APPENDIX A

Natural Rafts Output 20 year

Run started at: 7th June 2004 14:54:11

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 30.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1 (%)	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	015	.0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	.025	.015	.0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	.025	.015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	015	.0138	.0002	5.000
sub 10	0.4200	0.0700	1.000	30.00	.0100	100.0	.025	.015	.0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100.0	.025	.015	.0314	0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	0100	100.0	.025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	015	.0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	.025	.015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	025	.015	.0047	0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	.0100	100.0	.025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	.0100	100.0	.025	.015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	.025	.015	.0013	0.000	16.00
BG ck	00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init Loss #1 (mm)	Init Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.0232	15.00	0.000
sub 2	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.1863	15.00	0.000
sub 3	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.0247	18.00	0.000
sub 4	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.1052	18.00	0.000
IBG ck	99.560	20.00	0.000	5.000	0.000	28.030	0.000	0.3353	15.00	0.000
sub 9	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.2319	15.00	0.000
sub 10	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.0790	25.00	0.000
sub 5	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.0392	15.00	0.000
sub 7	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.2257	25.00	0.000
sub 20	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.1608	15.00	0.000
C ck	99.560	20.00	0.000	5.000	0.000	28.030	0.000	1.054	15.00	0.000
sub 21	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.4581	15.00	0.000
sub 19	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.1812	15.00	0.000
sub 22	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.2956	15.00	0.000
sub 18	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.3754	15.00	0.000
sub 17	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.3387	15.00	0.000
sub 16	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.1862	15.00	0.000
sub 15	99.560	20.00	2.500	5.000	0.000	28.030	47.280	0.0498	14.00	0.000
BG ck	99.560	20.00	0.000	5.000	0.000	28.030	0.000	1.883	15.00	0.000
L R	99.560	20.00	0.000	5.000	0.000	28.030	0.000	2.938	15.00	0.000

LINK sub 1 1.000

ESTIMATED VOLUME (CU METRES*10**3) = 0.3914E-01

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Belrose

Results for period from  0: 0.0  1/ 1/1991
                   to  5: 0.0  1/ 1/1991
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ROUIING INCREMENI (MINS)	=	1.00
STORM DURAIION (MINS)	=	60.
REIURN PERIOD (YRS)	=	20.
BX	=	1.0000
TOIAL OF FIRSI SUB-AREAS (km2)	=	8.36
TOTAI OF SECOND SUB-AREAS (km2)	=	1 45
TOTAI OF AII SUB-AREAS (km2)	=	9.81

SUMMARY OF CAICHMENI AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No.
sub 1	0 0700	0..0100	2..100	2..100	0.000	100..0	025	..015	..0045	0.000	1.000
sub 2	0.6400	0..1100	3..300	3 300	.0100	100..0	.025	..015	..0114	.0003	2..000
sub 3	0..0800	0 0100	2..100	2..100	0100	100..0	.025	.015	.0048	0.000	3..000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	..025	.015	.0100	.0002	4 000
LBG ck	.00001	0.000	11.30	0..000	.0100	0.000	..025	0.00	0.000	0.000	1 001
sub 9	0 9000	0..1600	2.900	5.700	1.000	99.00	.025	..015	..0138	.0002	5.000
sub 10	0.4200	0..0700	1..000	30.00	..0100	100..0	.025	..015	..0165	0.000	6.000
sub 5	0.0900	0 0200	3..600	3 600	.0100	100..0	.025	..015	.0039	..0001	7..000
sub 7	1.440	0.2500	1 000	8.700	0100	100.0	..025	015	0314	.0002	8..000
sub 20	0.4500	0.0800	4.000	4..000	.0100	100.0	..025	.015	.0086	.0002	9 000
C ck	..00001	0.000	11.30	0..000	..0100	0.000	..025	0.00	0.000	0.000	1.002
sub 21	1.180	0..2100	9..000	9..000	..0100	100..0	025	..015	..0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100..0	.025	..015	..0088	.0002	11.00
sub 22	0..5200	0.0900	15..70	15.70	0100	100.0	.025	..015	.0047	..0001	12.00
sub 18	0..6300	0..1100	21..00	21..00	0100	100.0	..025	015	0045	..0001	13.00
sub 17	0 6300	0..1100	14..30	14..30	.0100	100 0	..025	015	.0054	.0001	14..00
sub 16	0.3000	0..0500	17 80	17.80	..0100	100.0	025	.015	.0033	0 000	15..00
sub 15	0.0800	0.0100	30.00	8 000	..0100	100.0	025	.015	.0013	0 000	16 00
BG ck	.00001	0..000	11..30	0 000	.0100	0..000	.025	0.00	0 000	0.000	10.00
L R	..00001	0 000	11..30	0.000	0100	0 000	..025	0..00	0 000	0..000	1.003

Link Label	Average Intensity (mm/h)	Init.. Ioss #1 (mm)	#2	Cont.. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Link Lag mins
sub 1	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0..0314	25..00	0..000
sub 2	70..056	20 00	2..500	5..000	0..000	46 306	67..556	0..2526	25..00	0 000
sub 3	70..056	20..00	2..500	5..000	0 000	46..306	67..556	0..0336	26..00	0..000
sub 4	70 056	20..00	2..500	5..000	0 000	46..306	67..556	0 1607	25 00	0..000
IBG ck	70..056	20..00	0 000	5 000	0..000	46..306	0..000	0 4782	25..00	0..000
sub 9	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0..3254	29..00	0..000
sub 10	70..056	20..00	2..500	5..000	0..000	46..306	67 556	0..1177	32..00	0..000
sub 5	70..056	20..00	2..500	5..000	0..000	46 306	67..556	0..0489	25..00	0..000
sub 7	70 056	20..00	2..500	5..000	0..000	46..306	67..556	0..3254	35..00	0..000
sub 20	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0.2127	25..00	0..000
C ck	70..056	20..00	0 000	5..000	0..000	46..306	0..000	1.439	25..00	0..000
sub 21	70..056	20..00	2..500	5..000	0..000	46..306	67 556	0..6338	25..00	0..000
sub 19	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0..2439	25..00	0..000
sub 22	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0..3123	25..00	0 000
sub 18	70..056	20..00	2..500	5 000	0..000	46..306	67..556	0..3853	25..00	0..000
sub 17	70..056	20..00	2 500	5..000	0..000	46..306	67..556	0 3731	25 00	0..000
sub 16	70..056	20..00	2..500	5..000	0..000	46..306	67..556	0..1840	25..00	0..000
sub 15	70 056	20..00	2..500	5..000	0..000	46..306	67 556	0..0483	24..00	0..000
BG ck	70 056	20..00	0..000	5..000	0..000	46..306	0..000	2..180	25..00	0..000
L R	70..056	20..00	0..000	5..000	0 000	46..306	0..000	3..619	25..00	0..000

LINK sub 1 1..000

ESTIMATED VOIUME (CU METRES*10**3)	=	0.4707E-01
ESIIMAIED PEAK FLOW (CUMECS)	=	0.04
ESTIMAIED IIME TO PEAK (MINS)	=	30..00

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################################################################################
Belrose

Results for period from  0: 0.0  1/ 1/1991
                   to  5: 0.0  1/ 1/1991
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ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 90
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Catch. Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	.015	.0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	0100	100.0	.025	015	0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	025	015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	.025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	.015	.0138	.0002	5.000
sub 10	0.4200	0.0700	1.000	30.00	0100	100.0	.025	015	0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	025	015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100.0	.025	.015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	.0100	100.0	.025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	.015	.0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	025	015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	025	.015	.0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	0100	100.0	.025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	0100	100.0	.025	.015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	025	.015	.0013	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. loss #1 (mm)	Init. loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
sub 1	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.0356	30.00	0.000
sub 2	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.3096	30.00	0.000
sub 3	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.0391	30.00	0.000
sub 4	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.1991	30.00	0.000
IBG ck	54.737	20.00	0.000	5.000	0.000	55.855	0.000	0.5833	30.00	0.000
sub 9	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.4048	30.00	0.000
sub 10	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.1449	30.00	0.000
sub 5	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.0533	30.00	0.000
sub 7	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.3579	30.00	0.000
sub 20	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.2437	30.00	0.000
C ck	54.737	20.00	0.000	5.000	0.000	55.855	0.000	1.788	30.00	0.000
sub 21	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.6852	30.00	0.000
sub 19	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.2842	30.00	0.000
sub 22	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.3322	30.00	0.000
sub 18	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.4091	30.00	0.000
sub 17	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.3967	30.00	0.000
sub 16	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.1951	30.00	0.000
sub 15	54.737	20.00	2.500	5.000	0.000	55.855	79.605	0.0514	29.00	0.000
BG ck	54.737	20.00	0.000	5.000	0.000	55.855	0.000	2.353	30.00	0.000
L R	54.737	20.00	0.000	5.000	0.000	55.855	0.000	4.141	30.00	0.000


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################################################################################
Belrose

Results for period from  0: 0.0  1/ 1/1991
                   to  5: 0.0  1/ 1/1991
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ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 8.36
IOIAL OF SECOND SUB-AREAS (km2) = 1.45
IOIAI OF AII SUB-AREAS (km2) = 9.81

SUMMARY OF CAICHMENT AND RAINFALL DAIA

Link Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1	#2	Pern #1	#2	B #1	#2	Iink No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100 0	.025	015	.0045	0.000	1.000
sub 2	0 6400	0.1100	3.300	3 300	.0100	100.0	.025	.015	.0114	.0003	2 000
sub 3	0.0800	0.0100	2 100	2.100	.0100	100.0	.025	.015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	.025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0 9000	0.1600	2.900	5.700	1.000	99.00	.025	015	.0138	.0002	5 000
sub 10	0.4200	0 0700	1 000	30.00	.0100	100.0	.025	.015	.0165	0.000	6 000
sub 5	0.0900	0 0200	3 600	3.600	.0100	100.0	025	.015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100 0	.025	.015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4 000	.0100	100.0	.025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0 2100	9.000	9.000	0100	100.0	025	.015	.0095	.0002	10 00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100 0	.025	.015	0088	.0002	11.00
sub 22	0 5200	0.0900	15.70	15.70	.0100	100 0	.025	.015	.0047	0001	12.00
sub 18	0.6300	0 1100	21.00	21.00	0100	100.0	.025	015	.0045	.0001	13.00
sub 17	0.6300	0 1100	14.30	14.30	0100	100.0	025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	.0100	100.0	025	.015	.0033	0.000	15 00
sub 15	0.0800	0.0100	30.00	8 000	.0100	100.0	.025	.015	.0013	0.000	16.00
BG ck	00001	0.000	11.30	0 000	.0100	0.000	.025	0 00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	0100	0.000	.025	0 00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	45.779	20 00	2.500	5 000	0.000	63.475	89.059	0.0330	38.00	0 000
sub 2	45.779	20.00	2.500	5 000	0 000	63 475	89 059	0.2934	40 00	0.000
sub 3	45 779	20.00	2 500	5.000	0.000	63.475	89.059	0.0368	39.00	0.000
sub 4	45.779	20.00	2.500	5.000	0.000	63.475	89.059	0.1836	40.00	0.000
IBG ck	45.779	20 00	0.000	5.000	0.000	63.475	0.000	0.5464	40.00	0.000
sub 9	45.779	20.00	2.500	5 000	0 000	63.475	89.059	0.4004	40.00	0 000
sub 10	45.779	20.00	2 500	5.000	0.000	63 475	89 059	0.1443	40 00	0.000
sub 5	45 779	20.00	2.500	5.000	0.000	63.475	89.059	0 0477	36.00	0.000
sub 7	45.779	20.00	2.500	5.000	0.000	63.475	89.059	0 3525	40.00	0.000
sub 20	45.779	20.00	2.500	5.000	0.000	63.475	89.059	0.2183	38.00	0 000
C ck	45.779	20.00	0.000	5 000	0 000	63 475	0 000	1.702	40 00	0.000
sub 21	45 779	20.00	2 500	5.000	0.000	63.475	89.059	0.6127	36 00	0.000
sub 19	45.779	20.00	2.500	5.000	0.000	63.475	89.059	0.2563	38.00	0.000
sub 22	45.779	20 00	2.500	5.000	0.000	63.475	89.059	0 3083	35.00	0.000
sub 18	45.779	20.00	2.500	5.000	0 000	63.475	89.059	0.3865	35.00	0.000
sub 17	45 779	20.00	2 500	5.000	0.000	63.475	89 059	0.3654	35 00	0.000
sub 16	45 779	20.00	2.500	5.000	0.000	63.475	89.059	0.1858	35.00	0.000
sub 15	45.779	20.00	2.500	5.000	0.000	63.475	89.059	0.0491	34.00	0.000
BG ck	45.779	20.00	0.000	5 000	0 000	63 475	0.000	2.139	35.00	0.000
L R	45.779	20.00	0 000	5.000	0 000	63.475	0.000	3.560	36.00	0 000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 180.
RETURN PERIOD (YRS) = 20.
BX = 1.0000

TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	Catch Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	.015	.0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	.025	.015	.0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	.025	.015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	.025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	.015	.0138	.0002	5.000
sub 10	0.4200	0.0700	1.000	30.00	.0100	100.0	.025	.015	.0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100.0	.025	.015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	.0100	100.0	.025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	.015	.0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	.025	.015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	.025	.015	.0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	.0100	100.0	.025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	.0100	100.0	.025	.015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	.025	.015	.0013	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont Ioss #1 (mm/h)	Cont Ioss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
sub 1	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.0227	45.00	0.000
sub 2	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.2100	45.00	0.000
sub 3	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.0255	45.00	0.000
sub 4	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.1324	45.00	0.000
IBG ck	35.485	20.00	0.000	5.000	0.000	73.621	0.000	0.3907	45.00	0.000
sub 9	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.2907	45.00	0.000
sub 10	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.1105	45.00	0.000
sub 5	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.0314	45.00	0.000
sub 7	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.2887	45.00	0.000
sub 20	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.1506	45.00	0.000
C ck	35.485	20.00	0.000	5.000	0.000	73.621	0.000	1.263	45.00	0.000
sub 21	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.3960	45.00	0.000
sub 19	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.1761	45.00	0.000
sub 22	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.1739	45.00	0.000
sub 18	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.2110	45.00	0.000
sub 17	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.2110	43.00	0.000
sub 16	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.0999	38.00	0.000
sub 15	35.485	20.00	2.500	5.000	0.000	73.621	103.95	0.0258	34.00	0.000
BG ck	35.485	20.00	0.000	5.000	0.000	73.621	0.000	1.293	45.00	0.000
I R	35.485	20.00	0.000	5.000	0.000	73.621	0.000	2.556	45.00	0.000

LINK sub 1 1.000

##########
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##########

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 270.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	.015	0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	.025	.015	0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	.025	015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	025	.015	.0100	.0002	4.000
IBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	.015	.0138	.0002	5.000
sub 10	0.4200	0.0700	1.000	30.00	.0100	100.0	.025	.015	0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	0100	100.0	025	.015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100.0	025	.015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	.0100	100.0	.025	.015	.0086	.0002	9.000
C ck	00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	0100	100.0	.025	015	.0095	0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	025	015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	025	.015	.0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	0100	100.0	.025	.015	0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	0100	100.0	.025	015	0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	025	.015	.0013	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.0199	75.00	0.000
sub 2	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1840	75.00	0.000
sub 3	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.0224	75.00	0.000
sub 4	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1162	75.00	0.000
LBG ck	27.473	20.00	0.000	5.000	0.000	84.710	0.000	0.3425	75.00	0.000
sub 9	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.2549	75.00	0.000
sub 10	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1021	75.00	0.000
sub 5	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.0276	75.00	0.000
sub 7	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.3206	88.00	0.000
sub 20	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1322	75.00	0.000
C ck	27.473	20.00	0.000	5.000	0.000	84.710	0.000	1.147	75.00	0.000
sub 21	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.3476	75.00	0.000
sub 19	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1545	75.00	0.000
sub 22	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1528	73.00	0.000
sub 18	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1854	70.00	0.000
sub 17	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.1854	73.00	0.000
sub 16	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.0877	75.00	0.000
sub 15	27.473	20.00	2.500	5.000	0.000	84.710	121.13	0.0227	64.00	0.000
BG ck	27.473	20.00	0.000	5.000	0.000	84.710	0.000	1.136	75.00	0.000
I R	27.473	20.00	0.000	5.000	0.000	84.710	0.000	2.283	75.00	0.000

IINK sub 1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 360
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	.015	.0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	025	.015	.0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	.025	.015	.0048	0.000	3.000

sub 4	0.4000	0.0700	2.600	2 600	.0100	100.0	.025	.015	.0100	.0002	4..000
LBG ck	.00001	0.000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1..001
sub 9	0 9000	0.1600	2 900	5.700	1.000	99.00	..025	.015	.0138	.0002	5 .000
sub 10	0 4200	0.0700	1..000	30.00	..0100	100.0	..025	.015	.0165	0.000	6 .000
sub 5	0.0900	0.0200	3.600	3..600	..0100	100..0	025	..015	..0039	..0001	7.000
sub 7	1.440	0..2500	1..000	8..700	.0100	100..0	025	..015	..0314	..0002	8.000
sub 20	0.4500	0.0800	4.000	4 .000	.0100	100.0	.025	.015	.0086	.0002	9..000
C ck	..00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1..002
sub 21	1.180	0.2100	9 000	9.000	.0100	100.0	..025	.015	.0095	0002	10.00
sub 19	0.5300	0..0900	4.500	4.500	..0100	100.0	.025	..015	.0088	.0002	11..00
sub 22	0..5200	0..0900	15.70	15 70	..0100	100.0	025	..015	.0047	.0001	12..00
sub 18	0..6300	0.1100	21.00	21 00	.0100	100..0	.025	..015	..0045	..0001	13.00
sub 17	0..6300	0 1100	14..30	14.30	0100	100.0	.025	.015	.0054	.0001	14 00
sub 16	0 3000	0.0500	17.80	17.80	.0100	100 0	.025	015	0033	0..000	15 00
sub 15	0.0800	0.0100	30.00	8..000	.0100	100.0	..025	.015	.0013	0..000	16.00
BG ck	00001	0.000	11 30	0.000	..0100	0.000	025	0 00	0..000	0.000	10.00
L R	00001	0..000	11.30	0.000	..0100	0..000	025	0.00	0.000	0 000	1 003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
sub 1	22..916	20..00	2..500	5 000	0..000	93..598	134..99	0..0143	112 0	0..000
sub 2	22..916	20..00	2..500	5..000	0..000	93 598	134..99	0..1343	119..0	0 000
sub 3	22..916	20 00	2..500	5..000	0..000	93 598	134..99	0..0161	119..0	0 000
sub 4	22..916	20.00	2..500	5..000	0 000	93..598	134.99	0..0842	120..0	0..000
LBG ck	22 916	20..00	0..000	5..000	0 000	93..598	0.000	0 2488	120..0	0..000
sub 9	22..916	20..00	2 500	5 000	0..000	93..598	134..99	0..1898	120..0	0..000
sub 10	22..916	20.00	2 500	5..000	0..000	93..598	134..99	0..0864	120 0	0..000
sub 5	22..916	20..00	2..500	5..000	0..000	93 598	134..99	0..0198	110..0	0 000
sub 7	22..916	20 00	2..500	5..000	0 000	93..598	134..99	0..2848	120..0	0 000
sub 20	22 916	20..00	2..500	5..000	0 000	93..598	134.99	0..0949	114..0	0..000
C ck	22 916	20..00	0..000	5 000	0..000	93..598	0.000	0 9245	120..0	0..000
sub 21	22..916	20..00	2 500	5 000	0..000	93..598	134..99	0..2490	117..0	0..000
sub 19	22..916	20..00	2..500	5..000	0..000	93..598	134..99	0..1110	119..0	0..000
sub 22	22..916	20 00	2..500	5..000	0..000	93 598	134..99	0..1093	101..0	0 000
sub 18	22..916	20..00	2..500	5..000	0 000	93..598	134..99	0..1326	114..0	0 000
sub 17	22..916	20..00	2..500	5..000	0 000	93..598	134..99	0..1326	110..0	0 000
sub 16	22 916	20..00	2..500	5..000	0..000	93..598	134 99	0 0629	100.0	0..000
sub 15	22..916	20..00	2 500	5 000	0..000	93..598	134..99	0..0162	95..00	0..000
BG ck	22..916	20..00	0..000	5..000	0..000	93..598	0 000	0.8132	114..0	0..000
L R	22..916	20 00	0..000	5..000	0..000	93 598	0 000	1..738	120..0	0..000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 540.
RETURN PERIOD (YRS) = 20.
BX = 1..0000
TOIAL OF FIRSI SUB-AREAS (km2) = 8.36
TOIAL OF SECOND SUB-AREAS (km2) = 1.45
TOIAL OF ALL SUB-AREAS (km2) = 9..81

SUMMARY OF CAICHMENT AND RAINFALL DAIA

Link Label	Catch. Area #1 (ha)	Catch. Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1	% Impervious #2	Pern #1	Pern #2	B #1	B #2	Link No.
sub 1	0 0700	0 0100	2 100	2.100	0.000	100..0	.025	..015	.0045	0.000	1.000
sub 2	0 6400	0..1100	3 300	3 300	.0100	100..0	025	..015	..0114	.0003	2..000
sub 3	0..0800	0..0100	2..100	2..100	0100	100 0	.025	..015	..0048	0.000	3..000
sub 4	0.4000	0.0700	2.600	2..600	.0100	100.0	..025	.015	.0100	.0002	4..000
LBG ck	.00001	0.000	11.30	0..000	.0100	0.000	..025	0.00	0.000	0.000	1..001
sub 9	0..9000	0 1600	2..900	5.700	1.000	99.00	.025	.015	.0138	.0002	5..000
sub 10	0 4200	0.0700	1 .000	30.00	.0100	100..0	025	..015	.0165	0.000	6..000
sub 5	0.0900	0..0200	3..600	3..600	.0100	100..0	.025	..015	.0039	..0001	7..000
sub 7	1 440	0..2500	1..000	8..700	.0100	100 0	.025	.015	..0314	.0002	8..000

sub 20	0.4500	0.0800	4.000	4.000	.0100	100.0	025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	.015	.0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	.025	.015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	.025	.015	.0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	.0100	100.0	.025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	.0100	100.0	.025	015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	.025	.015	.0013	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. loss #1 (mm)	loss #2 (mm)	Cont loss #1 (mm/h)	loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0125	292.0	0.000
sub 2	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.1170	299.0	0.000
sub 3	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0140	294.0	0.000
sub 4	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0733	300.0	0.000
IBG ck	17.761	20.00	0.000	5.000	0.000	103.51	0.000	0.2167	300.0	0.000
sub 9	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.1653	300.0	0.000
sub 10	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0743	300.0	0.000
sub 5	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0172	295.0	0.000
sub 7	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.2456	300.0	0.000
sub 20	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0827	300.0	0.000
C ck	17.761	20.00	0.000	5.000	0.000	103.51	0.000	0.8017	300.0	0.000
sub 21	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.2169	295.0	0.000
sub 19	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0967	296.0	0.000
sub 22	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0953	283.0	0.000
sub 18	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.1155	283.0	0.000
sub 17	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.1155	283.0	0.000
sub 16	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0547	280.0	0.000
sub 15	17.761	20.00	2.500	5.000	0.000	103.51	157.35	0.0140	276.0	0.000
BG ck	17.761	20.00	0.000	5.000	0.000	103.51	0.000	0.7082	298.0	0.000
L R	17.761	20.00	0.000	5.000	0.000	103.51	0.000	1.510	300.0	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 720.
RETURN PERIOD (YRS) = 20.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 8.36
TOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAL OF ALL SUB-AREAS (km2) = 9.81

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Catch. Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Perm #1	Perm #2	B #1	B #2	Link No.
sub 1	0.0700	0.0100	2.100	2.100	0.000	100.0	.025	.015	.0045	0.000	1.000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	.025	.015	.0114	.0003	2.000
sub 3	0.0800	0.0100	2.100	2.100	.0100	100.0	.025	.015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	.0100	100.0	.025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	015	0138	.0002	5.000
sub 10	0.4200	0.0700	1.000	30.00	.0100	100.0	.025	.015	.0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8.700	.0100	100.0	.025	.015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	.0100	100.0	.025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	.015	0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	.025	.015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	.0100	100.0	025	.015	.0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	.025	.015	.0045	.0001	13.00
sub 17	0.6300	0.1100	14.30	14.30	.0100	100.0	.025	015	.0054	.0001	14.00

sub 16	0 3000	0.0500	17.80	17.80	.0100	100.0	.025	.015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8.000	.0100	100.0	.025	.015	.0013	0.000	16.00
BG ck	.00001	0.000	11 30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	.00001	0 000	11.30	0 000	.0100	0.000	025	0 00	0.000	0 000	1.003

Iink Label	Average Intensity (mm/h)	Init Loss #1 (mm)	Init Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Iime to Peak	Link Lag mins
sub 1	14.828	20.00	2 500	5.000	0.000	115.05	175.44	0 0125	412 0	0 000
sub 2	14 828	20.00	2.500	5 000	0 000	115.05	175.44	0.1171	419.0	0.000
sub 3	14.828	20.00	2.500	5 000	0 000	115.05	175.44	0.0140	419.0	0.000
sub 4	14.828	20.00	2.500	5 000	0.000	115.05	175.44	0.0734	420.0	0.000
LBG ck	14.828	20 00	0.000	5.000	0.000	115.05	0.000	0 2170	420.0	0.000
sub 9	14.828	20.00	2 500	5.000	0.000	115 05	175 44	0 1656	420 0	0 000
sub 10	14 828	20.00	2.500	5 000	0 000	115 05	175.44	0.0751	420 0	0.000
sub 5	14.828	20.00	2.500	5 000	0 000	115.05	175.44	0.0172	410.0	0.000
sub 7	14.828	20.00	2.500	5.000	0.000	115.05	175.44	0.2522	420.0	0.000
sub 20	14.828	20 00	2 500	5.000	0.000	115 05	175.44	0.0828	418.0	0.000
C ck	14 828	20.00	0 000	5.000	0.000	115 05	0.000	0 8099	420.0	0 000
sub 21	14.828	20.00	2.500	5.000	0.000	115.05	175.44	0.2171	418 0	0.000
sub 19	14.828	20.00	2.500	5 000	0.000	115.05	175.44	0.0968	416.0	0.000
sub 22	14.828	20.00	2.500	5.000	0.000	115.05	175.44	0.0953	403.0	0.000
sub 18	14.828	20 00	2 500	5.000	0.000	115.05	175 44	0 1156	403.0	0.000
sub 17	14 828	20.00	2.500	5.000	0.000	115 05	175 44	0 1156	403.0	0 000
sub 16	14.828	20.00	2.500	5 000	0 000	115.05	175.44	0.0547	400 0	0 000
sub 15	14.828	20.00	2.500	5 000	0 000	115.05	175.44	0.0140	394.0	0.000
BG ck	14.828	20 00	0.000	5.000	0.000	115.05	0.000	0.7091	416.0	0.000
I R	14.828	20 00	0 000	5.000	0.000	115.05	0.000	1.519	420.0	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 20: 0.0 1/ 1/1991
##

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 1080.
REIURN PERIOD (YRS) = 20.
BX = 1 0000
TOIAI OF FIRST SUB-AREAS (km2) = 8.36
IOTAL OF SECOND SUB-AREAS (km2) = 1.45
TOTAI OF AIL SUB-AREAS (km2) = 9 81

SUMMARY OF CAICHMENT AND RAINFAII DAIA

Link Label	Catch. Area #1 (ha)	Catch. Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1	% Impervious #2	Pern #1	Pern #2	B #1	B #2	Link No.
sub 1	0.0700	0.0100	2 100	2.100	0.000	100.0	.025	.015	.0045	0.000	1 000
sub 2	0.6400	0.1100	3.300	3.300	.0100	100.0	.025	.015	.0114	.0003	2.000
sub 3	0 0800	0.0100	2.100	2 100	.0100	100.0	.025	015	.0048	0.000	3.000
sub 4	0.4000	0.0700	2.600	2.600	0100	100.0	.025	.015	.0100	.0002	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1 001
sub 9	0.9000	0.1600	2.900	5.700	1.000	99.00	.025	.015	.0138	.0002	5 000
sub 10	0.4200	0.0700	1.000	30.00	.0100	100.0	.025	.015	.0165	0.000	6.000
sub 5	0.0900	0.0200	3.600	3 600	.0100	100.0	.025	015	.0039	.0001	7.000
sub 7	1.440	0.2500	1.000	8 700	.0100	100.0	.025	015	.0314	.0002	8.000
sub 20	0.4500	0.0800	4.000	4.000	0100	100.0	025	.015	.0086	.0002	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.180	0.2100	9.000	9.000	.0100	100.0	.025	.015	.0095	.0002	10.00
sub 19	0.5300	0.0900	4.500	4.500	.0100	100.0	.025	.015	.0088	.0002	11.00
sub 22	0.5200	0.0900	15.70	15.70	0100	100.0	.025	.015	0047	.0001	12.00
sub 18	0.6300	0.1100	21.00	21.00	.0100	100.0	025	.015	.0045	.0001	13 00
sub 17	0.6300	0.1100	14.30	14.30	.0100	100.0	.025	.015	.0054	.0001	14.00
sub 16	0.3000	0.0500	17.80	17.80	.0100	100.0	.025	.015	.0033	0.000	15.00
sub 15	0.0800	0.0100	30.00	8 000	.0100	100.0	.025	.015	.0013	0 000	16.00
BG ck	00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Iink Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Iink Lag mins
sub 1	11.493	20.00	2.500	5.000	0.000	122.78	204 38	.00813	402.0	0.000

sub 2	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.0764	419.0 0.000
sub 3	11.493	20 00	2.500	5.000	0.000	122.78	204 38	.00913	402 0 0 000
sub 4	11.493	20.00	2.500	5.000	0 000	122.78	204.38	0.0479	408 0 0 000
IBG ck	11 493	20.00	0 000	5 000	0.000	122 78	0.000	0.1416	406.0 0 000
sub 9	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.1081	412.0 0 000
sub 10	11.493	20 00	2.500	5.000	0.000	122.78	204.38	0 0499	420.0 0 000
sub 5	11.493	20 00	2.500	5.000	0.000	122.78	204.38	0 0113	387.0 0.000
sub 7	11 493	20.00	2.500	5.000	0 000	122.78	204 38	0.1719	420 0 0 000
sub 20	11 493	20.00	2.500	5.000	0.000	122 78	204.38	0 0541	394 0 0 000
C ck	11.493	20.00	0.000	5.000	0.000	122 78	0.000	0.5368	420.0 0 000
sub 21	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.1417	387.0 0 000
sub 19	11.493	20 00	2.500	5.000	0 000	122.78	204.38	0 0632	395.0 0.000
sub 22	11 493	20.00	2 500	5.000	0 000	122.78	204 38	0 0622	397.0 0.000
sub 18	11 493	20.00	2 500	5 000	0.000	122.78	204.38	0.0756	375 0 0 000
sub 17	11.493	20.00	2.500	5 000	0.000	122 78	204.38	0.0756	377 0 0 000
sub 16	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.0356	386.0 0 000
sub 15	11.493	20 00	2.500	5.000	0.000	122.78	204.38	.00917	366.0 0.000
BG ck	11 493	20.00	0.000	5.000	0 000	122.78	0.000	0 4628	389.0 0.000
L R	11 493	20.00	0 000	5 000	0 000	122 78	0.000	0.9995	420 0 0.000

Run completed at: 7th June 2004 14:54:19

sub 4	0.4600	0.0700	2.600	2.600	.0100	100.0	025	.015	.0108	.0002	4 000
LBG ck	.00001	0.000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	1.060	0.1600	2 900	5.700	1.000	99.00	.025	015	.0150	.0002	5.000
sub 10	0.4900	0.0700	1.000	30.00	.0100	100 0	.025	.015	0179	0.000	6.000
sub 5	0.1100	0 0200	3.600	3.600	.0100	100.0	.025	.015	.0044	0001	7.000
sub 7	1.690	0 2500	1.000	8 700	.0100	100.0	025	.015	.0341	.0002	8 000
sub 20	0.0800	0.5200	4.000	4 000	0100	100.0	.025	.015	.0035	.0005	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	1.390	0.2100	9.000	9.000	.0100	100 0	.025	015	0103	.0002	10.00
sub 19	0.6200	0 0900	4.500	4.500	.0100	100.0	025	.015	.0096	.0002	11.00
sub 22	0.6100	0 0900	15 70	15 70	.0100	100.0	025	.015	.0051	.0001	12.00
sub 18	0 7400	0.1100	21.00	21.00	.0100	100.0	025	.015	.0049	.0001	13.00
sub 17	0 7400	0.1100	14.30	14.30	0100	100.0	.025	.015	.0059	.0001	14 00
sub 16	0.3500	0.0500	17.80	17.80	.0100	100 0	.025	015	.0036	0 000	15 00
sub 15	0.0900	0.0100	30 00	8.000	.0100	100.0	.025	.015	.0014	0.000	16 00
BG ck	00001	0.000	11 30	0.000	.0100	0.000	025	0 00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	025	0 00	0 000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. loss #1 (mm/h)	Cont. loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
sub 1	11.493	20.00	2.500	5.000	0.000	122.78	204 38	.00913	402.0	0.000
sub 2	11.493	20 00	2.500	5.000	0.000	122 78	204.38	0.0884	419.0	0.000
sub 3	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.0101	402 0	0 000
sub 4	11 493	20.00	2.500	5.000	0.000	122.78	204.38	0.0539	410.0	0.000
IBG ck	11 493	20.00	0 000	5 000	0 000	122.78	0.000	0.1616	406.0	0.000
sub 9	11.493	20.00	2.500	5 000	0 000	122.78	204.38	0 1241	412.0	0.000
sub 10	11.493	20.00	2.500	5.000	0.000	122.78	204 38	0 0569	420.0	0.000
sub 5	11.493	20 00	2.500	5.000	0.000	122 78	204.38	0.0133	387.0	0 000
sub 7	11 493	20.00	2.500	5.000	0.000	122 78	204.38	0.1966	420 0	0 000
sub 20	11 493	20.00	2 500	5.000	0.000	122.78	204.38	0.0671	378.0	0 000
C ck	11.493	20.00	0.000	5 000	0 000	122.78	0.000	0.6195	420.0	0.000
sub 21	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0.1627	389.0	0.000
sub 19	11.493	20.00	2.500	5.000	0.000	122.78	204.38	0 0722	395.0	0.000
sub 22	11 493	20.00	2.500	5.000	0.000	122 78	204.38	0.0712	397.0	0 000
sub 18	11 493	20.00	2.500	5.000	0.000	122.78	204.38	0.0866	375 0	0 000
sub 17	11.493	20.00	2.500	5 000	0 000	122.78	204.38	0.0865	377.0	0.000
sub 16	11.493	20.00	2.500	5.000	0 000	122.78	204.38	0 0406	386.0	0.000
sub 15	11.493	20 00	2.500	5.000	0.000	122 78	204.38	0 0101	366.0	0.000
BG ck	11.493	20.00	0.000	5.000	0.000	122 78	0.000	0.5297	389.0	0.000
L R	11.493	20.00	0 000	5.000	0.000	122.78	0.000	1.149	420 0	0 000

Run completed at: 4th June 2004 12:24:16

Exist Rafts Output 2 year

Run started at: 8th June 2004 9:08:13

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################################################################################
                    RUNTIME          RESULTS
################################################################################

Max. no. of links allowed =  2000

Max  no. of routng increments allowed = 30000

Max. no  of rating curve points = 30000

Max. no. of storm temporal points = 30000

Max. no. of channel subreaches =    25

Max link stack level =    25

Input Version number =          600


################################################################################
Belrose

Results for period from  0: 0.0  1/ 1/1991
                    to  5: 0.0  1/ 1/1991
################################################################################

                                ROUTING INCREMENT (MINS) =       1.00
                                STORM DURATION (MINS)    =       30.
                                RETURN PERIOD (YRS)      =        2.
                                BX                       =    1.0000
                                TOTAL OF FIRST SUB-AREAS  (km2) =      6.00
                                TOTAL OF SECOND SUB-AREAS (km2) =      3.79
                                TOTAL OF ALL SUB-AREAS (km2)    =      9.79

    SUMMARY OF CATCHMENT AND RAINFALL DATA
 Link      Catch. Area      Slope     % Impervious     Perm        B        Link
 Label      #1     #2      #1    #2      #1   #2     #1    #2    #1    #2     No.
            (ha)             (%)          (%)
sub 1     .00400 0.0700  2.100 2.100  0.000 100.0  .025  015  .0010 .0003  1.000
sub 2     0.0400 0.7200  3.300 3.300  .0100 100.0  .025 .015   0027  0007  2.000
sub 3     .00500 0.0900  2.100 2.100  .0100 100.0  .025 .015  .0011 .0003  3.000
sub 4     0.0200 0.4400  2.600 2.600  .0100 100.0   025 .015 .0021 .0006  4.000
LBG ck    .00001  0.000 11.30 0.000  .0100 0.000  .025 0.00 0.000 0.000  1.001
sub 9     0.9600 0.1100  2.900 5.700  1.000 99.00  .025  015  .0143 .0002  5.000
sub 10    0.4700 0.0200  1.000 30.00  .0100 100.0  .025 .015  .0175 0.000  6.000
sub 5     0.0900 0.0200  3.600 3.600  .0100 100.0  .025 .015  .0039 .0001  7.000
sub 7      1.520 0.1700  1.000 8.700  .0100 100.0  .025 .015  .0323 .0002  8.000
sub 20    0.2100 0.3100  4.000 4.000  .0100 100.0  .025 .015  .0058 .0004  9.000
C ck      .00001  0.000 11.30 0.000  .0100 0.000  .025 0.00 0.000 0.000  1.002
sub 21    0.9700 0.4200  9.000 9.000  .0100 100.0  .025 .015  .0085 .0003 10.00
sub 19    0.3400 0.2800  4.500 4.500  .0100 100.0   025 .015 .0070 .0004 11.00
sub 22    0.2700 0.3300 15.70 15.70  .0100 100.0  .025 .015  .0033 .0002 12.00
sub 18    0.4000 0.3300 21.00 21.00  .0100 100.0  .025  015  .0035 .0002 13.00
sub 17    0.4400 0.3000 14.30 14.30  .0100 100.0  .025 .015  .0045 .0002 14.00
sub 16    0.2100 0.1400 17.80 17.80  .0100 100.0  .025 .015  .0027 .0001 15.00
sub 15    0.0500 0.0400 30.00 8.000  .0100 100.0  .025 .015 .0010 0.000 16.00
BG ck     .00001  0.000 11.30 0.000  .0100 0.000  .025 0.00 0.000 0.000 10.00
L R        00001  0.000 11.30 0.000  .0100 0.000  .025 0.00 0.000 0.000  1.003
```

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0235	12.00	0.000
sub 2	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.2392	12.00	0.000
sub 3	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0300	12.00	0.000
sub 4	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.1458	12.00	0.000
LBG ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	0.4386	12.00	0.000
sub 9	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0531	30.00	0.000
sub 10	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0169	30.00	0.000
sub 5	58.291	20.00	2.500	5.000	0.000	7.812	26.646	.00931	25.00	0.000
sub 7	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0567	12.00	0.000
sub 20	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.1030	12.00	0.000
C ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	0.6482	12.00	0.000
sub 21	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.1377	15.00	0.000
sub 19	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0934	12.00	0.000
sub 22	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.1084	15.00	0.000
sub 18	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.1098	15.00	0.000
sub 17	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0987	15.00	0.000
sub 16	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0468	15.00	0.000
sub 15	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0.0143	15.00	0.000
BG ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	0.6060	15.00	0.000
L R	58.291	20.00	0.000	5.000	0.000	7.812	0.000	1.249	12.00	0.000

##
Belrose

Results for period from 0: 0 0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 60.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 6.00
TOTAL OF SECOND SUB-AREAS (km2) = 3.79
TOTAL OF ALL SUB-AREAS (km2) = 9.79

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	Catch Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Perm #1	Perm #2	B #1	B #2	Link No.
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	.015	.0010	.0003	1.000
sub 2	0.0400	0.7200	3.300	3.300	.0100	100.0	.025	.015	.0027	.0007	2.000
sub 3	.00500	0.0900	2.100	2.100	.0100	100.0	.025	.015	.0011	.0003	3.000
sub 4	0.0200	0.4400	2.600	2.600	.0100	100.0	.025	.015	.0021	.0006	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	.025	.015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	.025	.015	.0323	.0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9.000	.0100	100.0	.025	.015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	.025	.015	.0070	.0004	11.00
sub 22	0.2700	0.3300	15.70	15.70	.0100	100.0	.025	.015	.0033	.0002	12.00
sub 18	0.4000	0.3300	21.00	21.00	.0100	100.0	.025	.015	.0035	.0002	13.00
sub 17	0.4400	0.3000	14.30	14.30	.0100	100.0	.025	.015	.0045	.0002	14.00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
I R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0232	22.00	0.000

sub 2	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.2369	22.00 0 000
sub 3	40 000	20.00	2.500	5.000	0.000	16.834	37.500	0.0298	22.00 0.000
sub 4	40 000	20.00	2 500	5.000	0.000	16.834	37 500	0.1424	22 00 0.000
IBG ck	40.000	20.00	0.000	5 000	0.000	16.834	0 000	0.4323	22 00 0.000
sub 9	40.000	20 00	2.500	5.000	0.000	16 834	37.500	0.1087	35.00 0.000
sub 10	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0335	45.00 0.000
sub 5	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0146	30.00 0 000
sub 7	40 000	20.00	2 500	5.000	0 000	16.834	37.500	0.0966	45.00 0.000
sub 20	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.1055	22 00 0.000
C ck	40.000	20 00	0.000	5.000	0.000	16 834	0.000	0 6625	25 00 0.000
sub 21	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0 1789	31.00 0 000
sub 19	40 000	20.00	2 500	5.000	0 000	16.834	37.500	0.0996	25.00 0 000
sub 22	40.000	20.00	2 500	5 000	0 000	16.834	37.500	0.1267	25.00 0.000
sub 18	40.000	20 00	2.500	5 000	0.000	16.834	37 500	0.1413	25 00 0.000
sub 17	40.000	20 00	2.500	5.000	0.000	16 834	37.500	0 1245	25 00 0.000
sub 16	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0 0681	25.00 0.000
sub 15	40 000	20.00	2 500	5.000	0.000	16.834	37.500	0 0255	25.00 0 000
BG ck	40.000	20.00	0.000	5.000	0 000	16.834	0.000	0.7579	25.00 0 000
L R	40.000	20.00	0.000	5 000	0 000	16.834	0 000	1.420	25.00 0.000

IO PEAK (MINS) = 30.00

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Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991

##########

ROUIING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 90.
REIURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 6.00
IOIAL OF SECOND SUB-AREAS (km2) = 3.79
TOIAL OF ALL SUB-AREAS (km2) = 9.79

SUMMARY OF CAICHMENT AND RAINFAIL DAIA

Iink Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Link No.
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	015	0010	.0003	1 000
sub 2	0.0400	0.7200	3.300	3.300	0100	100.0	.025	.015	0027	.0007	2 000
sub 3	.00500	0.0900	2 100	2.100	.0100	100.0	025	.015	.0011	0003	3.000
sub 4	0.0200	0.4400	2.600	2.600	.0100	100.0	.025	.015	.0021	.0006	4.000
LBG ck	.00001	0.000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0 0200	1.000	30.00	0100	100.0	.025	015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3 600	3.600	.0100	100.0	.025	.015	.0039	.0001	7 000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	025	.015	.0323	0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0 4200	9.000	9.000	0100	100.0	.025	015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	.025	.015	0070	.0004	11.00
sub 22	0.2700	0.3300	15.70	15 70	.0100	100.0	025	.015	.0033	0002	12 00
sub 18	0.4000	0.3300	21 00	21.00	.0100	100.0	.025	.015	.0035	.0002	13 00
sub 17	0.4400	0.3000	14.30	14.30	.0100	100.0	.025	.015	.0045	.0002	14.00
sub 16	0.2100	0 1400	17.80	17.80	0100	100.0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	10.00
I R	.00001	0.000	11 30	0 000	.0100	0.000	.025	0 00	0.000	0 000	1 003

Iink Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Iink Lag mins
sub 1	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.0249	27.00	0.000
sub 2	31.331	20.00	2 500	5.000	0.000	21.580	44.496	0.2545	27.00	0.000
sub 3	31.331	20 00	2.500	5 000	0 000	21.580	44.496	0.0322	27.00	0 000
sub 4	31.331	20.00	2.500	5.000	0 000	21.580	44.496	0.1531	27.00	0.000
LBG ck	31.331	20.00	0.000	5.000	0.000	21.580	0.000	0 4647	27.00	0.000

sub 9	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1105	35.00	0.000
sub 10	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.0354	45.00	0.000
sub 5	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.0212	30.00	0.000
sub 7	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1037	55.00	0.000
sub 20	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1254	30.00	0.000
C ck	31.331	20.00	0.000	5.000	0.000	21.580	0.000	0.8049	30.00	0.000
sub 21	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.2815	30.00	0.000
sub 19	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1251	30.00	0.000
sub 22	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1760	30.00	0.000
sub 18	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.2250	30.00	0.000
sub 17	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.2116	30.00	0.000
sub 16	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1030	30.00	0.000
sub 15	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.0300	29.00	0.000
BG ck	31.331	20.00	0.000	5.000	0.000	21.580	0.000	1.151	30.00	0.000
L R	31.331	20.00	0.000	5.000	0.000	21.580	0.000	1.956	30.00	0.000

IINK sub 1 1.000

##
Belrose

Results for period from 0: 0 0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAI OF FIRSI SUB-AREAS (km2) = 6.00
IOIAL OF SECOND SUB-AREAS (km2) = 3.79
TOTAI OF AIL SUB-AREAS (km2) = 9.79

SUMMARY OF CAICHMENI AND RAINFAII DAIA

Iink Label	Catch #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1	% Impervious #2	Pern #1	Pern #2	B #1	B #2	Link No.
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	025	015	.0010	.0003	1.000
sub 2	0.0400	0 7200	3.300	3 300	0100	100.0	.025	.015	0027	.0007	2.000
sub 3	.00500	0.0900	2 100	2 100	.0100	100.0	.025	.015	.0011	.0003	3 000
sub 4	0.0200	0.4400	2.600	2.600	.0100	100.0	.025	.015	.0021	.0006	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	015	.0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	025	015	.0175	0.000	6.000
sub 5	0.0900	0 0200	3 600	3 600	0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.520	0.1700	1 000	8.700	.0100	100.0	.025	.015	.0323	.0002	8 000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9.000	.0100	100.0	.025	015	.0085	.0003	10.00
sub 19	0.3400	0 2800	4.500	4.500	0100	100.0	025	015	0070	.0004	11.00
sub 22	0 2700	0.3300	15.70	15.70	.0100	100.0	.025	.015	0033	.0002	12.00
sub 18	0 4000	0.3300	21.00	21.00	.0100	100.0	.025	.015	.0035	.0002	13.00
sub 17	0.4400	0.3000	14 30	14 30	.0100	100 0	.025	.015	.0045	.0002	14 00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	025	.015	.0010	0.000	16.00
BG ck	.00001	0 000	11.30	0 000	0100	0 000	.025	0.00	0.000	0.000	10.00
L R	.00001	0 000	11 30	0.000	.0100	0 000	.025	0 00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0 0239	32.00	0.000
sub 2	26.251	20.00	2.500	5 000	0.000	25.169	50.002	0.2426	32 00	0.000
sub 3	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0.0312	32.00	0.000
sub 4	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0.1546	32.00	0 000
LBG ck	26.251	20 00	0.000	5.000	0.000	25.169	0.000	0.4524	32.00	0.000
sub 9	26 251	20.00	2.500	5.000	0.000	25.169	50.002	0.1292	43.00	0.000
sub 10	26 251	20.00	2.500	5 000	0.000	25.169	50.002	0.0367	57.00	0.000
sub 5	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0.0213	40.00	0.000
sub 7	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0.1134	63.00	0.000

sub 20	26.251	20.00	2 500	5.000	0.000	25.169	50.002	0.1141	32.00	0 000
C ck	26.251	20.00	0.000	5.000	0.000	25.169	0.000	0.6809	35.00	0 000
sub 21	26.251	20 00	2.500	5.000	0.000	25.169	50.002	0.2658	40.00	0.000
sub 19	26.251	20.00	2.500	5 000	0.000	25.169	50 002	0.1103	40 00	0.000
sub 22	26 251	20.00	2.500	5.000	0.000	25 169	50.002	0.1325	38.00	0.000
sub 18	26.251	20.00	2 500	5.000	0.000	25.169	50.002	0 1636	38.00	0.000
sub 17	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0.1623	38.00	0.000
sub 16	26.251	20 00	2.500	5.000	0.000	25.169	50.002	0.0786	38.00	0 000
sub 15	26 251	20.00	2.500	5 000	0.000	25 169	50 002	0.0261	35 00	0.000
BG ck	26.251	20.00	0 000	5.000	0.000	25 169	0.000	0.9143	40 00	0.000
L R	26.251	20.00	0 000	5.000	0.000	25.169	0.000	1.564	40.00	0.000

IINK sub 1 1 000

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Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991

##########

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 180.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAI OF FIRSI SUB-AREAS (km2) = 6.00
IOIAL OF SECOND SUB-AREAS (km2) = 3.79
IOTAL OF ALL SUB-AREAS (km2) = 9 79

SUMMARY OF CAICHMENI AND RAINFAII DATA

Link	Catch Area		Slope		% Impervious		Pern		B		Link
Label	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	No.
	(ha)		(%)		(%)						
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	.015	.0010	0003	1 000
sub 2	0.0400	0.7200	3.300	3.300	.0100	100.0	025	.015	.0027	.0007	2 000
sub 3	.00500	0.0900	2.100	2.100	.0100	100.0	025	.015	0011	.0003	3.000
sub 4	0.0200	0.4400	2.600	2 600	0100	100.0	.025	.015	.0021	.0006	4.000
IBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	.025	.015	.0175	0.000	6 000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	025	.015	.0039	0001	7 000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	025	.015	.0323	.0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9.000	.0100	100.0	.025	.015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	025	.015	.0070	0004	11 00
sub 22	0.2700	0 3300	15.70	15.70	.0100	100.0	025	.015	.0033	.0002	12 00
sub 18	0 4000	0.3300	21.00	21.00	.0100	100.0	.025	.015	.0035	.0002	13.00
sub 17	0.4400	0.3000	14.30	14.30	0100	100 0	.025	015	0045	.0002	14.00
sub 16	0.2100	0.1400	17 80	17.80	.0100	100.0	.025	015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0 00	0 000	0 000	10.00
L R	.00001	0.000	11.30	0 000	.0100	0 000	025	0.00	0 000	0.000	1 003

Link	Average	Init. Ioss		Cont. Loss		Excess Rain		Peak	Time	Link
Label	Intensity	#1	#2	#1	#2	#1	#2	Inflow	to	Lag
	(mm/h)	(mm)		(mm/h)		(mm)		(m^3/s)	Peak	mins
sub 1	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0.0126	45.00	0.000
sub 2	20 400	20.00	2.500	5.000	0.000	29.449	58 701	0.1282	45.00	0.000
sub 3	20.400	20.00	2.500	5.000	0 000	29.449	58.701	0.0161	44.00	0.000
sub 4	20.400	20.00	2.500	5 000	0.000	29.449	58.701	0.0779	45.00	0.000
LBG ck	20.400	20.00	0 000	5.000	0.000	29.449	0.000	0.2348	45 00	0.000
sub 9	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0 0774	52.00	0.000
sub 10	20.400	20 00	2.500	5.000	0.000	29.449	58.701	0.0316	75.00	0.000
sub 5	20.400	20.00	2.500	5.000	0 000	29.449	58.701	0.0158	45.00	0.000
sub 7	20.400	20.00	2.500	5 000	0.000	29.449	58.701	0.1103	75.00	0.000
sub 20	20.400	20.00	2 500	5.000	0.000	29.449	58.701	0.0761	45.00	0.000
C ck	20.400	20.00	0.000	5.000	0.000	29 449	0.000	0 4820	45 00	0.000
sub 21	20.400	20 00	2.500	5.000	0.000	29.449	58 701	0.1990	45.00	0.000
sub 19	20.400	20.00	2.500	5.000	0 000	29.449	58.701	0.0814	45.00	0.000
sub 22	20.400	20.00	2.500	5 000	0.000	29.449	58.701	0.0981	45.00	0 000

sub 18	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0.1188	45.00	0.000
sub 17	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0.1180	45.00	0.000
sub 16	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0.0568	45.00	0.000
sub 15	20.400	20.00	2.500	5.000	0.000	29.449	58.701	0.0148	41.00	0.000
BG ck	20.400	20.00	0.000	5.000	0.000	29.449	0.000	0.6867	45.00	0.000
I R	20.400	20.00	0.000	5.000	0.000	29.449	0.000	1.169	45.00	0.000

LINK sub 1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 270.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 6.00
TOTAL OF SECOND SUB-AREAS (km2) = 3.79
TOTAL OF ALL SUB-AREAS (km2) = 9.79

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1 (%)	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	.015	.0010	.0003	1.000
sub 2	0.0400	0.7200	3.300	3.300	.0100	100.0	.025	.015	.0027	.0007	2.000
sub 3	.00500	0.0900	2.100	2.100	.0100	100.0	.025	.015	.0011	.0003	3.000
sub 4	0.0200	0.4400	2.600	2.600	.0100	100.0	.025	.015	.0021	.0006	4.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	.025	.015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	.025	.015	.0323	.0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9.000	.0100	100.0	.025	.015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	.025	.015	.0070	.0004	11.00
sub 22	0.2700	0.3300	15.70	15.70	.0100	100.0	.025	.015	.0033	.0002	12.00
sub 18	0.4000	0.3300	21.00	21.00	.0100	100.0	.025	.015	.0035	.0002	13.00
sub 17	0.4400	0.3000	14.30	14.30	.0100	100.0	.025	.015	.0045	.0002	14.00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
I R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init loss #1 (mm)	Init loss #2 (mm)	Cont loss #1 (mm/h)	Cont loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0119	62.00	0.000
sub 2	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1202	62.00	0.000
sub 3	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0146	62.00	0.000
sub 4	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0699	62.00	0.000
LBG ck	15.835	20.00	0.000	5.000	0.000	34.357	0.000	0.2165	62.00	0.000
sub 9	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1123	80.00	0.000
sub 10	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0433	90.00	0.000
sub 5	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0151	75.00	0.000
sub 7	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1363	90.00	0.000
sub 20	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0723	75.00	0.000
C ck	15.835	20.00	0.000	5.000	0.000	34.357	0.000	0.4974	90.00	0.000
sub 21	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1915	75.00	0.000
sub 19	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0813	75.00	0.000
sub 22	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0869	75.00	0.000
sub 18	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1048	75.00	0.000
sub 17	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1056	75.00	0.000
sub 16	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0500	73.00	0.000

sub 15	15.835	20.00	2.500	5.000	0 000	34.357	68.756	0 0130	68.00	0.000
BG ck	15.835	20.00	0.000	5 000	0.000	34.357	0 000	0.6330	75.00	0.000
L R	15 835	20 00	0.000	5 000	0.000	34 357	0 000	1 114	75.00	0 000

LINK sub 1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUIING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 360.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 6.00
IOIAI OF SECOND SUB-AREAS (km2) = 3.79
TOTAI OF AIL SUB-AREAS (km2) = 9.79

SUMMARY OF CAICHMENI AND RAINFALL DAIA

Link Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	.015	.0010	0003	1.000
sub 2	0.0400	0.7200	3.300	3.300	.0100	100.0	.025	.015	.0027	.0007	2.000
sub 3	.00500	0 0900	2.100	2 100	0100	100.0	.025	.015	.0011	.0003	3 000
sub 4	0.0200	0.4400	2.600	2.600	0100	100.0	.025	.015	.0021	.0006	4 000
IBG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.001
sub 9	0 9600	0.1100	2.900	5.700	1.000	99.00	025	.015	0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	025	.015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	.015	.0039	0001	7.000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	.025	.015	.0323	0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9 000	9.000	.0100	100 0	.025	.015	.0085	.0003	10.00
sub 19	0 3400	0.2800	4.500	4.500	.0100	100 0	025	015	.0070	.0004	11 00
sub 22	0.2700	0.3300	15.70	15.70	.0100	100.0	025	.015	0033	.0002	12 00
sub 18	0.4000	0.3300	21.00	21.00	.0100	100.0	025	.015	0035	.0002	13.00
sub 17	0.4400	0.3000	14.30	14.30	.0100	100.0	.025	.015	.0045	.0002	14.00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11.30	0.000	0100	0 000	.025	0.00	0 000	0 000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0 000	.025	0.00	0 000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	13.232	20.00	2 500	5.000	0.000	38 726	76 894	.00839	92.00	0.000
sub 2	13.232	20.00	2.500	5.000	0 000	38 726	76 894	0.0834	92.00	0.000
sub 3	13.232	20.00	2.500	5.000	0.000	38.726	76.894	0.0110	92.00	0.000
sub 4	13.232	20.00	2.500	5.000	0 000	38.726	76.894	0.0504	115.0	0.000
LBG ck	13 232	20.00	0.000	5 000	0.000	38.726	0.000	0.1522	110.0	0.000
sub 9	13 232	20.00	2.500	5 000	0.000	38.726	76.894	0.1037	120.0	0 000
sub 10	13.232	20.00	2 500	5.000	0.000	38.726	76.894	0.0372	127.0	0 000
sub 5	13.232	20.00	2 500	5.000	0.000	38.726	76.894	0.0109	119.0	0.000
sub 7	13.232	20.00	2.500	5.000	0.000	38.726	76.894	0.1169	128.0	0.000
sub 20	13.232	20.00	2.500	5.000	0 000	38 726	76.894	0.0544	119 0	0.000
C ck	13.232	20.00	0.000	5.000	0 000	38.726	0.000	0.4696	120.0	0.000
sub 21	13.232	20.00	2.500	5 000	0.000	38.726	76.894	0.1398	120.0	0.000
sub 19	13 232	20.00	2.500	5.000	0.000	38.726	76.894	0.0636	120.0	0.000
sub 22	13.232	20.00	2.500	5.000	0.000	38.726	76.894	0.0624	120.0	0 000
sub 18	13.232	20.00	2 500	5.000	0.000	38.726	76.894	0.0749	110.0	0.000
sub 17	13.232	20.00	2.500	5.000	0.000	38.726	76.894	0.0755	115.0	0.000
sub 16	13.232	20 00	2.500	5.000	0.000	38 726	76.894	0.0357	105.0	0.000
sub 15	13.232	20.00	2.500	5.000	0 000	38.726	76.894	.00927	99.00	0.000
BG ck	13 232	20.00	0.000	5.000	0.000	38.726	0.000	0.4611	120.0	0.000
L R	13 232	20.00	0.000	5.000	0.000	38.726	0.000	0.9307	120.0	0.000

IINK sub 1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 540.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 6.00
TOTAL OF SECOND SUB-AREAS (km2) = 3.79
TOTAL OF ALL SUB-AREAS (km2) = 9.79

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.
sub 1	.00400	0.0700	2.100	2 100	0.000	100.0	.025	.015	0010	.0003	1.000
sub 2	0.0400	0.7200	3.300	3.300	.0100	100.0	.025	.015	.0027	0007	2.000
sub 3	.00500	0.0900	2.100	2.100	0100	100.0	.025	.015	.0011	.0003	3 000
sub 4	0.0200	0.4400	2.600	2.600	0100	100.0	.025	.015	.0021	.0006	4.000
LBG ck	.00001	0.000	11.30	0 000	.0100	0.000	025	0.00	0.000	0.000	1.001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0.0200	1.000	30.00	.0100	100.0	.025	.015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3.600	3.600	.0100	100.0	.025	015	0039	0001	7.000
sub 7	1.520	0.1700	1.000	8.700	0100	100.0	.025	015	.0323	.0002	8 000
sub 20	0.2100	0.3100	4.000	4.000	0100	100.0	.025	.015	.0058	.0004	9 000
C ck	.00001	0.000	11.30	0 000	.0100	0.000	025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9 000	.0100	100.0	025	.015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	.025	.015	.0070	.0004	11.00
sub 22	0 2700	0.3300	15.70	15.70	.0100	100.0	.025	.015	0033	.0002	12.00
sub 18	0.4000	0.3300	21.00	21 00	0100	100.0	.025	015	.0035	0002	13.00
sub 17	0.4400	0 3000	14.30	14.30	0100	100 0	.025	.015	.0045	.0002	14 00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100 0	.025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30.00	8 000	.0100	100.0	025	.015	.0010	0.000	16.00
BG ck	.00001	0.000	11 30	0.000	.0100	0.000	.025	0.00	0.000	0.000	10.00
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	10.282	20.00	2.500	5.000	0.000	44.174	90 039	.00749	272.0	0.000
sub 2	10.282	20.00	2.500	5 000	0.000	44.174	90 039	0.0734	272.0	0.000
sub 3	10 282	20.00	2 500	5.000	0.000	44 174	90.039	.00984	272 0	0.000
sub 4	10 282	20 00	2.500	5.000	0 000	44 174	90.039	0 0450	273 0	0.000
LBG ck	10.282	20 00	0.000	5.000	0 000	44.174	0.000	0 1344	272.0	0.000
sub 9	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0902	300.0	0.000
sub 10	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0371	300.0	0.000
sub 5	10.282	20.00	2.500	5 000	0.000	44.174	90 039	.00944	299.0	0 000
sub 7	10 282	20.00	2.500	5.000	0.000	44.174	90.039	0.1256	300.0	0.000
sub 20	10 282	20.00	2.500	5.000	0 000	44.174	90.039	0 0476	298 0	0.000
C ck	10.282	20.00	0.000	5.000	0.000	44.174	0.000	0 4439	300.0	0.000
sub 21	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1216	298.0	0.000
sub 19	10.282	20.00	2.500	5 000	0.000	44.174	90 039	0.0555	300.0	0.000
sub 22	10 282	20.00	2 500	5.000	0.000	44.174	90 039	0.0546	286.0	0 000
sub 18	10 282	20 00	2.500	5.000	0 000	44 174	90.039	0.0654	288.0	0.000
sub 17	10.282	20 00	2.500	5.000	0 000	44 174	90.039	0 0658	295 0	0.000
sub 16	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0312	281.0	0.000
sub 15	10.282	20.00	2.500	5.000	0.000	44.174	90.039	.00807	276.0	0.000
BG ck	10 282	20.00	0.000	5 000	0.000	44.174	0.000	0.4019	299.0	0.000
L R	10.282	20.00	0.000	5.000	0.000	44.174	0.000	0.8458	300.0	0.000

LINK sub 1 1 000
.00

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################################################################################################
Belrose

Results for period from  0: 0 0  1/ 1/1991
                     to 15: 0.0  1/ 1/1991
################################################################################################
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ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 720.
RETURN PERIOD (YRS) = 2.
BX = 1 0000
TOIAL OF FIRSI SUB-AREAS (km2) = 6 00
TOTAI OF SECOND SUB-AREAS (km2) = 3 79
TOTAI OF AII SUB-AREAS (km2) = 9.79

SUMMARY OF CAICHMENI AND RAINFAIL DATA

Link Label	Catch Area #1 (ha)	Catch Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Pern #1	Pern #2	B #1	B #2	Link No
sub 1	.00400	0.0700	2.100	2.100	0.000	100.0	.025	.015	.0010	.0003	1.000
sub 2	0.0400	0.7200	3 300	3 300	0100	100.0	.025	.015	.0027	.0007	2.000
sub 3	.00500	0.0900	2.100	2.100	.0100	100 0	.025	015	.0011	.0003	3.000
sub 4	0.0200	0.4400	2.600	2.600	.0100	100.0	.025	.015	.0021	.0006	4 000
IBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1 001
sub 9	0.9600	0.1100	2.900	5.700	1.000	99.00	.025	.015	.0143	.0002	5.000
sub 10	0.4700	0 0200	1 000	30.00	0100	100.0	.025	.015	.0175	0.000	6.000
sub 5	0.0900	0.0200	3 600	3.600	0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	025	015	.0323	.0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	025	.015	.0058	.0004	9 000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9 000	.0100	100.0	.025	.015	.0085	0003	10 00
sub 19	0.3400	0 2800	4.500	4.500	0100	100.0	.025	.015	.0070	.0004	11.00
sub 22	0.2700	0.3300	15.70	15.70	.0100	100 0	.025	.015	.0033	.0002	12.00
sub 18	0 4000	0.3300	21 00	21 00	.0100	100.0	025	015	.0035	.0002	13.00
sub 17	0.4400	0.3000	14 30	14 30	.0100	100.0	.025	015	.0045	.0002	14.00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	.025	.015	.0027	.0001	15 00
sub 15	0.0500	0.0400	30.00	8.000	.0100	100.0	.025	.015	.0010	0 000	16 00
BG ck	.00001	0 000	11.30	0 000	0100	0 000	.025	0.00	0.000	0.000	10.00
L R	.00001	0 000	11 30	0.000	.0100	0.000	.025	0.00	0 000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init Loss #1 (mm)	Init Loss #2 (mm)	Cont Loss #1 (mm/h)	Cont Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	8.600	20 00	2.500	5.000	0 000	49 545	100.70	.00740	392.0	0.000
sub 2	8.600	20.00	2.500	5.000	0 000	49.545	100.70	0.0737	392.0	0 000
sub 3	8 600	20.00	2.500	5 000	0.000	49.545	100.70	.00964	392.0	0 000
sub 4	8.600	20.00	2 500	5 000	0.000	49.545	100.70	0 0451	393.0	0.000
LBG ck	8.600	20.00	0.000	5.000	0.000	49.545	0.000	0 1348	392 0	0.000
sub 9	8.600	20.00	2.500	5.000	0.000	49 545	100.70	0.0907	420 0	0.000
sub 10	8.600	20 00	2.500	5.000	0.000	49 545	100.70	0.0385	420.0	0.000
sub 5	8.600	20.00	2.500	5.000	0 000	49.545	100.70	.00947	419.0	0.000
sub 7	8 600	20.00	2 500	5 000	0.000	49.545	100.70	0.1324	420.0	0 000
sub 20	8.600	20.00	2.500	5 000	0.000	49.545	100.70	0.0478	419.0	0.000
C ck	8.600	20.00	0.000	5.000	0.000	49.545	0.000	0 4532	420 0	0.000
sub 21	8.600	20.00	2.500	5.000	0.000	49 545	100.70	0.1220	420 0	0.000
sub 19	8.600	20.00	2.500	5.000	0 000	49.545	100.70	0.0557	420.0	0.000
sub 22	8.600	20.00	2.500	5.000	0 000	49.545	100.70	0.0547	406.0	0.000
sub 18	8.600	20.00	2.500	5 000	0.000	49.545	100.70	0.0656	401.0	0 000
sub 17	8.600	20.00	2 500	5.000	0.000	49.545	100.70	0.0660	408.0	0.000
sub 16	8.600	20.00	2.500	5.000	0.000	49 545	100.70	0.0313	401 0	0.000
sub 15	8.600	20.00	2.500	5.000	0.000	49 545	100.70	.00809	399 0	0.000
BG ck	8.600	20.00	0.000	5.000	0.000	49.545	0.000	0.4032	420.0	0.000
I R	8 600	20.00	0 000	5 000	0.000	49.545	0.000	0.8564	420.0	0.000

IINK sub 1 1 000

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################################################################################
Belrose

Results for period from  0: 0.0  1/ 1/1991
                   to 20: 0.0  1/ 1/1991
################################################################################
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ROUIING INCREMENT (MINS)	=	1.00
STORM DURATION (MINS)	=	1080.
RETURN PERIOD (YRS)	=	2.
BX	=	1.0000
TOIAL OF FIRST SUB-AREAS (km2)	=	6.00
TOIAL OF SECOND SUB-AREAS (km2)	=	3 79
TOIAI OF AII SUB-AREAS (km2)	=	9 79

SUMMARY OF CAICHMENI AND RAINFALL DAIA

Link Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Link No.
sub 1	.00400	0.0700	2 100	2.100	0.000	100.0	025	.015	.0010	.0003	1.000
sub 2	0.0400	0 7200	3.300	3.300	.0100	100.0	.025	.015	.0027	.0007	2 000
sub 3	.00500	0 0900	2.100	2.100	.0100	100.0	.025	.015	.0011	.0003	3.000
sub 4	0.0200	0.4400	2.600	2 600	.0100	100.0	.025	.015	.0021	.0006	4.000
IBG ck	.00001	0.000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1.001
sub 9	0 9600	0.1100	2 900	5.700	1.000	99.00	025	.015	.0143	.0002	5.000
sub 10	0.4700	0 0200	1.000	30.00	.0100	100.0	025	.015	.0175	0.000	6.000
sub 5	0.0900	0 0200	3.600	3.600	.0100	100.0	.025	.015	.0039	.0001	7.000
sub 7	1.520	0.1700	1.000	8.700	.0100	100.0	.025	.015	.0323	.0002	8.000
sub 20	0.2100	0.3100	4.000	4.000	.0100	100.0	.025	.015	.0058	.0004	9.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.002
sub 21	0.9700	0.4200	9.000	9.000	.0100	100.0	025	.015	.0085	.0003	10.00
sub 19	0.3400	0.2800	4.500	4.500	.0100	100.0	.025	.015	.0070	.0004	11.00
sub 22	0.2700	0.3300	15.70	15 70	.0100	100.0	.025	.015	.0033	.0002	12.00
sub 18	0 4000	0.3300	21.00	21.00	.0100	100.0	.025	.015	.0035	.0002	13 00
sub 17	0.4400	0.3000	14.30	14.30	0100	100 0	.025	015	0045	.0002	14.00
sub 16	0.2100	0.1400	17.80	17.80	.0100	100.0	025	.015	.0027	.0001	15.00
sub 15	0.0500	0.0400	30 00	8.000	.0100	100.0	025	.015	.0010	0 000	16.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0 000	10.00
I R	.00001	0 000	11.30	0.000	.0100	0.000	.025	0.00	0 000	0.000	1 003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
sub 1	6.642	20 00	2 500	5 000	0.000	48.073	117.05	.00489	362.0	0 000
sub 2	6 642	20.00	2.500	5.000	0.000	48 073	117.05	0.0498	363.0	0 000
sub 3	6 642	20.00	2.500	5.000	0.000	48 073	117.05	.00626	362.0	0.000
sub 4	6.642	20.00	2.500	5.000	0.000	48.073	117.05	0.0302	363.0	0.000
LBG ck	6.642	20.00	0.000	5.000	0 000	48.073	0.000	0 0909	363.0	0.000
sub 9	6.642	20 00	2 500	5 000	0.000	48.073	117.05	0.0570	420 0	0.000
sub 10	6 642	20.00	2.500	5.000	0.000	48.073	117.05	0.0256	420.0	0 000
sub 5	6 642	20.00	2.500	5.000	0.000	48 073	117.05	.00598	392.0	0 000
sub 7	6.642	20.00	2.500	5.000	0 000	48.073	117 05	0.0883	420.0	0.000
sub 20	6.642	20.00	2.500	5.000	0 000	48.073	117.05	0.0313	390.0	0.000
C ck	6.642	20 00	0.000	5.000	0 000	48.073	0.000	0 2985	420.0	0.000
sub 21	6.642	20.00	2.500	5 000	0.000	48.073	117.05	0.0779	394 0	0.000
sub 19	6 642	20.00	2.500	5.000	0.000	48 073	117.05	0.0360	400.0	0 000
sub 22	6.642	20.00	2.500	5.000	0.000	48 073	117.05	0.0358	374.0	0.000
sub 18	6.642	20.00	2.500	5.000	0 000	48.073	117 05	0.0425	376.0	0.000
sub 17	6.642	20 00	2.500	5.000	0 000	48.073	117.05	0 0426	378.0	0.000
sub 16	6.642	20.00	2.500	5 000	0.000	48.073	117.05	0.0203	372 0	0.000
sub 15	6 642	20.00	2.500	5.000	0.000	48 073	117.05	.00524	367.0	0 000
BG ck	6.642	20.00	0.000	5.000	0.000	48 073	0.000	0.2600	404.0	0 000
L R	6.642	20.00	0.000	5.000	0 000	48.073	0.000	0.5585	420.0	0.000

Run completed at: 8th June 2004 9:08:20

Proposed Rafts Output 50 year

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################################################################################################
                          RUNTIME          RESULTS
################################################################################################

Max. no. of links allowed =  2000

Max. no. of routng increments allowed = 30000

Max. no. of rating curve points = 30000

Max. no. of storm temporal points = 30000

Max. no  of channel subreaches =    25

Max link stack level =    25

Input Version number =          600


################################################################################################
Belrose

Results for period from  0: 0 0  1/ 1/1991
                     to  5: 0.0  1/ 1/1991
################################################################################################

                                ROUIING INCREMENT (MINS) =       1.00
                                STORM DURATION (MINS)    =       30.
                                RETURN PERIOD (YRS)      =        2.
                                BX                       =    1.0000
                                TOIAL OF FIRSI SUB-AREAS  (km2) =      5.42
                                IOIAL OF SECOND SUB-AREAS (km2) =     10.05
                                IOIAL OF ALL SUB-AREAS (km2)    =     15.47

     SUMMARY OF CATCHMENT AND RAINFAIL DAIA
 Link      Catch. Area      Slope     % Impervious     Pern        B        Link
 Iabel      #1     #2      #1    #2      #1   #2     #1    #2    #1   #2     No.
             (ha)              (%)          (%)
P1        0.2900 0.8700  3.200 3.200  0.000 100.0  .025 .015  .0076 .0008  1.000
LBG ck    .00001  0.000  11.30 0.000  .0100 0.000  .025 0.00  0.000 0.000  1.001
P3        0.5700  1.320  14.00 14.00  1.000 99.00  .025  .015  .0050  .0005 2.000
P4         1.100  3.290  12.00 12.00   0100 100.0  .025   015   0079   0008 3.000
P5        0.3000 0.3000  11.30 11.30  .0100 100.0   025   015   0041  .0002 4 000
P6        0 4200 0.4200  8.500 8.500  .0100 100.0  .025  .015  .0057  .0003 5.000
P2        0.4800  1.430  1.700 1.700  .0100 100.0  .025 .015  .0136 .0014  6.000
C ck      .00001  0.000  11.30 0.000  .0100 0.000  .025 0.00  0.000 0.000  1.002
P13       0.3300 0 7700  18.00 18.00   0100 100.0  .025   015   0035   0003 7 000
P12       0.9400 0 6200  21 00 21.00  .0100 100.0   025  .015  .0055  .0003 8 000
P11       0 4300 0.2900  14.30 14.30  .0100 100.0   025  .015  .0044  .0002 9.000
P10       0.2600 0.1800  17.00 8.000  .0100 100.0  .025  .015  .0031  .0002 10.00
P9        0.1400 0.1400  12.70 12.70  .0100 100.0  .025  .015  .0026  .0002 11.00
P8        0.1100 0.2600  10.70 8.900   0100 100.0  .025  .015  .0025  .0002 12.00
P7        0.0500 0.1600  15 40 15.40  .0100 100.0  .025 .015  .0014 .0001  13.00
BG ck     .00001 0.000   11 30 0.000  .0100 0 000   025 0.00  0.000 0 000  7 001
L R       .00001  0.000  11.30 0.000  .0100 0.000  .025 0 00  0.000 0 000  1.003

 Link    Average  Init. Loss  Cont. Loss    Excess Rain   Peak    Time    Iink
 Label  Intensity  #1    #2    #1    #2      #1    #2    Inflow   to     Iag
          (mm/h)    ( mm )      (mm/h)       ( mm )     (m^3/s)  Peak  mins
P1        58.291 20.00 2.500  5.000 0.000   7.812 26 646  0.2872  12.00 0.000
```

LBG ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	0.2872	12.00	0 000
P3	58.291	20 00	2.500	5.000	0.000	7.812	26 646	0.4415	12.00	0 000
P4	58.291	20.00	2.500	5.000	0.000	7.812	26.646	1.100	12.00	0.000
P5	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0 0985	12 00	0.000
P6	58.291	20.00	2.500	5.000	0.000	7.812	26.646	0 1377	12 00	0.000
P2	58 291	20.00	2 500	5.000	0 000	7 812	26.646	0.4626	13 00	0.000
C ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	2.526	12.00	0.000
P13	58.291	20 00	2.500	5.000	0.000	7.812	26.646	0.2579	12.00	0.000
P12	58.291	20 00	2.500	5.000	0.000	7.812	26.646	0.2057	12.00	0.000
P11	58.291	20.00	2.500	5.000	0.000	7.812	26 646	0.0953	15.00	0 000
P10	58.291	20.00	2.500	5 000	0.000	7.812	26.646	0.0601	12.00	0 000
P9	58 291	20.00	2.500	5.000	0.000	7 812	26.646	0 0464	12 00	0.000
P8	58.291	20.00	2.500	5.000	0 000	7 812	26.646	0 0863	12 00	0.000
P7	58.291	20.00	2.500	5.000	0 000	7.812	26.646	0 0529	12 00	0.000
BG ck	58.291	20.00	0.000	5.000	0.000	7.812	0.000	0.8042	12.00	0.000
I R	58.291	20 00	0.000	5.000	0.000	7.812	0.000	3.330	12.00	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 60.
REIURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRSI SUB-AREAS (km2) = 5.42
TOIAI OF SECOND SUB-AREAS (km2) = 10.05
TOTAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CATCHMENT AND RAINFALL DAIA

Link	Catch. Area		Slope		% Impervious		Pern		B		Link
Label	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	No
	(ha)		(%)		(%)						
P1	0.2900	0.8700	3.200	3 200	0.000	100.0	.025	.015	.0076	.0008	1.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1 320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12.00	.0100	100 0	.025	.015	.0079	.0008	3.000
P5	0 3000	0.3000	11.30	11.30	.0100	100.0	.025	.015	.0041	.0002	4.000
P6	0.4200	0.4200	8.500	8.500	.0100	100.0	.025	.015	.0057	0003	5.000
P2	0.4800	1.430	1.700	1.700	0100	100.0	.025	.015	.0136	.0014	6 000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1 002
P13	0.3300	0 7700	18.00	18.00	.0100	100.0	.025	.015	.0035	.0003	7 000
P12	0.9400	0 6200	21.00	21.00	.0100	100.0	.025	015	.0055	.0003	8.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	015	0044	.0002	9.000
P10	0.2600	0.1800	17.00	8.000	.0100	100 0	.025	.015	.0031	.0002	10.00
P9	0 1400	0.1400	12 70	12.70	.0100	100.0	.025	.015	.0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	.0100	100.0	.025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	00001	0.000	11.30	0.000	0100	0.000	025	0.00	0.000	0.000	7.001
I R	.00001	0.000	11.30	0 000	.0100	0 000	025	0.00	0 000	0 000	1 003

Iink	Average	Init. Loss		Cont. Loss		Excess Rain		Peak	Time	Link
Label	Intensity	#1	#2	#1	#2	#1	#2	Inflow	to	Lag
	(mm/h)	(mm)		(mm/h)		(mm)		(m^3/s)	Peak	mins
P1	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0 2852	22.00	0.000
LBG ck	40.000	20.00	0.000	5.000	0.000	16.834	0.000	0.2852	22.00	0.000
P3	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.4468	25 00	0.000
P4	40.000	20.00	2.500	5.000	0 000	16 834	37 500	1.097	22.00	0.000
P5	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.1136	25.00	0.000
P6	40.000	20.00	2.500	5 000	0.000	16.834	37.500	0.1546	25.00	0.000
P2	40 000	20.00	2.500	5 000	0.000	16.834	37.500	0.4519	25.00	0 000
C ck	40.000	20.00	0.000	5.000	0.000	16.834	0.000	2.523	25.00	0.000
P13	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0 2684	25.00	0.000
P12	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.2738	25 00	0.000
P11	40.000	20.00	2.500	5.000	0 000	16.834	37 500	0.1212	25 00	0.000
P10	40.000	20 00	2.500	5.000	0 000	16 834	37 500	0.0836	25.00	0.000

P9	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0595	25.00	0.000
P8	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0919	25.00	0.000
P7	40.000	20.00	2.500	5.000	0.000	16.834	37.500	0.0575	25.00	0.000
BG ck	40.000	20.00	0.000	5.000	0.000	16.834	0.000	0.9558	25.00	0.000
L R	40.000	20.00	0.000	5.000	0.000	16.834	0.000	3.479	25.00	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 90
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 5.42
IOIAL OF SECOND SUB-AREAS (km2) = 10.05
TOIAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CATCHMENT AND RAINFAII DATA

Iink Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
LBG ck	.00001	0.000	11 30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14 00	14.00	1.000	99.00	.025	.015	.0050	.0005	2 000
P4	1.100	3.290	12.00	12.00	0100	100.0	.025	.015	.0079	.0008	3.000
P5	0.3000	0.3000	11.30	11.30	0100	100.0	.025	.015	.0041	.0002	4.000
P6	0 4200	0.4200	8.500	8 500	0100	100.0	025	.015	.0057	.0003	5.000
P2	0.4800	1 430	1.700	1.700	.0100	100.0	025	.015	.0136	.0014	6.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P13	0.3300	0.7700	18 00	18 00	.0100	100.0	.025	015	0035	0003	7.000
P12	0.9400	0 6200	21.00	21.00	.0100	100 0	.025	.015	.0055	.0003	8 000
P11	0.4300	0 2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	9.000
P10	0.2600	0.1800	17.00	8.000	0100	100.0	.025	.015	.0031	.0002	10.00
P9	0.1400	0.1400	12.70	12.70	.0100	100.0	025	.015	.0026	.0002	11.00
P8	0 1100	0.2600	10.70	8.900	.0100	100.0	025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	.0100	0 000	.025	0.00	0.000	0.000	7.001
L R	00001	0.000	11 30	0.000	.0100	0 000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.3143	30.00	0.000
LBG ck	31 331	20.00	0 000	5 000	0 000	21.580	0 000	0.3143	30 00	0.000
P3	31.331	20.00	2 500	5.000	0.000	21 580	44 496	0.5615	30 00	0.000
P4	31.331	20.00	2.500	5.000	0.000	21.580	44.496	1.272	30.00	0.000
P5	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1580	30.00	0.000
P6	31.331	20 00	2.500	5.000	0.000	21.580	44.496	0.2067	30.00	0 000
P2	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.4957	30.00	0 000
C ck	31.331	20.00	0.000	5.000	0 000	21.580	0.000	3.008	30.00	0.000
P13	31 331	20.00	2.500	5 000	0 000	21.580	44.496	0.3467	30.00	0.000
P12	31.331	20.00	2.500	5.000	0.000	21 580	44.496	0.4208	30.00	0.000
P11	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.2060	30 00	0.000
P10	31.331	20 00	2.500	5.000	0.000	21.580	44.496	0.1288	30.00	0 000
P9	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.0806	30.00	0.000
P8	31.331	20.00	2.500	5.000	0.000	21.580	44.496	0.1120	29.00	0.000
P7	31 331	20.00	2.500	5.000	0.000	21.580	44.496	0.0692	29.00	0.000
BG ck	31.331	20.00	0.000	5.000	0 000	21.580	0.000	1.361	30.00	0.000
L R	31.331	20.00	0 000	5.000	0.000	21 580	0 000	4.369	30.00	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991

##

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 5.42
IOIAL OF SECOND SUB-AREAS (km2) = 10.05
TOIAI OF AII SUB-AREAS (km2) = 15.47

SUMMARY OF CAICHMENI AND RAINFALL DATA

Iink Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	015	.0079	.0008	3.000
P5	0.3000	0.3000	11.30	11.30	.0100	100.0	025	.015	0041	.0002	4.000
P6	0.4200	0.4200	8.500	8.500	.0100	100.0	.025	.015	.0057	0003	5.000
P2	0.4800	1.430	1.700	1.700	0100	100.0	.025	.015	.0136	.0014	6.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	015	.0035	.0003	7.000
P12	0 9400	0.6200	21 00	21.00	.0100	100.0	025	015	0055	.0003	8 000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	0044	0002	9.000
P10	0.2600	0.1800	17.00	8.000	0100	100.0	.025	.015	.0031	.0002	10.00
P9	0.1400	0 1400	12.70	12.70	0100	100.0	.025	.015	.0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	.0100	100 0	.025	015	.0025	.0002	12.00
P7	0.0500	0.1600	15 40	15.40	.0100	100.0	025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0 00	0.000	0.000	7 001
I R	00001	0.000	11.30	0.000	.0100	0.000	.025	0 00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
P1	26.251	20.00	2.500	5.000	0.000	25.169	50 002	0.2957	32 00	0.000
LBG ck	26.251	20.00	0.000	5.000	0.000	25 169	0.000	0.2957	32.00	0.000
P3	26.251	20 00	2.500	5.000	0 000	25 169	50.002	0.4700	32.00	0 000
P4	26.251	20.00	2.500	5 000	0.000	25.169	50.002	1.155	32.00	0 000
P5	26.251	20.00	2 500	5 000	0.000	25.169	50.002	0 1293	40 00	0.000
P6	26 251	20.00	2.500	5.000	0.000	25.169	50.002	0 1732	40 00	0.000
P2	26.251	20.00	2.500	5.000	0.000	25.169	50 002	0.4606	32 00	0.000
C ck	26.251	20 00	0.000	5.000	0.000	25 169	0.000	2.637	32.00	0.000
P13	26.251	20.00	2.500	5.000	0 000	25.169	50.002	0.2752	35.00	0 000
P12	26.251	20.00	2 500	5 000	0.000	25.169	50.002	0.3360	39.00	0 000
P11	26.251	20.00	2.500	5.000	0.000	25.169	50.002	0 1576	38.00	0.000
P10	26.251	20.00	2.500	5.000	0.000	25.169	50 002	0 0967	38 00	0.000
P9	26.251	20 00	2.500	5.000	0.000	25 169	50 002	0.0624	38.00	0.000
P8	26.251	20.00	2.500	5.000	0 000	25 169	50.002	0.0936	32.00	0 000
P7	26.251	20.00	2 500	5.000	0.000	25.169	50.002	0.0586	35.00	0 000
BG ck	26.251	20.00	0.000	5.000	0.000	25.169	0.000	1 026	38.00	0.000
I R	26.251	20.00	0.000	5.000	0.000	25.169	0.000	3.559	35.00	0.000

##

Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991

##

ROUIING INCREMENI (MINS) = 1.00
SIORM DURATION (MINS) = 180.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAI OF FIRSI SUB-AREAS (km2) = 5.42
IOIAL OF SECOND SUB-AREAS (km2) = 10.05
IOIAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CAICHMENI AND RAINFAII DATA

Iink Label	Catch.. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1 000
LBG ck	.00001	0 000	11 30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14 00	14.00	1.000	99.00	025	.015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12 00	.0100	100.0	.025	.015	0079	.0008	3..000
P5	0..3000	0 3000	11.30	11.30	.0100	100 0	.025	015	.0041	.0002	4 000
P6	0..4200	0.4200	8 500	8 500	.0100	100 0	.025	.015	.0057	.0003	5 000
P2	0.4800	1 430	1.700	1 700	.0100	100.0	.025	.015	.0136	.0014	6.000
C ck	.00001	0.000	11 30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.002
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	.015	.0035	.0003	7..000
P12	0..9400	0 6200	21.00	21 00	.0100	100.0	.025	015	0055	.0003	8..000
P11	0..4300	0.2900	14.30	14.30	.0100	100.0	.025	015	.0044	.0002	9.000
P10	0 2600	0.1800	17.00	8.000	0100	100 0	.025	.015	.0031	0002	10 00
P9	0.1400	0.1400	12 70	12.70	.0100	100 0	025	.015	.0026	.0002	11.00
P8	0.1100	0..2600	10.70	8.900	.0100	100.0	.025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	.00001	0..000	11..30	0..000	.0100	0..000	.025	0..00	0..000	0..000	7..001
I R	.00001	0 000	11..30	0 000	0100	0 000	.025	0 00	0..000	0 000	1 003

Link Iabel	Average Intensity (mm/h)	Init.. Loss #1 (mm)	#2	Cont.. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Link Lag mins
P1	20 400	20 00	2..500	5.000	0..000	29 449	58.701	0.1735	45.00	0.000
LBG ck	20 400	20.00	0 000	5.000	0..000	29 449	0..000	0.1735	45 00	0.000
P3	20.400	20..00	2 500	5.000	0 000	29..449	58.701	0..3132	45..00	0 000
P4	20.400	20.00	2.500	5 000	0 000	29..449	58 701	0..7138	45..00	0 000
P5	20..400	20 00	2..500	5 000	0..000	29..449	58 701	0 0954	45 00	0..000
P6	20..400	20.00	2..500	5..000	0..000	29 449	58..701	0 1266	45 00	0..000
P2	20 400	20.00	2 500	5..000	0..000	29 449	58.701	0.2673	45..00	0..000
C ck	20..400	20..00	0 000	5..000	0 000	29..449	0..000	1.690	45..00	0..000
P13	20..400	20..00	2..500	5 000	0 000	29..449	58..701	0..1828	45..00	0 000
P12	20..400	20 00	2..500	5 000	0..000	29..449	58..701	0..2518	45..00	0 000
P11	20..400	20 00	2..500	5..000	0..000	29..449	58..701	0 1148	45..00	0..000
P10	20 400	20.00	2..500	5..000	0..000	29 449	58..701	0 0711	45 00	0..000
P9	20 400	20..00	2 500	5..000	0..000	29 449	58..701	0..0458	45 00	0..000
P8	20..400	20..00	2..500	5 000	0 000	29..449	58..701	0..0615	44..00	0..000
P7	20..400	20.00	2..500	5 000	0 000	29..449	58 701	0..0352	43..00	0 000
BG ck	20..400	20 00	0..000	5..000	0..000	29..449	0 000	0.7630	45..00	0 000
I R	20..400	20.00	0.000	5..000	0..000	29..449	0..000	2..453	45..00	0..000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 270..
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 5..42
TOIAL OF SECOND SUB-AREAS (km2) = 10..05
TOTAI OF AII SUB-AREAS (km2) = 15 47

SUMMARY OF CAICHMENT AND RAINFAII DATA

Iink Label	Catch.. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No..
P1	0.2900	0.8700	3.200	3..200	0.000	100.0	.025	.015	.0076	.0008	1..000
LBG ck	.00001	0.000	11..30	0.000	.0100	0.000	025	0.00	0.000	0.000	1 001
P3	0.5700	1.320	14.00	14..00	1.000	99.00	.025	.015	.0050	.0005	2..000
P4	1.100	3.290	12 00	12..00	0100	100..0	.025	015	.0079	.0008	3..000
P5	0..3000	0 3000	11.30	11.30	.0100	100.0	.025	015	0041	.0002	4..000
P6	0 4200	0.4200	8 500	8..500	.0100	100.0	.025	.015	.0057	0003	5..000
P2	0.4800	1 430	1.700	1.700	.0100	100.0	025	.015	.0136	.0014	6 000
C ck	.00001	0.000	11 30	0.000	.0100	0..000	.025	0..00	0 000	0 000	1 002

P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	.015	0035	.0003	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	015	.0055	.0003	8.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	025	.015	.0044	.0002	9.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	10.00
P9	0.1400	0.1400	12.70	12.70	.0100	100.0	.025	.015	.0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	0100	100.0	.025	.015	.0025	0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	7.001
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity (mm/h)	Init Loss #1 (mm)	Init Loss #2 (mm)	Cont Loss #1 (mm/h)	Cont Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1611	75.00	0.000
LBG ck	15.835	20.00	0.000	5.000	0.000	34.357	0.000	0.1611	75.00	0.000
P3	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.2782	74.00	0.000
P4	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.6463	75.00	0.000
P5	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0863	75.00	0.000
P6	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1192	75.00	0.000
P2	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.2448	75.00	0.000
C ck	15.835	20.00	0.000	5.000	0.000	34.357	0.000	1.535	75.00	0.000
P13	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1629	73.00	0.000
P12	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.2245	74.00	0.000
P11	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.1027	75.00	0.000
P10	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0629	75.00	0.000
P9	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0404	74.00	0.000
P8	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0544	74.00	0.000
P7	15.835	20.00	2.500	5.000	0.000	34.357	68.756	0.0311	74.00	0.000
BG ck	15.835	20.00	0.000	5.000	0.000	34.357	0.000	0.6763	74.00	0.000
L R	15.835	20.00	0.000	5.000	0.000	34.357	0.000	2.210	75.00	0.000

##
Belrose

Results for period from 0:0 0 1/ 1/1991
to 10:0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 360.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 5.42
TOTAL OF SECOND SUB-AREAS (km2) = 10.05
TOTAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	Catch Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Perm #1	Perm #2	B #1	B #2	Link No
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12.00	.0100	100.0	025	.015	.0079	0008	3.000
P5	0.3000	0.3000	11.30	11.30	0100	100.0	.025	.015	.0041	.0002	4.000
P6	0.4200	0.4200	8.500	8.500	.0100	100.0	.025	.015	.0057	.0003	5.000
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	6.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	025	015	.0035	.0003	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	025	015	.0055	.0003	8.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	0002	9.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	10.00
P9	0.1400	0.1400	12.70	12.70	.0100	100.0	.025	.015	.0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	.0100	100.0	.025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	7.001
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

Link Label	Average Intensity	Init Loss #1	Init Loss #2	Cont Loss #1	Cont Loss #2	Excess Rain #1	Excess Rain #2	Peak Inflow	Time to	Link Lag

	(mm/h)	(mm)	(mm/h)	(mm)	(m^3/s)	Peak	mins
P1	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.1248	120.0	0.000
LBG ck	13.232	20.00 0.000	5.000 0.000	38.726 0.000	0.1248	120.0	0.000
P3	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.2009	108.0	0.000
P4	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.4688	114.0	0.000
P5	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0620	113.0	0.000
P6	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0868	120.0	0.000
P2	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.1995	120.0	0.000
C ck	13.232	20.00 0.000	5.000 0.000	38.726 0.000	1.142	120.0	0.000
P13	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.1175	106.0	0.000
P12	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.1590	108.0	0.000
P11	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0734	117.0	0.000
P10	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0449	106.0	0.000
P9	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0290	112.0	0.000
P8	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0393	111.0	0.000
P7	13.232	20.00 2.500	5.000 0.000	38.726 76.894	0.0225	101.0	0.000
BG ck	13.232	20.00 0.000	5.000 0.000	38.726 0.000	0.4855	108.0	0.000
L R	13.232	20.00 0.000	5.000 0.000	38.726 0.000	1.627	120.0	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 540.
RETURN PERIOD (YRS) = 2.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 5.42
TOTAI OF SECOND SUB-AREAS (km2) = 10.05
IOTAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CAICHMENI AND RAINFALL DAIA

Link	Catch. Area		Slope		% Impervious		Pern		B		Iink
Iabel	#1	#2	#1	#2	#1	#2	#1	#2	#1	#2	No.
	(ha)		(%)		(%)						
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
IBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	3.000
P5	0.3000	0.3000	11.30	11.30	.0100	100.0	.025	015	0041	.0002	4.000
P6	0.4200	0.4200	8.500	8.500	.0100	100.0	025	.015	0057	.0003	5.000
P2	0.4800	1.430	1.700	1.700	.0100	100.0	025	.015	.0136	.0014	6.000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P13	0.3300	0.7700	18.00	18.00	0100	100.0	.025	.015	.0035	0003	7.000
P12	0.9400	0.6200	21.00	21.00	0100	100.0	.025	.015	.0055	.0003	8.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	9.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	10.00
P9	0.1400	0.1400	12.70	12.70	.0100	100.0	.025	015	0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	.0100	100.0	.025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	7.001
L R	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.003

Link	Average	Init. Loss		Cont. Loss		Excess Rain		Peak	Iime	Iink
Label	Intensity	#1	#2	#1	#2	#1	#2	Inflow	to	Lag
	(mm/h)	(mm)		(mm/h)		(mm)		(m^3/s)	Peak	mins
P1	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1087	300.0	0.000
IBG ck	10.282	20.00	0.000	5.000	0.000	44.174	0.000	0.1087	300.0	0.000
P3	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1761	283.0	0.000
P4	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.4113	287.0	0.000
P5	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0541	291.0	0.000
P6	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0758	298.0	0.000
P2	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1776	300.0	0.000
C ck	10.282	20.00	0.000	5.000	0.000	44.174	0.000	1.003	300.0	0.000
P13	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1026	284.0	0.000
P12	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.1386	286.0	0.000
P11	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0640	295.0	0.000
P10	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0392	284.0	0.000

P9	10.282	20.00	2.500	5.000	0.000	44 174	90.039	0 0254	281.0	0 000		
P8	10.282	20 00	2.500	5.000	0.000	44.174	90.039	0.0345	282.0	0 000		
P7	10.282	20.00	2.500	5.000	0.000	44.174	90.039	0.0199	279.0	0.000		
BG ck	10 282	20.00	0.000	5 000	0.000	44.174	0.000	0.4236	286.0	0.000		
L R	10 282	20.00	0 000	5 000	0.000	44.174	0.000	1 426	300.0	0.000		

##
Belrose

Results for period from 0: 0 0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 720
RETURN PERIOD (YRS) = 2.
BX = 1 0000
TOTAL OF FIRST SUB-AREAS (km2) = 5.42
IOTAL OF SECOND SUB-AREAS (km2) = 10 05
IOTAL OF ALL SUB-AREAS (km2) = 15.47

SUMMARY OF CATCHMENI AND RAINFAIL DAIA

Link Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1 000
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.001
P3	0.5700	1.320	14.00	14 00	1.000	99.00	025	.015	.0050	.0005	2.000
P4	1.100	3.290	12.00	12 00	.0100	100.0	025	.015	.0079	.0008	3.000
P5	0.3000	0 3000	11.30	11.30	.0100	100.0	.025	.015	.0041	.0002	4.000
P6	0 4200	0.4200	8.500	8.500	0100	100.0	.025	.015	0057	.0003	5.000
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	6 000
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1 002
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	025	015	.0035	0003	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	025	.015	.0055	.0003	8.000
P11	0.4300	0 2900	14.30	14.30	.0100	100.0	025	.015	.0044	.0002	9.000
P10	0.2600	0.1800	17 00	8.000	.0100	100.0	.025	.015	0031	.0002	10.00
P9	0 1400	0.1400	12 70	12.70	.0100	100.0	.025	.015	0026	.0002	11.00
P8	0.1100	0.2600	10.70	8.900	.0100	100.0	.025	.015	.0025	.0002	12.00
P7	0.0500	0.1600	15.40	15.40	.0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	7 001
I R	.00001	0.000	11.30	0 000	.0100	0.000	025	0.00	0 000	0 000	1.003

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	8.600	20.00	2.500	5 000	0.000	49.545	100.70	0 1090	420.0	0.000
LBG ck	8.600	20 00	0.000	5.000	0.000	49.545	0.000	0 1090	420 0	0.000
P3	8.600	20 00	2.500	5.000	0.000	49 545	100 70	0 1765	410.0	0 000
P4	8 600	20.00	2.500	5.000	0.000	49 545	100 70	0 4125	416.0	0 000
P5	8 600	20.00	2 500	5.000	0 000	49.545	100.70	0.0543	408.0	0 000
P6	8 600	20.00	2 500	5.000	0.000	49.545	100.70	0.0760	420.0	0 000
P2	8.600	20.00	2.500	5 000	0.000	49.545	100.70	0.1786	420.0	0.000
C ck	8.600	20.00	0.000	5.000	0.000	49.545	0.000	1.007	420.0	0.000
P13	8.600	20 00	2.500	5.000	0.000	49 545	100.70	0 1028	404 0	0.000
P12	8 600	20.00	2.500	5.000	0.000	49 545	100 70	0 1390	406.0	0 000
P11	8 600	20.00	2 500	5.000	0 000	49.545	100.70	0.0642	408.0	0 000
P10	8 600	20.00	2 500	5 000	0.000	49.545	100.70	0.0393	404.0	0.000
P9	8.600	20.00	2.500	5.000	0.000	49.545	100.70	0.0254	401.0	0.000
P8	8.600	20 00	2.500	5.000	0.000	49.545	100.70	0.0345	409.0	0.000
P7	8.600	20 00	2.500	5.000	0.000	49 545	100.70	0 0198	399 0	0.000
BG ck	8 600	20.00	0.000	5.000	0.000	49.545	0.000	0.4249	406 0	0.000
L R	8 600	20.00	0.000	5.000	0 000	49.545	0.000	1.431	420.0	0.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 20: 0.0 1/ 1/1991

##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 1080.
RETURN PERIOD (YRS) = 2.
BX = 1 0000
TOTAL OF FIRSI SUB-AREAS (km2) = 5.42
TOTAI OF SECOND SUB-AREAS (km2) = 10 05
TOTAI OF AII SUB-AREAS (km2) = 15 47

SUMMARY OF CAICHMENI AND RAINFALL DATA

Iink Label	Catch Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Link No.
P1	0.2900	0.8700	3.200	3 200	0.000	100.0	025	.015	.0076	.0008	1 000
LBG ck	.00001	0..000	11..30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1 001
P3	0.5700	1..320	14..00	14..00	1.000	99.00	.025	015	0050	.0005	2.000
P4	1.100	3.290	12.00	12..00	.0100	100 0	.025	.015	.0079	..0008	3..000
P5	0 3000	0..3000	11.30	11.30	..0100	100.0	.025	.015	.0041	..0002	4..000
P6	0.4200	0.4200	8..500	8 500	..0100	100.0	025	..015	..0057	.0003	5.000
P2	0.4800	1..430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	6 000
C ck	.00001	0.000	11..30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.002
P13	0 3300	0.7700	18.00	18..00	.0100	100 0	.025	015	0035	..0003	7..000
P12	0 9400	0..6200	21 00	21 00	..0100	100.0	..025	.015	.0055	.0003	8..000
P11	0.4300	0 2900	14.30	14.30	..0100	100.0	025	..015	.0044	.0002	9.000
P10	0.2600	0 1800	17..00	8.000	.0100	100..0	025	..015	..0031	0002	10 00
P9	0..1400	0.1400	12..70	12.70	.0100	100..0	.025	.015	.0026	.0002	11.00
P8	0 1100	0.2600	10.70	8.900	.0100	100.0	.025	015	0025	..0002	12..00
P7	0.0500	0.1600	15 40	15.40	..0100	100.0	.025	.015	.0014	.0001	13.00
BG ck	..00001	0..000	11.30	0 000	..0100	0.000	.025	0 00	0..000	0..000	7..001
I R	.00001	0..000	11..30	0.000	..0100	0.000	025	0.00	0 000	0..000	1.003

Iink Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	6.642	20.00	2.500	5..000	0..000	48..073	117.05	0 0722	415..0	0..000
LBG ck	6.642	20 00	0..000	5..000	0..000	48..073	0.000	0.0722	415 0	0..000
P3	6..642	20 00	2..500	5 000	0 000	48 073	117..05	0..1173	376 0	0.000
P4	6..642	20.00	2.500	5 000	0.000	48 073	117 .05	0..2733	390.0	0 000
P5	6 .642	20..00	2 500	5.000	0.000	48.073	117 .05	0..0353	376..0	0.000
P6	6.642	20..00	2.500	5.000	0..000	48.073	117 05	0 0494	388..0	0.000
P2	6.642	20.00	2.500	5..000	0..000	48..073	117.05	0 1190	411.0	0..000
C ck	6..642	20 00	0..000	5..000	0..000	48..073	0.000	0.6654	420 0	0..000
P13	6..642	20.00	2.500	5 000	0 000	48 073	117..05	0.0677	379 0	0.000
P12	6..642	20..00	2.500	5.000	0.000	48 073	117.05	0..0895	381.0	0 000
P11	6.642	20..00	2 500	5.000	0.000	48.073	117 .05	0..0414	378.0	0.000
P10	6.642	20.00	2.500	5..000	0..000	48..073	117.05	0.0254	373..0	0..000
P9	6.642	20 00	2..500	5.000	0 000	48..073	117.05	0 0167	374..0	0..000
P8	6..642	20 00	2.500	5 000	0 000	48 073	117..05	0.0229	374 0	0..000
P7	6.642	20.00	2.500	5 000	0.000	48 073	117.05	0.0132	368 0	0.000
BG ck	6.642	20..00	0 000	5.000	0.000	48 073	0..000	0..2764	378.0	0 000
I R	6 642	20..00	0.000	5.000	0..000	48.073	0..000	0.9417	418.0	0.000

Run completed at: 25th May 2004 9:33:54

Proposed Treated Rafts Output 50 year

Run completed at: 25th May 2004 8:50:17

Run started at: 4th June 2004 12:21:45

```
################################################################################
                    RUNTIME        RESULTS
################################################################################
```

Max. no. of links allowed = 2000

Max. no. of routng increments allowed = 30000

Max. no. of rating curve points = 30000

Max. no. of storm temporal points = 30000

Max no. of channel subreaches = 25

Max link stack level = 25

Input Version number = 600

```
################################################################################
```
Belrose

```
Results for period from  0: 0.0  1/ 1/1991
                   to  5: 0.0  1/ 1/1991
################################################################################
```

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 30.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 4.40
TOTAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Catch. Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Perm #1	Perm #2	B #1	B #2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
Tank 1A	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3.000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	.015	.0035	.0003	5.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	6.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8.000
Tank 4	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8.001

BG ck	.00001	0.000	11.30	0 000	.0100	0 000	.025	0.00	0.000	0 000	5 001
I R	00001	0 000	11.30	0.000	.0100	0 000	.025	0.00	0 000	0.000	1 004

Link Label	Average Intensity (mm/h)	Init. Ioss #1 (mm)	Init. Ioss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Iime to Peak	Link Lag mins
P1	117.24	20 00	2.500	5.000	0.000	36 786	56.120	0 6072	15.00	0 000
Tank 1A	117.24	20.00	0.000	5.000	0 000	36.786	0.000	0 6072	15.00	0.000
LBG ck	117 24	20.00	0.000	5 000	0 000	36.786	0.000	0.5985	15.00	0.000
P2	117.24	20.00	2 500	5 000	0.000	36.786	56 120	0.9197	15 00	0.000
tank1	117.24	20.00	0.000	5.000	0.000	36.786	0 000	0.9197	15 00	0.000
P3	117.24	20 00	2.500	5.000	0.000	36.786	56.120	1 081	15 00	0 000
Tank2	117.24	20 00	0.000	5.000	0 000	36 786	0.000	1 081	15.00	0 000
P4	117.24	20 00	2.500	5 000	0 000	36.786	56.120	2 460	15.00	0.000
Tank3	117.24	20.00	0 000	5 000	0 000	36.786	0.000	2.460	15.00	0.000
C ck	117.24	20.00	0 000	5 000	0.000	36.786	0.000	1.949	15.00	0.000
P13	117.24	20.00	2.500	5.000	0.000	36.786	56 120	0.6395	14.00	0.000
P11	117.24	20.00	2.500	5.000	0.000	36 786	56.120	0.4043	15 00	0 000
P10	117.24	20.00	2.500	5.000	0 000	36.786	56.120	0 2556	14 00	0 000
P12	117 24	20.00	2 500	5.000	0 000	36.786	56.120	0 8859	15.00	0 000
Tank 4	117.24	20.00	0 000	5 000	0.000	36.786	0.000	0.8859	15.00	0.000
BG ck	117.24	20.00	0.000	5 000	0.000	36.786	0.000	2.144	15.00	0.000
L R	117.24	20.00	0.000	5.000	0.000	36.786	0.000	4.092	15.00	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Tank 1A	15.00	.6072	15 00	.5985	594.99	0.0000	9.3518	.009352
tank1	15 00	.9197	12.00	.8000	979.71	0.0000	28.275	0.02827
Tank2	15.00	1 081	3.000	2100	950.99	0.0000	566.04	0.5660
Tank3	15.00	2.459	3.000	.3400	2250.9	0.0000	1603.4	1.6034
Tank 4	15.00	8859	15.00	.8500	694.52	0 0000	11 683	0.01168

SUMMARY OF BASIN OUTFEI RESULTS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1.000		0.000	0.5000	0 2000
tank1	1 0	1.000		0.000	0 5000	0.2000
Tank2	1.0	1.000		0.000	0 5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0.5000	0.2000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 60.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 4.40
TOTAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1 (%)	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	025	.015	.0076	.0008	1 000
Tank 1A	.00001	0.000	.0010	0 000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0 000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	0050	.0005	3.000
Tank2	.00001	0 000	.0010	0.000	0.000	0.000	025	0.00	0021	0.000	3 001

P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	00001	0 000	.0010	0.000	0.000	0 000	025	0 00	.0021	0 000	4.001
C ck	.00001	0.000	11 30	0.000	0100	0.000	.025	0.00	0.000	0.000	1 003
P13	0 3300	0.7700	18 00	18 00	.0100	100.0	.025	.015	.0035	.0003	5 000
P11	0 4300	0 2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	6.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	0055	.0003	8.000
Tank 4	00001	0.000	.0010	0 000	0.000	0 000	.025	0.00	.0021	0.000	8.001
BG ck	.00001	0.000	11.30	0.000	0100	0 000	025	0.00	0.000	0.000	5.001
L R	.00001	0 000	11 30	0.000	0100	0.000	025	0.00	0.000	0 000	1.004

Link Label	Average Intensity (mm/h)	Init. Ioss #1 (mm)	Ioss #2	Cont. Ioss #1 (mm/h)	Ioss #2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Link Lag mins
P1	83.013	20.00	2.500	5.000	0.000	59 096	80.513	0 6599	25 00	0.000
Tank 1A	83.013	20.00	0.000	5.000	0.000	59.096	0.000	0 6599	25.00	0.000
IBG ck	83.013	20.00	0.000	5.000	0 000	59.096	0 000	0.6400	23.00	0.000
P2	83.013	20.00	2.500	5.000	0 000	59.096	80 513	1.008	25.00	0.000
tank1	83 013	20.00	0 000	5 000	0.000	59.096	0 000	1.008	25.00	0.000
P3	83 013	20.00	2 500	5.000	0.000	59.096	80.513	1.111	25.00	0.000
Iank2	83.013	20.00	0.000	5.000	0.000	59.096	0.000	1.111	25.00	0.000
P4	83.013	20.00	2.500	5.000	0.000	59 096	80.513	2 557	24.00	0 000
Tank3	83.013	20.00	0.000	5.000	0.000	59 096	0.000	2 557	24 00	0.000
C ck	83.013	20.00	0.000	5.000	0.000	59.096	0.000	1.990	23 00	0.000
P13	83 013	20.00	2.500	5.000	0 000	59.096	80 513	0 6647	24.00	0.000
P11	83 013	20.00	2 500	5 000	0.000	59.096	80 513	0.4172	25.00	0.000
P10	83.013	20.00	2 500	5.000	0.000	59.096	80.513	0.2592	24.00	0.000
P12	83.013	20.00	2 500	5.000	0.000	59.096	80.513	0.9067	25.00	0.000
Tank 4	83.013	20 00	0.000	5.000	0.000	59 096	0.000	0.9067	25.00	0 000
BG ck	83.013	20.00	0.000	5.000	0.000	59 096	0.000	2 184	24.00	0 000
L R	83.013	20.00	0.000	5.000	0 000	59.096	0.000	4 174	24 00	0.000

SUMMARY OF BASIN RESULIS

Link Label	Iime to Peak	Peak Inflow (m^3/s)	Iime to Peak	Peak Outflow (m^3/s)	Iotal Inflow (m^3)	Basin Vol. Avail	Basin Vol Used	Basin Stage Used
Iank 1A	25.00	.6599	23 00	.6400	871.38	0.0000	10.860	0.01086
tank1	25 00	1 007	22.00	8000	1434 4	0 0000	51.704	0.05170
Tank2	25.00	1.111	7.000	.2100	1399.3	0.0000	737.66	0.7377
Iank3	24.00	2.557	6.000	.3400	3298.7	0.0000	2142.1	2.1421
Iank 4	25.00	9067	24.00	.8500	1055.1	0.0000	14.511	0.01451

SUMMARY OF BASIN OUILEI RESULIS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1 000		0 000	0.5000	0 2000
tank1	1 0	1 000		0.000	0.5000	0.2000
Tank2	1 0	1.000		0.000	0.5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0.2000
Iank 4	1.0	1.000		0.000	0 5000	0.2000

LINK P1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 90.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 4.40
IOIAI OF SECOND SUB-AREAS (km2) = 8.77
IOIAL OF ALL SUB-AREAS (km2) = 13 17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1 (%)	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
Tank 1A	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3.000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	.015	.0035	.0003	5.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	6.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8.000
Tank 4	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8.001
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	5.001
L R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	64.820	20.00	2.500	5.000	0.000	70.896	94.730	0.7067	27.00	0.000
Tank 1A	64.820	20.00	0.000	5.000	0.000	70.896	0.000	0.7067	27.00	0.000
LBG ck	64.820	20.00	0.000	5.000	0.000	70.896	0.000	0.6400	27.00	0.000
P2	64.820	20.00	2.500	5.000	0.000	70.896	94.730	1.094	30.00	0.000
tank1	64.820	20.00	0.000	5.000	0.000	70.896	0.000	1.094	30.00	0.000
P3	64.820	20.00	2.500	5.000	0.000	70.896	94.730	1.175	29.00	0.000
Tank2	64.820	20.00	0.000	5.000	0.000	70.896	0.000	1.175	29.00	0.000
P4	64.820	20.00	2.500	5.000	0.000	70.896	94.730	2.695	27.00	0.000
Tank3	64.820	20.00	0.000	5.000	0.000	70.896	0.000	2.695	27.00	0.000
C ck	64.820	20.00	0.000	5.000	0.000	70.896	0.000	1.990	27.00	0.000
P13	64.820	20.00	2.500	5.000	0.000	70.896	94.730	0.7051	29.00	0.000
P11	64.820	20.00	2.500	5.000	0.000	70.896	94.730	0.4381	30.00	0.000
P10	64.820	20.00	2.500	5.000	0.000	70.896	94.730	0.2727	29.00	0.000
P12	64.820	20.00	2.500	5.000	0.000	70.896	94.730	0.9519	30.00	0.000
Tank 4	64.820	20.00	0.000	5.000	0.000	70.896	0.000	0.9519	30.00	0.000
BG ck	64.820	20.00	0.000	5.000	0.000	70.896	0.000	2.261	29.00	0.000
L R	64.820	20.00	0.000	5.000	0.000	70.896	0.000	4.251	29.00	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Tank 1A	27.00	.7067	27.00	6400	1029.7	0.0000	19.178	0.01918
tank1	30.00	1.094	27.00	8000	1695.5	0.0000	74.480	0.07448
Tank2	29.00	1.174	7.000	.2100	1653.5	0.0000	728.89	0.7289
Tank3	27.00	2.695	6.000	.3400	3894.8	0.0000	2231.6	2.2316
Tank 4	30.00	9519	28.00	.8500	1253.6	0.0000	19.982	0.01998

SUMMARY OF BASIN OUTLET RESULTS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1.000		0.000	0.5000	0.2000
tank1	1.0	1.000		0.000	0.5000	0.2000
Tank2	1.0	1.000		0.000	0.5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0.5000	0.2000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 5: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 120.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 4.40
TOTAI OF SECOND SUB-AREAS (km2) = 8.77
TOIAI OF AII SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFAII DATA

Iink Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No.
P1	0.2900	0.8700	3.200	3 200	0 000	100.0	.025	.015	.0076	.0008	1.000
Iank 1A	.00001	0 000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0 000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	025	.015	.0136	.0014	2.000
tankl	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3 000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3 001
P4	1.100	3 290	12.00	12.00	.0100	100.0	.025	.015	0079	.0008	4.000
Iank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0 000	4.001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18.00	18 00	.0100	100.0	025	.015	.0035	.0003	5.000
P11	0.4300	0 2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	6.000
P10	0 2600	0.1800	17.00	8.000	0100	100.0	.025	.015	.0031	.0002	7 000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	0055	.0003	8 000
Iank 4	00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8.001
BG ck	00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0 000	5.001
I R	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	54 188	20.00	2 500	5.000	0.000	80.126	105.88	0 6571	32.00	0.000
Iank 1A	54.188	20.00	0 000	5.000	0.000	80.126	0.000	0 6571	32.00	0 000
IBG ck	54.188	20.00	0.000	5.000	0.000	80.126	0.000	0.6400	35.00	0 000
P2	54.188	20 00	2.500	5.000	0.000	80 126	105.88	1.021	35.00	0.000
tankl	54.188	20.00	0.000	5.000	0 000	80 126	0.000	1.021	35.00	0.000
P3	54.188	20.00	2.500	5 000	0 000	80.126	105.88	1.109	34.00	0.000
Tank2	54 188	20.00	0 000	5.000	0.000	80.126	0.000	1 109	34.00	0.000
P4	54.188	20.00	2.500	5.000	0.000	80.126	105.88	2 537	32 00	0.000
Iank3	54.188	20.00	0.000	5.000	0.000	80.126	0.000	2.537	32.00	0.000
C ck	54.188	20.00	0.000	5.000	0.000	80 126	0.000	1.990	35.00	0 000
P13	54.188	20 00	2.500	5.000	0 000	80.126	105.88	0.6704	34.00	0 000
P11	54.188	20.00	2.500	5.000	0 000	80.126	105.88	0.4119	35.00	0 000
P10	54.188	20.00	2.500	5 000	0.000	80.126	105.88	0.2631	34.00	0.000
P12	54.188	20.00	2 500	5 000	0.000	80.126	105.88	0.8961	34.00	0.000
Tank 4	54.188	20.00	0 000	5.000	0.000	80.126	0.000	0.8962	34 00	0.000
BG ck	54.188	20.00	0.000	5.000	0.000	80.126	0 000	2.186	34.00	0 000
L R	54.188	20 00	0.000	5.000	0.000	80 126	0 000	4.153	34.00	0 000

SUMMARY OF BASIN RESULIS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Iime to Peak	Peak Outflow (m^3/s)	Iotal Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Iank 1A	32.00	.6571	35 00	.6400	1152.8	0 0000	10.893	0.01089
tankl	35.00	1.020	32.00	8000	1898 1	0.0000	56.957	0.05696
Tank2	34.00	1.108	8.000	.2100	1854.4	0.0000	690.89	0.6909
Iank3	32.00	2.536	7.000	.3400	4365.1	0.0000	2247.8	2.2478
Tank 4	34.00	.8962	34.00	.8500	1409.9	0.0000	13.439	0.01344

SUMMARY OF BASIN OUIIEI RESUIIS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Iank 1A	1.0	1.000		0.000	0.5000	0 2000
tankl	1.0	1.000		0.000	0.5000	0.2000
Tank2	1.0	1.000		0.000	0.5000	0.2000
Iank3	1.0	1.000		0 000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0.5000	0.2000

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################################################################################################
Belrose

Results for period from  0: 0.0  1/ 1/1991
                   to  5: 0.0  1/ 1/1991
################################################################################################
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ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 180.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 4.40
TOTAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch Area #1 (ha)	Catch Area #2 (ha)	Slope #1 (%)	Slope #2 (%)	% Impervious #1 (%)	% Impervious #2 (%)	Perm #1	Perm #2	B #1	B #2	Link No
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	0076	.0008	1.000
Tank 1A	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3.000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	015	0035	.0003	5.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	0002	6.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8.000
Tank 4	00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8.001
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	5.001
I R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.3756	45.00	0.000
Tank 1A	41.976	20.00	0.000	5.000	0.000	92.928	0.000	0.3756	45.00	0.000
LBG ck	41.976	20.00	0.000	5.000	0.000	92.928	0.000	0.3756	45.00	0.000
P2	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.6113	45.00	0.000
tank1	41.976	20.00	0.000	5.000	0.000	92.928	0.000	0.6113	45.00	0.000
P3	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.6114	44.00	0.000
Tank2	41.976	20.00	0.000	5.000	0.000	92.928	0.000	0.6114	44.00	0.000
P4	41.976	20.00	2.500	5.000	0.000	92.928	123.43	1.423	41.00	0.000
Tank3	41.976	20.00	0.000	5.000	0.000	92.928	0.000	1.423	41.00	0.000
C ck	41.976	20.00	0.000	5.000	0.000	92.928	0.000	1.536	45.00	0.000
P13	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.3566	34.00	0.000
P11	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.2302	38.00	0.000
P10	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.1405	39.00	0.000
P12	41.976	20.00	2.500	5.000	0.000	92.928	123.43	0.4983	45.00	0.000
Tank 4	41.976	20.00	0.000	5.000	0.000	92.928	0.000	0.4983	45.00	0.000
BG ck	41.976	20.00	0.000	5.000	0.000	92.928	0.000	1.224	41.00	0.000
I R	41.976	20.00	0.000	5.000	0.000	92.928	0.000	2.760	45.00	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Tank 1A	45.00	.3756	45.00	.3756	1343.2	0.0000	5.8684	005868
tank1	45.00	.6113	45.00	.6108	2211.1	0.0000	7.6352	.007635
Tank2	44.00	.6114	17.00	.2100	2158.6	0.0000	577.68	0.5777
Tank3	41.00	1.422	16.00	.3400	5082.6	0.0000	2077.0	2.0770
Tank 4	45.00	.4983	39.00	.4981	1638.6	0.0000	5.8601	.005860

SUMMARY OF BASIN OUTLET RESULTS

Link Label	No of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1.000		0 000	0.5000	0.2000
tank1	1.0	1.000		0 000	0.5000	0.2000
Tank2	1.0	1 000		0.000	0.5000	0.2000
Tank3	1 0	1.000		0.000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0 5000	0.2000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUIING INCREMENI (MINS) = 1.00
STORM DURAIION (MINS) = 270.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOIAL OF FIRSI SUB-AREAS (km2) = 4 40
TOIAL OF SECOND SUB-AREAS (km2) = 8.77
TOIAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CAICHMENI AND RAINFAIL DATA

Iink Iabel	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Pern #1	#2	B #1	#2	Iink No
P1	0.2900	0.8700	3.200	3 200	0.000	100.0	.025	.015	.0076	.0008	1 000
Tank 1A	.00001	0 000	.0010	0 000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0 000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1 430	1.700	1.700	.0100	100.0	.025	.015	0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0 000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1 000	99.00	025	.015	.0050	.0005	3.000
Tank2	00001	0.000	.0010	0.000	0.000	0.000	025	0.00	.0021	0.000	3 001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4 000
Tank3	.00001	0 000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18 00	18.00	.0100	100.0	.025	015	0035	.0003	5.000
P11	0.4300	0.2900	14.30	14.30	.0100	100 0	.025	.015	.0044	.0002	6.000
P10	0.2600	0 1800	17.00	8.000	.0100	100.0	025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	025	.015	.0055	.0003	8.000
Tank 4	.00001	0 000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8 001
BG ck	.00001	0 000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0 000	5 001
L R	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0 000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	#2	Cont. Loss #1 (mm/h)	#2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Link Iag mins
P1	32.477	20.00	2.500	5.000	0.000	106 98	143.65	0.3313	75.00	0.000
Tank 1A	32.477	20.00	0.000	5.000	0.000	106.98	0.000	0.3313	75.00	0.000
LBG ck	32.477	20.00	0 000	5 000	0.000	106.98	0.000	0.3306	75.00	0 000
P2	32.477	20.00	2.500	5 000	0 000	106.98	143.65	0 5372	75.00	0 000
tank1	32.477	20.00	0.000	5.000	0 000	106.98	0.000	0 5372	75.00	0.000
P3	32.477	20.00	2.500	5.000	0.000	106.98	143.65	0.5385	69.00	0.000
Tank2	32.477	20.00	0.000	5.000	0.000	106.98	0.000	0.5385	69 00	0.000
P4	32.477	20.00	2.500	5.000	0.000	106.98	143.65	1.256	74.00	0.000
Tank3	32 477	20.00	0.000	5.000	0 000	106.98	0.000	1.256	74.00	0.000
C ck	32.477	20.00	0.000	5.000	0 000	106.98	0.000	1.417	75.00	0 000
P13	32.477	20.00	2.500	5.000	0.000	106.98	143.65	0 3144	66.00	0.000
P11	32.477	20.00	2.500	5.000	0.000	106.98	143.65	0 2037	68.00	0.000
P10	32.477	20.00	2.500	5.000	0.000	106.98	143.65	0.1237	69.00	0.000
P12	32.477	20.00	2.500	5.000	0.000	106.98	143.65	0.4387	71.00	0.000
Tank 4	32.477	20.00	0 000	5.000	0.000	106.98	0.000	0.4387	71.00	0.000
BG ck	32.477	20.00	0.000	5.000	0 000	106.98	0.000	1.078	74.00	0.000
L R	32.477	20.00	0.000	5.000	0.000	106.98	0.000	2.493	74.00	0.000

SUMMARY OF BASIN RESULIS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Tank 1A	75.00	3313	75.00	.3306	1559.6	0.0000	5.1654	.005165
tank1	75.00	.5372	75.00	.5369	2567.3	0.0000	6.7111	.006711
Tank2	69.00	.5385	33.00	.2100	2505.4	0.0000	477.92	0.4779
Tank3	74.00	1.256	31.00	.3400	5900.9	0.0000	1716.2	1.7162
Tank 4	71.00	.4387	74.00	.4379	1896.0	0.0000	5.1522	.005152

SUMMARY OF BASIN OUTLET RESULTS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1.000		0.000	0.5000	0.2000
tank1	1.0	1.000		0.000	0.5000	0.2000
Tank2	1.0	1.000		0.000	0.5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0.5000	0.2000

LINK P1 1.000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 10: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 360.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 4.40
TOTAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	Area #2	Slope #1 (%)	Slope #2	% Impervious #1 (%)	% Impervious #2	Perm #1	Perm #2	B #1	B #2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
Tank 1A	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3.000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18.00	18.00	.0100	100.0	.025	.015	.0035	.0003	5.000
P11	0.4300	0.2900	14.30	14.30	.0100	100.0	.025	.015	.0044	.0002	6.000
P10	0.2600	0.1800	17.00	8.000	.0100	100.0	.025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8.000
Tank 4	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	8.001
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	5.001
I R	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init Loss #1 (mm)	Init Loss #2	Cont. Loss #1 (mm/h)	Cont. Loss #2	Excess Rain #1 (mm)	Excess Rain #2	Peak Inflow (m^3/s)	Time to Peak	Link lag mins
P1	27.078	20.00	2.500	5.000	0.000	117.47	159.97	0.2399	113.0	0.000
Tank 1A	27.078	20.00	0.000	5.000	0.000	117.47	0.000	0.2399	113.0	0.000
LBG ck	27.078	20.00	0.000	5.000	0.000	117.47	0.000	0.2399	118.0	0.000
P2	27.078	20.00	2.500	5.000	0.000	117.47	159.97	0.3948	120.0	0.000
tank1	27.078	20.00	0.000	5.000	0.000	117.47	0.000	0.3948	120.0	0.000
P3	27.078	20.00	2.500	5.000	0.000	117.47	159.97	0.3896	111.0	0.000
Tank2	27.078	20.00	0.000	5.000	0.000	117.47	0.000	0.3896	111.0	0.000
P4	27.078	20.00	2.500	5.000	0.000	117.47	159.97	0.9088	106.0	0.000
Tank3	27.078	20.00	0.000	5.000	0.000	117.47	0.000	0.9089	106.0	0.000

C ck	27.078	20 00	0..000	5..000	0.000	117 47	0.000	1.185	120.0	0..000
P13	27.078	20.00	2..500	5..000	0.000	117 47	159.97	0..2278	99.00	0..000
P11	27 078	20..00	2 500	5 000	0..000	117.47	159.97	0 1455	110.0	0 000
P10	27.078	20..00	2 500	5 000	0..000	117..47	159 97	0 0890	99.00	0..000
P12	27.078	20 00	2.500	5.000	0.000	117.47	159.97	0.3163	101.0	0..000
Tank 4	27..078	20 00	0..000	5..000	0.000	117 47	0 000	0.3163	101..0	0..000
BG ck	27 078	20.00	0.000	5..000	0.000	117 47	0.000	0.7769	101..0	0..000
L R	27.078	20..00	0.000	5 000	0..000	117.47	0.000	1 961	118..0	0 000

SUMMARY OF BASIN RESULIS

Iink Iabel	Iime to Peak	Peak Inflow (m^3/s)	Iime to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	--------- Basin --------- Vol. Avail	Vol.. Used	Stage Used
Iank 1A	113 0	2399	118.0	.2399	1732.0	0 .0000	3.7479	.003748
tank1	120..0	.3948	120.0	.3948	2850..5	0 0000	4.9356	..004936
Tank2	111..0	..3896	91.00	..2100	2780..5	0..0000	403.04	0 .4030
Iank3	106..0	.9089	63.00	.3400	6553 .4	0..0000	1584.2	1.5842
Iank 4	101 .0	.3163	106 .0	.3151	2095 7	0..0000	3.7071	003707

SUMMARY OF BASIN OUTIET RESULIS

Link Label	No.. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1..0	1..000		0..000	0..5000	0 .2000
tank1	1..0	1..000		0..000	0..5000	0 2000
Tank2	1..0	1 .000		0 .000	0..5000	0..2000
Tank3	1 0	1..000		0 000	0 .5000	0..2000
Tank 4	1..0	1..000		0..000	0..5000	0..2000

##
Belrose

Results for period from 0: 0 0 1/ 1/1991
to 15: 0..0 1/ 1/1991
##

ROUIING INCREMENT (MINS) = 1.00
STORM DURAIION (MINS) = 540.
RETURN PERIOD (YRS) = 50.
BX = 1..0000
TOIAL OF FIRSI SUB-AREAS (km2) = 4.40
TOIAL OF SECOND SUB-AREAS (km2) = 8.77
TOIAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENI AND RAINFALL DAIA

Link Iabel	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No..
P1	0.2900	0.8700	3.200	3 200	0 .000	100.0	..025	.015	.0076	.0008	1 000
Tank 1A	00001	0..000	.0010	0 .000	0.000	0..000	.025	0 .00	.0021	0..000	1.001
LBG ck	.00001	0 .000	11.30	0 .000	..0100	0.000	.025	0.00	0.000	0.000	1..002
P2	0.4800	1 .430	1.700	1..700	.0100	100.0	.025	.015	.0136	.0014	2..000
tank1	.00001	0 .000	.0010	0.000	0..000	0.000	.025	0.00	.0021	0.000	2..001
P3	0.5700	1..320	14.00	14.00	1 .000	99.00	..025	.015	..0050	.0005	3 .000
Tank2	.00001	0..000	.0010	0.000	0.000	0.000	..025	0.00	0021	0.000	3 .001
P4	1.100	3 .290	12.00	12.00	.0100	100.0	025	.015	.0079	.0008	4 .000
Tank3	..00001	0 .000	.0010	0..000	0.000	0 .000	.025	0.00	.0021	0..000	4 .001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	..025	0.00	0.000	0.000	1..003
P13	0.3300	0..7700	18.00	18..00	.0100	100 0	..025	.015	..0035	.0003	5..000
P11	0..4300	0 2900	14 30	14.30	.0100	100.0	..025	015	.0044	.0002	6..000
P10	0..2600	0 .1800	17 00	8.000	.0100	100..0	.025	.015	.0031	.0002	7..000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8..000
Tank 4	..00001	0.000	.0010	0..000	0.000	0 .000	..025	0 .00	.0021	0 .000	8..001
BG ck	.00001	0..000	11..30	0 .000	0100	0 .000	..025	0..00	0 .000	0 .000	5..001
L R	00001	0..000	11 .30	0 000	.0100	0..000	..025	0..00	0 .000	0..000	1 .004

Link	Average	Init. Loss	Cont. Loss	Excess Rain	Peak	Iime	Iink

Label	Intensity (mm/h)	#1 (mm)	#2	#1 (mm/h)	#2	#1 (mm)	#2	Inflow (m^3/s)	to Peak	lag mins
P1	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.2100	297.0	0.000
Tank 1A	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.2101	297.0	0.000
LBG ck	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.2100	300.0	0.000
P2	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.3456	300.0	0.000
tank1	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.3456	300.0	0.000
P3	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.3412	282.0	0.000
Tank2	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.3412	282.0	0.000
P4	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.7951	292.0	0.000
Tank3	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.7951	292.0	0.000
C ck	20.973	20.00	0.000	5.000	0.000	129.92	0.000	1.106	300.0	0.000
P13	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.2001	279.0	0.000
P11	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.1269	283.0	0.000
P10	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.0776	281.0	0.000
P12	20.973	20.00	2.500	5.000	0.000	129.92	186.26	0.2760	283.0	0.000
Tank 4	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.2760	283.0	0.000
BG ck	20.973	20.00	0.000	5.000	0.000	129.92	0.000	0.6795	281.0	0.000
L R	20.973	20.00	0.000	5.000	0.000	129.92	0.000	1.784	300.0	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	--------- Basin --------- Vol. Avail	Vol. Used	Stage Used
Tank 1A	297.0	.2101	300.0	.2100	1996.7	0.0000	3.2815	.003281
tank1	300.0	.3456	300.0	.3456	3286.2	0.0000	4.3196	.004320
Tank2	282.0	.3412	272.0	.2100	3198.2	0.0000	309.49	0.3095
Tank3	292.0	.7951	152.0	.3400	7555.1	0.0000	1261.4	1.2614
Tank 4	283.0	.2760	281.0	.2750	2375.3	0.0000	3.2357	.003236

SUMMARY OF BASIN OUTLET RESULTS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1.000		0.000	0.5000	0.2000
tank1	1.0	1.000		0.000	0.5000	0.2000
Tank2	1.0	1.000		0.000	0.5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0.2000
Tank 4	1.0	1.000		0.000	0.5000	0.2000

##
Belrose

Results for period from 0: 0.0 1/ 1/1991
to 15: 0.0 1/ 1/1991
##

ROUTING INCREMENT (MINS) = 1.00
STORM DURATION (MINS) = 720.
RETURN PERIOD (YRS) = 50.
BX = 1.0000
TOTAL OF FIRST SUB-AREAS (km2) = 4.40
TOTAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF ALL SUB-AREAS (km2) = 13.17

SUMMARY OF CATCHMENT AND RAINFALL DATA

Link Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.
P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
Tank 1A	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	.0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	2.001
P3	0.5700	1.320	14.00	14.00	1.000	99.00	.025	.015	.0050	.0005	3.000
Tank2	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0.00	0.000	0.000	1.003

P13	0.3300	0.7700	18.00	18 00	.0100	100.0	025	.015	.0035	.0003	5.000
P11	0.4300	0.2900	14..30	14.30	.0100	100..0	.025	..015	.0044	..0002	6..000
P10	0.2600	0..1800	17.00	8.000	0100	100.0	..025	.015	.0031	.0002	7.000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8 000
Tank 4	..00001	0.000	.0010	0.000	0.000	0..000	.025	0.00	.0021	0 000	8 001
BG ck	.00001	0 000	11.30	0..000	..0100	0..000	025	0 00	0.000	0.000	5.001
L R	00001	0.000	11..30	0.000	.0100	0.000	.025	0.00	0 000	0.000	1.004

Iink Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Loss #2	Cont. Loss #1 (mm/h)	Loss #2	Excess Rain #1 (mm)	#2	Peak Inflow (m^3/s)	Iime to Peak	Link Iag mins
P1	17 503	20.00	2.500	5.000	0.000	142.62	207.53	0..2098	415.0	0 000
Tank 1A	17.503	20.00	0..000	5..000	0 000	142..62	0.000	0 2098	415 0	0.000
LBG ck	17..503	20 00	0..000	5.000	0.000	142..62	0.000	0 2098	420 0	0..000
P2	17..503	20 00	2.500	5 000	0..000	142 62	207.53	0.3452	420.0	0..000
tank1	17.503	20.00	0 000	5.000	0..000	142 62	0.000	0.3452	420.0	0..000
P3	17 503	20..00	2.500	5..000	0 000	142.62	207.53	0..3409	399..0	0 000
Iank2	17.503	20..00	0.000	5..000	0 000	142..62	0.000	0 3409	399..0	0 000
P4	17..503	20 00	2..500	5.000	0.000	142..62	207.53	0 7940	412 .0	0..000
Iank3	17..503	20 00	0 000	5 000	0..000	142 .62	0..000	0.7940	412 0	0..000
C ck	17.503	20.00	0 000	5.000	0..000	142 62	0.000	1.105	420.0	0..000
P13	17.503	20..00	2.500	5..000	0.000	142.62	207.53	0..1990	399..0	0 000
P11	17.503	20..00	2.500	5..000	0 000	142..62	207..53	0..1268	401..0	0 000
P10	17..503	20 00	2..500	5.000	0.000	142..62	207..53	0 0775	399..0	0..000
P12	17..503	20.00	2.500	5.000	0..000	142.62	207.53	0 2753	403 0	0..000
Tank 4	17.503	20.00	0 000	5.000	0..000	142 62	0 000	0.2753	403.0	0..000
BG ck	17.503	20..00	0.000	5..000	0.000	142.62	0 000	0.6777	401.0	0 000
L R	17..503	20.00	0..000	5..000	0 000	142..62	0.000	1..782	420..0	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Iime to Peak	Peak Outflow (m^3/s)	Iotal Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Iank 1A	415..0	..2098	420.0	.2098	2218..4	0..0000	3..2778	003278
tank1	420..0	..3452	420 0	..3452	3651..1	0.0000	4.3155	.004316
Tank2	399.0	.3409	391.0	..2100	3551.2	0 0000	234.76	0..2348
Iank3	412.0	7940	343..0	.3400	8393 7	0.0000	1013.9	1.0139
Iank 4	403.0	.2753	408..0	2745	2626.2	0..0000	3.2299	..003230

SUMMARY OF BASIN OUIIET RESULIS

Link Label	No of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1..000		0..000	0..5000	0.2000
tank1	1 0	1..000		0..000	0..5000	0.2000
Iank2	1.0	1 000		0..000	0 5000	0.2000
Iank3	1..0	1 000		0..000	0.5000	0.2000
Iank 4	1..0	1.000		0 000	0.5000	0..2000

##
Belrose

Results for period from 0: 0 0 1/ 1/1991
to 20: 0.0 1/ 1991
##

ROUIING INCREMENI (MINS) = 1.00
STORM DURATION (MINS) = 1080.
RETURN PERIOD (YRS) = 50.
BX = 1..0000
TOTAI OF FIRST SUB-AREAS (km2) = 4.40
IOIAL OF SECOND SUB-AREAS (km2) = 8.77
TOTAL OF AII SUB-AREAS (km2) = 13..17

SUMMARY OF CAICHMENT AND RAINFAII DAIA

Iink Label	Catch. Area #1 (ha)	#2	Slope #1 (%)	#2	% Impervious #1 (%)	#2	Perm #1	#2	B #1	#2	Link No.

P1	0.2900	0.8700	3.200	3.200	0.000	100.0	.025	.015	.0076	.0008	1.000
Tank 1A	.00001	0 000	.0010	0 000	0.000	0 000	.025	0.00	.0021	0.000	1.001
LBG ck	.00001	0 000	11.30	0 000	.0100	0.000	.025	0.00	0.000	0.000	1.002
P2	0.4800	1.430	1.700	1.700	.0100	100.0	.025	.015	0136	.0014	2.000
tank1	.00001	0.000	.0010	0.000	0 000	0.000	025	0.00	0021	0.000	2 001
P3	0.5700	1.320	14.00	14.00	1 000	99.00	.025	.015	.0050	.0005	3 000
Tank2	00001	0.000	.0010	0.000	0.000	0.000	.025	0.00	.0021	0.000	3.001
P4	1.100	3.290	12.00	12.00	.0100	100.0	.025	.015	.0079	.0008	4.000
Tank3	.00001	0.000	.0010	0.000	0.000	0 000	.025	0 00	.0021	0.000	4.001
C ck	.00001	0.000	11.30	0.000	0100	0.000	.025	0.00	0.000	0.000	1.003
P13	0.3300	0.7700	18 00	18 00	.0100	100.0	025	.015	0035	.0003	5.000
P11	0.4300	0 2900	14.30	14.30	.0100	100.0	.025	.015	.0044	0002	6.000
P10	0.2600	0 1800	17.00	8.000	.0100	100.0	.025	.015	.0031	0002	7 000
P12	0.9400	0.6200	21.00	21.00	.0100	100.0	.025	.015	.0055	.0003	8.000
Tank 4	.00001	0.000	.0010	0 000	0.000	0 000	.025	0.00	.0021	0.000	8.001
BG ck	.00001	0.000	11.30	0.000	.0100	0.000	.025	0 00	0 000	0.000	5.001
L R	.00001	0.000	11 30	0.000	0100	0.000	025	0.00	0.000	0.000	1.004

Link Label	Average Intensity (mm/h)	Init. Loss #1 (mm)	Init. Loss #2 (mm)	Cont. Loss #1 (mm/h)	Cont. Loss #2 (mm/h)	Excess Rain #1 (mm)	Excess Rain #2 (mm)	Peak Inflow (m^3/s)	Time to Peak	Link Lag mins
P1	13.578	20.00	2.500	5.000	0.000	154.41	241.90	0.1409	420.0	0.000
Tank 1A	13 578	20.00	0.000	5.000	0 000	154.41	0.000	0.1409	420.0	0.000
LBG ck	13.578	20.00	0.000	5.000	0.000	154.41	0.000	0.1408	396.0	0.000
P2	13.578	20 00	2.500	5 000	0.000	154 41	241.90	0.2319	420.0	0.000
tank1	13.578	20.00	0.000	5.000	0.000	154.41	0.000	0.2319	420 0	0.000
P3	13.578	20.00	2.500	5.000	0.000	154.41	241.90	0.2290	376.0	0 000
Tank2	13.578	20.00	0.000	5.000	0.000	154.41	0.000	0 2290	376.0	0 000
P4	13 578	20.00	2.500	5.000	0 000	154.41	241.90	0.5331	384.0	0.000
Tank3	13.578	20.00	0.000	5 000	0.000	154.41	0.000	0.5331	384.0	0.000
C ck	13.578	20 00	0 000	5 000	0.000	154 41	0.000	0.9227	420.0	0.000
P13	13.578	20 00	2.500	5.000	0.000	154 41	241.90	0.1351	372.0	0.000
P11	13.578	20.00	2.500	5.000	0.000	154.41	241.90	0.0840	383 0	0.000
P10	13 578	20.00	2.500	5.000	0.000	154.41	241.90	0 0514	374 0	0.000
P12	13 578	20.00	2.500	5.000	0 000	154.41	241.90	0 1823	372.0	0 000
Tank 4	13.578	20.00	0 000	5 000	0 000	154.41	0.000	0.1823	372.0	0 000
BG ck	13.578	20 00	0 000	5 000	0 000	154.41	0.000	0.4521	374.0	0.000
I R	13.578	20 00	0.000	5.000	0.000	154 41	0 000	1.374	404.0	0.000

SUMMARY OF BASIN RESULTS

Link Label	Time to Peak	Peak Inflow (m^3/s)	Time to Peak	Peak Outflow (m^3/s)	Total Inflow (m^3)	Basin Vol. Avail	Basin Vol. Used	Basin Stage Used
Tank 1A	420 0	.1409	396.0	.1408	2551.7	0 0000	2.2006	.002201
tank1	420.0	.2319	420.0	.2319	4199.1	0 0000	2.8983	.002898
Tank2	376.0	.2290	367.0	.2100	4072.1	0.0000	67.005	0.06701
Tank3	384.0	.5331	362.0	.3400	9654.1	0.0000	674.37	0.6744
Tank 4	372.0	.1823	381.0	1818	2950 2	0.0000	2.1389	.002139

SUMMARY OF BASIN OUTLET RESULTS

Link Label	No. of	S/D Factor (m)	Dia (m)	Width (m)	Pipe Length (m)	Pipe Slope (%)
Tank 1A	1.0	1 000		0.000	0 5000	0.2000
tank1	1.0	1.000		0 000	0 5000	0.2000
Tank2	1.0	1.000		0.000	0.5000	0.2000
Tank3	1.0	1.000		0.000	0.5000	0 2000
Tank 4	1.0	1.000		0.000	0.5000	0 2000

Run completed at: 4th June 2004 12:21:51

APPENDIX B

Water Balance Calculation Results

All volumes in (m^3/yr), for annual average year		No-controls	Option - A	Option - C
Flow to Rainwater Tanks	(1)	-	-	27,844
Rainwater Tank water losses as overflow	(2)	-	-	8,738
Water available from Rainwater Tanks	3 = (1-2)	-	-	19,107
Rainwater Tank demand for irrigation	(4)	-	-	3499
Rainwater Tank demand for internal demand incl. car washing	(5)	-	-	24,929
Potable water demand as a substitute for Rainwater Tank	(6)	3,499	28,803	9,235
Potable Water demand general internal use	(7)	67,165	28,718	28,718
Total potable water use	8 =(6+7)	70,664	57,521	37,953
Total Water Use	9 = (3+8)	70,664	57,521	57,060
Potable Water Use Reduction (%)		-	19%	46%

No Controls – Traditional household;
Option A – Includes the implementation of water saving devices;
Option B – Rainwater tank (5000L/detached lot and 3000L/apartment) used for irrigation, car washing, washing machine and toilet flushing (with reductions).

Water Balance Assumptions

- Volumes have been estimated by adopting typical areas per lot for each of the different land uses as shown below; Occupancy rates have been adopted from similar sized developments;

  Conventional - 3.06 people/dwelling;
  Small Conventional - 3.06; and
  Compact - 2.0 people/dwelling.

- Detached lot irrigation volumes are based on residential irrigation of private gardens with 50% of pervious areas being irrigated;
- Apartment building irrigation volumes are based on irrigation of 5,000m^2 of landscaping within the bio-retention basins;
- Irrigation demand derived from water balance results in an average of 17 l/dwelling/day (including, 36 detached dwellings and 530 apartments).

Combined Conventional and Small Lots	36 lots	(470sq.m 70% hardstand each lot)
	sq.m/ lot	**sq.m/ land use**
Imperv to Tank	131	4,700
Imperv not to tank	207	7,437
perv to be irrigated	70	2,525
perv not to be irrigated	70	2,525

Units	485 apartments	
	sq.m/ lot	**sq.m/ land use**
Imperv to Tank	32	17,000
Imperv not to tank	0	0
perv to be irrigated	156	5,000
perv not to be irrigated	0	0

PBP

TOTAL SITE- Proposed with tanks and no water saving devices

UTS Ku-rin-gai - INDICATIVE DEVELOPMENT SCHEME **Water Balance Modelling**

Data **Post-Development (rainwater tanks detached lots)**

5kL Tanks

		Area (m2)	To Pond (%)
1.0	**General Catchment Data**		
1.1	- Impervious Area to Rainwater Tanks	21700	0%
1.2	- Impervious Area not to Rainwater Tanks	7437	0%
1.3	- Pervious Area to be Irrigated	7525	0%
1.4	- Pervious Area not to be Irrigated	2525	0%
1.5	- Forested Area	0	0%
1.6	- Wetland Area	0	-
1.7	- Total Area	39187	0%
2.0	**Interception**		
2.1	- Proportion of Irrigated Pervious Area as Canopy	5%	
2.2	- Proportion of No Irrigated Pervious Area as Canopy	15%	
2.3	- Proportion of Forested Area as Canopy	80%	
2.4	- Maximum Canopy Storage	1.5	mm
3.0	**Depression Storage**		
3.1	- Impervious Depression Storage	0.5	mm
3.2	- Pervious Depression Storage	0.5	mm
3.3	- Forested Depression Storage	1	mm
4.0	**Forest Soil Moisture Storage**		
4.1	- Maximum Storage	45	mm
4.2	- Initial Moisture Storage	35	mm
4.3	- Storage Before Infiltration Occurs	30	mm
4.4	- Deep Infiltration Rate	5	mm/day
5.0	**Pervious Soil Moisture Storage**		
5.1	- Maximum Storage	36	mm
5.2	- Initial Moisture Storage	25	mm
5.3	- Storage Before Infiltration Occurs	20	mm
5.4	- Deep Infiltration Rate	4.5	mm/day
5.5	- Storage Before Watering	5	mm
5.6	- Water Until Storage Reaches...	8	mm
6.0	**Wetland Storage**		
6.1	- Volume to Macrophyte Bed Depth	0	m^3
6.2	- Volume of Deep Zone	0	m^3
6.3	- Maximum Storage	0	m^3
6.4	- Initial Storage	0	m^3
6.5	- Total Surface Area	0	m^2
6.6	- Surface Area of Deep Zone	0	m^2
7.0	**Rainwater Tank and Internal Reuse**		
7.1	- Maximum Rainwater Tank Volume	1770	m^3
7.2	- Initial Rainwater Tank Volume	1770	m^3
7.3	- Number of Equivalent Tenements with Reuse	566	ET
7.4	- Estimated Daily Demand per ET	123	L

8.0	**Crop Factors**	**Pervious**	**Forest**
8.1	January	0.64	0.48
8.2	February	0.64	0.48
8.3	March	0.64	0.48
8.4	April	0.55	0.41
8.5	May	0.46	0.35
8.6	June	0.41	0.31
8.7	July	0.37	0.28
8.8	August	0.41	0.31
8.9	September	0.50	0.38
8.10	October	0.59	0.45
8.11	November	0.64	0.48
8.12	December	0.64	0.48

Sample Data Output - Single Detached Dwelling

PBP

TOTAL SITE- Proposed with rainwater tanks and no water saving devices

UTS Ku-rin-gai - PRELIMINARY MASTER PLAN

Summary **Post-Development (rainwater tanks detached lots)**

Study Duration (years) 21

Rainfall			
- Rainfall Depth	1339.34	mm	
Rainfall Volumes			
- Impervious Area to Rainwater Tanks	29064	m3	
- Impervious Area not to Rainwater Tanks	9961	m3	
- Pervious Area to be Irrigated	10079	m3	
- Pervious Area not to be Irrigated	3382	m3	
- Forested Area	0	m3	
- Wetland Area	0	m3	
- Total Area	52485	m3	
Rainwater Tanks Hydrology			
- Flow to Tanks	27845	m3	
- Domestic Water Required	9235	m3	
- Reuse Demand (including irrigation)	28427	m3	
- Spillage to Wetland	0	m3	
- Spillage to Outlet	8738	m3	
- Change in Storage	-84	m3	
Balance	0	m3	
No of times Domestic Water Required	117		
Runoff Coefficient into Tank	0.96		
Runoff Coefficient from Tank	0.30		
Irrigated Area Hydrology			
- Net Flow to Irrigation Area	3499	m3	
- Irrigation	3000	m3	
- Infiltration	2478	m3	
- Spillage to Wetland	0	m3	
- Spillage to Outlet	4027	m3	
- Change in Storage	-7	m3	
Balance	0		
No of times Irrigation Required	84		
Runoff Coefficient	0.40		
Impervious Area not to Tank Hydrology			
- Net Flow from Impervious Area	9543	m3	
- Spillage to Wetland	0	m3	
- Spillage to Outlet	9543	m3	
Balance	0		
Runoff Coefficient	0.96		
Forested Area Hydrology			
- Net Flow to Forested Area	0	m3	
- Infiltration	0	m3	
- Spillage to Wetland	0	m3	
- Spillage to Outlet	0	m3	
- Change in Storage	0	m3	
Balance	0		
Runoff Coefficient	#DIV/0!		
Pervious (non-irrigated) Area Hydrology			
- Net Flow to Pervious Area	2012	m3	
- Infiltration	743	m3	
- Spillage to Wetland	0	m3	
- Spillage to Outlet	1272	m3	
- Change in Storage	-3	m3	
Balance	0		
Runoff Coefficient	0.38		

Water Quality Control Pond		
- Flow from Rainwater Tanks	0	
- Flow from Impervious Area (no tank)	0	
- Flow From Pervious Irrigated Area	0	
- Flow From Pervious (non-Irrigated) Area	0	
- Flow from Forested Area	0	
- Direct Rainfall	0	
Water Balance		
- Total Flow to WQCP	0	
- Overflow to Outlet	0	
- Evaporation	0	
- Change in Storage (averaged)	0	
Balance	0	
Total Outflow		
- Direct	23580	
- From Wetland	0	
- Total	23580	
Balance	0	
Total Site Runoff Coefficient	0.45	