.0	10000.00	18.189	1.398	19.586	.74137E-03	1910.552	115.93	13.85	16.48	.0300	1.00	5.23	.41
BA	25000	500.0	10000.00	18.123	1.920	20.043	.10853E-02	1629.933	102.46	13.21	15.91	.0300	1.00	6.14	.49
BA	25500	500.0	10000.00	19.282	1.189	20.471	.62767E-03	2071.534	129.65	13.90	15.98	.0300	1.00	4.83	.39
BA	26000	500.0	10000.00	19.518	1.288	20.806	.71151E-03	1990.295	130.29	13.43	15.28	.0300	1.00	5.02	.41
BA	26500	500.0	10000.00	20.568	.474	21.042	.23251E-03	3279.277	197.80	14.70	16.58	.0300	1.00	3.05	.24
BA	27000	500.0	10000.00	19.888	1.409	21.297	.78845E-03	1902.601	125.18	13.31	15.20	.0300	1.00	5.26	.43
BA	27500	500.0	10000.00	20.571	1.056	21.627	.53119E-03	2197.956	131.86	14.41	16.67	.0300	1.00	4.55	.36
BA	28000	500.0	10000.00	20.466	1.494	21.960	.79849E-03	1848.050	113.75	13.77	16.25	.0300	1.00	5.41	.43
BA	28500	500.0	10000.00	20.299	2.142	22.441	.11273E-02	1543.322	89.20	13.93	17.30	.0300	1.00	6.48	.50
BA	29000	500.0	10000.00	21.046	1.943	22.989	.10662E-02	1620.309	103.07	13.50	15.72	.0300	1.00	6.17	.50

BA	29500	500.0	10000.00	22.045	1.390	23.435	.71787E-03	1915.599	117.33	14.13	16.33	.0300	1.00	5.22	.41
BA	30000	500.0	10000.00	22.643	1.114	23.757	.56986E-03	2139.974	130.27	14.23	16.43	.0300	1.00	4.67	.37
BA	30500	500.0	10000.00	23.370	.602	23.972	.28691E-03	2911.576	175.79	15.00	16.56	.0300	1.00	3.43	.27
BA	31000	500.0	10000.00	22.864	1.377	24.241	.79113E-03	1925.124	132.75	13.04	14.50	.0300	1.00	5.19	.44
BA	31500	500.0	10000.00	23.278	1.340	24.618	.71637E-03	1951.024	123.63	13.77	15.78	.0300	1.00	5.13	.41
BA	32000	500.0	10000.00	24.293	.575	24.868	.28386E-03	2979.760	185.01	14.61	16.11	.0300	1.00	3.36	.27
BA	32500	500.0	10000.00	23.558	1.614	25.172	.93081E-03	1778.035	120.29	13.01	14.78	.0300	1.00	5.62	.47
BA	33000	500.0	10000.00	24.409	1.158	25.567	.65128E-03	2098.595	142.11	13.26	14.77	.0300	1.00	4.77	.40
BA	33500	500.0	8920.00	24.348	1.626	25.974	.97611E-03	1580.236	108.67	12.62	14.54	.0300	1.00	5.64	.47
BA	33715	215.0	8920.00	25.134	1.002	26.136	.53084E-03	2012.534	126.88	13.86	15.86	.0300	1.00	4.43	.36
BA	34000	285.0	8920.00	24.579	1.770	26.348	.95924E-03	1514.636	94.41	13.62	16.04	.0300	1.00	5.89	.47
BA	34500	500.0	8920.00	24.839	2.064	26.904	.12623E-02	1402.336	92.63	12.45	15.14	.0300	1.00	6.36	.52
BA	35000	500.0	8920.00	25.991	1.452	27.443	.89577E-03	1672.038	121.67	12.37	13.74	.0300	1.00	5.33	.46

* * * Legend * * *

NAME ····· Section Name

DELTX ···· Distance (M)

Q ····· Discharge (M3/S)

H ····· Stage (M)

V.H ····· Velocity Head (M) : V.H = ALPHA * V**2 / 19.6

TOTAL E ··· Total Energy Head (M) : TOTAL E = H + V.H.

IE ····· Energy Gradient : IE = (N*Q/(A*R**(2/3)))**2

A ····· Discharge Area (M2)

B ····· Width of Water Surface (M)

R ····· Hydraulic Radius (M)

A/B ····· Hydraulic Depth (M)

N ····· Roughness Coefficient

ALPHA ···· Rectification Coefficient

V ····· Velocity (M/S) : V = Q / A

FR ····· Froude Number : FR = V/SQRT(9.8*(A/B)/ALPHA)

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"Non-Uniform Flow, 20,000m3/s, Ba"

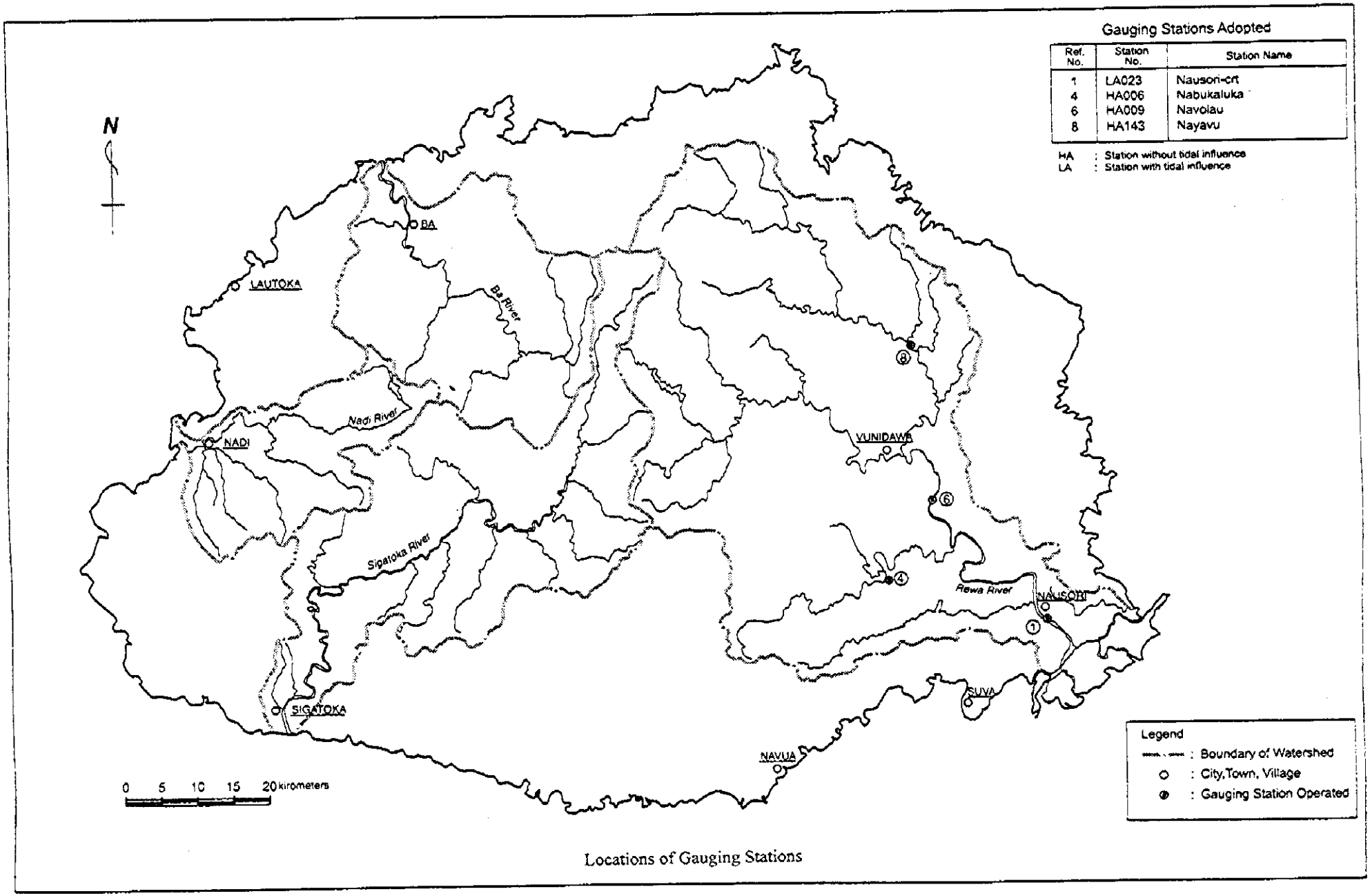
NAME		DELTX (M)	Q (M3/S)	H (M)	V.H (M)	TOTAL E (M)	IE	A (M2)	B (M)	R (M)	A/B (M)	N	ALPHA	V (M/S)	FR
BA	400	.0	20000.00	4.543	3.377	7.921	.47777E-02	2458.156	363.91	6.64	6.75	.0300	1.00	8.14	1.00
BA	1000	600.0	20000.00	6.727	3.586	10.313	.31957E-02	2385.484	245.02	9.39	9.74	.0300	1.00	8.38	.86
BA	1500	500.0	20000.00	7.060	5.058	12.118	.40233E-02	2008.769	184.41	10.22	10.89	.0300	1.00	9.96	.96
BA	2000	500.0	20000.00	11.394	1.996	13.390	.10669E-02	3197.518	218.97	13.77	14.60	.0300	1.00	6.25	.52
BA	2500	500.0	20000.00	10.640	3.501	14.141	.19381E-02	2414.336	166.84	13.41	14.47	.0300	1.00	8.28	.70
BA	3000	500.0	20000.00	14.056	.640	14.696	.28055E-03	5647.043	338.70	15.98	16.67	.0300	1.00	3.54	.28
BA	3500	500.0	20000.00	14.299	.525	14.824	.23168E-03	6232.935	380.51	15.90	16.38	.0300	1.00	3.21	.25

BA	4000	500.0	20000.00	14.358	.590	14.948	.26283E-03	5881.481	361.61	15.78	16.26	.0300	1.00	3.40	.27
BA	4500	500.0	20000.00	13.305	1.929	15.234	.88175E-03	3252.546	192.28	15.48	16.92	.0300	1.00	6.15	.48
BA	5000	500.0	20000.00	13.426	2.296	15.722	.10706E-02	2981.528	179.92	15.25	16.57	.0300	1.00	6.71	.53
BA	5500	500.0	20000.00	15.343	.722	16.065	.29959E-03	5316.885	306.40	16.65	17.35	.0300	1.00	3.76	.29
BA	6000	500.0	20000.00	14.381	2.002	16.383	.97223E-03	3192.819	205.85	14.80	15.51	.0300	1.00	6.26	.51
BA	6500	500.0	20000.00	15.267	1.513	16.781	.62163E-03	3672.082	206.76	16.78	17.76	.0300	1.00	5.45	.41
BA	7000	500.0	20000.00	15.559	1.533	17.093	.62494E-03	3648.213	201.95	16.87	18.06	.0300	1.00	5.48	.41
BA	7500	500.0	20000.00	15.590	1.853	17.443	.77644E-03	3319.113	186.91	16.52	17.76	.0300	1.00	6.03	.46
BA	8000	500.0	20000.00	15.354	2.580	17.934	.11863E-02	2812.669	162.06	15.41	17.36	.0300	1.00	7.11	.55
BA	8500	500.0	20000.00	17.323	.990	18.313	.32949E-03	4540.771	213.40	19.64	21.28	.0300	1.00	4.40	.31
BA	9000	500.0	20000.00	17.080	1.455	18.535	.55888E-03	3745.103	195.32	17.64	19.17	.0300	1.00	5.34	.39
BA	9500	500.0	20000.00	17.491	1.307	18.798	.49408E-03	3951.418	203.92	17.85	19.38	.0300	1.00	5.06	.37
BA	10000	500.0	20000.00	17.721	1.326	19.047	.50051E-03	3923.353	202.21	17.87	19.40	.0300	1.00	5.10	.37
BA	10500	500.0	20000.00	18.211	1.057	19.269	.38722E-03	4393.249	223.89	18.28	19.62	.0300	1.00	4.55	.33
BA	11000	500.0	20000.00	18.357	1.109	19.466	.40367E-03	4290.051	216.89	18.37	19.78	.0300	1.00	4.66	.33
BA	11500	500.0	20000.00	18.106	1.613	19.718	.60532E-03	3557.072	180.06	17.95	19.75	.0300	1.00	5.62	.40
BA	12000	500.0	20000.00	19.176	.760	19.936	.26277E-03	5182.940	257.29	19.08	20.14	.0300	1.00	3.86	.27
BA	12500	500.0	20000.00	18.656	1.478	20.134	.53299E-03	3715.932	183.63	18.50	20.24	.0300	1.00	5.38	.38
BA	13000	500.0	20000.00	19.175	1.200	20.375	.43017E-03	4123.099	203.91	18.59	20.22	.0300	1.00	4.85	.34
BA	13500	500.0	20000.00	19.481	1.099	20.580	.38940E-03	4309.133	211.25	18.74	20.40	.0300	1.00	4.64	.33
BA	14000	500.0	20000.00	19.651	1.125	20.776	.39232E-03	4259.886	206.41	18.96	20.64	.0300	1.00	4.69	.33
BA	14500	500.0	20000.00	20.099	.851	20.950	.30699E-03	4896.729	243.59	18.49	20.10	.0300	1.00	4.08	.29
BA	15000	500.0	20000.00	20.218	.886	21.105	.31061E-03	4798.604	235.07	18.90	20.41	.0300	1.00	4.17	.29
BA	15500	500.0	20000.00	19.919	1.384	21.303	.48273E-03	3839.583	181.20	18.97	21.19	.0300	1.00	5.21	.36
BA	16000	500.0	20000.00	20.065	1.493	21.558	.53820E-03	3697.210	179.50	18.50	20.60	.0300	1.00	5.41	.38
BA	16500	500.0	20000.00	20.639	1.157	21.796	.41138E-03	4200.064	206.74	18.69	20.32	.0300	1.00	4.76	.34
BA	17000	500.0	20000.00	19.664	2.482	22.147	.99237E-03	2867.224	144.87	17.12	19.79	.0300	1.00	6.98	.50
BA	17500	500.0	20000.00	20.463	2.113	22.576	.72436E-03	3107.833	142.09	19.21	21.87	.0300	1.00	6.44	.44
BA	18000	500.0	20000.00	20.900	2.031	22.930	.69383E-03	3170.300	147.52	19.26	21.49	.0300	1.00	6.31	.43
BA	18500	500.0	20000.00	21.282	1.998	23.281	.70775E-03	3195.615	141.44	18.75	22.59	.0300	1.00	6.26	.42
BA	19000	500.0	20000.00	21.459	2.193	23.652	.77544E-03	3050.631	129.08	18.77	23.63	.0300	1.00	6.56	.43
BA	19500	500.0	20000.00	22.175	1.814	23.988	.57220E-03	3354.265	142.94	20.45	23.47	.0300	1.00	5.96	.39
BA	20000	500.0	20000.00	22.783	1.475	24.258	.50701E-03	3719.213	169.35	19.18	21.96	.0300	1.00	5.38	.37
BA	20500	500.0	20000.00	23.514	.944	24.458	.29101E-03	4648.940	199.75	20.81	23.27	.0300	1.00	4.30	.28
BA	21000	500.0	20000.00	22.332	2.434	24.766	.94031E-03	2895.846	142.52	17.56	20.32	.0300	1.00	6.91	.49
BA	21500	500.0	20000.00	22.972	2.232	25.204	.81224E-03	3023.898	138.36	18.37	21.86	.0300	1.00	6.61	.45
BA	22000	500.0	20000.00	22.488	3.240	25.728	.12838E-02	2509.772	116.64	17.23	21.52	.0300	1.00	7.97	.55
BA	22500	500.0	20000.00	23.001	3.352	26.353	.12175E-02	2467.395	109.26	18.40	22.58	.0300	1.00	8.11	.54
BA	23000	500.0	20000.00	23.795	3.136	26.931	.10955E-02	2550.898	112.18	18.94	22.74	.0300	1.00	7.84	.53
BA	23500	500.0	20000.00	25.227	2.166	27.393	.75145E-03	3069.653	134.80	19.04	22.77	.0300	1.00	6.52	.44
BA	24000	500.0	20000.00	26.501	1.173	27.674	.37255E-03	4170.341	181.97	20.35	22.92	.0300	1.00	4.80	.32
BA	24500	500.0	20000.00	25.268	2.736	28.004	.94715E-03	2731.302	115.93	19.07	23.56	.0300	1.00	7.32	.48
BA	25000	500.0	20000.00	24.800	3.811	28.611	.14801E-02	2314.074	102.46	17.50	22.59	.0300	1.00	8.64	.58
BA	25500	500.0	20000.00	26.999	2.163	29.161	.72250E-03	3071.988	129.65	19.59	23.69	.0300	1.00	6.51	.43
BA	26000	500.0	20000.00	27.270	2.267	29.537	.77983E-03	3000.265	130.29	19.16	23.03	.0300	1.00	6.67	.44
BA	26500	500.0	20000.00	28.958	.837	29.794	.24948E-03	4938.815	197.80	21.33	24.97	.0300	1.00	4.05	.26
BA	27000	500.0	20000.00	27.594	2.483	30.076	.87729E-03	2867.191	125.18	18.78	22.90	.0300	1.00	6.98	.47
BA	27500	500.0	20000.00	28.514	1.938	30.452	.62564E-03	3245.315	131.86	20.10	24.61	.0300	1.00	6.16	.40
BA	28000	500.0	20000.00	28.084	2.769	30.853	.97984E-03	2714.587	113.75	18.76	23.86	.0300	1.00	7.37	.48
BA	28500	500.0	20000.00	27.066	4.427	31.494	.15826E-02	2146.958	89.20	18.62	24.07	.0300	1.00	9.32	.61
BA	29000	500.0	20000.00	28.732	3.487	32.219	.13198E-02	2419.236	104.00	17.84	23.26	.0300	1.00	8.27	.55

BA	29500	500.0	20000.00	30.302	2.453	32.755	.82326E-03	2884.404	117.33	19.52	24.58	.0300	1.00	6.93	.45
BA	30000	500.0	20000.00	31.181	1.929	33.111	.60006E-03	3252.250	130.27	20.67	24.97	.0300	1.00	6.15	.39
BA	30500	500.0	20000.00	32.318	1.015	33.333	.28731E-03	4484.612	175.79	22.18	25.51	.0300	1.00	4.46	.28
BA	31000	500.0	20000.00	31.427	2.171	33.598	.77364E-03	3066.080	133.26	18.66	23.01	.0300	1.00	6.52	.43
BA	31500	500.0	20000.00	31.699	2.279	33.979	.74952E-03	2992.219	123.63	19.82	24.20	.0300	1.00	6.68	.43
BA	32000	500.0	20000.00	33.287	.946	34.233	.26919E-03	4643.687	185.01	22.10	25.10	.0300	1.00	4.31	.27
BA	32500	500.0	20000.00	31.973	2.566	34.539	.95339E-03	2820.142	126.76	18.09	22.25	.0300	1.00	7.09	.48
BA	33000	500.0	20000.00	33.094	1.837	34.931	.61437E-03	3332.826	142.11	19.57	23.45	.0300	1.00	6.00	.40
BA	33500	500.0	17840.00	32.707	2.622	35.329	.97798E-03	2488.590	108.67	18.03	22.90	.0300	1.00	7.17	.48
BA	33715	215.0	17840.00	33.818	1.674	35.492	.53980E-03	3114.425	126.88	20.12	24.55	.0300	1.00	5.73	.37
BA	34000	285.0	17840.00	32.563	3.156	35.719	.10482E-02	2268.421	94.41	19.67	24.03	.0300	1.00	7.86	.51
BA	34500	500.0	17840.00	32.775	3.554	36.329	.13950E-02	2137.422	92.63	17.36	23.07	.0300	1.00	8.35	.56
BA	35000	500.0	17840.00	34.701	2.176	36.877	.79455E-03	2731.740	121.67	18.32	22.45	.0300	1.00	6.53	.44

DATA 4

RUNOFF ANALYSIS
BY STORAGE FUNCTION MODEL

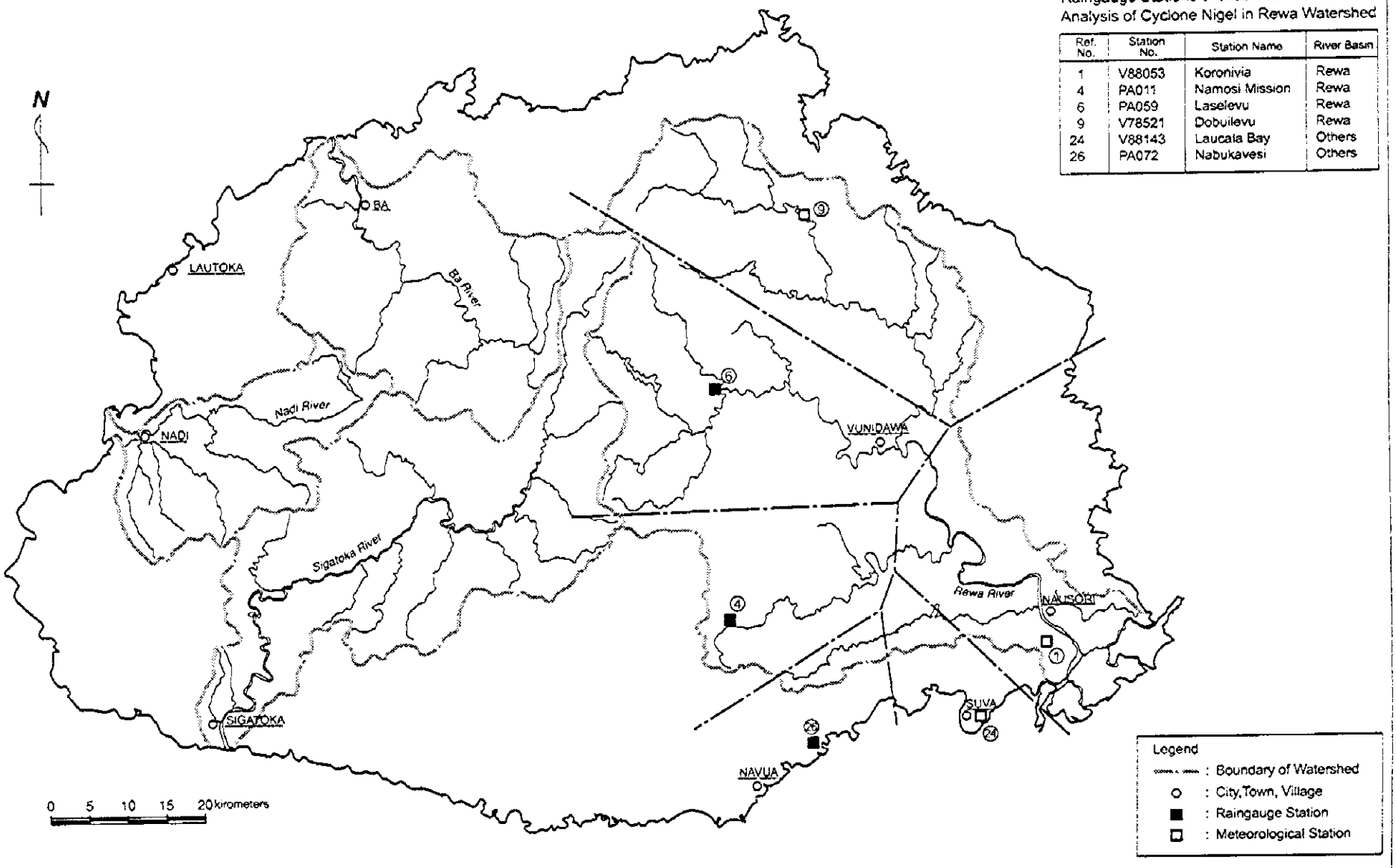


Locations of Gauging Stations

Data4-2

Raingauge Stations available for Runoff Analysis of Cyclone Nigel in Rewa Watershed

Ref. No.	Station No.	Station Name	River Basin
1	V88053	Koronivia	Rewa
4	PA011	Namosi Mission	Rewa
6	PA059	Laselevu	Rewa
9	V78521	Dobuilevu	Rewa
24	V88143	Laucala Bay	Others
26	PA072	Nabukavesi	Others



Locations of Raingauge Stations

Fiji flood analysis (1) < REWA River (Nigel) >
Rain

Original Data

	Date	Time	V78521	PA059	PA011	V88053	PA072	V88143
	17-Jan-85	17-Jan 0.00						
1	17-Jan-85	1:00	0.0	0.0	0.0	0.0	0.0	0.0
2	17-Jan-85	2:00	0.0	0.0	0.0	0.0	0.0	0.0
3	17-Jan-85	3:00	0.0	0.0	0.0	0.0	0.0	0.0
4	17-Jan-85	4:00	0.0	0.0	1.0	0.0	0.0	0.0
5	17-Jan-85	5:00	0.0	0.0	3.0	0.0	0.0	0.0
6	17-Jan-85	6:00	0.0	0.0	11.0	0.0	0.0	0.0
7	17-Jan-85	7:00	9.0	0.5	3.0	0.2	0.0	0.1
8	17-Jan-85	8:00	5.1	6.0	0.0	3.2	3.5	4.6
9	17-Jan-85	9:00	0.0	10.0	0.0	8.4	1.5	6.9
10	17-Jan-85	10:00	0.0	8.0	0.0	15.4	0.0	30.1
11	17-Jan-85	11:00	0.0	2.0	10.0	11.6	10.0	6.3
12	17-Jan-85	12:00	0.0	4.0	3.0	8.6	0.0	7.4
13	17-Jan-85	13:00	0.0	17.0	11.0	25.5	10.0	9.2
14	17-Jan-85	14:00	0.0	9.0	7.0	19.9	12.0	17.4
15	17-Jan-85	15:00	0.0	12.0	17.0	10.1	15.0	13.4
16	17-Jan-85	16:00	0.0	11.2	4.0	18.3	11.0	1.9
17	17-Jan-85	17:00	0.0	5.8	1.0	9.2	9.5	10.7
18	17-Jan-85	18:00	0.0	8.0	3.0	8.4	3.5	16.6
19	17-Jan-85	19:00	15.7	10.0	8.0	7.1	6.0	5.5
20	17-Jan-85	20:00	7.0	25.5	30.0	15.2	37.0	25.9
21	17-Jan-85	21:00	1.6	9.5	25.0	7.1	5.0	4.3
22	17-Jan-85	22:00	8.7	36.0	35.0	6.6	9.0	18.3
23	17-Jan-85	23:00	6.2	15.0	29.0	10.8	28.0	28.4
24	18-Jan-85	18-Jan 0.00	3.9	9.0	9.0	0.1	1.0	3.9
25	18-Jan-85	1:00	7.0	2.0	2.0	2.2	0.2	0.0
26	18-Jan-85	2:00	23.5	0.0	5.0	2.8	0.0	0.0
27	18-Jan-85	3:00	2.3	0.0	3.0	0.1	0.0	0.0
28	18-Jan-85	4:00	8.7	0.0	1.0	0.4	0.8	0.0
29	18-Jan-85	5:00	13.4	0.0	0.0	0.4	0.5	0.0
30	18-Jan-85	6:00	5.5	0.0	1.0	0.1	0.0	0.4
31	18-Jan-85	7:00	10.1	0.0	1.0	1.2	1.0	0.3
32	18-Jan-85	8:00	16.4	0.0	2.0	0.5	2.0	0.0
33	18-Jan-85	9:00	0.0	0.0	2.0	3.9	1.0	0.0
34	18-Jan-85	10:00	0.0	1.0	0.0	0.7	0.0	0.0
35	18-Jan-85	11:00	0.0	1.0	0.0	0.1	0.0	0.4
36	18-Jan-85	12:00	0.0	0.0	0.0	0.0	0.0	0.0
37	18-Jan-85	13:00	0.0	0.0	0.0	0.0	0.0	0.0
38	18-Jan-85	14:00	0.0	0.0	0.0	0.0	0.0	0.0
39	18-Jan-85	15:00	0.0	0.0	0.0	0.0	0.0	0.0
40	18-Jan-85	16:00	0.0	0.0	2.0	0.0	0.0	0.0
41	18-Jan-85	17:00	0.0	0.0	0.0	0.0	0.0	0.0
42	18-Jan-85	18:00	0.0	0.0	0.0	0.0	0.0	0.0
43	18-Jan-85	19:00	0.0	0.0	0.0	0.0	0.0	0.0
44	18-Jan-85	20:00	0.0	0.0	0.0	0.0	0.0	0.0
45	18-Jan-85	21:00	0.0	0.0	0.0	0.0	0.0	0.0
46	18-Jan-85	22:00	0.0	0.0	0.0	0.0	0.0	0.0
47	18-Jan-85	23:00	0.0	0.0	0.0	0.0	0.0	0.0
48	19-Jan-85	19-Jan 0.00	0.0	0.0	0.0	0.0	0.4	0.0
49	19-Jan-85	1:00	0.0	0.0	0.0	0.0	0.0	0.0
50	19-Jan-85	2:00	0.0	0.0	0.0	0.0	0.0	0.0
51	19-Jan-85	3:00	1.0	0.0	0.0	0.0	0.6	0.0
52	19-Jan-85	4:00	5.0	0.0	0.0	0.0	0.5	0.0
53	19-Jan-85	5:00	0.3	0.0	0.0	0.0	0.0	0.0
54	19-Jan-85	6:00	0.0	0.0	0.0	0.0	0.0	0.0
55	19-Jan-85	7:00	0.0	0.0	0.0	0.0	0.0	0.0
56	19-Jan-85	8:00	0.0	0.0	0.0	0.0	0.5	0.0
57	19-Jan-85	9:00	0.0	0.0	0.0	0.0	1.0	0.0
58	19-Jan-85	10:00	8.6	0.5	4.0	3.4	4.0	6.5
59	19-Jan-85	11:00	7.6	7.0	4.0	4.2	3.0	3.6
60	19-Jan-85	12:00	0.4	2.0	1.0	1.1	2.0	0.6
61	19-Jan-85	13:00	6.0	3.0	2.0	1.8	3.0	1.0
62	19-Jan-85	14:00	7.0	8.0	8.0	6.5	8.0	5.8
63	19-Jan-85	15:00	17.5	20.0	17.0	14.2	21.0	24.2
64	19-Jan-85	16:00	6.7	35.0	20.0	38.7	29.0	45.1
65	19-Jan-85	17:00	7.0	7.0	6.0	17.9	13.0	12.1
66	19-Jan-85	18:00	16.8	11.0	9.0	21.5	11.0	8.0
67	19-Jan-85	19:00	17.1	62.0	17.0	28.1	16.0	14.9
68	19-Jan-85	20:00	6.5	38.0	16.0	41.1	20.0	30.1
69	19-Jan-85	21:00	0.0	8.5	3.0	10.3	4.0	7.1
70	19-Jan-85	22:00	0.0	0.0	0.0	0.2	0.0	0.0
71	19-Jan-85	23:00	0.0	0.0	0.0	0.0	0.0	0.0
72	20-Jan-85	20-Jan 0.00	0.0	0.0	0.0	0.2	2.0	0.1
73	20-Jan-85	1:00	0.0	0.0	0.0	0.3	0.0	3.0
74	20-Jan-85	2:00	0.0	0.0	1.0	1.0	1.0	0.0
75	20-Jan-85	3:00	0.0	0.0	0.0	0.0	0.0	0.0
76	20-Jan-85	4:00	0.0	0.0	0.0	0.0	0.0	0.0

Fiji flood analysis (1) < REWA River (Nigel) >
Rain

Original Data

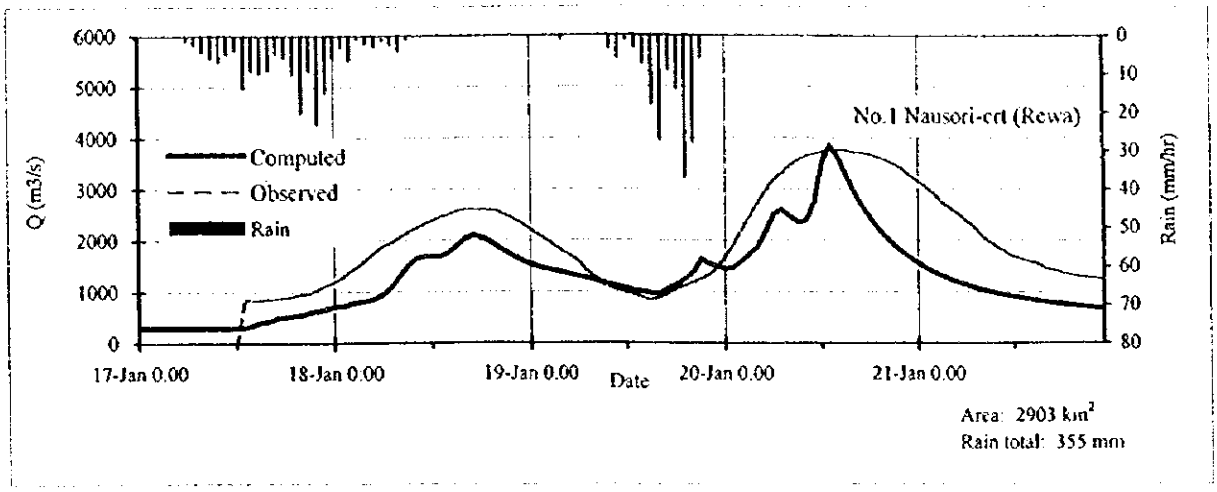
	Date	Time	V78521	PA059	PA011	V88053	PA072	V88143
77	20-Jan-85	5.00	0.0	0.0	0.0	0.0	0.0	0.0
78	20-Jan-85	6.00	0.0	0.0	0.0	0.0	0.0	0.0
79	20-Jan-85	7.00	0.0	0.0	0.0	0.0	0.0	0.0
80	20-Jan-85	8.00	0.0	0.0	0.0	0.0	0.0	0.0
81	20-Jan-85	9.00	0.0	0.0	0.0	0.0	0.0	0.0
82	20-Jan-85	10.00	0.0	0.0	0.0	0.0	0.0	0.0
83	20-Jan-85	11.00	0.0	0.0	0.0	0.0	0.0	0.0
84	20-Jan-85	12.00	0.0	0.0	0.0	0.0	0.0	0.0
85	20-Jan-85	13.00	0.0	0.0	0.0	0.0	0.0	0.0
86	20-Jan-85	14.00	0.0	0.0	0.0	0.0	0.0	0.0
87	20-Jan-85	15.00	0.0	0.0	0.0	0.0	0.0	0.0
88	20-Jan-85	16.00	0.0	0.0	0.0	0.0	0.0	0.0
89	20-Jan-85	17.00	0.0	0.0	0.0	0.0	0.0	0.0
90	20-Jan-85	18.00	0.0	0.0	0.0	0.0	0.0	0.0
91	20-Jan-85	19.00	0.0	0.0	0.0	0.0	0.0	0.0
92	20-Jan-85	20.00	0.0	0.0	0.0	0.0	0.0	0.0
93	20-Jan-85	21.00	0.0	0.4	0.0	0.0	0.0	0.0
94	20-Jan-85	22.00	0.0	0.0	0.0	0.0	0.0	0.0
95	20-Jan-85	23.00	0.0	0.0	0.0	0.0	0.0	0.0
96	21-Jan-85	21-Jan 0.00	0.0	0.0	0.0	0.0	0.0	0.0
97	21-Jan-85	1.00	0.0	0.0	0.0	0.0	0.0	0.0
98	21-Jan-85	2.00	0.0	0.0	0.0	0.0	0.0	0.0
99	21-Jan-85	3.00	0.0	0.0	0.0	0.0	0.0	0.0
100	21-Jan-85	4.00	0.0	0.0	0.0	0.0	0.0	0.0
101	21-Jan-85	5.00	0.0	0.0	0.0	0.0	0.0	0.0
102	21-Jan-85	6.00	0.0	0.0	0.0	0.0	0.0	0.0
103	21-Jan-85	7.00	0.0	0.0	0.0	0.0	0.0	0.0
104	21-Jan-85	8.00	0.0	0.0	0.0	0.0	0.0	0.0
105	21-Jan-85	9.00	0.0	0.0	0.0	0.0	0.0	0.0
106	21-Jan-85	10.00	0.0	0.0	0.0	0.0	0.0	0.0
107	21-Jan-85	11.00	0.0	0.0	1.0	0.0	0.0	0.0
108	21-Jan-85	12.00	0.0	0.0	0.0	0.0	0.0	0.0
109	21-Jan-85	13.00	0.0	0.0	0.0	0.0	0.0	0.0
110	21-Jan-85	14.00	0.0	0.0	0.0	0.0	0.0	0.0
111	21-Jan-85	15.00	0.0	0.0	0.0	0.0	0.0	0.0
112	21-Jan-85	16.00	0.0	0.0	0.0	0.0	0.0	0.0
113	21-Jan-85	17.00	0.0	0.0	0.0	0.0	0.0	0.0
114	21-Jan-85	18.00	0.0	0.0	0.0	0.0	0.0	0.0
115	21-Jan-85	19.00	0.0	0.0	0.0	0.0	0.0	0.0
116	21-Jan-85	20.00	0.0	0.0	0.0	0.0	0.0	0.0
117	21-Jan-85	21.00	0.0	0.0	0.0	0.0	0.0	0.0
118	21-Jan-85	22.00	0.0	0.0	0.0	0.0	0.0	0.0
119	21-Jan-85	23.00	0.0	0.0	0.0	0.0	0.0	0.0
		Total	251.6	404.9	338.0	388.6	307.5	374.1

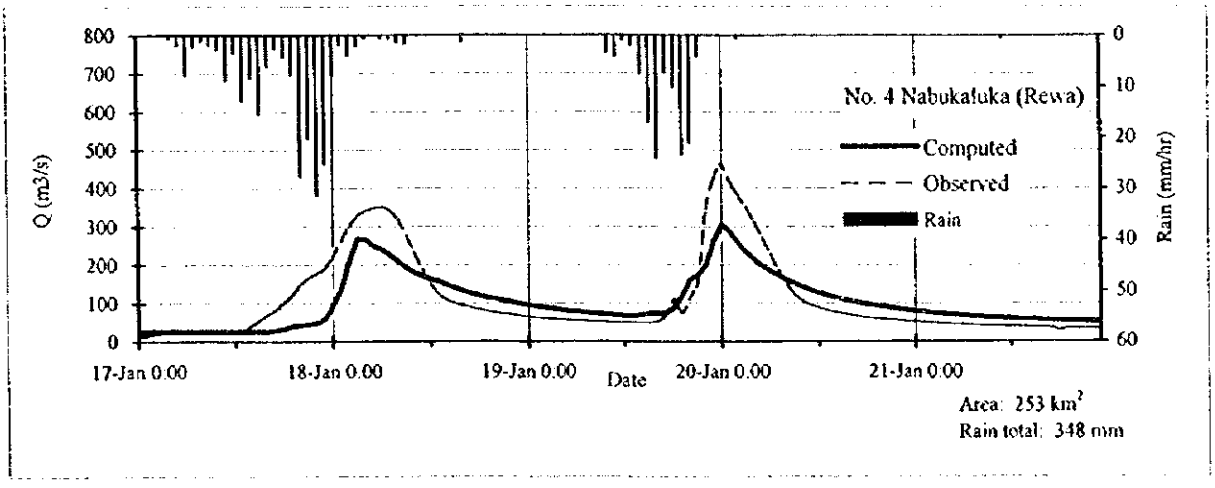
Fiji Flood Analysis < Rewa River (Nigel) >

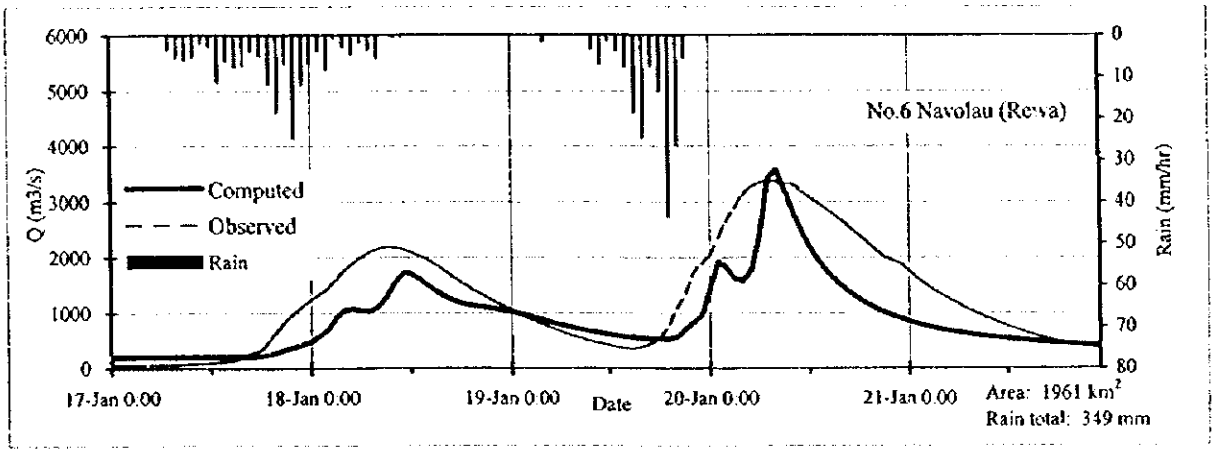
		Nausori-crt			Nabukalu-ka			Navolau			Nayavu		
		Area (km²)		2903	Area (km²)		253	Area (km²)		1961	Area (km²)		706
		Rain total (mm)		355	Rain total (mm)		348	Rain total (mm)		349	Rain total (mm)		298
		Q total (mm)			Q total (mm) (fm REWA-Dis xls file)			Q total (mm) (fm REWA-Dis xls file)			Q total (mm)		
		Runoff coeffing		0.0	Runoff coeffing		0.0	Runoff coeffing		0.0	Runoff coeffing		0.0
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed
17-Jan-85	17-Jan 0:00	290.5		0.0	25.3		12.1	196.1		61.6	70.4		10.8
17-Jan-85	1:00	290.5	0.0	0.0	25.3	0.0	14.7	196.1	0.0	61.6	70.4	0.0	11.2
17-Jan-85	2:00	290.5	0.0	0.0	25.3	0.0	19.1	196.1	0.0	60.6	70.4	0.0	12.1
17-Jan-85	3:00	290.5	0.0	0.0	25.3	0.0	22.4	196.1	0.0	60.6	70.5	0.0	12.1
17-Jan-85	4:00	290.5	0.1	0.0	25.3	0.7	22.8	196.1	0.0	60.6	70.5	0.0	12.1
17-Jan-85	5:00	290.5	0.4	0.0	25.3	2.2	22.8	196.1	0.1	60.6	70.5	0.0	12.1
17-Jan-85	6:00	290.5	1.5	0.0	25.3	8.0	22.8	196.1	0.2	60.6	70.5	0.0	12.5
17-Jan-85	7:00	290.5	2.6	0.0	25.3	2.3	22.8	196.1	3.6	62.6	70.5	6.5	12.5
17-Jan-85	8:00	290.5	4.3	0.0	25.3	1.3	22.4	196.1	5.5	66.7	70.5	5.4	12.9
17-Jan-85	9:00	290.5	5.8	0.0	25.3	2.2	21.9	196.1	6.2	71.8	70.5	3.0	13.3
17-Jan-85	10:00	290.8	6.9	0.0	25.4	3.0	21.0	196.1	5.4	78.2	71.4	2.4	13.8
17-Jan-85	11:00	293.9	4.8	0.0	25.4	8.9	21.4	196.1	2.0	82.5	73.7	0.6	15.1
17-Jan-85	12:00	300.2	3.8	0.0	25.4	3.6	23.8	196.1	2.8	88.1	75.3	1.2	16.9
17-Jan-85	13:00	308.0	13.8	805.6	25.5	12.9	30.0	196.2	11.4	102.9	77.4	5.1	19.9
17-Jan-85	14:00	351.5	9.1	822.8	25.7	8.6	40.1	196.9	6.3	123.3	91.1	2.7	25.2
17-Jan-85	15:00	405.8	9.8	840.2	26.3	15.5	56.7	199.2	7.8	151.4	108.1	3.6	43.5
17-Jan-85	16:00	431.9	9.0	857.8	27.1	6.2	71.5	202.1	7.5	202.5	131.9	3.4	87.7
17-Jan-85	17:00	499.2	4.6	881.8	29.6	2.7	83.9	207.1	3.9	281.3	160.4	1.7	171.5
17-Jan-85	18:00	517.4	5.7	893.9	33.0	4.4	103.9	222.4	5.1	333.7	173.8	2.4	248.4
17-Jan-85	19:00	534.9	10.2	918.5	39.6	7.9	124.0	249.3	11.9	517.5	187.6	14.0	338.0
17-Jan-85	20:00	549.9	20.1	949.8	43.0	27.8	150.0	288.7	18.7	701.3	209.3	12.6	555.6
17-Jan-85	21:00	613.9	9.3	981.9	44.8	20.3	167.5	340.2	7.0	867.2	300.3	4.0	694.1
17-Jan-85	22:00	627.8	23.1	1054.9	48.5	31.5	179.4	387.9	24.9	996.4	332.3	16.9	728.7
17-Jan-85	23:00	669.6	14.9	1131.4	60.0	25.4	192.7	431.0	12.0	1125.5	488.0	8.8	782.1
18-Jan-85	18-Jan 0:00	718.4	5.9	1189.3	94.9	7.9	224.5	483.5	6.8	1232.9	526.2	5.4	835.6
18-Jan-85	1:00	717.7	3.0	1279.7	137.2	2.0	263.8	590.5	3.8	1340.6	478.3	5.5	906.1
18-Jan-85	2:00	771.6	6.5	1407.1	211.4	4.0	300.6	702.8	8.4	1445.0	400.4	16.5	923.2
18-Jan-85	3:00	798.9	0.9	1508.0	268.2	2.2	329.3	905.3	0.9	1607.1	337.8	1.6	981.6
18-Jan-85	4:00	823.1	2.1	1640.7	266.8	0.7	341.1	1053.9	3.0	1769.3	317.5	6.1	1000.7
18-Jan-85	5:00	875.2	3.0	1781.0	249.9	0.0	348.6	1075.5	4.7	1898.3	311.0	9.4	1015.2
18-Jan-85	6:00	960.0	1.3	1898.7	239.6	0.7	350.1	1040.3	1.9	2004.4	303.9	3.9	1007.1
18-Jan-85	7:00	1100.4	2.5	1959.4	225.0	0.8	341.1	1031.9	3.6	2094.8	324.5	7.1	968.9
18-Jan-85	8:00	1308.4	4.0	2063.2	208.3	1.5	316.2	1103.5	5.7	2149.9	343.7	11.5	909.2
18-Jan-85	9:00	1510.2	1.1	2149.0	192.7	1.9	275.8	1288.4	0.2	2182.4	366.5	0.0	832.5
18-Jan-85	10:00	1644.4	0.5	2237.2	180.8	0.2	231.9	1542.4	0.6	2177.7	413.0	0.3	753.3
18-Jan-85	11:00	1686.5	0.4	2316.3	171.1	0.1	187.1	1707.5	0.6	2149.9	440.0	0.3	674.1
18-Jan-85	12:00	1686.3	0.0	2385.5	164.2	0.0	151.0	1710.7	0.0	2099.4	451.0	0.0	596.1
18-Jan-85	13:00	1693.7	0.0	2456.0	157.6	0.0	124.0	1616.2	0.0	2035.8	462.2	0.0	523.6
18-Jan-85	14:00	1757.7	0.0	2503.7	148.5	0.0	109.8	1500.6	0.0	1959.9	449.6	0.0	456.8
18-Jan-85	15:00	1891.5	0.0	2564.1	140.2	0.0	100.5	1393.2	0.0	1872.1	424.8	0.0	394.9
18-Jan-85	16:00	2030.9	0.3	2600.8	132.6	1.5	94.0	1303.0	0.0	1769.3	396.4	0.0	342.7
18-Jan-85	17:00	2095.0	0.0	2600.8	125.8	0.0	88.5	1231.1	0.0	1652.6	368.8	0.0	295.3
18-Jan-85	18:00	2067.6	0.0	2600.8	119.6	0.0	83.9	1175.6	0.0	1557.5	343.2	0.0	254.7
18-Jan-85	19:00	1983.7	0.0	2588.5	114.7	0.0	79.4	1137.2	0.0	1462.5	320.3	0.0	220.0
18-Jan-85	20:00	1880.2	0.0	2564.1	111.9	0.0	75.7	1114.4	0.0	1367.2	300.0	0.0	196.3
18-Jan-85	21:00	1777.5	0.0	2491.7	107.1	0.0	72.9	1096.2	0.0	1287.8	282.1	0.0	175.3
18-Jan-85	22:00	1684.8	0.0	2420.6	102.8	0.0	70.1	1075.4	0.0	1204.3	266.2	0.0	160.4
18-Jan-85	23:00	1604.9	0.0	2327.7	98.8	0.0	67.3	1051.0	0.0	1131.1	252.1	0.0	145.2
19-Jan-85	19-Jan 0:00	1539.9	0.0	2214.9	95.1	0.0	65.2	1021.8	0.0	1057.3	239.5	0.0	141.7
19-Jan-85	1:00	1489.9	0.0	2105.7	91.7	0.0	62.5	987.8	0.0	983.5	228.3	0.0	122.8
19-Jan-85	2:00	1449.1	0.0	2010.8	88.6	0.0	60.7	950.0	0.0	909.2	218.3	0.0	122.8
19-Jan-85	3:00	1412.7	0.2	1898.7	85.7	0.0	58.9	910.1	0.4	851.6	209.2	0.7	113.7
19-Jan-85	4:00	1377.5	1.1	1800.3	83.1	0.0	57.8	869.5	1.8	785.3	201.0	3.5	108.0
19-Jan-85	5:00	1341.6	0.1	1695.9	80.6	0.0	56.1	829.7	0.1	726.5	194.3	0.2	102.3
19-Jan-85	6:00	1304.1	0.0	1595.6	78.3	0.0	55.0	791.6	0.0	667.6	191.6	0.0	96.6
19-Jan-85	7:00	1264.3	0.0	1423.6	76.2	0.0	53.9	755.4	0.0	616.4	188.9	0.0	91.6
19-Jan-85	8:00	1222.7	0.0	1303.0	74.2	0.0	52.9	721.7	0.0	565.2	184.6	0.0	84.3
19-Jan-85	9:00	1180.0	0.0	1152.9	72.3	0.0	51.8	690.2	0.0	521.2	181.9	0.0	82.5
19-Jan-85	10:00	1137.3	3.6	1082.3	70.5	3.5	50.7	661.1	3.6	482.5	178.8	6.2	78.3
19-Jan-85	11:00	1099.4	6.1	1027.9	68.9	4.4	49.9	634.2	7.1	446.7	175.5	7.4	75.0
19-Jan-85	12:00	1064.2	1.2	981.9	67.3	1.1	49.3	609.2	1.4	415.8	183.5	0.9	71.7
19-Jan-85	13:00	1029.7	3.3	949.8	66.8	2.2	49.1	586.3	3.9	387.7	195.4	5.1	69.3
19-Jan-85	14:00	997.5	7.4	887.8	69.9	7.7	49.1	565.4	7.6	366.1	202.6	7.3	70.1
19-Jan-85	15:00	972.9	18.0	851.9	73.1	17.2	49.1	547.6	18.7	362.3	220.4	18.3	66.9
19-Jan-85	16:00	970.2	27.5	893.9	73.1	24.2	52.3	536.0	24.9	395.7	276.6	15.2	68.5
19-Jan-85	17:00	1086.3	9.2	975.4	75.7	7.4	68.0	527.2	7.6	452.9	437.1	7.0	76.7
19-Jan-85	18:00	1140.2	14.1	1068.5	88.4	10.3	109.8	520.6	13.6	560.8	509.5	15.1	100.8
19-Jan-85	19:00	1254.1	37.2	1117.2	119.8	23.6	75.7	523.8	43.7	797.9	545.6	30.6	184.7
19-Jan-85	20:00	1383.2	28.0	1189.3	161.8	21.3	116.8	567.1	26.7	1092.3	951.7	16.0	349.6
19-Jan-85	21:00	1632.0	6.1	1249.0	173.1	4.4	159.2	711.4	5.5	1361.3	1272.5	2.6	542.2
19-Jan-85	22:00	1548.9	0.0	1334.5	199.9	0.0	347.1	834.0	0.0	1718.8	1170.8	0.0	863.0
19-Jan-85	23:00	1493.1	0.0	1482.4	262.3	0.0	426.3	953.3	0.0	1889.5	989.0	0.0	1141.5
20-Jan-85	20-Jan 0:00	1450.6	0.0	1677.4	305.5	0.0	460.2	1433.2	0.0	2049.4	875.7	0.0	1284.2
20-Jan-85	1:00	1474.1	0.2	1918.8	287.1	0.1	417.4	1917.6	0.0	2357.6	788.3	0.0	1346.9
20-Jan-85	2:00	1592.4	0.3	2192.8	258.2	0.8	381.2	1821.5	0.1	2654.7	703.0	0.0	1382.1
20-Jan-85	3:00	1724.7	0.0	2467.8	234.3	0.0	348.3	1619.6	0.0	2904.2	625.9	0.0	1389.2
20-Jan-85	4:00	1864.8	0.0	2725.8	214.4	0.0	311.0	1578.3	0.0	3120.0	559.8	0.0	1332.8
20-Jan-85	5:00	2155.2	0.0	2974.7	198.0	0.0	270.2	1770.3	0.0	3263.8	504.3	0.0	1280.7
20-Jan-85	6:00	2510.5	0.0	3181.1	185.2	0.0	227.0	2428.5	0.0	3342.4	457.8	0.0	1195.3
20-Jan-85	7:00	2598.2	0.0	3323.5	172.1	0.0	183.8	3423.4	0.0	3370.7	418.6	0.0	1108.2
20-Jan-85	8:00	2475.4	0.0	3470.6	160.8	0.0	148.2	3572.5	0.0	3365.0	385.4	0.0	1016.8

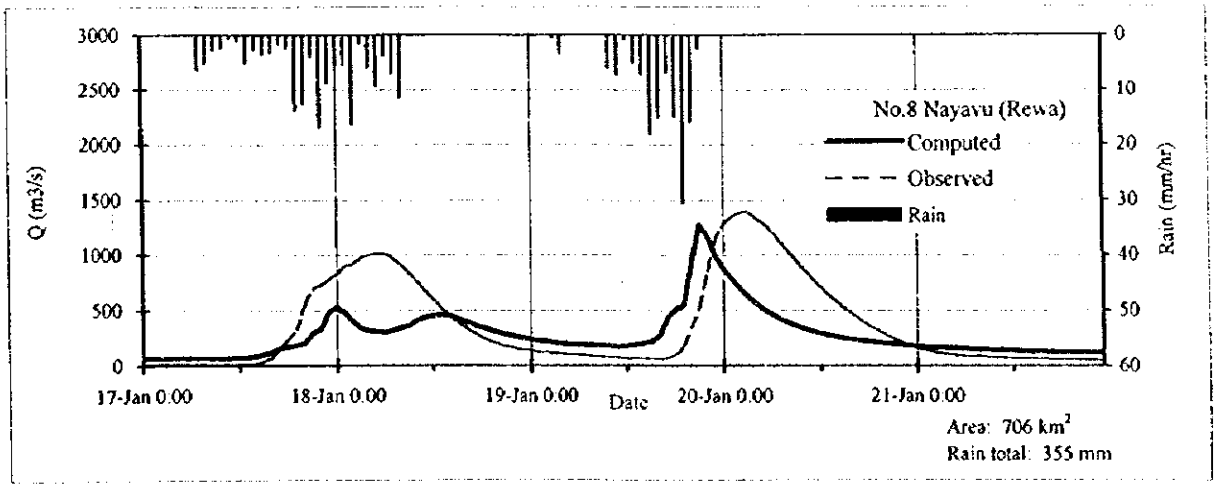
Fiji Flood Analysis < Rewa River (Nigel) >

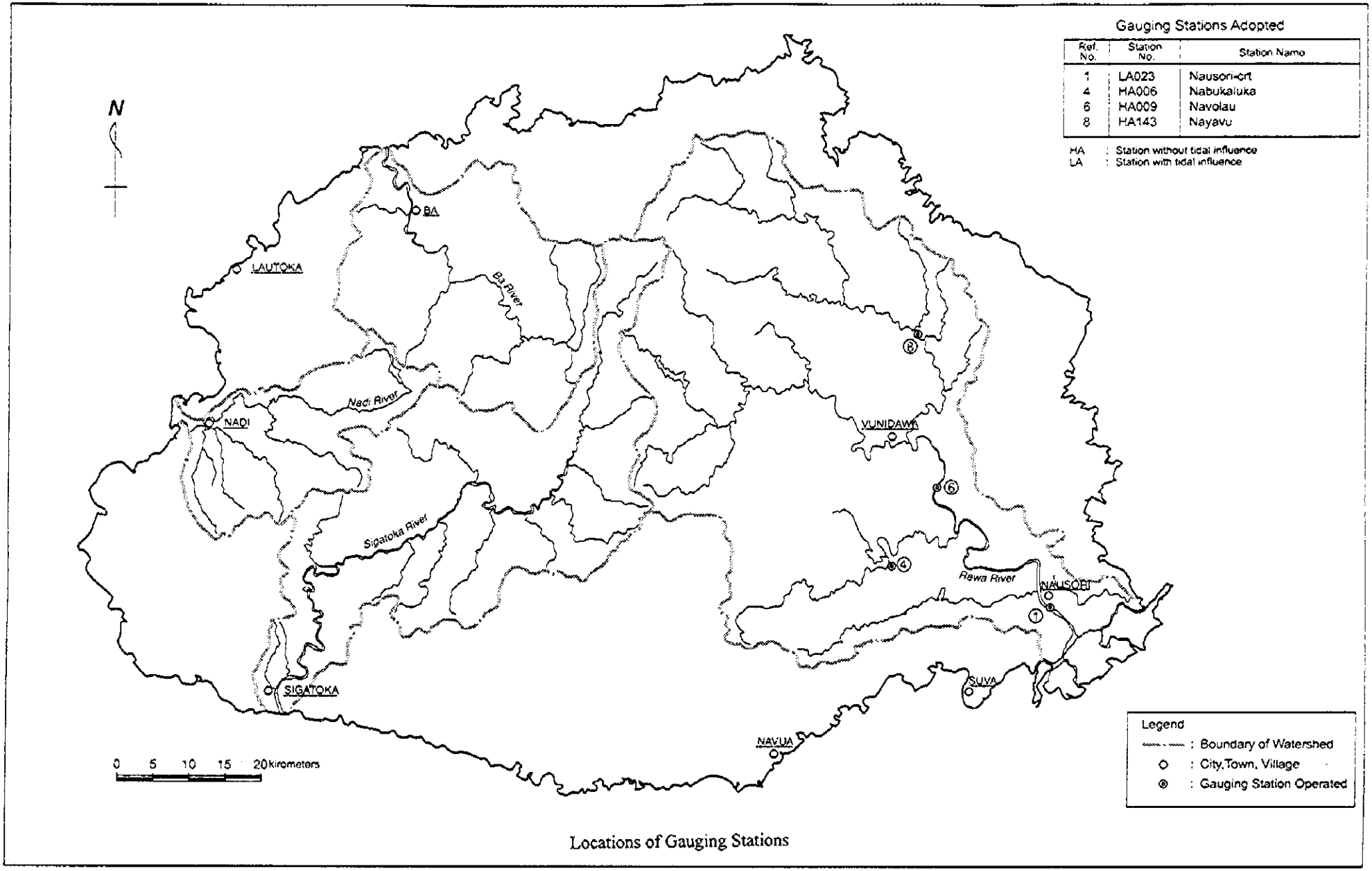
		Nausori-crt			Nabukaluka			Navolau			Nayavu		
		Area (km²)		2903	Area (km²)		253	Area (km²)		1961	Area (km²)		706
		Rain total (mm)		355	Rain total (mm)		348	Rain total (mm)		349	Rain total (mm)		298
		Q total (mm)			Q total (mm) (fm REWA-Dis s/s file)			Q total (mm) (fm REWA-Dis s/s file)			Q total (mm)		
		Runoff coeffing		0.0	Runoff coeffing		0.0	Runoff coeffing		0.0	Runoff coeffing		0.0
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed
20-Jan-85	9:00	2359.7	0.0	3576.1	150.8	0.0	122.1	3199.3	0.0	3319.8	357.1	0.0	935.3
20-Jan-85	10:00	2387.3	0.0	3652.7	142.0	0.0	104.4	2801.1	0.0	3314.2	332.7	0.0	853.8
20-Jan-85	11:00	2754.3	0.0	3699.1	134.2	0.0	94.6	2463.9	0.0	3180.5	311.6	0.0	778.6
20-Jan-85	12:00	3506.8	0.0	3730.3	127.2	0.0	88.4	2185.7	0.0	3082.4	293.1	0.0	708.4
20-Jan-85	13:00	3858.0	0.0	3761.7	120.9	0.0	82.2	1955.0	0.0	2984.3	276.8	0.0	637.5
20-Jan-85	14:00	3637.0	0.0	3761.7	115.3	0.0	77.1	1762.1	0.0	2872.4	262.5	0.0	577.0
20-Jan-85	15:00	3289.3	0.0	3761.7	110.2	0.0	72.8	1599.6	0.0	2767.8	249.7	0.0	515.8
20-Jan-85	16:00	2966.0	0.0	3730.3	105.5	0.0	69.4	1461.7	0.0	2644.6	238.3	0.0	462.7
20-Jan-85	17:00	2687.3	0.0	3714.7	101.3	0.0	66.0	1343.7	0.0	2529.0	228.0	0.0	409.6
20-Jan-85	18:00	2449.2	0.0	3683.6	97.4	0.0	63.5	1241.9	0.0	2399.8	218.7	0.0	361.3
20-Jan-85	19:00	2245.2	0.0	3637.3	93.8	0.0	60.9	1153.7	0.0	2266.8	210.4	0.0	320.7
20-Jan-85	20:00	2069.4	0.0	3576.1	90.6	0.0	58.3	1076.7	0.0	2131.5	202.7	0.0	280.1
20-Jan-85	21:00	1917.1	0.2	3500.5	87.5	0.1	56.5	1008.9	0.2	2008.9	195.8	0.1	244.3
20-Jan-85	22:00	1784.3	0.0	3411.2	84.7	0.0	54.7	949.2	0.0	1942.2	190.1	0.0	214.0
20-Jan-85	23:00	1667.8	0.0	3280.4	82.2	0.0	52.9	896.1	0.0	1880.8	184.5	0.0	186.6
21-Jan-85	21-Jan 0:00	1565.2	0.0	3167.1	79.8	0.0	51.7	848.6	0.0	1765.0	179.0	0.0	158.6
21-Jan-85	1:00	1474.2	0.0	3056.2	77.6	0.0	50.6	806.3	0.0	1632.1	174.0	0.0	143.4
21-Jan-85	2:00	1393.2	0.0	2921.2	75.5	0.0	48.9	768.6	0.0	1526.1	169.3	0.0	127.0
21-Jan-85	3:00	1320.7	0.0	2764.2	73.5	0.0	47.8	734.5	0.0	1414.9	165.0	0.0	113.7
21-Jan-85	4:00	1255.6	0.0	2650.2	71.7	0.0	46.7	703.3	0.0	1333.4	160.9	0.0	104.0
21-Jan-85	5:00	1196.8	0.0	2539.8	69.9	0.0	45.6	674.8	0.0	1251.8	157.2	0.0	95.7
21-Jan-85	6:00	1143.7	0.0	2397.1	68.3	0.0	44.5	648.8	0.0	1170.3	153.7	0.0	90.4
21-Jan-85	7:00	1095.5	0.0	2282.2	66.8	0.0	43.4	625.0	0.0	1089.5	150.4	0.0	86.0
21-Jan-85	8:00	1051.7	0.0	2105.7	65.4	0.0	42.9	603.2	0.0	1019.2	147.4	0.0	86.0
21-Jan-85	9:00	1011.6	0.0	1979.9	64.0	0.0	41.8	583.3	0.0	948.8	144.5	0.0	79.2
21-Jan-85	10:00	974.8	0.0	1878.8	62.7	0.0	41.3	565.0	0.0	883.6	141.8	0.0	75.8
21-Jan-85	11:00	940.8	0.1	1781.0	61.5	0.7	40.3	548.0	0.0	818.3	139.2	0.0	73.4
21-Jan-85	12:00	909.6	0.0	1686.6	60.4	0.0	39.3	532.3	0.0	760.3	136.9	0.0	70.9
21-Jan-85	13:00	880.6	0.0	1640.7	59.3	0.0	38.8	517.8	0.0	706.2	134.6	0.0	69.3
21-Jan-85	14:00	853.9	0.0	1595.6	58.4	0.0	37.8	504.1	0.0	656.2	132.5	0.0	66.9
21-Jan-85	15:00	829.1	0.0	1551.4	58.0	0.0	37.3	491.3	0.0	606.3	130.4	0.0	65.4
21-Jan-85	16:00	806.1	0.0	1465.4	57.1	0.0	36.3	479.4	0.0	565.9	128.6	0.0	64.6
21-Jan-85	17:00	784.7	0.0	1423.6	56.1	0.0	35.8	468.2	0.0	525.6	126.8	0.0	61.5
21-Jan-85	18:00	764.7	0.0	1382.6	55.3	0.0	31.1	457.6	0.0	488.9	125.1	0.0	59.6
21-Jan-85	19:00	746.1	0.0	1342.4	54.4	0.0	34.9	447.7	0.0	457.1	123.4	0.0	57.8
21-Jan-85	20:00	728.9	0.0	1303.0	53.6	0.0	33.9	438.3	0.0	432.2	121.9	0.0	55.9
21-Jan-85	21:00	712.6	0.0	1287.4	52.8	0.0	33.5	429.5	0.0	405.7	120.4	0.0	54.0
21-Jan-85	22:00	697.3	0.0	1264.3	52.1	0.0	33.0	421.2	0.0	385.7	119.0	0.0	51.2
21-Jan-85	23:00	682.8	0.0	1249.0	51.4	0.0	32.6	413.3	0.0	368.1	117.6	0.0	49.0
Max		3858.0	37.2	3761.7	305.5	31.5	460.2	3572.5	43.7	3370.7	1272.5	30.6	1389.2
Rain Total			355.2			347.9			349.4			298.1	


No.1 Nausori-crt (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
Date
17-Jan 0.00
18-Jan 0.00
19-Jan 0.00
20-Jan 0.00
21-Jan 0.00
Area: 2903 km²
Rain total: 355 mm


No. 4 Nabukaluka (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
Date
17-Jan 0.00
18-Jan 0.00
19-Jan 0.00
20-Jan 0.00
21-Jan 0.00
Area: 253 km²
Rain total: 348 mm


No.6 Navolau (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
Date
17-Jan 0.00
18-Jan 0.00
19-Jan 0.00
20-Jan 0.00
21-Jan 0.00
Area: 1961 km²
Rain total: 349 mm

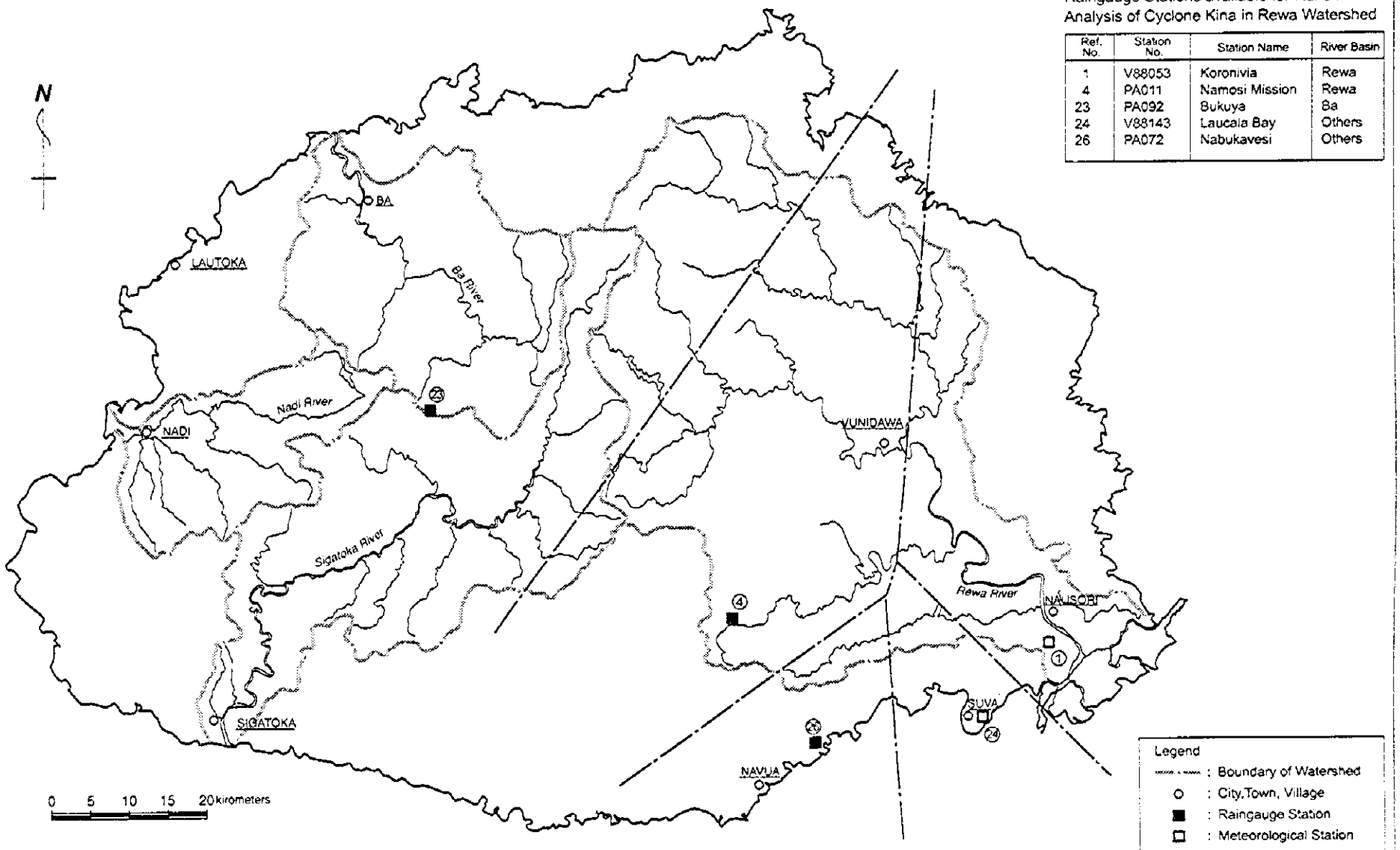

No.8 Nayavu (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
Date
17-Jan 0.00
18-Jan 0.00
19-Jan 0.00
20-Jan 0.00
21-Jan 0.00
Area: 706 km²
Rain total: 355 mm



Locations of Gauging Stations

Raingauge Stations available for Runoff Analysis of Cyclone Kina in Rewa Watershed

Ref. No.	Station No.	Station Name	River Basin
1	V88053	Koronivia	Rewa
4	PA011	Namosi Mission	Rewa
23	PA092	Bukuya	Ba
24	V88143	Laucala Bay	Others
26	PA072	Nabukavesi	Others



Locations of Raingauge Stations

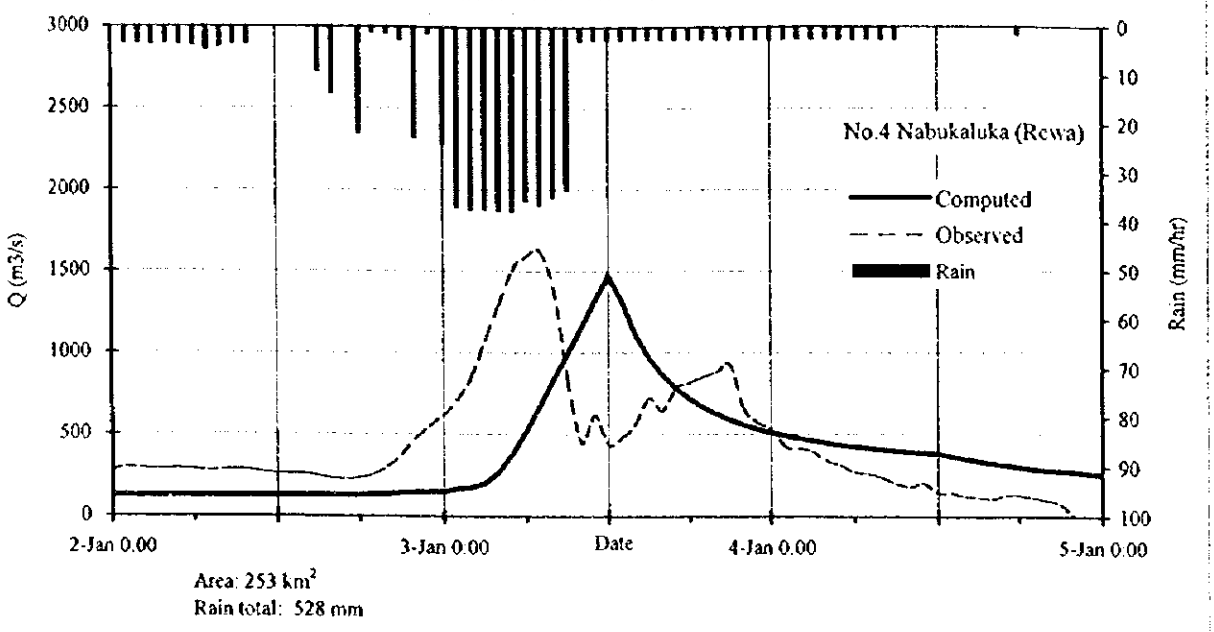
Fiji flood analysis (1) < REWA River (Kina) >
Rain

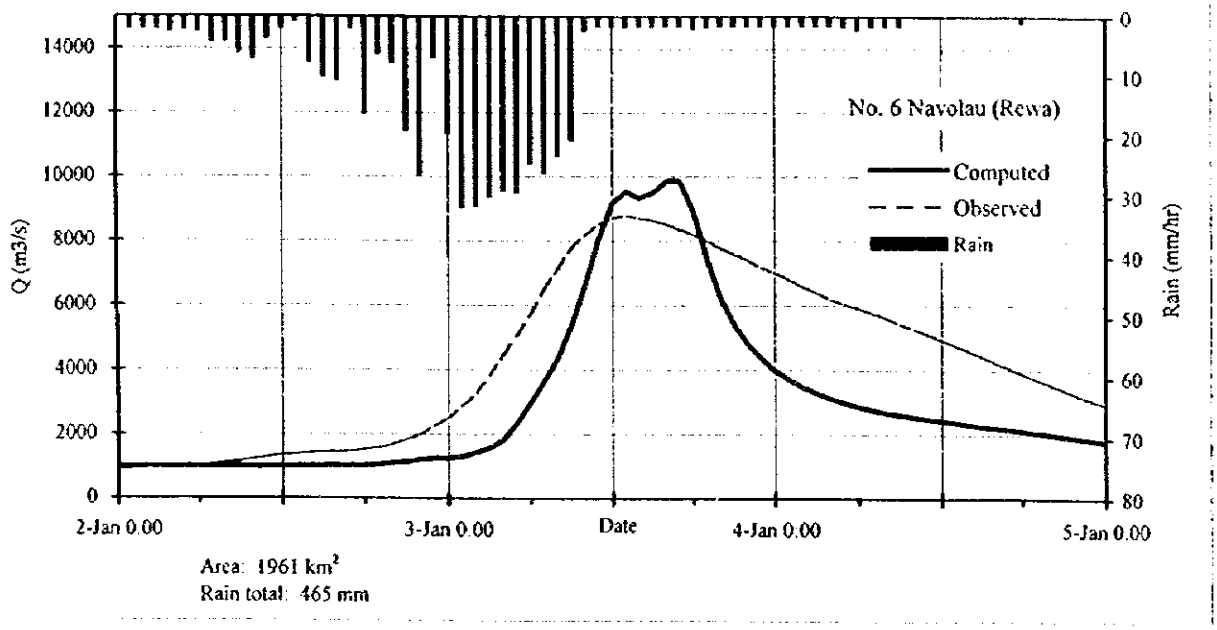
Original Data

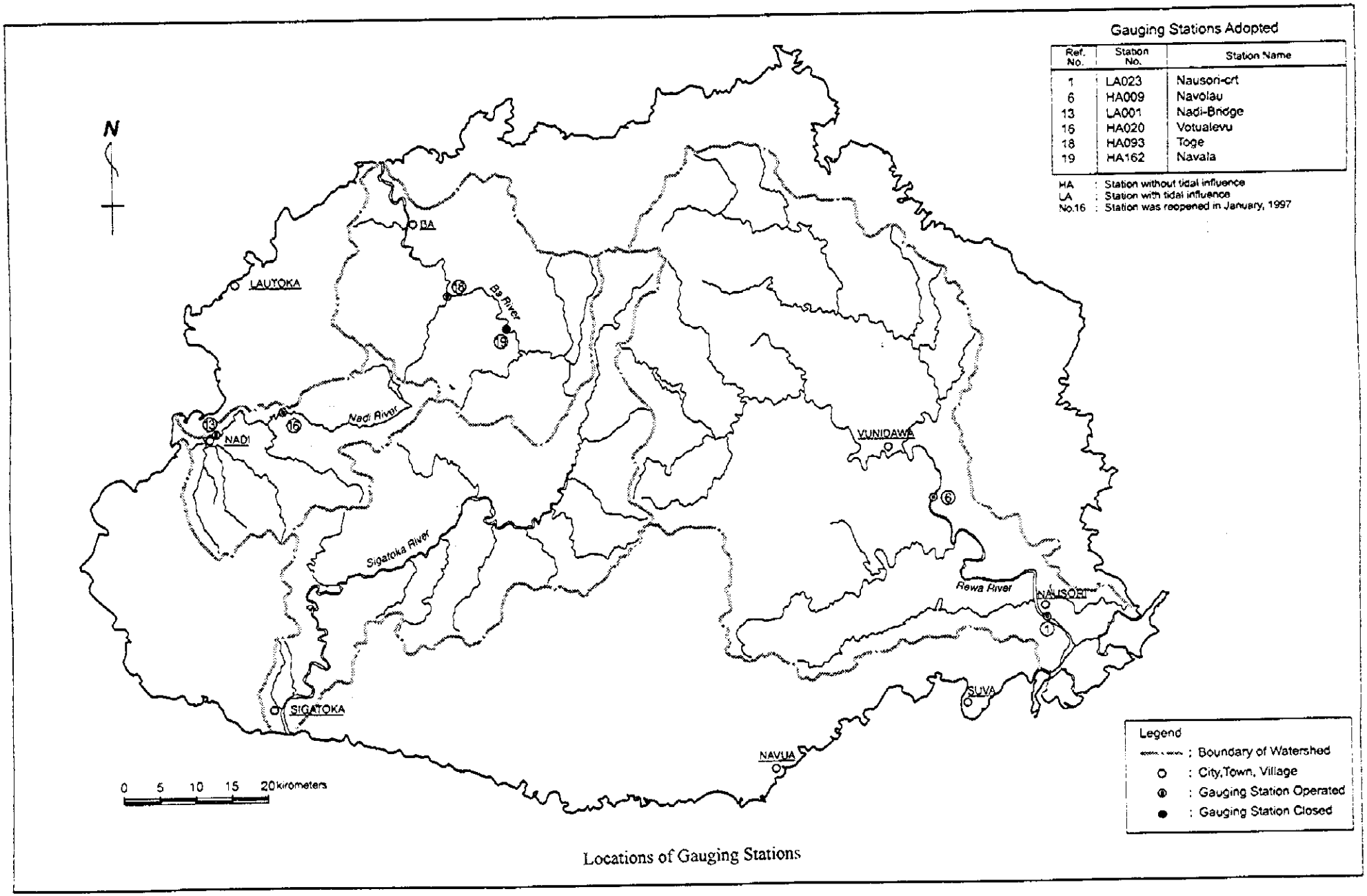
	Date	Time	PA092	PA011	V88053	PA072	V88143
	02-Jan-93	2-Jan 0.00					
1	02-Jan-93	1.00	0.0	4.0	0.2	0.7	0.0
2	02-Jan-93	2.00	0.0	4.0	0.2	0.0	0.1
3	02-Jan-93	3.00	0.0	4.0	0.8	1.0	0.3
4	02-Jan-93	4.00	1.6	4.0	0.2	0.0	0.0
5	02-Jan-93	5.00	0.0	4.0	1.1	0.0	0.9
6	02-Jan-93	6.00	0.0	4.0	2.5	10.0	0.0
7	02-Jan-93	7.00	0.4	4.0	11.4	4.5	9.6
8	02-Jan-93	8.00	4.4	4.0	4.6	1.5	9.7
9	02-Jan-93	9.00	14.0	4.0	0.0	2.0	0.3
10	02-Jan-93	10.00	17.6	4.0	0.0	5.0	0.0
11	02-Jan-93	11.00	12.8	0.0	0.0	1.3	0.0
12	02-Jan-93	12.00	7.0	0.0	0.0	0.0	0.0
13	02-Jan-93	13.00	3.2	0.0	0.0	0.0	0.0
14	02-Jan-93	14.00	25.0	0.0	2.1	0.0	0.1
15	02-Jan-93	15.00	13.0	10.0	5.4	0.7	1.7
16	02-Jan-93	16.00	5.8	15.0	5.4	1.0	4.2
17	02-Jan-93	17.00	6.2	0.0	1.1	7.0	0.9
18	02-Jan-93	18.00	10.0	25.0	0.5	6.0	0.6
19	02-Jan-93	19.00	17.0	0.0	8.5	8.0	7.1
20	02-Jan-93	20.00	20.0	0.0	10.7	12.0	10.7
21	02-Jan-93	21.00	53.0	0.0	20.6	18.0	19.3
22	02-Jan-93	22.00	43.0	25.0	4.5	18.0	4.6
23	02-Jan-93	23.00	17.0	0.0	11.1	10.0	7.1
24	03-Jan-93	3-Jan 0.00	10.0	25.0	18.1	17.0	9.1
25	03-Jan-93	1.00	17.0	38.0	37.9	5.0	20.3
26	03-Jan-93	2.00	17.0	38.0	36.7	16.5	35.5
27	03-Jan-93	3.00	12.0	38.0	36.3	16.5	30.4
28	03-Jan-93	4.00	6.0	38.0	40.8	16.5	30.4
29	03-Jan-93	5.00	3.6	38.0	46.2	16.5	10.1
30	03-Jan-93	6.00	1.6	38.0	21.4	16.5	13.2
31	03-Jan-93	7.00	2.0	38.0	30.7	16.5	13.0
32	03-Jan-93	8.00	0.6	38.0	16.4	16.5	1.6
33	03-Jan-93	9.00	1.0	38.0	1.6	16.5	1.5
34	03-Jan-93	10.00	1.0	3.0	2.4	0.4	2.3
35	03-Jan-93	11.00	0.0	3.0	0.6	0.4	1.9
36	03-Jan-93	12.00	0.0	3.0	0.6	0.4	2.2
37	03-Jan-93	13.00	0.2	3.0	0.6	0.4	0.0
38	03-Jan-93	14.00	0.2	3.0	0.2	0.4	0.0
39	03-Jan-93	15.00	0.4	3.0	0.0	0.4	0.3
40	03-Jan-93	16.00	0.2	3.0	0.0	0.4	0.0
41	03-Jan-93	17.00	0.2	3.0	0.1	0.4	0.0
42	03-Jan-93	18.00	1.2	3.0	0.5	0.4	0.0
43	03-Jan-93	19.00	0.6	3.0	0.2	0.4	0.1
44	03-Jan-93	20.00	0.0	3.0	0.1	0.4	1.3
45	03-Jan-93	21.00	0.0	3.0	0.4	0.4	0.6
46	03-Jan-93	22.00	0.4	3.0	0.0	0.4	0.0
47	03-Jan-93	23.00	0.4	3.0	0.1	0.4	0.0
48	04-Jan-93	4-Jan 0.00	0.0	3.0	0.0	0.4	0.0
49	04-Jan-93	1.00	0.0	3.0	0.2	0.4	0.0
50	04-Jan-93	2.00	0.2	3.0	0.0	0.4	0.3
51	04-Jan-93	3.00	0.0	3.0	0.0	0.4	0.0
52	04-Jan-93	4.00	0.0	3.0	0.0	0.4	0.0
53	04-Jan-93	5.00	0.2	3.0	0.0	0.4	0.0
54	04-Jan-93	6.00	2.2	3.0	0.0	0.4	0.0
55	04-Jan-93	7.00	0.4	3.0	0.0	0.4	0.0
56	04-Jan-93	8.00	0.0	3.0	0.0	0.4	0.0
57	04-Jan-93	9.00	0.0	3.0	0.0	0.4	0.0
58	04-Jan-93	10.00	0.0	0.0	0.0	0.1	0.0
59	04-Jan-93	11.00	0.0	0.0	0.0	0.1	0.0
60	04-Jan-93	12.00	0.0	0.0	0.0	0.1	0.0
61	04-Jan-93	13.00	0.0	0.0	0.0	0.1	0.0
62	04-Jan-93	14.00	0.0	0.0	0.0	0.1	0.2
63	04-Jan-93	15.00	0.0	0.0	0.0	0.1	0.0
64	04-Jan-93	16.00	0.0	0.0	0.0	0.1	0.0
65	04-Jan-93	17.00	0.0	0.0	0.0	0.1	0.0
66	04-Jan-93	18.00	0.0	2.0	0.0	0.1	0.0
67	04-Jan-93	19.00	0.0	0.0	0.0	0.1	0.0
68	04-Jan-93	20.00	0.0	0.0	0.0	0.1	0.0
69	04-Jan-93	21.00	0.0	0.0	0.0	0.1	0.0
70	04-Jan-93	22.00	0.0	0.0	0.0	0.1	0.0
71	04-Jan-93	23.00	0.0	0.0	0.0	0.1	0.0
72	05-Jan-93	5-Jan 0.00	0.0	0.0	0.0	0.1	0.0
		Total	349.6	556.0	383.0	271.8	251.5

Fiji Flood Analysis < Rewa River (Kina) >

		Nabukaluka			Navolau		
		Area (km²)		253	Area (km²)		1961
		Rain total (mm)		528	Rain total (mm)		465
		Q total (mm)			Q total (mm) (fm REWA-Dis xls file)		
		Runoff coeffing		0.0	Runoff coeffing		0.0
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed
02-Jan-85	2-Jan 0:00	126.4		278.7	980.4		897.3
02-Jan-85	1:00	126.4	3.5	298.3	980.4	2.1	926.4
02-Jan-85	2:00	126.4	3.5	293.6	980.4	2.1	944.1
02-Jan-85	3:00	126.4	3.6	287.7	980.4	2.2	960.3
02-Jan-85	4:00	126.4	3.5	288.8	980.3	2.6	969.3
02-Jan-85	5:00	126.4	3.6	289.6	980.3	2.3	979.8
02-Jan-85	6:00	126.4	3.9	285.3	980.5	2.6	1007.7
02-Jan-85	7:00	126.5	4.8	277.8	981.0	4.3	1050.0
02-Jan-85	8:00	126.6	4.1	284.1	982.1	4.2	1101.9
02-Jan-85	9:00	126.7	3.5	287.6	984.0	6.2	1159.6
02-Jan-85	10:00	127.0	3.6	283.3	987.0	7.2	1222.0
02-Jan-85	11:00	127.4	0.0	273.4	991.4	3.7	1287.0
02-Jan-85	12:00	127.9	0.0	264.8	997.5	2.0	1340.6
02-Jan-85	13:00	128.4	0.0	260.9	1005.1	0.9	1383.9
02-Jan-85	14:00	128.6	0.2	256.7	1013.9	7.7	1419.4
02-Jan-85	15:00	128.5	9.2	247.5	1019.6	10.1	1446.2
02-Jan-85	16:00	128.5	13.7	235.2	1023.1	10.7	1457.4
02-Jan-85	17:00	128.5	0.2	229.7	1026.5	2.0	1481.7
02-Jan-85	18:00	129.9	21.9	236.0	1032.6	16.3	1523.2
02-Jan-85	19:00	133.8	1.1	256.7	1053.8	6.4	1585.1
02-Jan-85	20:00	135.4	1.4	303.8	1097.4	7.7	1689.3
02-Jan-85	21:00	144.5	2.7	380.3	1133.4	19.1	1847.5
02-Jan-85	22:00	149.3	22.7	475.1	1213.4	26.6	2000.0
02-Jan-85	23:00	149.8	1.3	552.3	1255.2	6.9	2260.2
03-Jan-85	3-Jan 0:00	151.2	23.9	620.4	1266.0	19.5	2522.0
03-Jan-85	1:00	168.5	37.0	711.1	1302.2	31.8	2873.0
03-Jan-85	2:00	176.3	37.4	852.1	1437.9	31.6	3308.6
03-Jan-85	3:00	202.3	37.3	1079.9	1572.0	30.1	3846.0
03-Jan-85	4:00	274.3	37.7	1298.7	1831.9	29.1	4480.7
03-Jan-85	5:00	386.1	37.8	1511.5	2350.3	29.4	5086.1
03-Jan-85	6:00	523.4	35.6	1589.9	2996.6	24.5	5739.0
03-Jan-85	7:00	675.7	36.5	1622.5	3650.0	26.2	6521.4
03-Jan-85	8:00	836.6	34.9	1397.8	4359.2	23.3	7150.8
03-Jan-85	9:00	990.6	33.5	845.4	5392.2	20.7	7791.4
03-Jan-85	10:00	1154.3	2.8	450.0	6679.2	2.3	8184.7
03-Jan-85	11:00	1318.3	2.7	616.9	8078.7	1.7	8511.6
03-Jan-85	12:00	1473.0	2.7	437.6	9186.5	1.7	8692.1
03-Jan-85	13:00	1318.5	2.7	479.1	9523.0	1.8	8777.8
03-Jan-85	14:00	1114.5	2.6	564.3	9340.2	1.7	8704.3
03-Jan-85	15:00	970.5	2.6	718.2	9197.4	1.7	8638.1
03-Jan-85	16:00	864.0	2.6	644.2	9868.6	1.7	8523.7
03-Jan-85	17:00	782.2	2.6	784.3	9862.6	1.7	8361.1
03-Jan-85	18:00	717.6	2.6	817.0	8887.5	2.0	8202.5
03-Jan-85	19:00	665.6	2.6	851.4	7415.0	1.8	8004.1
03-Jan-85	20:00	623.0	2.6	880.2	6226.1	1.6	7779.8
03-Jan-85	21:00	587.7	2.6	927.0	5395.2	1.7	7600.2
03-Jan-85	22:00	557.9	2.6	655.1	4802.7	1.7	7417.6
03-Jan-85	23:00	532.5	2.6	573.5	4348.9	1.7	7181.1
04-Jan-85	4-Jan 0:00	510.7	2.6	533.3	3991.0	1.6	7029.4
04-Jan-85	1:00	491.6	2.6	427.3	3703.8	1.6	6810.3
04-Jan-85	2:00	474.9	2.6	412.0	3469.3	1.7	6596.7
04-Jan-85	3:00	460.1	2.6	397.1	3277.5	1.6	6409.2
04-Jan-85	4:00	447.1	2.6	339.7	3119.3	1.6	6200.0
04-Jan-85	5:00	435.6	2.6	311.3	2986.0	1.7	6056.4
04-Jan-85	6:00	425.2	2.6	270.8	2871.2	2.2	5905.5
04-Jan-85	7:00	415.9	2.6	261.9	2772.3	1.7	5767.9
04-Jan-85	8:00	407.5	2.6	239.0	2686.7	1.6	5616.8
04-Jan-85	9:00	400.0	2.6	199.8	2611.6	1.6	5428.0
04-Jan-85	10:00	393.1	0.0	180.0	2545.4	0.0	5283.9
04-Jan-85	11:00	386.9	0.0	200.4	2486.6	0.0	5106.6
04-Jan-85	12:00	381.2	0.0	143.2	2434.5	0.0	4930.1
04-Jan-85	13:00	366.8	0.0	142.2	2384.7	0.0	4771.0
04-Jan-85	14:00	350.3	0.0	123.4	2321.9	0.0	4596.1
04-Jan-85	15:00	335.7	0.0	115.7	2261.8	0.0	4420.9
04-Jan-85	16:00	322.6	0.0	106.4	2211.0	0.0	4238.7
04-Jan-85	17:00	310.8	0.0	127.1	2167.0	0.0	4060.7
04-Jan-85	18:00	300.1	1.7	130.5	2123.4	1.1	3892.5
04-Jan-85	19:00	290.5	0.0	115.7	2074.2	0.0	3725.2
04-Jan-85	20:00	281.7	0.0	100.3	2016.8	0.0	3565.3
04-Jan-85	21:00	278.1	0.0	78.5	1955.3	0.0	3396.8
04-Jan-85	22:00	272.1	0.0	0.0	1898.7	0.0	3228.7
04-Jan-85	23:00	264.9	0.0	0.0	1841.2	0.0	3078.4
05-Jan-85	5-Jan 0:00	258.2	0.0	0.0	1784.9	0.0	2920.6
Max		1473.0	37.8	1622.5	9868.6	31.8	8777.8
Rain Total			528.2			464.9	


No.4 Nabukaluka (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
3000
2500
2000
1500
1000
500
0
0
10
20
30
40
50
60
70
80
90
100
2-Jan 0.00
3-Jan 0.00
Date
4-Jan 0.00
5-Jan 0.00
Area: 253 km2
Rain total: 528 mm

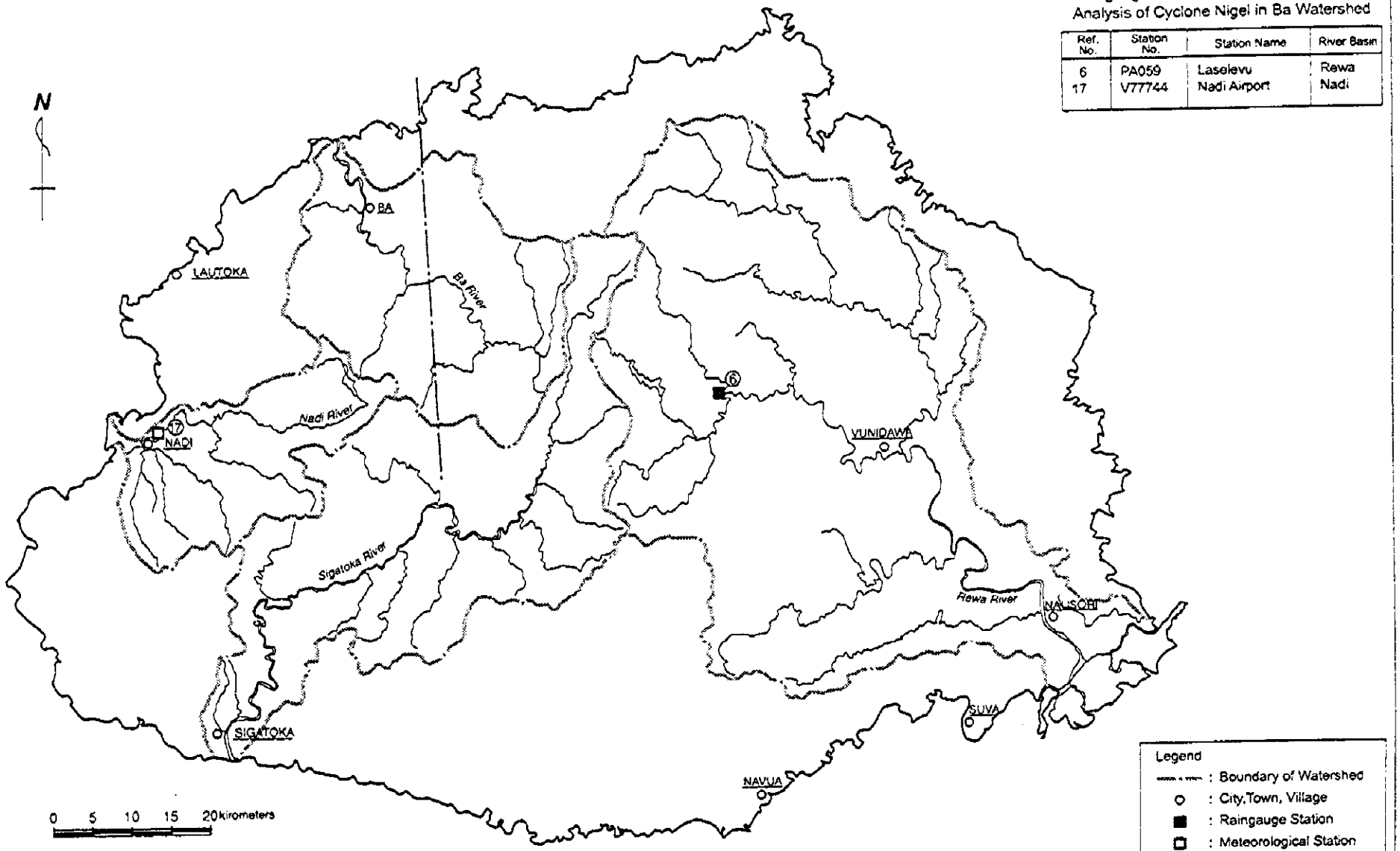

No. 6 Navolau (Rewa)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
14000
12000
10000
8000
6000
4000
2000
0
0
10
20
30
40
50
60
70
80
2-Jan 0.00
3-Jan 0.00
Date
4-Jan 0.00
5-Jan 0.00
Area: 1961 km2
Rain total: 465 mm



Locations of Gauging Stations

Raingauge Stations available for Runoff Analysis of Cyclone Nigel in Ba Watershed

Ref. No.	Station No.	Station Name	River Basin
6	PA059	Laselevu	Rewa
17	V77744	Nadi Airport	Nadi



Locations of Raingauge Stations

Fiji flood analysis (1) < BA River (Nigel) >
Rain

Original Data

	Date	Time	PA059	V77744
	16-Jan-85	16-Jan 0:00		
1	16-Jan-85	1:00	0.0	0.0
2	16-Jan-85	2:00	0.0	0.0
3	16-Jan-85	3:00	0.0	0.0
4	16-Jan-85	4:00	0.0	0.0
5	16-Jan-85	5:00	0.0	0.0
6	16-Jan-85	6:00	0.0	0.0
7	16-Jan-85	7:00	0.0	0.0
8	16-Jan-85	8:00	0.0	0.0
9	16-Jan-85	9:00	0.0	0.0
10	16-Jan-85	10:00	0.0	0.0
11	16-Jan-85	11:00	0.0	0.0
12	16-Jan-85	12:00	0.0	0.0
13	16-Jan-85	13:00	0.0	0.0
14	16-Jan-85	14:00	0.0	4.9
15	16-Jan-85	15:00	0.0	18.2
16	16-Jan-85	16:00	0.0	2.3
17	16-Jan-85	17:00	4.0	4.6
18	16-Jan-85	18:00	6.0	2.5
19	16-Jan-85	19:00	4.0	1.1
20	16-Jan-85	20:00	0.5	0.0
21	16-Jan-85	21:00	0.0	0.2
22	16-Jan-85	22:00	0.0	0.2
23	16-Jan-85	23:00	0.0	0.0
24	17-Jan-85	17-Jan 0:00	0.0	0.0
25	17-Jan-85	1:00	0.0	0.0
26	17-Jan-85	2:00	0.0	0.1
27	17-Jan-85	3:00	0.0	0.0
28	17-Jan-85	4:00	0.0	0.0
29	17-Jan-85	5:00	0.0	0.3
30	17-Jan-85	6:00	0.0	3.5
31	17-Jan-85	7:00	0.5	6.0
32	17-Jan-85	8:00	0.6	15.7
33	17-Jan-85	9:00	10.0	6.5
34	17-Jan-85	10:00	8.0	6.9
35	17-Jan-85	11:00	2.0	7.2
36	17-Jan-85	12:00	4.0	48.2
37	17-Jan-85	13:00	17.0	6.5
38	17-Jan-85	14:00	9.0	2.2
39	17-Jan-85	15:00	12.0	0.0
40	17-Jan-85	16:00	11.2	0.1
41	17-Jan-85	17:00	5.8	13.6
42	17-Jan-85	18:00	8.0	5.5
43	17-Jan-85	19:00	10.0	19.3
44	17-Jan-85	20:00	25.5	16.8
45	17-Jan-85	21:00	9.5	2.3
46	17-Jan-85	22:00	36.0	0.0
47	17-Jan-85	23:00	15.0	0.0
48	18-Jan-85	18-Jan 0:00	9.0	0.3
49	18-Jan-85	1:00	2.0	0.0
50	18-Jan-85	2:00	0.0	0.0
51	18-Jan-85	3:00	0.0	0.0
52	18-Jan-85	4:00	0.0	0.0
53	18-Jan-85	5:00	0.0	0.0
54	18-Jan-85	6:00	0.0	0.0
55	18-Jan-85	7:00	0.0	0.0
56	18-Jan-85	8:00	0.0	0.0
57	18-Jan-85	9:00	0.0	0.0
58	18-Jan-85	10:00	1.0	0.0
59	18-Jan-85	11:00	1.0	0.0
60	18-Jan-85	12:00	0.0	0.0
61	18-Jan-85	13:00	0.0	0.0
62	18-Jan-85	14:00	0.0	0.0
63	18-Jan-85	15:00	0.0	0.0
64	18-Jan-85	16:00	0.0	0.0
65	18-Jan-85	17:00	0.0	0.0
66	18-Jan-85	18:00	0.0	0.0

Fiji flood analysis (1) < BA River (Nigel) >
Rain

Original Data

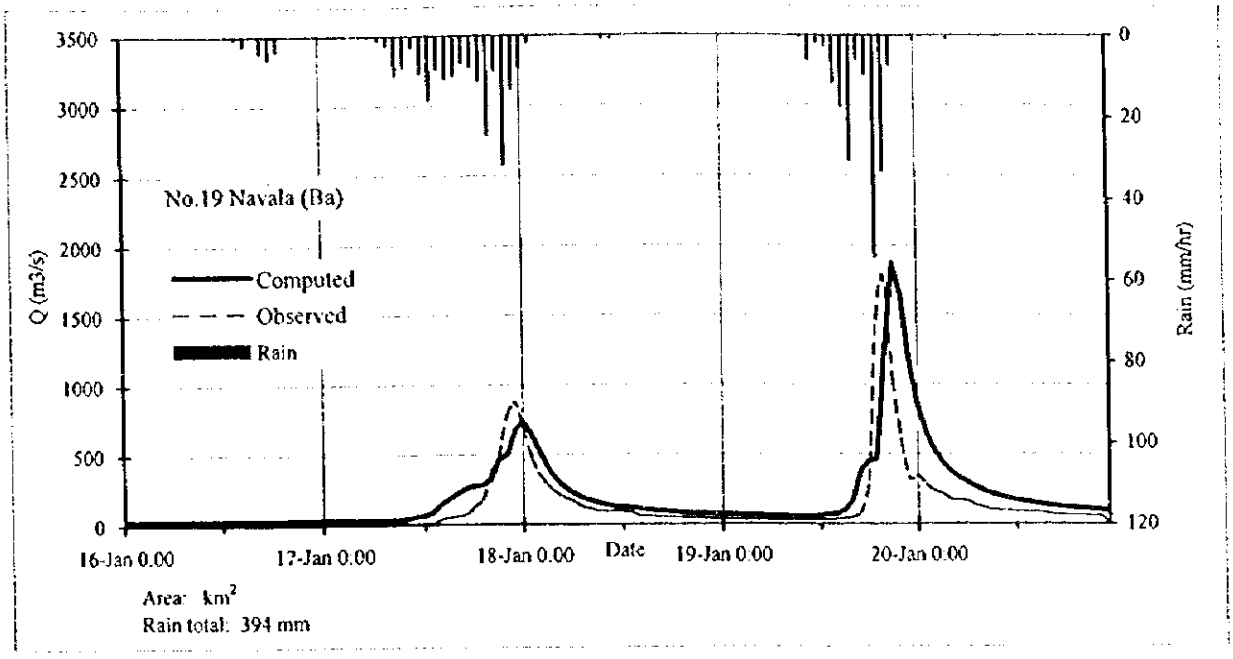
	Date	Time	PA059	V77744
67	18-Jan-85	19:00	0.0	0.0
68	18-Jan-85	20:00	0.0	0.0
69	18-Jan-85	21:00	0.0	0.0
70	18-Jan-85	22:00	0.0	0.0
71	18-Jan-85	23:00	0.0	0.0
72	19-Jan-85	19-Jan 0:00	0.0	0.0
73	19-Jan-85	1:00	0.0	0.0
74	19-Jan-85	2:00	0.0	0.0
75	19-Jan-85	3:00	0.0	0.0
76	19-Jan-85	4:00	0.0	0.0
77	19-Jan-85	5:00	0.0	0.0
78	19-Jan-85	6:00	0.0	0.0
79	19-Jan-85	7:00	0.0	0.0
80	19-Jan-85	8:00	0.0	0.0
81	19-Jan-85	9:00	0.0	0.0
82	19-Jan-85	10:00	0.5	0.7
83	19-Jan-85	11:00	7.0	0.0
84	19-Jan-85	12:00	2.0	0.0
85	19-Jan-85	13:00	3.0	0.0
86	19-Jan-85	14:00	8.0	39.6
87	19-Jan-85	15:00	20.0	0.0
88	19-Jan-85	16:00	35.0	0.0
89	19-Jan-85	17:00	7.0	0.0
90	19-Jan-85	18:00	11.0	0.0
91	19-Jan-85	19:00	62.0	0.0
92	19-Jan-85	20:00	38.0	0.0
93	19-Jan-85	21:00	8.5	0.0
94	19-Jan-85	22:00	0.0	0.0
95	19-Jan-85	23:00	0.0	0.0
96	20-Jan-85	20-Jan 0:00	0.0	0.0
97	20-Jan-85	1:00	0.0	0.0
98	20-Jan-85	2:00	0.0	0.0
99	20-Jan-85	3:00	0.0	0.0
100	20-Jan-85	4:00	0.0	7.9
101	20-Jan-85	5:00	0.0	0.0
102	20-Jan-85	6:00	0.0	0.0
103	20-Jan-85	7:00	0.0	0.0
104	20-Jan-85	8:00	0.0	0.0
105	20-Jan-85	9:00	0.0	0.0
106	20-Jan-85	10:00	0.0	0.0
107	20-Jan-85	11:00	0.0	0.0
108	20-Jan-85	12:00	0.0	0.0
109	20-Jan-85	13:00	0.0	0.0
110	20-Jan-85	14:00	0.0	0.0
111	20-Jan-85	15:00	0.0	0.0
112	20-Jan-85	16:00	0.0	0.0
113	20-Jan-85	17:00	0.0	0.0
114	20-Jan-85	18:00	0.0	0.0
115	20-Jan-85	19:00	0.0	0.0
116	20-Jan-85	20:00	0.0	0.0
117	20-Jan-85	21:00	0.4	0.0
118	20-Jan-85	22:00	0.0	0.0
119	20-Jan-85	23:00	0.0	0.0
		Total	414.0	243.2

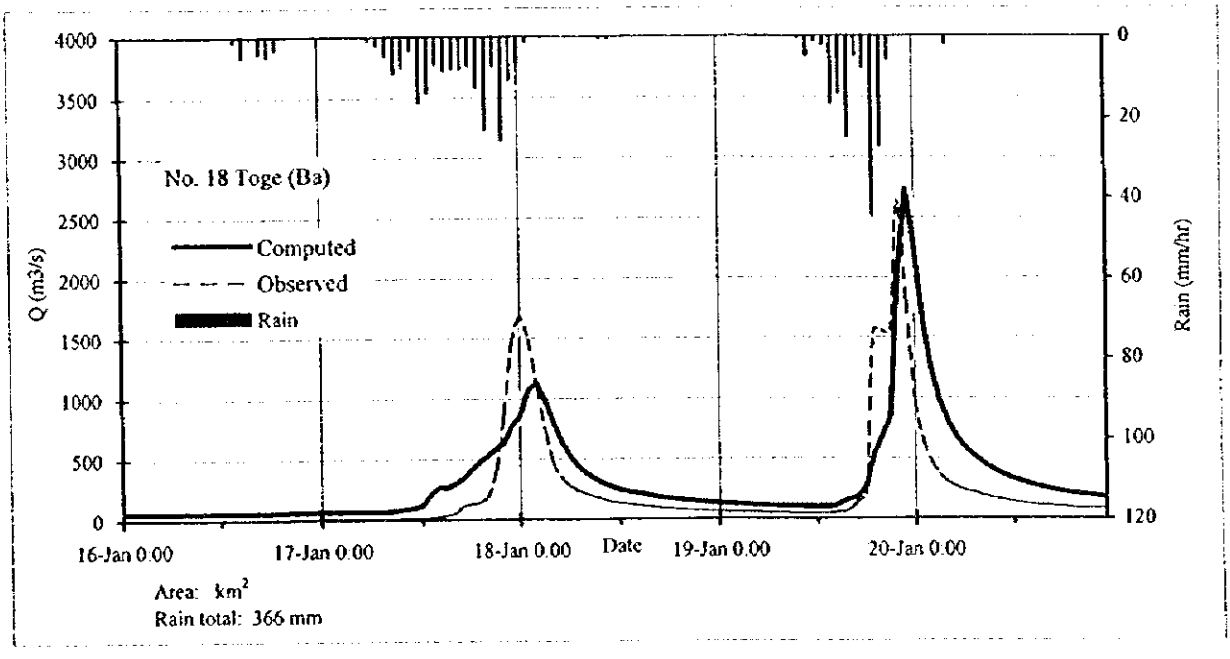
Fiji Flood Analysis < Ba River (Nigel) >

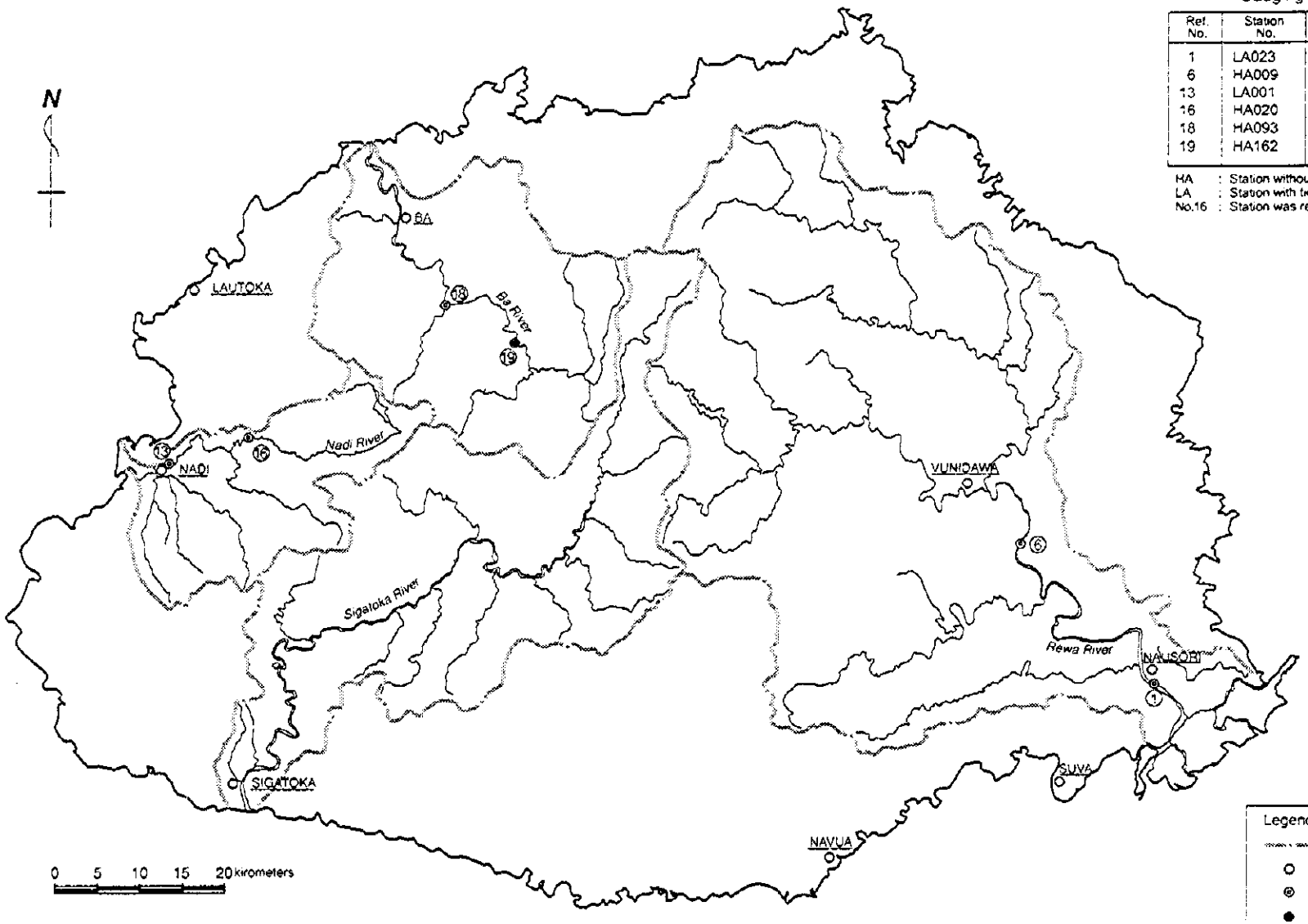
		No.19 Navala			No.18 Toge		
		Area (km²)		323	Area (km²)		579
		Rain total (mm)		394	Rain total (mm)		366
		Q total (mm)			Q total (mm) (fm REWA Dis xls file)		
		Runoff coeffing		0.0	Runoff coeffing		0.0
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed
16-Jan-85	16-Jan 0:00	32.4		3.8	57.8		5.6
16-Jan-85	1:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	2:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	3:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	4:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	5:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	6:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	7:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	8:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	9:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	10:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	11:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	12:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	13:00	32.4	0.0	3.8	57.8	0.0	5.6
16-Jan-85	14:00	32.4	0.6	3.8	57.8	1.4	5.6
16-Jan-85	15:00	32.4	2.2	3.8	57.8	5.1	5.6
16-Jan-85	16:00	32.4	0.3	3.6	58.6	0.6	5.6
16-Jan-85	17:00	32.5	4.1	3.8	60.1	4.2	5.6
16-Jan-85	18:00	32.7	5.6	6.0	61.2	5.0	6.0
16-Jan-85	19:00	33.6	3.6	6.1	62.4	3.2	7.6
16-Jan-85	20:00	35.1	0.4	6.3	63.2	0.4	8.1
16-Jan-85	21:00	35.6	0.0	6.4	63.9	0.1	9.4
16-Jan-85	22:00	35.6	0.0	6.5	65.0	0.1	9.9
16-Jan-85	23:00	35.6	0.0	7.8	66.1	0.0	9.9
17-Jan-85	17-Jan 0:00	35.5	0.0	7.0	66.6	0.0	9.9
17-Jan-85	1:00	35.5	0.0	7.0	66.8	0.0	9.9
17-Jan-85	2:00	35.4	0.0	7.0	66.8	0.0	9.9
17-Jan-85	3:00	35.4	0.0	6.5	66.7	0.0	9.9
17-Jan-85	4:00	35.3	0.0	6.5	66.6	0.0	9.9
17-Jan-85	5:00	35.3	0.0	6.5	66.5	0.1	9.9
17-Jan-85	6:00	35.3	0.4	6.5	66.3	1.0	9.9
17-Jan-85	7:00	35.4	1.1	6.5	67.2	2.1	9.9
17-Jan-85	8:00	36.0	2.4	6.5	69.7	4.8	9.9
17-Jan-85	9:00	37.5	9.6	6.5	79.4	9.0	9.9
17-Jan-85	10:00	46.3	7.8	6.5	90.0	7.7	9.9
17-Jan-85	11:00	60.8	2.7	6.3	98.8	3.4	9.9
17-Jan-85	12:00	68.2	9.3	7.9	113.2	16.4	10.2
17-Jan-85	13:00	91.1	15.8	12.5	211.3	14.0	12.2
17-Jan-85	14:00	151.1	8.2	39.2	268.2	7.1	19.8
17-Jan-85	15:00	188.8	10.6	51.1	263.0	8.6	39.1
17-Jan-85	16:00	226.3	9.9	63.8	297.0	8.1	55.2
17-Jan-85	17:00	261.9	6.7	75.3	345.3	8.0	111.8
17-Jan-85	18:00	275.8	7.7	129.0	417.0	7.3	124.9
17-Jan-85	19:00	286.5	11.1	184.2	477.3	12.6	143.9
17-Jan-85	20:00	322.6	24.4	371.1	532.4	23.1	192.3
17-Jan-85	21:00	466.9	8.7	491.4	587.4	7.4	407.7
17-Jan-85	22:00	500.8	31.7	775.3	635.1	25.9	879.3
17-Jan-85	23:00	678.6	13.2	873.9	781.5	10.8	1456.5
18-Jan-85	18-Jan 0:00	736.1	7.9	694.4	858.3	6.6	1671.7
18-Jan-85	1:00	644.9	1.8	479.9	1077.1	1.4	1491.1
18-Jan-85	2:00	518.0	0.0	354.6	1125.1	0.0	1112.0
18-Jan-85	3:00	401.6	0.0	278.4	985.6	0.0	734.2
18-Jan-85	4:00	320.3	0.0	232.0	804.7	0.0	465.2
18-Jan-85	5:00	265.3	0.0	192.4	643.3	0.0	340.8
18-Jan-85	6:00	225.9	0.0	169.8	525.5	0.0	280.1
18-Jan-85	7:00	196.5	0.0	133.5	442.0	0.0	240.0
18-Jan-85	8:00	173.9	0.0	116.0	380.8	0.0	209.4
18-Jan-85	9:00	156.1	0.0	100.2	334.4	0.0	184.7
18-Jan-85	10:00	141.8	0.9	97.0	298.1	0.7	165.8
18-Jan-85	11:00	132.2	0.9	95.0	269.1	0.7	143.9
18-Jan-85	12:00	126.0	0.0	93.9	245.8	0.0	133.0
18-Jan-85	13:00	118.6	0.0	85.5	228.5	0.0	124.9
18-Jan-85	14:00	110.6	0.0	62.9	216.0	0.0	114.1
18-Jan-85	15:00	103.7	0.0	59.0	204.3	0.0	106.0
18-Jan-85	16:00	97.8	0.0	56.0	192.2	0.0	99.4
18-Jan-85	17:00	92.7	0.0	53.0	181.1	0.0	93.0
18-Jan-85	18:00	88.2	0.0	51.8	171.2	0.0	87.9
18-Jan-85	19:00	84.2	0.0	48.0	162.5	0.0	82.0
18-Jan-85	20:00	80.7	0.0	45.0	154.9	0.0	78.0

Fiji Flood Analysis < Ba River (Nigel) >

		No.19 Navala			No.18 Toge		
		Area (km²)		323	Area (km²)		579
		Rain total (mm)		394	Rain total (mm)		366
		Q total (mm)			Q total (mm) (fm REWA-Dis xls file)		
		Runoff coeffing		0.0	Runoff coeffing		0.0
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed
18-Jan-85	21:00	77.6	0.0	43.6	148.2	0.0	74.2
18-Jan-85	22:00	74.8	0.0	40.0	142.1	0.0	71.0
18-Jan-85	23:00	72.3	0.0	37.0	136.8	0.0	68.0
19-Jan-85	19-Jan 0:00	70.0	0.0	34.9	132.0	0.0	65.0
19-Jan-85	1:00	67.9	0.0	33.0	127.6	0.0	62.6
19-Jan-85	2:00	66.0	0.0	32.0	123.7	0.0	59.0
19-Jan-85	3:00	64.3	0.0	31.0	120.1	0.0	56.8
19-Jan-85	4:00	62.7	0.0	30.0	116.8	0.0	54.0
19-Jan-85	5:00	61.2	0.0	31.0	113.7	0.0	53.6
19-Jan-85	6:00	59.9	0.0	30.0	111.0	0.0	51.0
19-Jan-85	7:00	58.6	0.0	29.5	108.5	0.0	49.7
19-Jan-85	8:00	57.5	0.0	29.1	106.1	0.0	48.0
19-Jan-85	9:00	56.4	0.0	29.0	104.0	0.0	47.5
19-Jan-85	10:00	55.4	0.5	28.5	102.0	0.6	46.0
19-Jan-85	11:00	55.0	6.2	28.5	100.3	5.0	46.0
19-Jan-85	12:00	61.7	1.8	29.0	98.8	1.4	46.0
19-Jan-85	13:00	68.8	2.6	29.7	97.9	2.2	46.0
19-Jan-85	14:00	72.8	11.8	32.3	101.9	16.9	49.7
19-Jan-85	15:00	100.1	17.6	39.1	133.9	14.4	60.0
19-Jan-85	16:00	172.9	30.8	50.0	161.3	25.2	78.0
19-Jan-85	17:00	383.7	6.2	85.5	183.5	5.0	142.6
19-Jan-85	18:00	451.6	9.7	312.8	272.8	7.9	220.7
19-Jan-85	19:00	464.3	54.6	1473.0	531.7	44.6	1556.7
19-Jan-85	20:00	1219.6	33.4	1780.4	685.3	27.4	1556.0
19-Jan-85	21:00	1867.0	7.5	1044.3	843.2	6.1	1556.7
19-Jan-85	22:00	1644.1	0.0	601.9	2068.7	0.0	2628.8
19-Jan-85	23:00	1170.4	0.0	326.5	2729.8	0.0	1803.0
20-Jan-85	20-Jan 0:00	847.3	0.0	340.5	2243.6	0.0	978.7
20-Jan-85	1:00	655.2	0.0	284.0	1631.4	0.0	642.6
20-Jan-85	2:00	529.2	0.0	241.0	1225.7	0.0	462.6
20-Jan-85	3:00	441.2	0.0	216.1	971.1	0.0	356.4
20-Jan-85	4:00	376.6	0.9	176.2	798.3	2.2	300.3
20-Jan-85	5:00	335.4	0.0	170.0	679.4	0.0	262.5
20-Jan-85	6:00	299.1	0.0	165.2	590.3	0.0	234.5
20-Jan-85	7:00	266.6	0.0	138.0	527.1	0.0	220.7
20-Jan-85	8:00	240.2	0.0	121.0	473.6	0.0	195.3
20-Jan-85	9:00	218.4	0.0	104.0	425.6	0.0	179.0
20-Jan-85	10:00	200.2	0.0	100.0	385.7	0.0	164.4
20-Jan-85	11:00	184.8	0.0	97.0	352.6	0.0	147.9
20-Jan-85	12:00	171.6	0.0	94.0	324.6	0.0	136.0
20-Jan-85	13:00	160.2	0.0	91.4	300.8	0.0	126.1
20-Jan-85	14:00	150.3	0.0	88.0	280.3	0.0	117.6
20-Jan-85	15:00	141.7	0.0	86.6	262.6	0.0	111.0
20-Jan-85	16:00	134.0	0.0	74.2	247.1	0.0	106.0
20-Jan-85	17:00	127.2	0.0	70.0	233.4	0.0	100.0
20-Jan-85	18:00	121.1	0.0	66.9	221.4	0.0	94.1
20-Jan-85	19:00	115.7	0.0	65.0	210.6	0.0	89.0
20-Jan-85	20:00	110.7	0.0	64.8	201.0	0.0	84.8
20-Jan-85	21:00	106.3	0.4	60.9	192.3	0.3	84.8
20-Jan-85	22:00	103.2	0.0	55.3	184.5	0.0	84.8
20-Jan-85	23:00	100.2	0.0	0.0	177.5	0.0	84.8
Max		1867.0	54.6	1780.4	2729.8	44.6	2628.8
Rain Total			393.6			366.1	


No.19 Navala (Ba)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
16-Jan 0.00
17-Jan 0.00
18-Jan 0.00
Date
19-Jan 0.00
20-Jan 0.00
Area: km2
Rain total: 394 mm


No. 18 Toge (Ba)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
4000
3500
3000
2500
2000
1500
1000
500
0
0
20
40
60
80
100
120
16-Jan 0.00
17-Jan 0.00
18-Jan 0.00
Date
19-Jan 0.00
20-Jan 0.00
Area: km2
Rain total: 366 mm



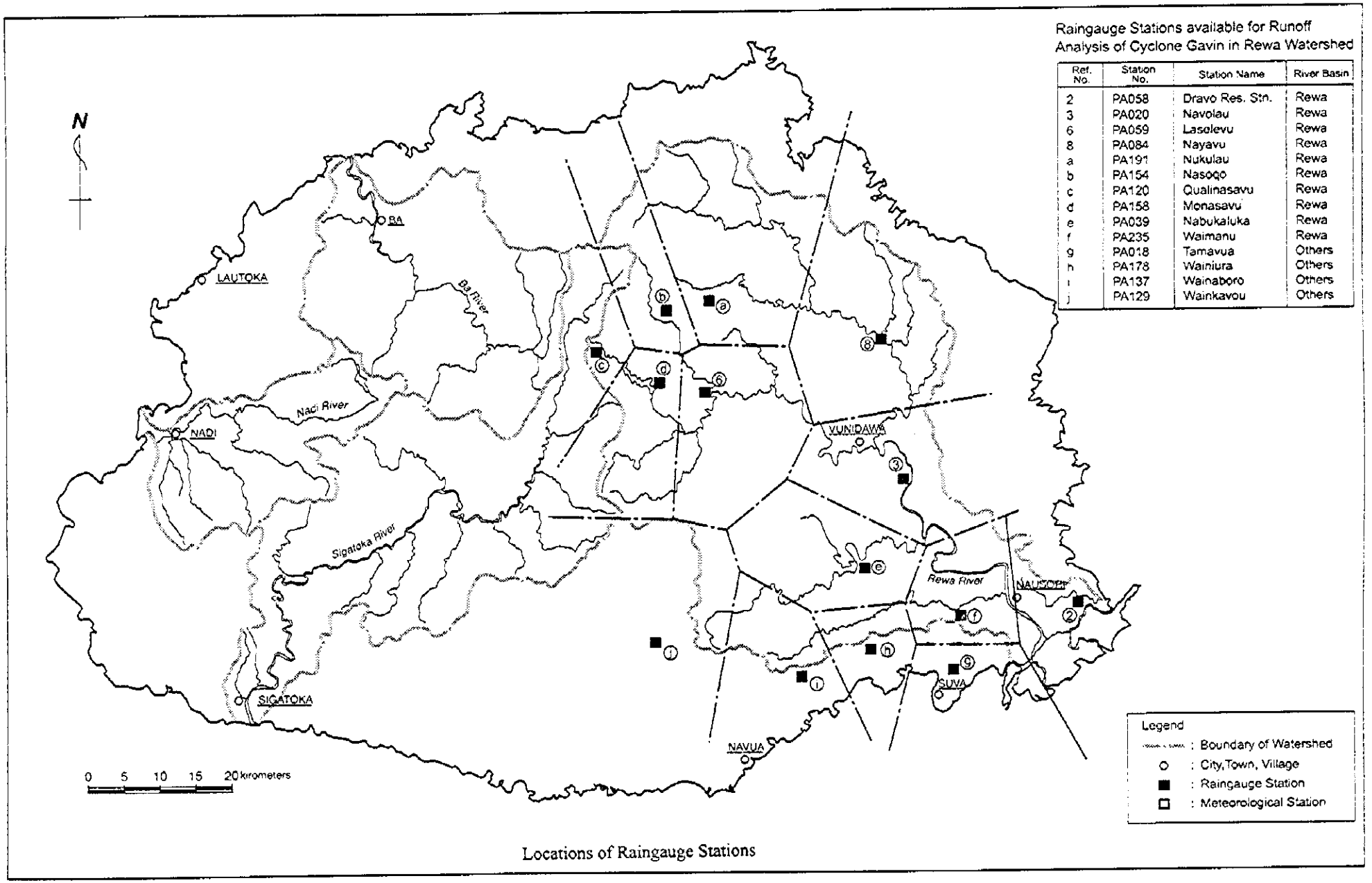
Gauging Stations Adopted

Ref. No.	Station No.	Station Name
1	LA023	Nausori-crt
6	HA009	Navolau
13	LA001	Nadi-Bridge
16	HA020	Votualevu
18	HA093	Toge
19	HA162	Navala

HA : Station without tidal influence
LA : Station with tidal influence
No.16 : Station was reopened in January, 1997

Legend
: Boundary of Watershed
: City,Town, Village
: Gauging Station Operated
: Gauging Station Closed

Locations of Gauging Stations



Locations of Raingauge Stations

Fiji flood analysis (1) < REWA River (Gavin) >
Rain

Original Data

	Date	Time	PA191	PA154	PA120	PA158	PA059	PA084	PA020	PA039	PA235	PA058	PA018	PA0178	PA137	PA129
	04-Mar-97	4-Mar 0:00														
1	04-Mar-97	1:00	0.0	6.2	0.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	01-Mar-97	2:00	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	01-Mar-97	3:00	0.5	1.2	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	01-Mar-97	4:00	0.0	0.2	1.0	1.5	0.0	0.5	0.0	0.0	0.5	3.0	0.0	0.0	0.0	0.0
5	04-Mar-97	5:00	0.5	0.4	1.0	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	04-Mar-97	6:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	01-Mar-97	7:00	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	04-Mar-97	8:00	0.5	0.0	0.0	0.5	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
9	04-Mar-97	9:00	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	04-Mar-97	10:00	0.0	0.0	0.5	0.0	0.0	0.5	1.0	2.0	0.0	0.0	0.0	1.0	0.5	0.0
11	04-Mar-97	11:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.5
12	01-Mar-97	12:00	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	04-Mar-97	13:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
14	01-Mar-97	14:00	0.0	0.0	0.0	0.0	1.0	0.0	0.5	0.0	4.5	2.0	1.0	0.5	0.0	0.0
15	04-Mar-97	15:00	0.5	0.0	0.0	2.0	1.0	0.0	1.5	0.0	0.0	0.0	1.0	1.0	4.0	0.0
16	01-Mar-97	16:00	0.0	0.0	1.0	0.0	0.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0	0.5
17	04-Mar-97	17:00	0.0	0.0	2.0	18.0	0.3	0.0	1.0	0.0	1.0	0.0	0.3	1.0	0.0	1.0
18	04-Mar-97	18:00	0.0	4.4	1.0	5.5	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.5
19	04-Mar-97	19:00	0.5	0.4	1.0	2.5	0.0	8.5	7.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
20	04-Mar-97	20:00	7.5	1.4	8.0	6.0	0.0	9.5	0.0	7.5	0.0	0.0	0.0	13.0	2.5	0.0
21	04-Mar-97	21:00	0.0	0.0	0.0	6.0	1.0	9.0	2.5	0.5	0.5	0.0	1.0	0.5	1.0	0.5
22	01-Mar-97	22:00	0.5	15.2	0.0	0.0	0.5	1.0	1.0	0.0	3.5	0.0	0.5	0.0	0.0	0.5
23	01-Mar-97	23:00	0.0	1.4	0.0	0.0	1.4	0.0	0.5	0.5	3.0	0.0	1.4	6.0	4.5	0.0
24	05-Mar-97	5-Mar 0:00	3.5	0.0	0.5	1.0	0.0	10.0	0.0	0.0	20.5	2.0	0.0	9.0	5.5	6.5
25	05-Mar-97	1:00	1.5	0.2	0.5	23.0	0.0	22.5	0.0	1.5	18.0	6.0	0.0	10.0	16.0	1.0
26	05-Mar-97	2:00	10.5	0.8	2.0	23.0	0.0	14.0	24.0	9.0	0.0	1.0	0.0	23.5	11.0	0.5
27	05-Mar-97	3:00	9.0	2.6	7.0	24.0	0.0	3.0	8.5	12.5	2.0	0.0	0.0	26.5	28.0	5.5
28	05-Mar-97	4:00	7.5	8.0	3.0	6.0	0.0	3.5	22.5	4.5	2.5	0.5	0.0	7.0	6.5	8.0
29	05-Mar-97	5:00	10.5	18.0	10.5	11.5	0.0	14.5	13.0	9.5	5.5	2.5	0.0	10.5	6.5	5.0
30	05-Mar-97	6:00	3.0	12.0	2.0	5.5	0.0	5.0	9.0	5.0	6.0	5.5	0.0	4.5	5.5	2.0
31	05-Mar-97	7:00	1.0	28.0	2.0	10.0	0.0	11.0	13.0	5.5	6.0	5.5	0.0	6.5	4.0	0.0
32	05-Mar-97	8:00	1.0	6.0	4.0	12.0	0.0	9.0	5.0	5.0	5.0	4.0	0.0	4.5	3.0	0.5
33	05-Mar-97	9:00	1.5	0.6	4.0	2.0	0.0	1.5	3.5	1.5	2.5	3.0	0.0	2.0	0.0	0.0
34	05-Mar-97	10:00	1.0	8.4	2.0	0.5	0.0	2.5	0.5	0.0	0.5	1.5	0.0	0.0	0.0	0.0
35	05-Mar-97	11:00	0.0	3.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
36	05-Mar-97	12:00	0.0	1.2	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	05-Mar-97	13:00	0.0	0.8	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	05-Mar-97	14:00	0.5	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	05-Mar-97	15:00	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	05-Mar-97	16:00	0.0	0.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	05-Mar-97	17:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	05-Mar-97	18:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
43	05-Mar-97	19:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.0
44	05-Mar-97	20:00	0.0	0.0	0.5	0.3	0.0	0.0	0.0	0.0	0.5	0.0	0.0	1.5	0.5	0.0
45	05-Mar-97	21:00	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0
46	05-Mar-97	22:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0
47	05-Mar-97	23:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	06-Mar-97	6-Mar 0:00	0.5	0.2	1.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5	0.0	0.0
49	06-Mar-97	1:00	0.0	0.2	1.0	0.0	7.6	3.0	0.0	0.0	0.0	0.0	7.6	0.5	0.5	0.0
50	06-Mar-97	2:00	0.0	0.2	0.0	3.5	26.0	3.0	0.0	3.0	0.0	0.0	26.0	0.0	1.0	0.4
51	06-Mar-97	3:00	0.5	0.2	1.0	0.3	6.0	0.0	1.5	1.5	0.0	0.0	6.0	0.0	0.0	1.6
52	06-Mar-97	4:00	6.0	0.2	5.5	4.2	4.0	3.0	2.5	2.5	0.0	1.0	4.0	0.0	0.0	0.0
53	06-Mar-97	5:00	2.0	0.8	2.0	2.5	6.0	5.5	1.5	0.0	1.0	0.5	6.0	1.0	0.5	0.0
54	06-Mar-97	6:00	2.0	0.0	2.0	4.0	4.0	1.5	7.5	7.0	3.0	0.0	4.0	10.0	0.0	0.0
55	06-Mar-97	7:00	0.0	4.0	2.0	1.0	4.0	0.0	1.0	0.0	0.0	0.0	4.0	0.0	0.5	0.0
56	06-Mar-97	8:00	1.5	2.4	1.0	0.5	5.0	0.0	1.0	0.5	1.5	0.0	5.0	4.0	3.0	0.0
57	06-Mar-97	9:00	0.0	1.8	0.0	1.5	0.0	0.0	2.5	4.0	1.0	0.0	0.0	0.5	1.0	0.0
58	06-Mar-97	10:00	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	0.0	0.5
59	06-Mar-97	11:00	0.0	1.6	0.0	0.0	0.0	0.0	0.0	2.5	0.0	0.0	0.0	0.0	2.5	2.0
60	06-Mar-97	12:00	0.0	0.0	1.0	0.5	5.0	4.0	1.0	2.5	2.0	0.0	5.0	0.0	0.0	0.0
61	06-Mar-97	13:00	2.0	0.0	1.5	4.5	3.3	0.0	2.5	1.0	0.0	0.0	3.3	8.5	4.5	2.0
62	06-Mar-97	14:00	0.0	0.0	0.0	0.0	0.1	0.5	2.5	1.0	7.5	1.0	0.1	6.0	2.0	2.0
63	06-Mar-97	15:00	2.0	2.8	8.5	9.0	1.0	5.5	1.5	3.0	0.5	3.0	1.0	5.5	2.5	0.5
64	06-Mar-97	16:00	2.0	0.0	12.0	13.0	2.1	4.5	2.5	5.5	1.5	1.5	2.1	3.5	2.0	6.0
65	06-Mar-97	17:00	6.0	1.8	14.0	22.0	3.5	9.0	3.0	2.0	3.5	1.5	3.5	4.0	4.0	1.0
66	06-Mar-97	18:00	1.5	9.4	5.0	6.0	1.8	0.5	2.0	1.5	0.5	2.0	1.8	1.0	1.5	4.0
67	06-Mar-97	19:00	0.0	6.0	1.5	9.0	0.2	2.0	1.5	0.5	1.0	8.0	0.2	0.0	0.0	4.5
68	06-Mar-97	20:00	1.5	14.6	3.5	14.0	1.0	3.0	8.5	4.5	3.0	1.0	1.0	1.5	1.5	3.0
69	06-Mar-97	21:00	1.0	0.6	4.0	16.0	7.0	1.5	1.0	1.5	1.5	1.5	7.0	4.5	7.0	16.0
70	06-Mar-97	22:00	1.0	0.6	3.0	8.0	3.0	7.0	1.0	0.5	0.5	5.0	3.0	2.0	12.0	6.5
71	06-Mar-97	23:00	5.5	4.6	13.0	10.0	1.0	9.0	14.5	5.0	1.0	2.0	1.0	3.0	5.0	21.5
72	07-Mar-97	7-Mar 0:00	1.5	1.4	9.0	21.0	2.0	2.0	8.5	1.0	0.5	1.0	2.0	1.0	1.5	2.5
73	07-Mar-97	1:00	0.0	5.0	9.0	6.0	0.0	3.5	1.0	0.5	0.5	1.5	0.0	1.0	0.5	1.5
74	07-Mar-97	2:00	3.0	11.0	6.5	8.0	2.0	1.5	2.0	2.0	0.5	1.0	2.0	2.0	2.5	1.0
75	07-Mar-97	3:00	2.0	5.0	5.0	4.0	3.0	3.5	3.0	0.5	0.5	0.5	3.0	2.5	1.5	2.0
76	07-Mar-97	4:00	1.0	9.0	2.5	2.5	0.0	1.5	0.5	0.5	0.5	1.5	0.0	0.5	0.0	0.5
77	07-Mar-97	5:00	1.5	3.0	6.0	2.5	2.0	6.5	4.5	4.5	1.0	1.0	2.0	2.5	2.5	0.0
78	07-Mar-97	6:00	1.0	3.4	7.0	6.0	1.0	6.5	1.0	0.5	0.5	1.0	1.0	0.5	0.5	3.0
79	07-Mar-97	7:00	5.0	1.6	12.0	9.0	2.0	18.5	9.0	5.5	10.0	1.5	2.0	5.0	6.5	1.5
80	07-Mar-97	8:00	9.0	4.6	26.0	31.0	8.0	16.0	17.5	28.5	23.5	1.0	8.0	28.0	16.5	6.0
81	07-Mar-97	9:00	0.5	4.6	5.0	20.0	24.0	2.0	6.0	7.0	6.5	4.0	24.0	16.5	12.0	22.0
82	07-Mar-97	10:00	1.0	17.0	4.0	20.0	1.5	3.5	2.0	2.5	4.0	13.0	1.5	5.5	2.5	9.0

Fiji flood analysis (1) < REWA River (Gavia) >
Rain

Original Data

	Date	Time	PA191	PA154	PA120	PA158	PA059	PA081	PA020	PA039	PA235	PA058	PA018	PA0178	PA137	PA129
83	07-Mar-97	11:00	2.0	10.6	9.0	10.0	3.5	2.0	5.5	11.0	5.0	10.0	3.5	11.0	8.5	6.0
84	07-Mar-97	12:00	5.0	1.6	22.0	20.0	2.0	8.5	2.5	2.0	1.0	7.0	2.0	4.0	3.0	9.0
85	07-Mar-97	13:00	7.0	5.6	36.0	31.0	2.0	16.0	6.0	4.0	2.0	2.0	2.0	3.0	3.0	2.5
86	07-Mar-97	14:00	6.5	7.0	37.0	36.0	0.0	29.5	17.0	13.5	8.0	2.0	0.0	9.5	7.0	5.5
87	07-Mar-97	15:00	5.5	15.0	35.0	23.0	19.0	26.0	7.0	6.5	6.5	4.0	19.0	11.0	7.5	10.5
88	07-Mar-97	16:00	8.5	23.0	62.0	35.0	5.5	6.5	4.0	3.5	2.5	3.0	5.5	5.0	3.5	8.0
89	07-Mar-97	17:00	15.0	16.0	38.0	40.0	8.5	2.5	3.0	1.5	3.5	3.0	8.5	2.0	0.5	6.5
90	07-Mar-97	18:00	0.0	18.0	48.0	30.0	0.0	8.0	1.5	1.0	2.0	3.0	0.0	0.5	0.5	3.0
91	07-Mar-97	19:00	0.5	26.0	34.0	35.0	0.0	2.0	4.5	1.0	0.5	3.0	0.0	0.0	0.5	1.5
92	07-Mar-97	20:00	0.0	63.0	26.0	18.0	0.0	6.0	8.0	5.5	1.0	3.0	0.0	4.0	8.5	1.5
93	07-Mar-97	21:00	0.0	25.0	5.0	24.0	6.0	4.0	1.0	1.0	0.5	2.0	6.0	1.0	1.0	2.5
94	07-Mar-97	22:00	0.0	27.0	22.0	11.0	4.4	2.0	3.0	10.0	1.0	2.0	4.4	1.5	14.5	3.0
95	07-Mar-97	23:00	0.5	25.0	30.0	14.0	2.6	1.0	1.5	0.5	0.5	2.5	2.6	1.0	1.0	0.5
96	08-Mar-97	8-Mar 0:00	0.0	20.0	33.0	19.0	0.0	2.5	1.0	1.5	0.5	1.0	0.0	2.0	3.0	0.5
97	08-Mar-97	1:00	0.0	16.0	39.0	39.0	0.0	2.5	1.0	1.0	0.0	1.0	0.0	1.5	1.0	0.5
98	08-Mar-97	2:00	0.0	10.0	28.0	25.0	0.0	0.0	0.5	0.5	0.0	0.0	0.0	0.5	1.5	0.5
99	08-Mar-97	3:00	0.0	30.0	28.0	16.0	0.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	1.5	2.0
100	08-Mar-97	4:00	0.5	23.0	20.0	26.0	0.0	3.0	1.5	2.0	0.5	0.0	0.0	2.5	5.0	5.0
101	08-Mar-97	5:00	0.0	25.0	20.0	20.0	0.0	3.0	2.0	1.0	0.5	0.0	0.0	1.5	2.0	1.5
102	08-Mar-97	6:00	0.0	21.0	33.0	31.0	0.0	4.0	1.0	3.5	1.5	0.0	0.0	3.0	5.0	9.0
103	08-Mar-97	7:00	0.0	19.0	22.0	19.0	3.0	3.0	0.5	1.0	0.5	0.0	3.0	2.0	3.0	2.5
104	08-Mar-97	8:00	0.0	19.0	12.0	20.0	0.0	4.0	2.0	1.0	0.0	0.0	0.0	1.5	1.0	0.5
105	08-Mar-97	9:00	0.0	28.0	10.0	18.0	0.0	2.0	1.0	0.5	0.0	0.0	0.0	0.0	0.5	0.5
106	08-Mar-97	10:00	0.0	10.0	2.0	25.0	0.0	0.0	0.0	0.0	0.5	4.0	0.0	0.5	0.5	0.0
107	08-Mar-97	11:00	0.0	7.0	7.0	11.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0	0.5
108	08-Mar-97	12:00	0.0	8.0	8.0	15.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
109	08-Mar-97	13:00	0.0	16.0	2.0	6.0	0.0	0.0	0.5	0.5	1.0	0.0	0.0	0.0	1.0	1.0
110	08-Mar-97	14:00	0.0	6.8	9.0	5.0	0.0	0.5	0.5	2.0	0.5	0.0	0.0	1.0	4.0	0.0
111	08-Mar-97	15:00	0.0	15.2	10.0	20.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	7.0	1.0
112	08-Mar-97	16:00	0.0	12.0	9.0	4.0	0.0	7.5	0.5	8.0	0.5	4.0	0.0	4.0	9.0	0.0
113	08-Mar-97	17:00	0.0	14.0	1.0	4.0	0.0	9.0	7.5	3.5	4.5	8.0	0.0	7.0	1.5	0.0
114	08-Mar-97	18:00	0.0	20.0	8.0	3.0	0.0	2.0	1.5	0.5	0.5	8.0	0.0	1.0	1.5	0.0
115	08-Mar-97	19:00	0.0	4.0	3.0	1.0	0.0	5.5	0.0	0.0	0.5	10.0	0.0	1.0	1.5	0.0
116	08-Mar-97	20:00	0.0	3.0	13.0	4.0	0.0	3.0	1.5	0.5	1.0	6.0	0.0	0.0	0.0	0.5
117	08-Mar-97	21:00	0.0	6.6	31.0	27.0	0.0	0.5	0.0	0.5	0.0	4.0	0.0	1.0	2.0	3.5
118	08-Mar-97	22:00	0.0	2.6	8.0	2.0	0.0	6.0	3.0	26.0	2.5	1.5	0.0	15.0	18.5	0.0
119	08-Mar-97	23:00	0.0	12.4	15.0	9.0	0.0	3.5	2.0	4.5	3.0	1.0	0.0	1.5	1.0	1.0
120	09-Mar-97	9-Mar 0:00	0.0	42.0	14.0	8.0	0.0	8.0	1.0	1.0	0.0	1.0	0.0	2.5	0.0	1.5
121	09-Mar-97	1:00	0.0	11.2	9.0	4.0	0.0	0.0	1.0	1.0	0.5	1.0	0.0	0.5	2.0	3.0
122	09-Mar-97	2:00	0.0	3.2	23.5	12.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0	1.5	0.0
123	09-Mar-97	3:00	0.0	3.6	5.5	3.5	0.0	0.0	1.0	1.0	0.0	0.5	0.0	0.0	0.0	0.5
124	09-Mar-97	4:00	0.0	2.0	3.0	6.5	0.0	10.0	0.0	0.5	0.5	0.5	0.0	0.0	0.5	0.5
125	09-Mar-97	5:00	0.0	4.0	12.0	9.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.0
126	09-Mar-97	6:00	0.0	3.8	3.0	6.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0
127	09-Mar-97	7:00	0.0	6.2	1.0	0.5	0.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
128	09-Mar-97	8:00	0.0	10.0	20.0	3.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
129	09-Mar-97	9:00	0.0	17.0	2.0	2.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
130	09-Mar-97	10:00	0.0	1.8	11.0	7.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	2.5
131	09-Mar-97	11:00	0.0	1.2	10.0	8.5	0.0	1.5	0.5	6.0	2.0	0.0	0.0	0.5	0.0	0.0
132	09-Mar-97	12:00	0.0	6.0	1.0	6.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
133	09-Mar-97	13:00	0.0	7.0	6.0	5.0	1.8	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	0.0
134	09-Mar-97	14:00	0.0	11.2	14.0	5.0	0.2	2.0	0.5	0.5	0.5	2.0	0.2	0.0	0.0	0.0
135	09-Mar-97	15:00	0.0	0.0	8.0	19.0	1.0	3.5	1.5	0.5	0.0	1.0	1.0	0.0	0.0	0.0
136	09-Mar-97	16:00	0.0	0.8	4.0	3.0	3.0	11.5	1.0	0.0	0.5	0.0	3.0	0.0	0.0	4.0
137	09-Mar-97	17:00	0.0	4.0	7.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0	0.0	1.0
138	09-Mar-97	18:00	0.0	12.0	1.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	3.0	0.5	0.5	0.5
139	09-Mar-97	19:00	0.0	4.4	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
140	09-Mar-97	20:00	0.0	9.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
141	09-Mar-97	21:00	0.0	0.2	0.5	0.0	6.0	0.0	0.0	0.0	0.0	0.0	6.0	0.0	0.0	0.0
142	09-Mar-97	22:00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
143	09-Mar-97	23:00	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	0.0	0.0
144	10-Mar-97	10-Mar 0:00	0.0	0.2	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Total	122.5	1012.0	1167.0	1232.0	226.0	475.5	331.0	309.5	218.0	199.0	226.0	356.0	342.5	258.0

Fiji Flood Analysis < Rewa River (Gavin) >

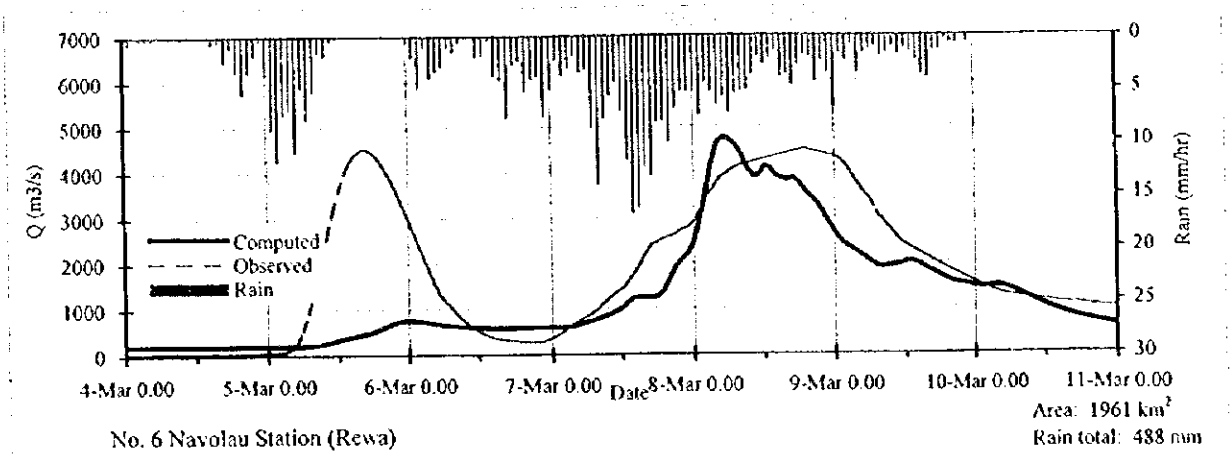
		Navolau			Nausori			
		Area (km²)		1961	Area (km²)		2903	
		Rain total (mm)		488	Rain total (mm)		437	
		Q total (mm)		658	Q total (mm)		385	
		Runoff coeffing		1.3	Runoff coeffing		0.9	
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Discharge
04-Mar-97	4-Mar 0:00	196.1		37.7	290.5		436.6	
04-Mar-97	1:00	196.1	0.7	39.3	290.5	0.6	524.1	
04-Mar-97	2:00	196.1	0.0	40.3	290.5	0.0	614.8	
04-Mar-97	3:00	196.1	0.3	41.8	290.5	0.3	672.4	
04-Mar-97	4:00	196.1	0.3	42.7	290.5	0.2	666.3	
04-Mar-97	5:00	196.1	0.3	45.2	290.5	0.3	600.5	
04-Mar-97	6:00	196.1	0.0	47.4	290.5	0.0	513.4	
04-Mar-97	7:00	196.1	0.0	49.7	290.5	0.0	437.4	
04-Mar-97	8:00	196.1	0.2	52.2	290.5	0.5	396.6	
04-Mar-97	9:00	196.1	0.1	55.2	290.5	0.1	388.8	
04-Mar-97	10:00	196.1	0.2	55.7	290.5	0.4	388.8	
04-Mar-97	11:00	196.1	0.0	55.5	290.5	0.0	403.7	
04-Mar-97	12:00	196.1	0.0	54.7	290.5	0.0	467.4	
04-Mar-97	13:00	196.1	0.0	55.1	290.5	0.1	576.2	
04-Mar-97	14:00	196.1	0.2	53.9	290.5	0.5	687.9	
04-Mar-97	15:00	196.1	0.6	51.8	290.5	0.8	768.4	
04-Mar-97	16:00	196.1	0.5	48.9	290.5	0.5	780.3	
04-Mar-97	17:00	196.1	2.3	48.8	290.5	1.8	713.7	
04-Mar-97	18:00	196.1	1.1	49.5	290.5	0.8	605.3	
04-Mar-97	19:00	196.1	3.3	49.1	290.5	3.1	496.2	
04-Mar-97	20:00	196.1	5.4	48.9	290.5	5.0	418.3	
04-Mar-97	21:00	196.1	3.4	49.7	290.5	2.5	389.9	
04-Mar-97	22:00	196.1	1.8	52.0	290.5	1.6	388.8	
04-Mar-97	23:00	196.1	0.4	56.0	290.5	1.0	388.8	
05-Mar-97	5-Mar 0:00	196.3	3.6	58.4	290.5	4.5	393.0	
05-Mar-97	1:00	196.6	8.8	63.2	290.5	8.6	438.2	
05-Mar-97	2:00	197.2	11.8	66.2	290.5	11.1	532.8	
05-Mar-97	3:00	197.9	7.4	78.7	290.5	9.1	630.9	
05-Mar-97	4:00	198.7	6.9	138.0	290.6	6.8	698.9	
05-Mar-97	5:00	199.8	10.9	274.3	290.8	10.2	699.4	
05-Mar-97	6:00	202.6	4.8	549.1	291.3	5.0	631.4	
05-Mar-97	7:00	211.4	7.9	926.4	292.0	7.6	543.8	
05-Mar-97	8:00	224.3	5.2	1390.4	293.3	5.0	472.2	
05-Mar-97	9:00	245.0	1.5	1990.1	295.6	1.7	423.8	
05-Mar-97	10:00	274.7	1.8	2557.9	298.7	1.2	404.4	
05-Mar-97	11:00	306.4	0.4	3111.7	302.8	0.3	423.8	
05-Mar-97	12:00	342.4	0.2	3588.6	307.8	0.2	491.7	
05-Mar-97	13:00	376.6	0.1	3989.4	313.5	0.0	610.0	
05-Mar-97	14:00	404.0	0.1	4270.9	319.9	0.1	761.7	
05-Mar-97	15:00	426.9	0.0	4433.7	327.1	0.0	928.4	
05-Mar-97	16:00	451.0	0.0	4516.8	335.4	0.0	1083.4	
05-Mar-97	17:00	481.8	0.0	4509.7	345.6	0.0	1200.2	
05-Mar-97	18:00	521.8	0.0	4426.0	357.9	0.0	1273.5	
05-Mar-97	19:00	572.3	0.0	4277.2	373.0	0.0	1316.1	
05-Mar-97	20:00	629.3	0.0	4086.0	390.8	0.0	1345.8	
05-Mar-97	21:00	682.5	0.0	3846.0	411.3	0.0	1371.3	
05-Mar-97	22:00	723.2	0.0	3571.7	433.7	0.0	1399.0	
05-Mar-97	23:00	747.3	0.0	3274.4	457.5	0.0	1429.3	
06-Mar-97	6-Mar 0:00	755.4	0.5	2969.8	482.2	0.4	1459.1	
06-Mar-97	1:00	750.6	1.9	2647.6	507.9	1.3	1486.4	
06-Mar-97	2:00	736.9	4.8	2325.9	535.8	3.8	1513.0	
06-Mar-97	3:00	717.6	1.1	2012.5	566.7	1.1	1544.2	
06-Mar-97	4:00	695.4	3.9	1708.0	601.9	3.0	1572.7	
06-Mar-97	5:00	672.8	3.3	1425.4	641.3	2.3	1581.3	
06-Mar-97	6:00	653.4	2.8	1214.8	683.8	3.5	1552.6	
06-Mar-97	7:00	642.3	1.1	1093.9	725.6	0.8	1483.3	
06-Mar-97	8:00	632.2	1.5	938.0	763.5	1.4	1383.7	
06-Mar-97	9:00	621.2	0.6	805.5	794.6	1.1	1269.0	
06-Mar-97	10:00	611.9	0.0	692.4	817.1	0.0	1155.8	
06-Mar-97	11:00	606.0	0.1	599.3	830.9	0.6	1054.0	
06-Mar-97	12:00	598.6	1.9	519.0	837.1	1.7	968.3	
06-Mar-97	13:00	591.7	1.8	452.7	836.8	2.0	905.3	
06-Mar-97	14:00	586.4	0.4	399.7	832.8	1.4	880.0	
06-Mar-97	15:00	581.4	3.7	361.1	826.3	3.3	909.3	
06-Mar-97	16:00	578.0	4.1	334.5	818.7	4.1	981.2	
06-Mar-97	17:00	580.1	7.7	317.3	810.7	6.1	1057.8	
06-Mar-97	18:00	585.5	2.6	301.2	803.7	2.4	1088.9	
06-Mar-97	19:00	590.2	2.3	295.3	798.1	2.0	1046.3	
06-Mar-97	20:00	593.8	5.2	286.9	793.5	4.9	946.4	
06-Mar-97	21:00	596.9	4.0	281.5	789.7	3.9	828.5	
06-Mar-97	22:00	601.2	3.8	280.8	787.0	3.4	727.7	
06-Mar-97	23:00	601.7	7.6	307.3	786.6	7.0	653.7	

Fiji Flood Analysis < Rewa River (Gavin) >

		Navolau			Nausori			
		Area (km²)		1961	Area (km²)		2903	
		Rain total (mm)		488	Rain total (mm)		437	
		Q total (mm)		658	Q total (mm)		385	
		Runoff coeffing		1.3	Runoff coeffing		0.9	
Date	Time	Computed Q(m³/s)	Rain (mm)	Observed	Computed Q(m³/s)	Rain (mm)	Observed	Discharge
07-Mar-97	7-Mar 0.00	599.1	4.9	365.7	786.0	4.1	604.8	
07-Mar-97	1:00	600.4	2.3	439.6	786.6	1.7	581.8	
07-Mar-97	2:00	603.5	3.7	528.2	789.9	3.1	595.8	
07-Mar-97	3:00	611.5	3.1	612.5	794.7	2.7	667.8	
07-Mar-97	4:00	640.1	1.9	699.1	800.5	1.4	792.8	
07-Mar-97	5:00	680.8	3.4	774.3	806.9	3.4	938.8	
07-Mar-97	6:00	717.6	3.2	852.7	812.9	2.5	1047.9	
07-Mar-97	7:00	753.7	8.7	929.5	818.3	8.1	1092.8	
07-Mar-97	8:00	797.2	14.1	1031.0	823.9	17.0	1084.2	
07-Mar-97	9:00	842.9	7.8	1150.1	829.9	8.9	1054.0	
07-Mar-97	10:00	895.5	5.6	1257.6	836.7	5.4	1034.2	
07-Mar-97	11:00	954.8	4.4	1372.3	846.8	5.7	1040.3	
07-Mar-97	12:00	1036.1	7.1	1445.6	862.8	5.7	1065.5	
07-Mar-97	13:00	1145.2	11.7	1587.1	891.9	9.2	1109.5	
07-Mar-97	14:00	1234.9	16.8	1770.1	938.2	15.0	1186.6	
07-Mar-97	15:00	1256.9	16.3	1967.4	991.4	13.6	1304.2	
07-Mar-97	16:00	1245.0	12.4	2217.9	1045.3	9.8	1463.1	
07-Mar-97	17:00	1231.2	13.2	2392.8	1101.2	9.9	1635.5	
07-Mar-97	18:00	1259.1	8.2	2463.7	1159.9	6.2	1794.6	
07-Mar-97	19:00	1406.3	8.1	2534.9	1231.1	6.1	1919.3	
07-Mar-97	20:00	1674.3	10.1	2583.4	1322.2	8.8	2002.5	
07-Mar-97	21:00	1916.0	6.9	2631.9	1430.4	5.4	2053.8	
07-Mar-97	22:00	2074.3	5.3	2730.5	1540.7	5.8	2087.2	
07-Mar-97	23:00	2203.9	5.3	2780.2	1636.9	4.0	2123.8	
08-Mar-97	8-Mar 0.00	2472.4	5.3	2909.5	1704.2	4.1	2184.7	
08-Mar-97	1:00	3006.9	7.5	3172.2	1748.0	5.5	2274.4	
08-Mar-97	2:00	3610.7	4.5	3444.7	1794.1	3.5	2395.5	
08-Mar-97	3:00	4251.3	5.3	3606.7	1873.9	4.2	2549.1	
08-Mar-97	4:00	4666.6	6.5	3808.1	2009.1	5.4	2730.7	
08-Mar-97	5:00	4747.7	5.8	3916.8	2181.6	4.4	2942.8	
08-Mar-97	6:00	4706.1	7.3	4026.8	2353.4	6.3	3160.5	
08-Mar-97	7:00	4596.4	5.5	4097.8	2523.2	4.3	3359.5	
08-Mar-97	8:00	4382.6	5.3	4151.1	2763.7	4.0	3526.7	
08-Mar-97	9:00	4099.1	5.2	4181.7	3174.6	3.9	3657.9	
08-Mar-97	10:00	3913.1	3.8	4213.0	3769.6	2.9	3748.9	
08-Mar-97	11:00	3915.0	2.0	4244.4	4418.5	1.5	3808.4	
08-Mar-97	12:00	4107.5	2.7	4275.9	4837.9	2.1	4087.3	
08-Mar-97	13:00	4067.2	2.2	4307.5	4962.8	1.9	4420.2	
08-Mar-97	14:00	3914.8	1.5	4339.2	4926.9	1.6	4529.4	
08-Mar-97	15:00	3841.4	3.9	4371.0	4804.6	3.2	4612.0	
08-Mar-97	16:00	3816.3	3.7	4403.0	4600.2	4.1	4711.7	
08-Mar-97	17:00	3860.1	4.7	4435.0	4378.2	4.5	4837.4	
08-Mar-97	18:00	3758.1	2.9	4467.1	4228.0	2.3	4982.6	
08-Mar-97	19:00	3580.3	1.9	4499.4	4216.6	1.3	5137.2	
08-Mar-97	20:00	3447.5	2.0	4467.1	4278.7	1.6	5275.2	
08-Mar-97	21:00	3317.9	4.4	4435.0	4253.8	3.5	5377.7	4503.0
08-Mar-97	22:00	3111.6	2.4	4403.0	4171.2	6.3	5442.9	
08-Mar-97	23:00	2878.1	3.5	4371.0	4105.4	3.2	5490.9	
09-Mar-97	9-Mar 0.00	2659.9	6.8	4339.2	4078.7	5.0	5527.1	
09-Mar-97	1:00	2473.0	1.7	4250.1	4060.6	1.6	5548.3	4933.0
09-Mar-97	2:00	2357.5	2.3	4114.5	3978.6	1.7	5569.5	
09-Mar-97	3:00	2282.0	0.9	3887.6	3855.8	0.8	5593.9	
09-Mar-97	4:00	2189.4	3.6	3703.2	3738.8	2.5	5627.6	
09-Mar-97	5:00	2099.3	1.7	3505.1	3603.9	1.3	5664.6	
09-Mar-97	6:00	2002.1	1.3	3363.9	3431.0	0.9	5714.1	
09-Mar-97	7:00	1914.6	1.1	3090.4	3236.9	0.8	5760.9	
09-Mar-97	8:00	1894.0	2.0	2941.9	3045.0	1.4	5779.7	
09-Mar-97	9:00	1916.6	1.7	2784.4	2884.0	1.4	5795.4	
09-Mar-97	10:00	1923.4	1.1	2630.4	2766.4	1.0	5801.7	
09-Mar-97	11:00	1951.0	1.8	2480.9	2670.6	2.2	5767.2	
09-Mar-97	12:00	1998.5	1.3	2378.3	2578.8	1.0	5698.6	
09-Mar-97	13:00	2013.5	1.6	2302.9	2486.2	1.2	5615.4	
09-Mar-97	14:00	1973.6	2.4	2229.1	2392.3	1.8	5527.1	
09-Mar-97	15:00	1898.8	3.7	2156.4	2306.3	2.8	5448.9	
09-Mar-97	16:00	1829.9	4.0	2084.3	2244.5	2.8	5377.7	
09-Mar-97	17:00	1765.6	1.5	2013.8	2209.8	1.1	5298.5	
09-Mar-97	18:00	1693.1	1.4	1944.4	2193.1	1.0	5228.9	
09-Mar-97	19:00	1622.7	0.5	1875.6	2192.1	0.4	5185.7	
09-Mar-97	20:00	1570.4	0.8	1808.4	2203.2	0.6	5160.0	
09-Mar-97	21:00	1541.6	0.8	1742.3	2211.4	0.6	5120.1	
09-Mar-97	22:00	1517.1	0.0	1676.9	2201.1	0.0	5049.6	
09-Mar-97	23:00	1490.2	0.7	1613.0	2168.2	0.5	4949.4	

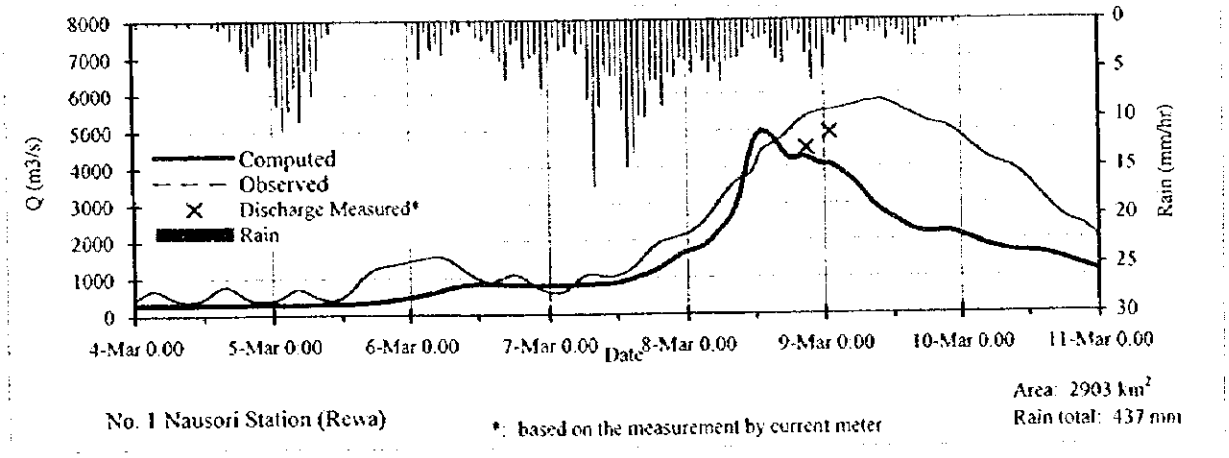
Fiji Flood Analysis < Rewa River (Gavin) >

		Navolau			Nausori			
		Area (km^2)		1961	Area (km^2)		2903	
		Rain total (mm)		488	Rain total (mm)		437	
		Q total (mm)		658	Q total (mm)		385	
		Runoff coeffing		1.3	Runoff coeffing		0.9	
Date	Time	Computed Q(m^3/s)	Rain (mm)	Observed	Computed Q(m^3/s)	Rain (mm)	Observed	Discharge
10-Mar-97	10-Mar 0:00	1459.9	0.0	1552.7	2119.3	0.0	4823.9	
10-Mar-97	1:00	1437.4		1485.1	2062.0		4688.0	
10-Mar-97	2:00	1443.0		1431.1	1999.1		4562.8	
10-Mar-97	3:00	1460.6		1384.5	1935.2		4442.9	
10-Mar-97	4:00	1468.9		1338.0	1876.0		4323.2	
10-Mar-97	5:00	1452.2		1292.2	1825.9		4216.0	
10-Mar-97	6:00	1410.7		1274.5	1783.9		4139.3	
10-Mar-97	7:00	1354.7		1247.5	1746.8		4087.3	
10-Mar-97	8:00	1293.2		1230.0	1712.7		4038.1	
10-Mar-97	9:00	1229.7		1212.2	1683.4		3977.8	
10-Mar-97	10:00	1166.0		1168.6	1663.2		3877.6	
10-Mar-97	11:00	1104.3		1168.6	1652.5		3744.5	
10-Mar-97	12:00	1045.8		1151.2	1646.5		3585.5	
10-Mar-97	13:00	991.0		1142.5	1637.1		3405.7	
10-Mar-97	14:00	940.4		1116.9	1618.3		3225.8	
10-Mar-97	15:00	893.9		1099.7	1587.9		3057.3	
10-Mar-97	16:00	851.4		1091.2	1547.8		2894.7	
10-Mar-97	17:00	812.7		1082.6	1500.4		2740.8	
10-Mar-97	18:00	777.3		1074.4	1448.7		2613.4	
10-Mar-97	19:00	745.0		1057.4	1394.8		2522.2	
10-Mar-97	20:00	715.5		1040.5	1340.5		2464.4	
10-Mar-97	21:00	688.4		1024.2	1287.3		2410.7	
10-Mar-97	22:00	663.4		1007.4	1235.8		2319.6	
10-Mar-97	23:00	640.5		1007.4	1186.8		2177.7	
11-Mar-97	11-Mar 0:00	619.3		998.8	1140.5		1999.9	
MAX		4747.7	16.8	4516.8	4962.8	17.0	5801.7	
Rain Total			488.2			436.5		



No. 6 Navolau Station (Rewa)

Area: 1961 km^2
Rain total: 488 mm



No. 1 Nausori Station (Rewa)

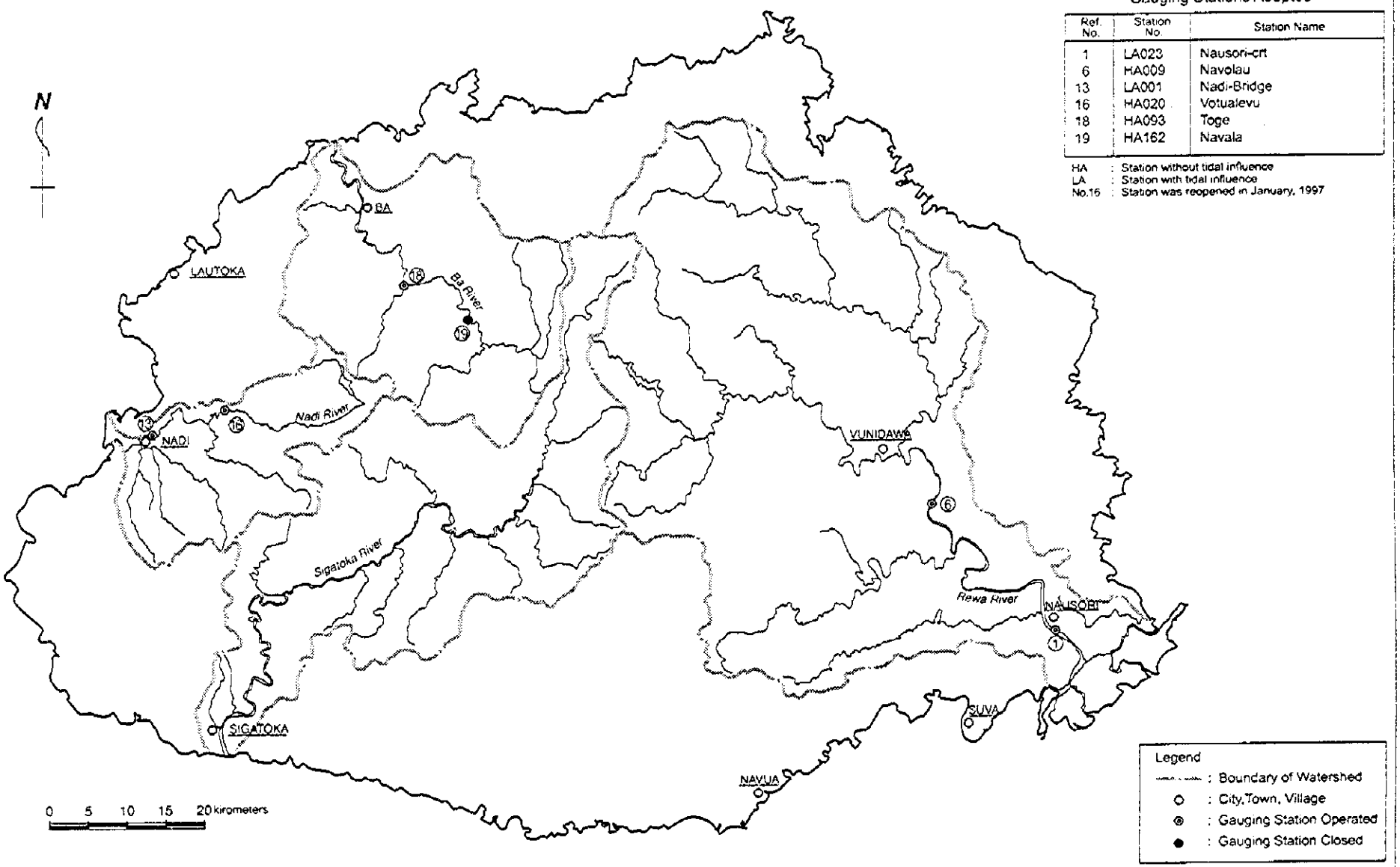
*: based on the measurement by current meter

Area: 2903 km^2
Rain total: 437 mm

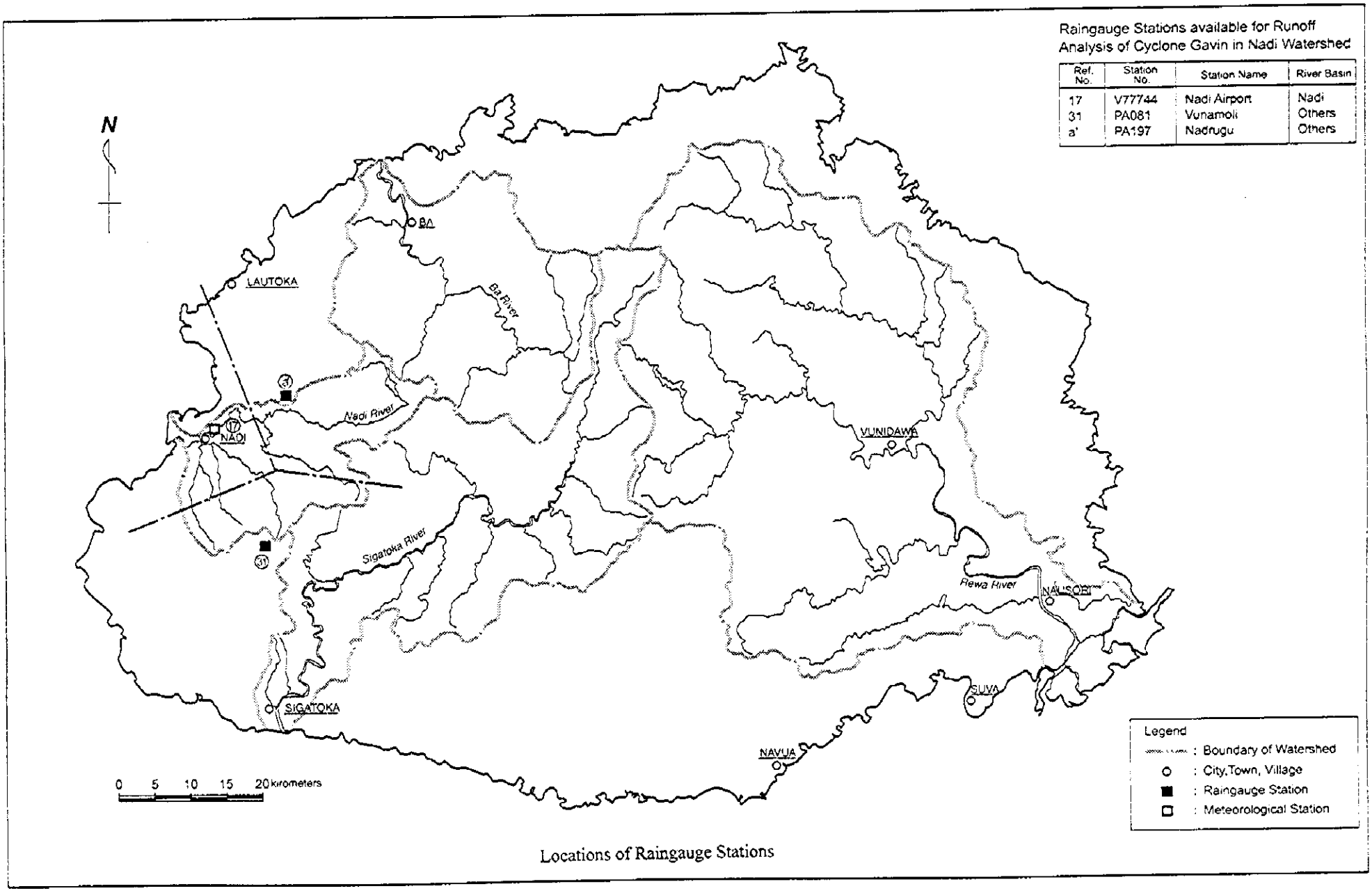
Gauging Stations Adopted

Ref. No.	Station No.	Station Name
1	LA023	Nausori-crt
6	HA009	Navolau
13	LA001	Nadi-Bridge
16	HA020	Votualevu
18	HA093	Toge
19	HA162	Navala

HA : Station without tidal influence
LA : Station with tidal influence
No.16 : Station was reopened in January, 1997



Locations of Gauging Stations



Locations of Raingauge Stations

Fiji flood analysis (1) < Nadi River (Gavin) >
Rain

Original Data

	Date	Time	PA197	V77744	PA081
1	06-Mar-97	6-Mar 0.00			
2	06-Mar-97	1:00	0.0	0.0	0.0
3	06-Mar-97	2:00	0.0	0.0	0.0
4	06-Mar-97	3:00	0.0	0.0	0.0
5	06-Mar-97	4:00	0.5	0.0	0.0
6	06-Mar-97	5:00	0.5	0.0	0.0
7	06-Mar-97	6:00	0.0	1.0	0.0
8	06-Mar-97	7:00	0.0	1.2	0.0
9	06-Mar-97	8:00	0.0	0.0	0.0
10	06-Mar-97	9:00	0.0	0.0	0.0
11	06-Mar-97	10:00	0.0	0.0	0.0
12	06-Mar-97	11:00	0.0	0.0	0.0
13	06-Mar-97	12:00	0.0	0.0	0.0
14	06-Mar-97	13:00	0.0	0.0	0.0
15	06-Mar-97	14:00	0.0	0.0	0.0
16	06-Mar-97	15:00	0.0	0.0	0.0
17	06-Mar-97	16:00	2.0	0.9	0.0
18	06-Mar-97	17:00	3.5	1.3	0.5
19	06-Mar-97	18:00	1.5	1.2	0.0
20	06-Mar-97	19:00	0.0	0.8	0.0
21	06-Mar-97	20:00	0.0	0.2	0.5
22	06-Mar-97	21:00	1.5	0.0	0.0
23	06-Mar-97	22:00	1.5	0.8	0.5
24	06-Mar-97	23:00	1.0	0.2	0.0
25	07-Mar-97	7-Mar 0.00	3.0	0.2	0.5
26	07-Mar-97	1:00	0.0	1.0	0.5
27	07-Mar-97	2:00	1.0	0.6	0.5
28	07-Mar-97	3:00	0.5	1.4	1.0
29	07-Mar-97	4:00	0.0	0.4	0.5
30	07-Mar-97	5:00	0.0	0.1	0.0
31	07-Mar-97	6:00	0.0	0.6	0.5
32	07-Mar-97	7:00	0.0	0.1	0.5
33	07-Mar-97	8:00	5.5	0.6	2.5
34	07-Mar-97	9:00	3.0	2.6	3.0
35	07-Mar-97	10:00	1.5	0.0	0.5
36	07-Mar-97	11:00	2.0	0.0	2.0
37	07-Mar-97	12:00	2.0	2.2	0.5
38	07-Mar-97	13:00	3.0	0.2	1.0
39	07-Mar-97	14:00	6.0	2.0	3.0
40	07-Mar-97	15:00	13.0	5.3	6.0
41	07-Mar-97	16:00	28.0	14.7	19.0
42	07-Mar-97	17:00	16.5	37.2	20.0
43	07-Mar-97	18:00	24.0	22.4	12.5
44	07-Mar-97	19:00	24.0	9.5	37.5
45	07-Mar-97	20:00	38.5	22.1	13.0
46	07-Mar-97	21:00	18.5	12.5	26.0
47	07-Mar-97	22:00	33.0	18.4	19.5
48	07-Mar-97	23:00	54.0	15.7	14.0
49	08-Mar-97	8-Mar 0.00	14.0	47.3	24.5
50	08-Mar-97	1:00	10.0	13.1	24.0
51	08-Mar-97	2:00	23.5	4.1	14.5
52	08-Mar-97	3:00	12.5	7.0	9.0
53	08-Mar-97	4:00	8.0	11.3	10.5
54	08-Mar-97	5:00	9.0	7.3	5.0
55	08-Mar-97	6:00	1.0	1.1	6.5
56	08-Mar-97	7:00	1.5	4.3	5.5
57	08-Mar-97	8:00	5.0	4.4	5.5
58	08-Mar-97	9:00	9.5	9.7	6.0
59	08-Mar-97	10:00	3.5	10.5	11.0
60	08-Mar-97	11:00	5.0	17.4	13.0
61	08-Mar-97	12:00	12.5	10.7	26.0
62	08-Mar-97	13:00	12.5	8.4	14.5
63	08-Mar-97	14:00	5.0	0.0	1.0
64	08-Mar-97	15:00	0.0	3.7	2.0
65	08-Mar-97	16:00	0.0	1.1	2.0
66	08-Mar-97	17:00	0.5	0.6	2.5

Fiji flood analysis (1) < Nadi River (Gavin) >
Rain

Original Data

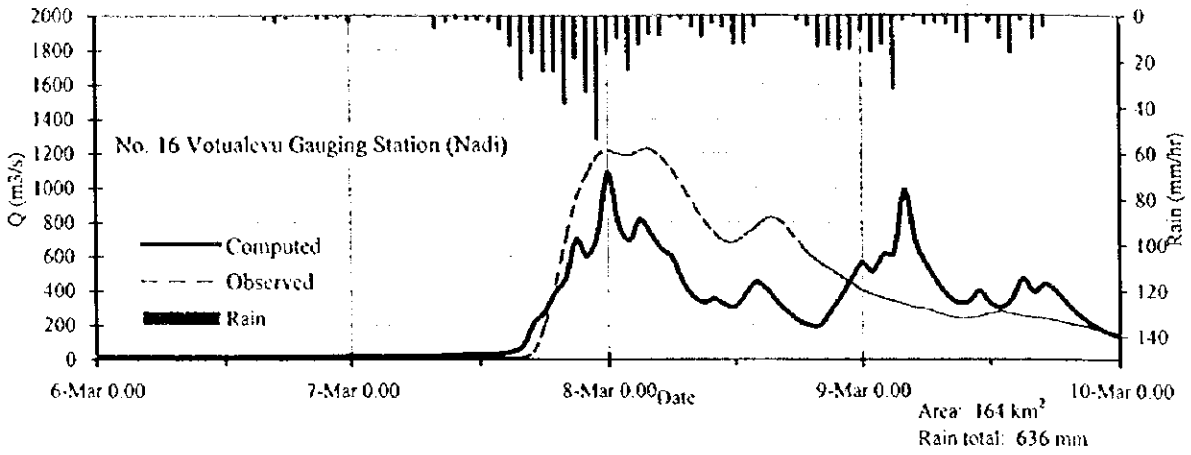
	Date	Time	PA197	V77744	PA081
67	08-Mar-97	18:00	2.0	6.7	3.5
68	08-Mar-97	19:00	4.5	0.3	5.0
69	08-Mar-97	20:00	13.5	1.2	4.0
70	08-Mar-97	21:00	13.0	1.0	1.0
71	08-Mar-97	22:00	14.5	1.1	4.5
72	08-Mar-97	23:00	14.5	0.4	1.5
73	09-Mar-97	9-Mar 0:00	6.5	0.6	5.0
74	09-Mar-97	1:00	16.0	0.6	1.0
75	09-Mar-97	2:00	12.5	0.0	2.0
76	09-Mar-97	3:00	32.0	2.1	2.0
77	09-Mar-97	4:00	2.5	0.0	0.0
78	09-Mar-97	5:00	1.0	0.0	0.5
79	09-Mar-97	6:00	4.0	0.0	0.0
80	09-Mar-97	7:00	3.5	0.0	1.0
81	09-Mar-97	8:00	4.0	0.0	4.5
82	09-Mar-97	9:00	8.0	4.3	2.0
83	09-Mar-97	10:00	12.0	7.2	9.5
84	09-Mar-97	11:00	1.0	0.0	0.0
85	09-Mar-97	12:00	3.5	0.2	9.5
86	09-Mar-97	13:00	10.5	0.7	1.5
87	09-Mar-97	14:00	16.5	0.0	6.0
88	09-Mar-97	15:00	2.5	0.0	0.0
89	09-Mar-97	16:00	10.5	0.0	4.0
90	09-Mar-97	17:00	5.0	0.0	0.5
91	09-Mar-97	18:00	0.5	0.0	0.5
92	09-Mar-97	19:00	0.0	0.0	0.5
93	09-Mar-97	20:00	0.0	0.0	0.0
94	09-Mar-97	21:00	0.0	0.0	0.0
95	09-Mar-97	22:00	0.0	0.0	0.0
96	09-Mar-97	23:00	0.0	0.0	0.0
97	10-Mar-97	10-Mar 0:00	0.0	0.0	0.0
		Total	636.0	365.8	438.0

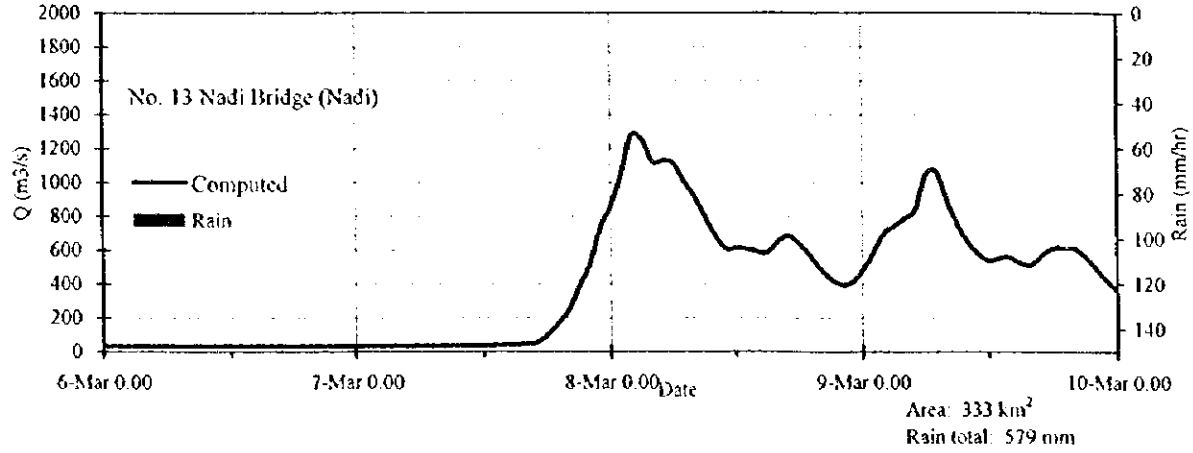
Fiji Flood Analysis < Nadi River (Gavin) >

		Votualevu Gauging			Nadi Bridge		
		Area (km²)		164	Area (km²)		333
		Rain total (mm)		636	Rain total (mm)		579
Date	Time	Computed Q(m³/s)	Rain	Observed	Computed Q(m³/s)	Rain	Observed
06-Mar-97	6-Mar 0.00	18.4		8.3	32.8		
06-Mar-97	1:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	2:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	3:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	4:00	18.4	0.5	8.3	32.8	0.4	
06-Mar-97	5:00	18.4	0.5	8.3	32.8	0.4	
06-Mar-97	6:00	18.4	0.0	8.3	32.8	0.2	
06-Mar-97	7:00	18.4	0.0	8.3	32.8	0.2	
06-Mar-97	8:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	9:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	10:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	11:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	12:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	13:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	14:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	15:00	18.4	0.0	8.3	32.8	0.0	
06-Mar-97	16:00	18.4	2.0	8.3	32.8	1.6	
06-Mar-97	17:00	18.4	3.5	8.3	32.8	2.9	
06-Mar-97	18:00	18.6	1.5	8.3	32.8	1.4	
06-Mar-97	19:00	18.7	0.0	8.3	32.8	0.1	
06-Mar-97	20:00	18.8	0.0	8.3	32.8	0.0	
06-Mar-97	21:00	18.8	1.5	8.3	32.9	1.2	
06-Mar-97	22:00	19.0	1.5	8.3	33.0	1.3	
06-Mar-97	23:00	19.3	1.0	8.3	33.0	0.8	
07-Mar-97	7-Mar 0.00	19.5	3.0	8.3	33.1	2.3	
07-Mar-97	1:00	20.5	0.0	8.3	33.3	0.2	
07-Mar-97	2:00	20.6	1.0	8.3	33.4	0.9	
07-Mar-97	3:00	21.1	0.5	8.3	33.7	0.7	
07-Mar-97	4:00	21.4	0.0	8.3	34.1	0.1	
07-Mar-97	5:00	21.5	0.0	8.3	34.4	0.0	
07-Mar-97	6:00	21.5	0.0	8.9	34.9	0.1	
07-Mar-97	7:00	21.4	0.0	8.9	35.2	0.0	
07-Mar-97	8:00	21.4	5.5	8.9	35.5	4.5	
07-Mar-97	9:00	24.6	3.0	8.9	35.7	2.9	
07-Mar-97	10:00	27.4	1.5	8.9	36.0	1.2	
07-Mar-97	11:00	28.9	2.0	9.5	36.5	1.6	
07-Mar-97	12:00	31.1	2.0	9.5	37.6	1.9	
07-Mar-97	13:00	33.4	3.0	10.2	39.2	2.4	
07-Mar-97	14:00	37.2	6.0	11.1	40.9	5.1	
07-Mar-97	15:00	47.3	13.0	12.7	43.1	11.2	
07-Mar-97	16:00	80.9	28.0	17.1	46.4	25.3	
07-Mar-97	17:00	213.4	16.5	47.1	55.8	20.1	
07-Mar-97	18:00	276.9	24.0	200.9	101.5	23.0	
07-Mar-97	19:00	391.8	24.0	433.6	168.5	22.6	
07-Mar-97	20:00	479.7	38.5	709.0	247.9	34.0	
07-Mar-97	21:00	703.0	18.5	942.2	389.1	18.0	
07-Mar-97	22:00	605.7	33.0	1081.8	520.5	29.7	
07-Mar-97	23:00	734.2	54.0	1191.4	734.0	45.1	
08-Mar-97	8-Mar 0.00	1092.1	14.0	1216.8	862.8	20.1	
08-Mar-97	1:00	793.7	10.0	1204.1	1041.8	11.5	
08-Mar-97	2:00	696.0	23.5	1191.4	1275.1	19.8	
08-Mar-97	3:00	816.9	12.5	1216.8	1261.3	11.3	
08-Mar-97	4:00	739.6	8.0	1229.9	1124.9	8.7	
08-Mar-97	5:00	649.1	9.0	1178.6	1128.4	8.5	
08-Mar-97	6:00	597.6	1.0	1106.4	1113.7	1.5	
08-Mar-97	7:00	454.6	1.5	1009.5	1006.2	2.3	
08-Mar-97	8:00	367.1	5.0	907.9	915.3	5.0	
08-Mar-97	9:00	332.3	9.5	811.3	796.8	9.3	
08-Mar-97	10:00	355.3	3.5	742.1	683.2	5.2	
08-Mar-97	11:00	319.2	5.0	691.3	610.3	7.6	
08-Mar-97	12:00	310.1	12.5	682.8	612.0	13.1	
08-Mar-97	13:00	381.1	12.5	726.6	608.6	11.9	
08-Mar-97	14:00	447.9	5.0	771.3	592.0	4.0	
08-Mar-97	15:00	410.9	0.0	821.9	586.1	0.7	
08-Mar-97	16:00	334.1	0.0	821.9	651.1	0.3	
08-Mar-97	17:00	274.2	0.5	761.2	684.4	0.7	
08-Mar-97	18:00	227.8	2.0	682.8	637.1	2.8	
08-Mar-97	19:00	202.3	4.5	618.8	569.4	3.9	
08-Mar-97	20:00	201.6	13.5	566.0	490.0	10.9	
08-Mar-97	21:00	284.1	13.0	528.3	432.4	10.3	

Fiji Flood Analysis < Nadi River (Gavin) >

		Votualevu Gauging			Nadi Bridge		
		Area (km²)		164	Area (km²)		333
		Rain total (mm)		636	Rain total (mm)		579
Date	Time	Computed Q(m³/s)	Rain	Observed	Computed Q(m³/s)	Rain	Observed
08-Mar-97	22:00	371.4	14.5	486.3	397.8	11.7	
08-Mar-97	23:00	474.2	14.5	446.2	409.8	11.4	
09-Mar-97	9-Mar 0:00	561.8	6.5	402.5	477.1	5.5	
09-Mar-97	1:00	513.9	16.0	380.1	579.3	12.5	
09-Mar-97	2:00	613.9	12.5	357.2	695.7	9.7	
09-Mar-97	3:00	626.1	32.0	340.3	740.0	25.0	
09-Mar-97	4:00	988.1	2.5	324.1	785.9	1.9	
09-Mar-97	5:00	693.4	1.0	304.4	837.6	0.8	
09-Mar-97	6:00	553.1	4.0	294.1	1045.9	3.1	
09-Mar-97	7:00	452.4	3.5	274.4	1066.0	2.8	
09-Mar-97	8:00	373.1	4.0	255.4	896.2	3.4	
09-Mar-97	9:00	328.5	8.0	242.8	753.3	7.0	
09-Mar-97	10:00	338.7	12.0	242.8	647.2	11.1	
09-Mar-97	11:00	398.6	1.0	252.0	579.5	0.8	
09-Mar-97	12:00	328.9	3.5	269.5	539.5	3.4	
09-Mar-97	13:00	306.3	10.5	279.4	553.4	8.3	
09-Mar-97	14:00	352.0	16.5	269.5	556.2	13.1	
09-Mar-97	15:00	471.9	2.5	255.4	522.3	1.9	
09-Mar-97	16:00	395.7	10.5	247.4	513.8	8.4	
09-Mar-97	17:00	441.6	5.0	242.8	576.7	3.9	
09-Mar-97	18:00	402.1	0.5	229.4	612.9	0.4	
09-Mar-97	19:00	328.1	0.0	216.6	614.0	0.0	
09-Mar-97	20:00	268.2	0.0	203.9	608.8	0.0	
09-Mar-97	21:00	219.8	0.0	189.0	558.9	0.0	
09-Mar-97	22:00	182.8	0.0	173.6	488.3	0.0	
09-Mar-97	23:00	155.0	0.0	162.7	421.0	0.0	
10-Mar-97	10-Mar 0:00	133.8	0.0	149.4	364.0	0.0	
MAX		1092.1	54.0	1229.9	1275.1	45.1	
Rain Total			636.0			578.9	


No. 16 Votualevu Gauging Station (Nadi)
Computed
Observed
Rain
Q (m3/s)
Rain (mm/hr)
6-Mar 0.00
7-Mar 0.00
8-Mar 0.00
9-Mar 0.00
10-Mar 0.00
Date
Area: 164 km2
Rain total: 636 mm


No. 13 Nadi Bridge (Nadi)
Computed
Rain
Q (m3/s)
Rain (mm/hr)
6-Mar 0.00
7-Mar 0.00
8-Mar 0.00
9-Mar 0.00
10-Mar 0.00
Date
Area: 333 km2
Rain total: 579 mm

DATA 5

CROSS SECTIONS OF 4 RIVERS

Explanation

Cross sections of 4 rivers surveyed by the Study Team are saved in a floppy disk. The cross section survey was conducted every 500 m and it covered the following area; however, data for Nadi tributaries (Malakua and Nawaka) is not included in the floppy disk.

Rewa: from river mouth to 50 km upstream

Sigatoka : from river mouth to 50 km upstream

Nadi: from river mouth to 25 km upstream
- Malakua: from confluence with Nadi river to 3 km upstream
- Nawaka: from confluence with Nadi river to 7 km upstream

Ba: from river mouth to 35 km upstream.

Data is saved as a text format and an example is shown below. There are four columns, river name, distance from river mouth, X coordinates, Y coordinates and number of data set ("count"). In compliance with the request from the counterpart agency (Drainage and Irrigation Division, MAFF), the results of the cross section survey were drawn, looking upstream of river. Therefore, (-) X coordinates denote the left hand side, looking upstream of river, while (+) X coordinates denote the right hand side. Y coordinates shown elevations above mean sea level.

	DISTANCE	X	Y	count
REWA	16000	-95.93	2.82	31
		-84.17	1.58	
		-51.66	1.61	
		-49.49	-0.37	
		-39.82	-2.35	
		-30.5	-3.2	
		-24.4	-3.3	
		-15.2	-3.3	
		0	-3.8	
		12.2	-3.3	
		19.7	-3.1	
		33.2	-3.4	
		46.7	-3.5	
		54.3	-3.3	
		61	-3.3	
		88	-3.5	
		108.9	-3.6	
		125.4	-3.6	
		141.9	-3.5	
		158.5	-3.2	
		175	-3	
		188.6	-2.9	
		204.1	-2.5	
		225.4	-2.4	
		233.2	-0.5	
		247.27	-0.08	
		263.83	0.23	
		266.03	1.73	
		295.05	1.42	
		303	5.18	
		327.09	5.47