

APPENDIX I

HEC-HMS MODEL FOR THE CALCULATION OF THE DEVELOPED LOW LEVEL & BYPRODUCT FACILITY 500-YEAR PEAK DISCHARGES

HMS * Summary of Results

Project : WCS

Run Name : 500 Year Storm NOD

Start of Run : 01Dec00 0000 Basin Model : 100YrAM3/11/06NOD
 End of Run : 02Dec00 0000 Met. Model : Met 500 Year
 Execution Time : 20Mar06 1840 Control Specs : Control 1

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
Subbasin-4B	515.23	01 Dec 00 1238	85.822	0.423
Reach-2	515.23	01 Dec 00 1253	85.385	0.423
Subbasin-4A	92.952	01 Dec 00 1230	13.635	0.067
Reach-1RA	92.952	01 Dec 00 1233	13.622	0.067
Subbasin-2	949.25	01 Dec 00 1302	213.56	1.063
playa	0.0	30 Nov 00 2400	0.0	1.063
Reach-1RB	0.0	30 Nov 00 2400	0.0	1.063
Junction-1RC	92.952	01 Dec 00 1233	13.622	1.130
Reach-1RC	92.952	01 Dec 00 1238	13.599	1.130
Subbasin-3A	120.01	01 Dec 00 1228	16.906	0.083
Junction-1RB	207.24	01 Dec 00 1233	30.505	1.213
Reach-1RD	207.24	01 Dec 00 1249	30.340	1.213
Subbasin-1A	533.30	01 Dec 00 1325	146.15	0.691
Reach-1A	533.30	01 Dec 00 1341	145.34	0.691
Subbasin-1B	376.03	01 Dec 00 1239	63.679	0.314
Junction-1A	827.56	01 Dec 00 1258	239.36	2.218
Reach-1B	827.56	01 Dec 00 1301	239.11	2.218
Subbasin-3B	124.49	01 Dec 00 1221	15.317	0.075
Junction-1	872.40	01 Dec 00 1258	254.42	2.293
Reach-3	872.40	01 Dec 00 1315	252.91	2.293
Subbasin-5A	256.07	01 Dec 00 1232	39.040	0.192
Junction-2	1470.0	01 Dec 00 1300	377.34	2.908
Reach-4	1470.0	01 Dec 00 1321	374.55	2.908
Subbasin-5B	276.18	01 Dec 00 1249	53.528	0.265
Junction-3	1668.1	01 Dec 00 1317	428.07	3.173
Reach-5	1668.1	01 Dec 00 1331	425.94	3.173
Subbasin-6	116.97	01 Dec 00 1223	15.099	0.074
Junction-4	1692.0	01 Dec 00 1330	441.03	3.247
Reach-6	1692.0	01 Dec 00 1330	441.03	3.247
Subbasin-7	93.976	01 Dec 00 1301	20.903	0.104
Junction-5	1767.1	01 Dec 00 1330	461.94	3.351

Meteorologic Model Input

HMS * Meteorologic Model

File Edit Help

Meteorologic Model: Met 500 Year Subbasin List

Description: 500 Year, 24 Hour Storm ...

Precipitation | Evapotranspiration

Method: SCS Hypothetical Storm

Storm Selection: Type II

Storm Depth (in): 8.71

OK Apply Cancel

HMS * Basin Model * SCS Curve Number

Sort Help

Basin Model ID: 100YrAM3/11/06NOD

Subbasin Name	SCS Curve Number	Initial Abstraction (in)	Imperviousness (%)
Subbasin-1A	62		0.0
Subbasin-2	60		0.0
Subbasin-3B	60		0.0
Subbasin-4B	60		0.0
Subbasin-5B	60		0.0
Subbasin-6	60		0.0
Subbasin-1B	60		0.0
Subbasin-5A	60		0.0
Subbasin-7	60		0.0
Subbasin-4A	60		0.0
Subbasin-3A	60		0.0

OK Apply Cancel

HMS * Basin Model * SCS UH

Sort Help

Basin Model ID: 100YrAM3/11/06NOD

Time Units:

Subbasin Name	SCS Lag (min)
Subbasin-1A	86
Subbasin-2	65
Subbasin-3B	28
Subbasin-4B	43
Subbasin-5B	53
Subbasin-6	30
Subbasin-1B	44
Subbasin-5A	38
Subbasin-7	64
Subbasin-4A	36
Subbasin-3A	34

OK Apply Cancel

HMS * Basin Model * Lag Routing

Help

Basin Model ID : 100YrAM3/11/06NOD

Interval:

Reach Name	Lag (min)
Reach-1RB	13
Reach-2	15
Reach-3	17
Reach-4	21
Reach-5	14
Reach-1A	16.8
Reach-6	0
Reach-1RA	3
Reach-1RC	5.7
Reach-1RD	16.3
Reach-1B	3

OK Apply Cancel

HMS * Basin Model * Reservoir Editor

Edit File Help

Reservoir Name:

Description: ...

Storage Outlet Spillway Overflow Dam Break

Method:

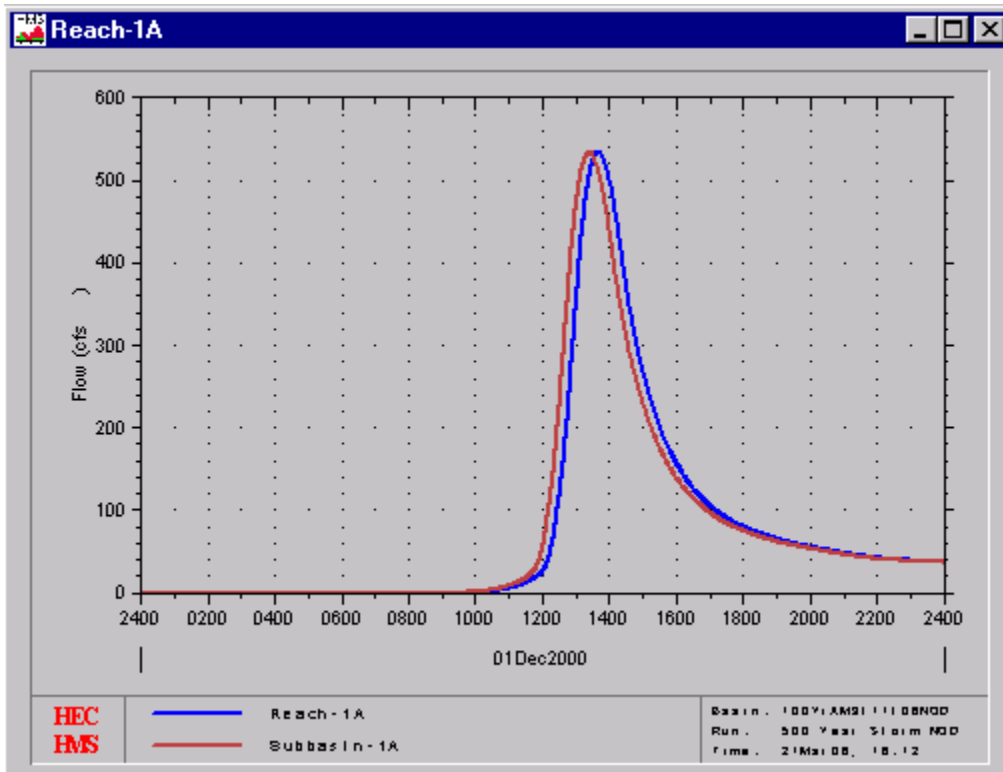
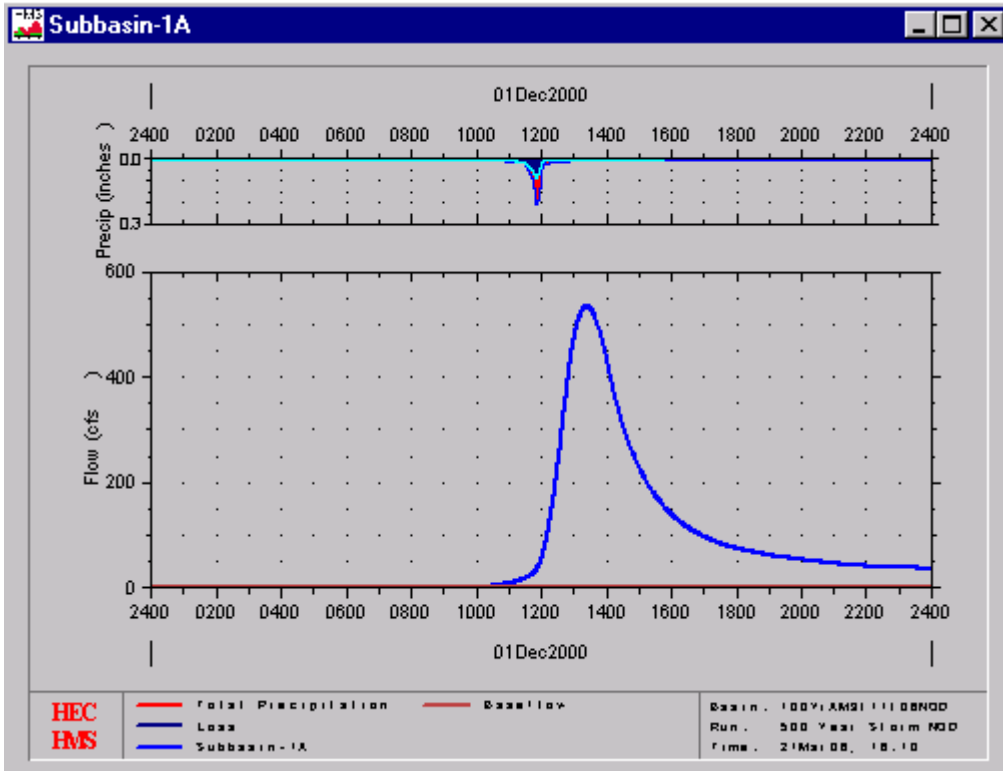
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Elevation (ft)	Storage (acre-feet)	Outflow (cfs)
3478.0	0.0	0.0
3480.0	24.0	0.0
3482.0	61.0	0.0
3484.0	170.0	0.0
3486.0	457.0	0.0
3487.0	693.0	863.0
3488.0	928.0	2427.0

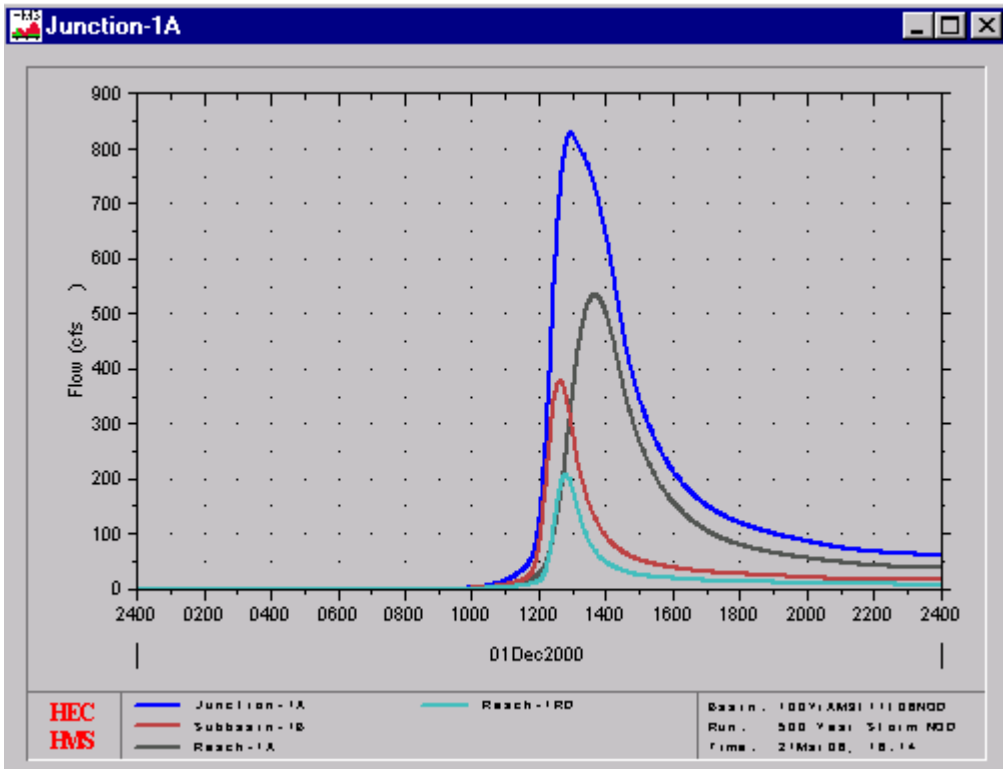
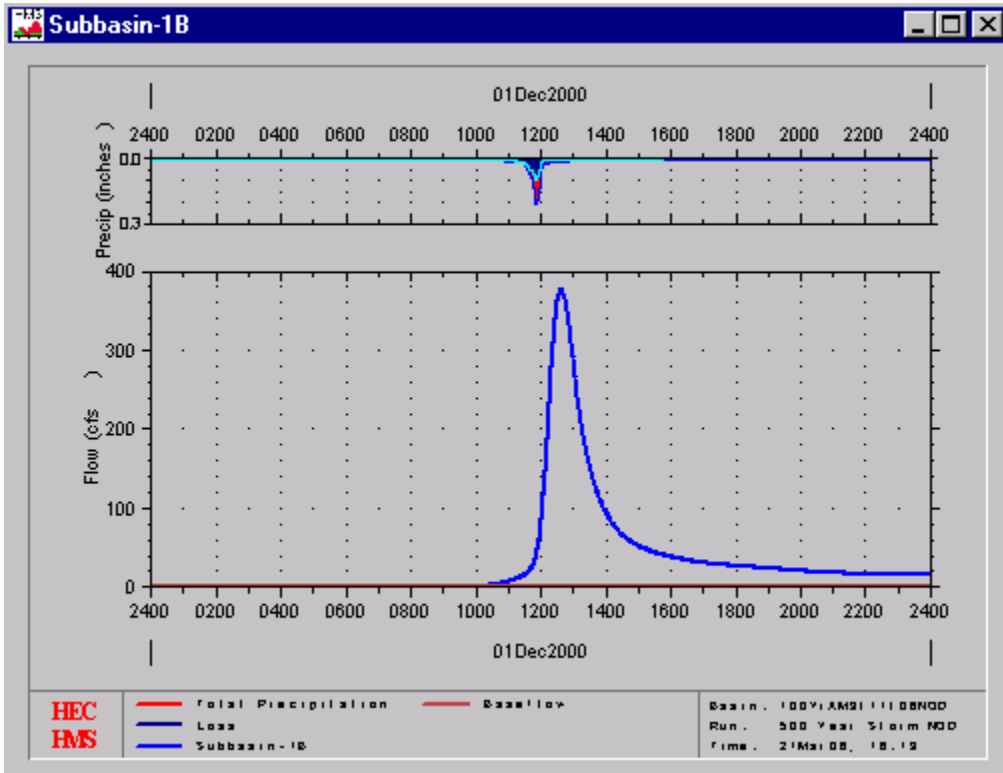
Graph

OK Apply Cancel

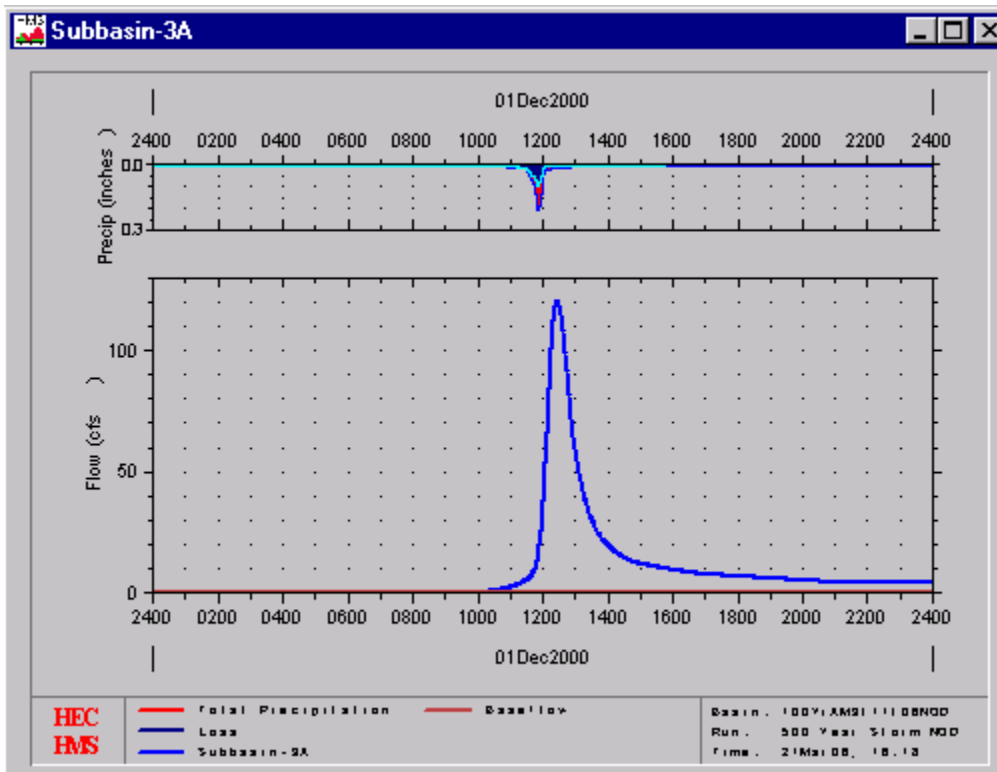
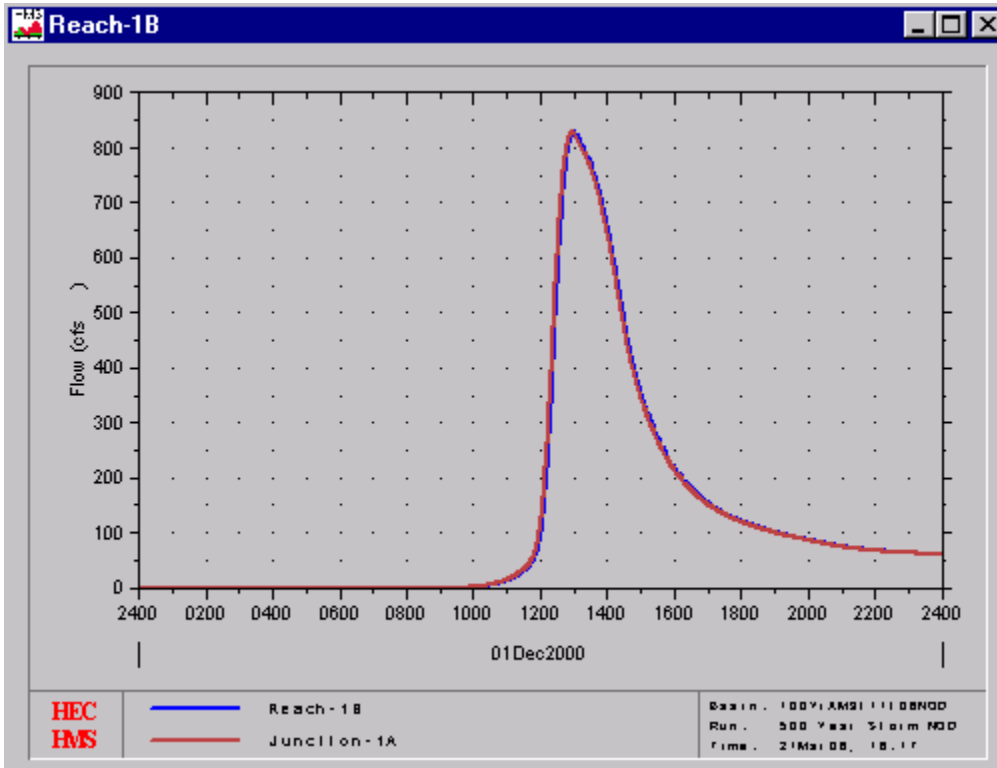
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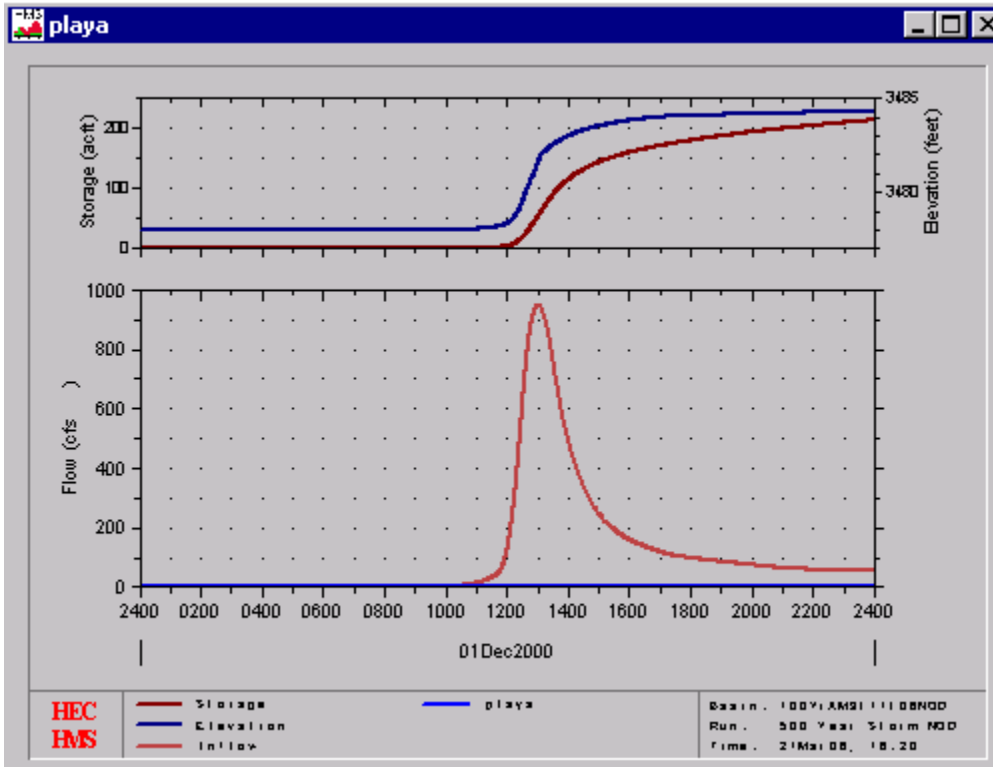
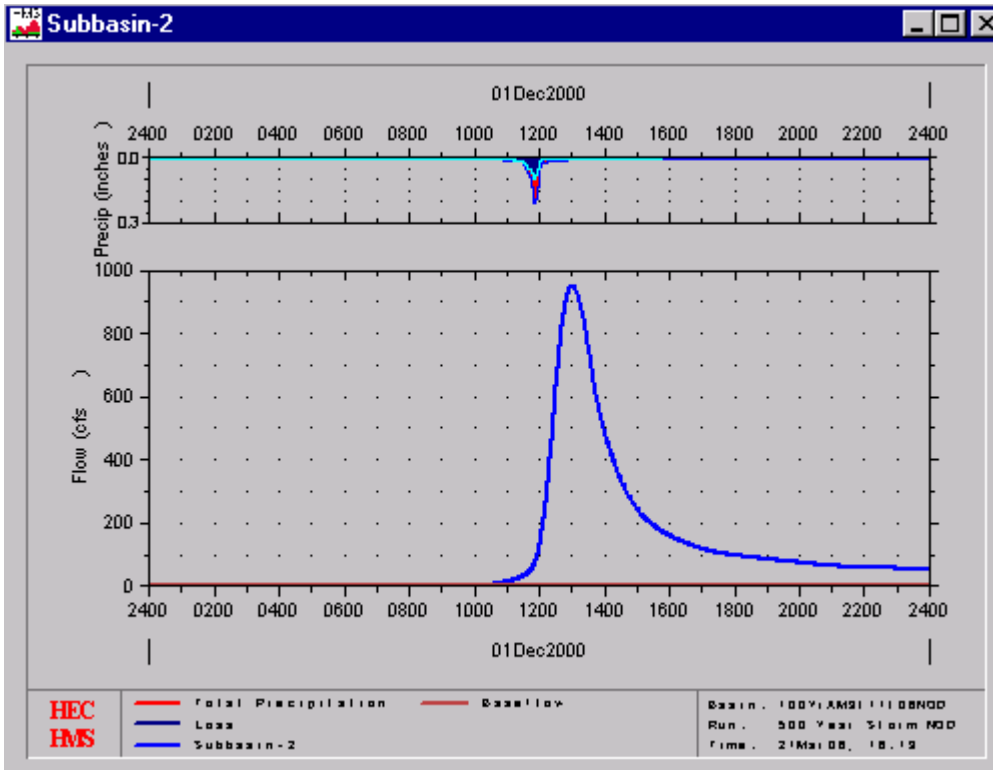
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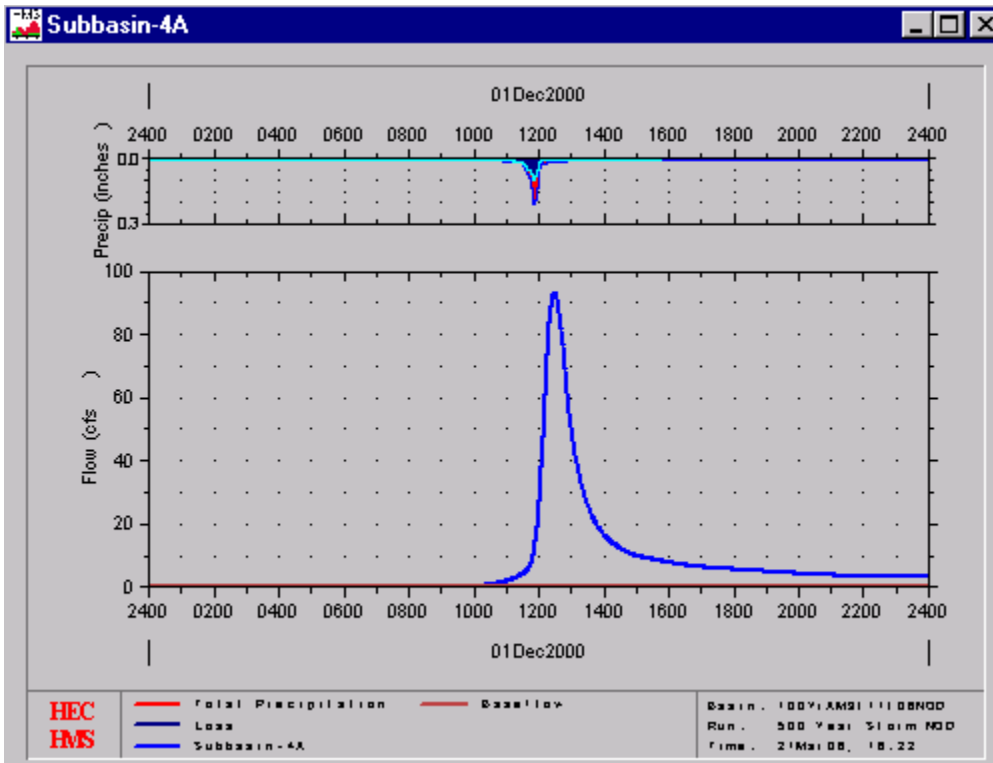
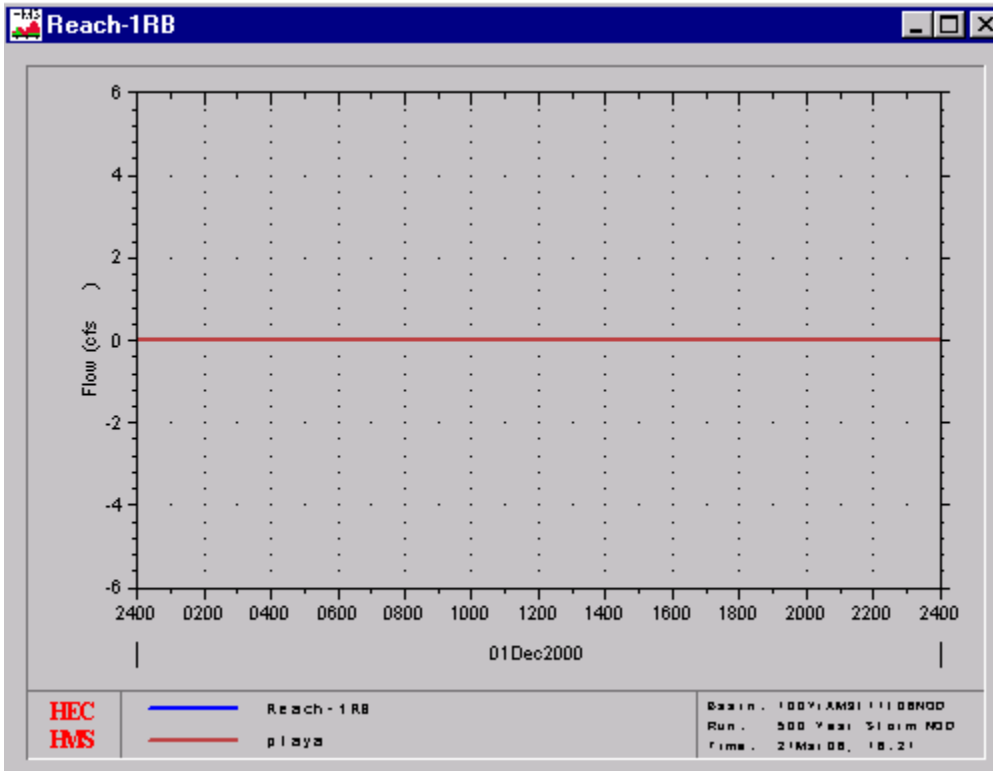
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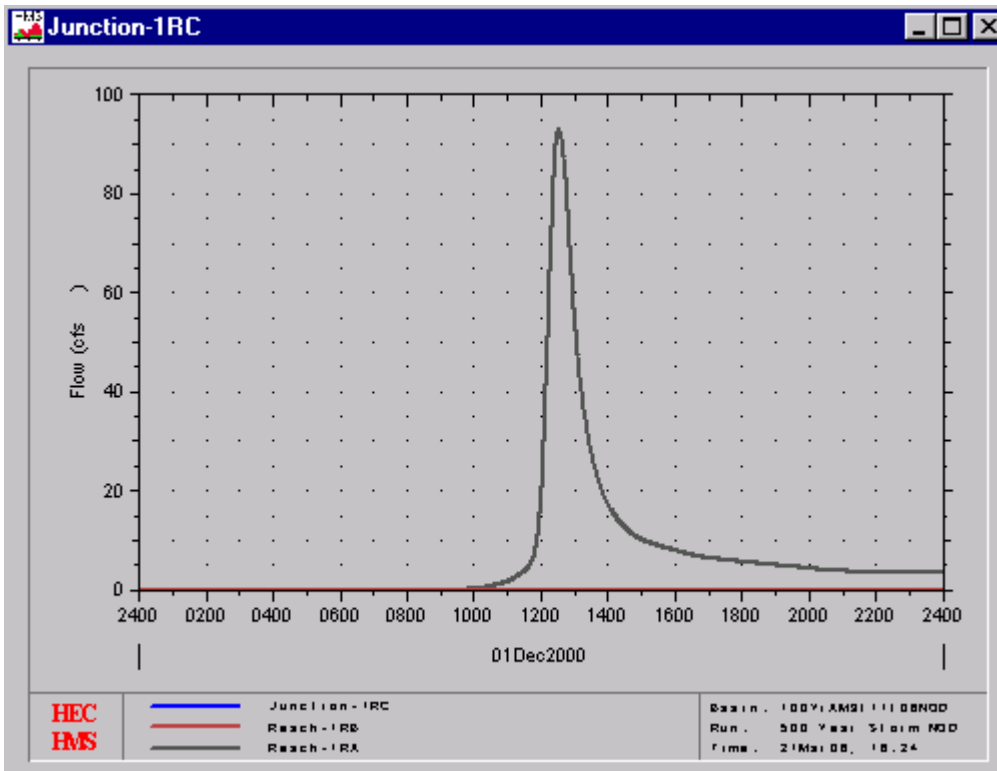
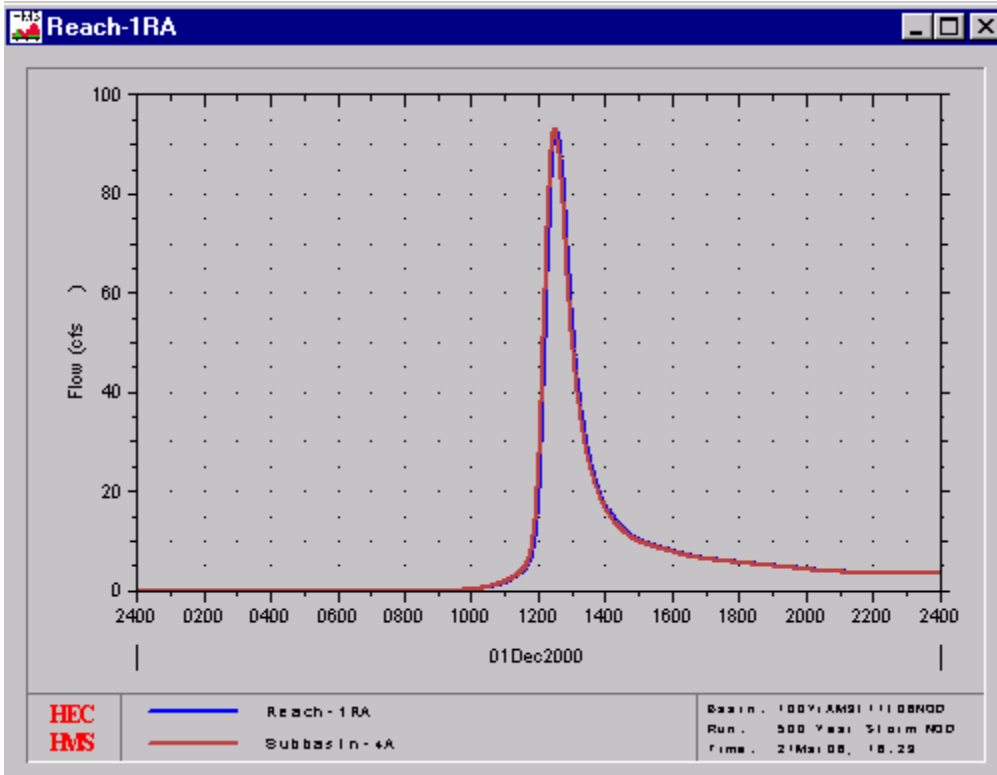
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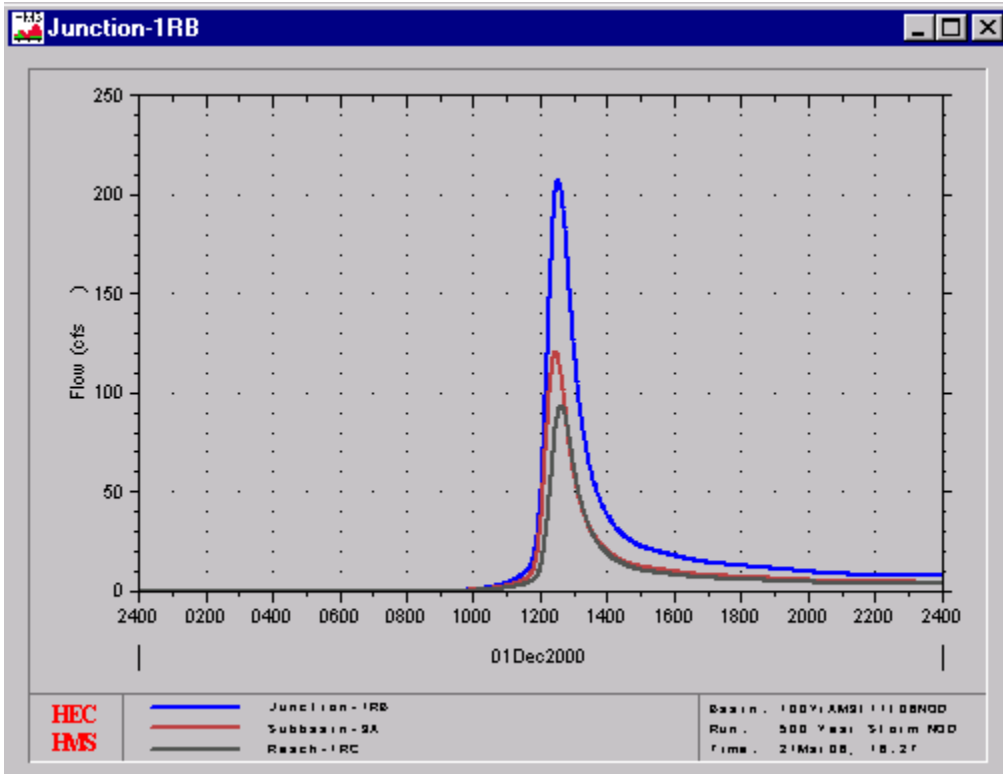
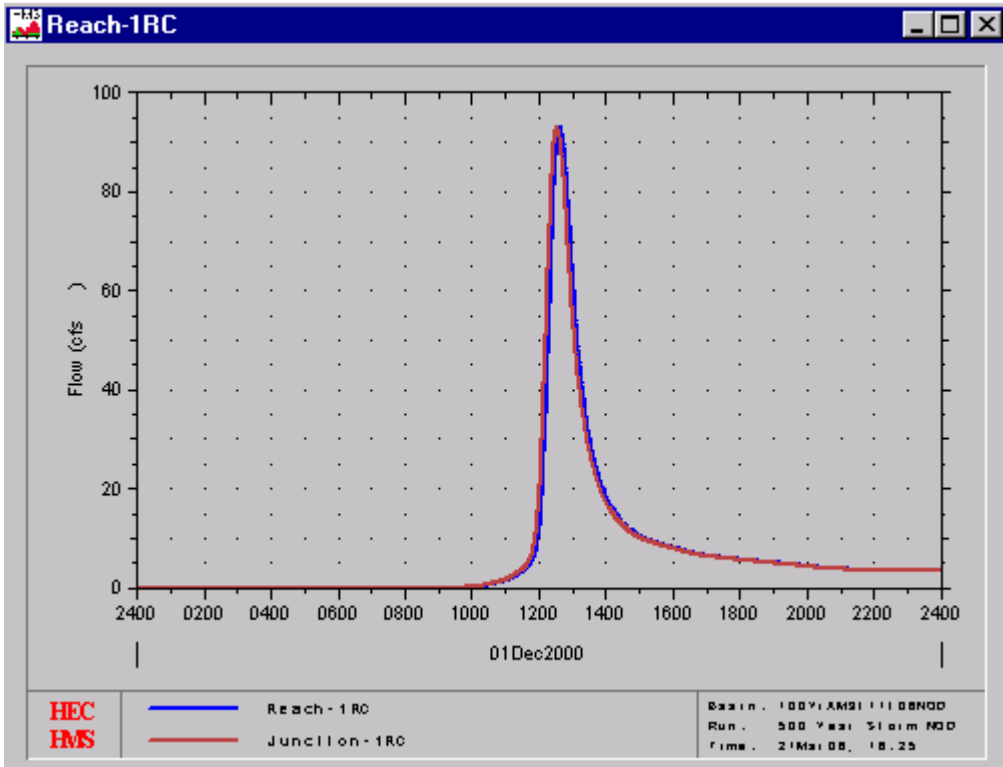
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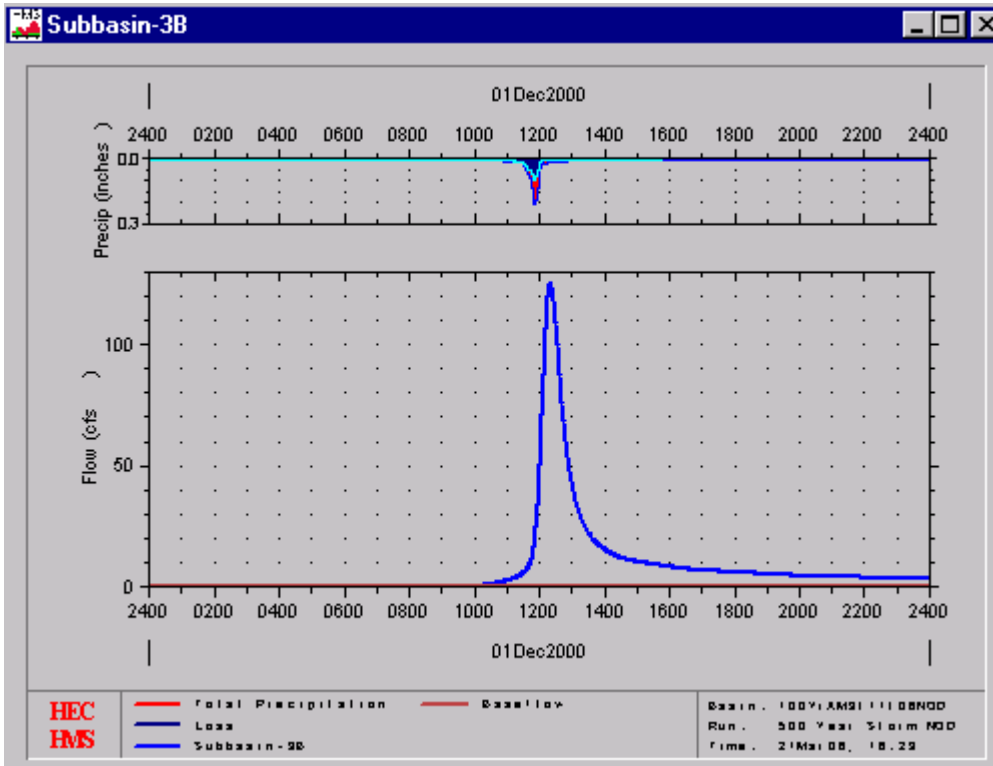
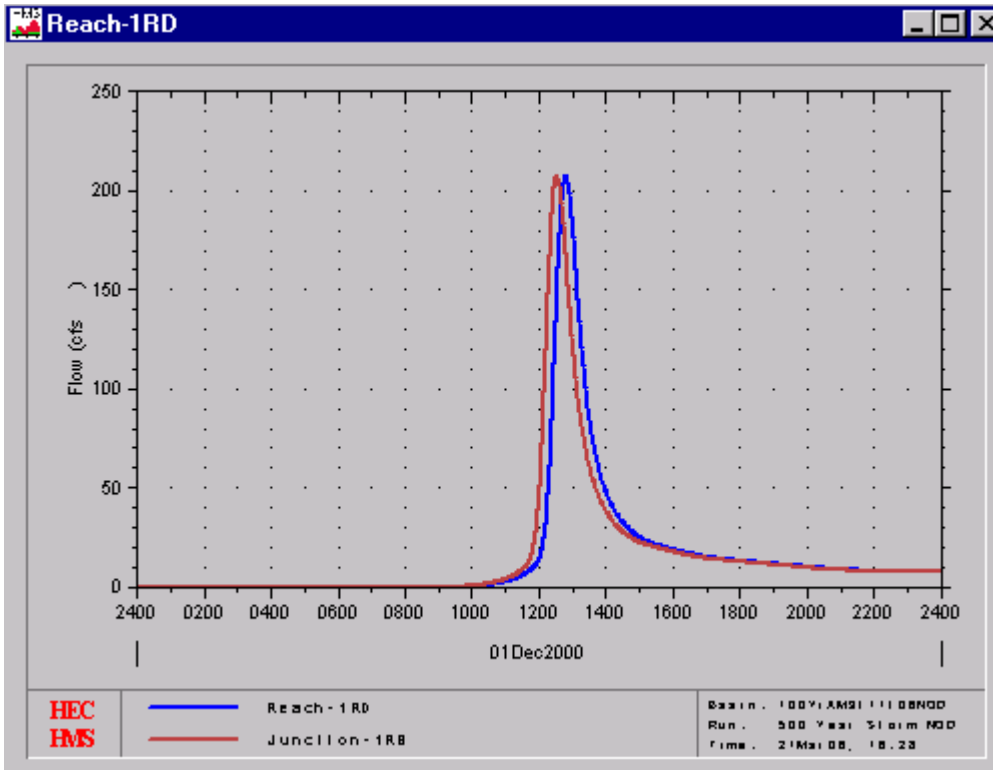
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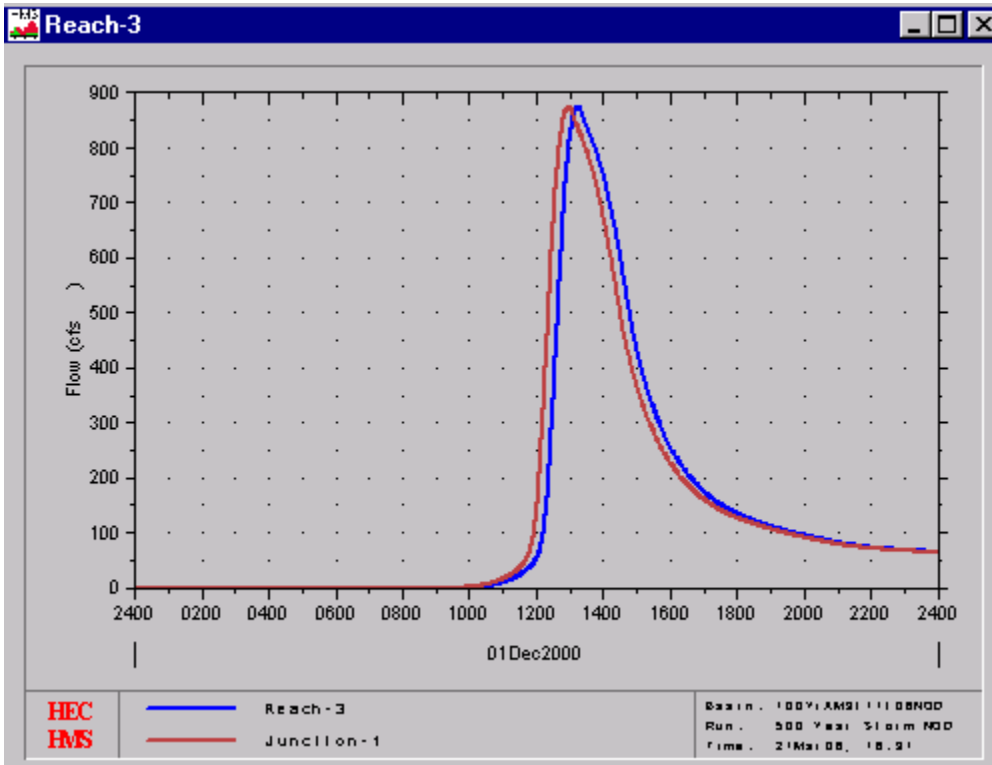
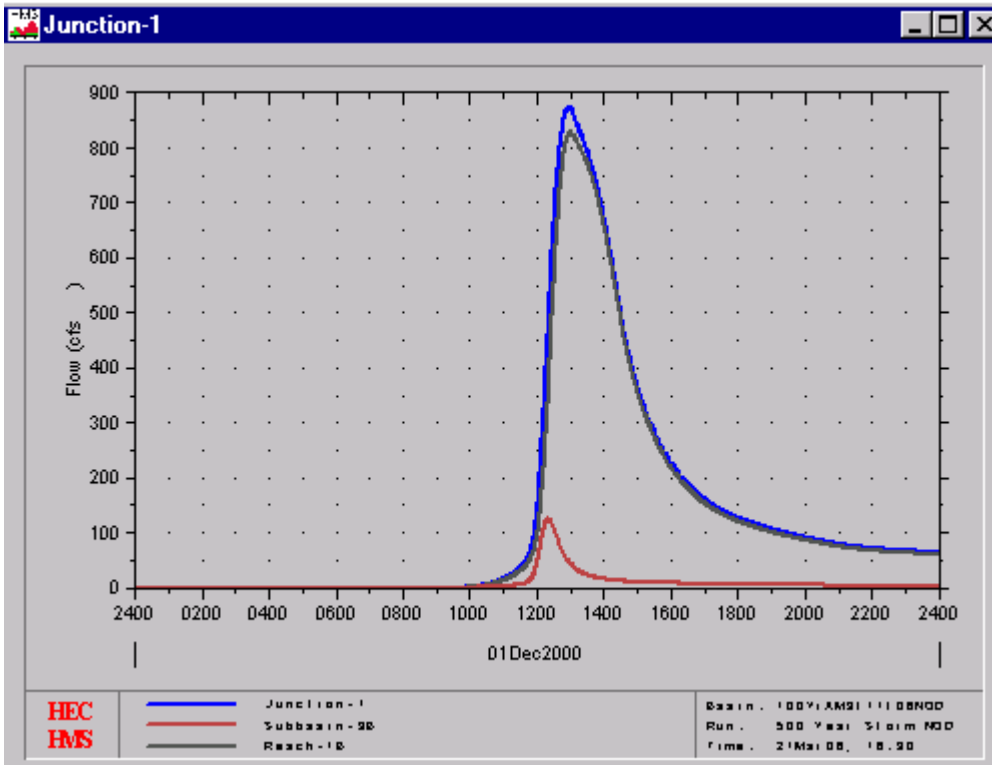
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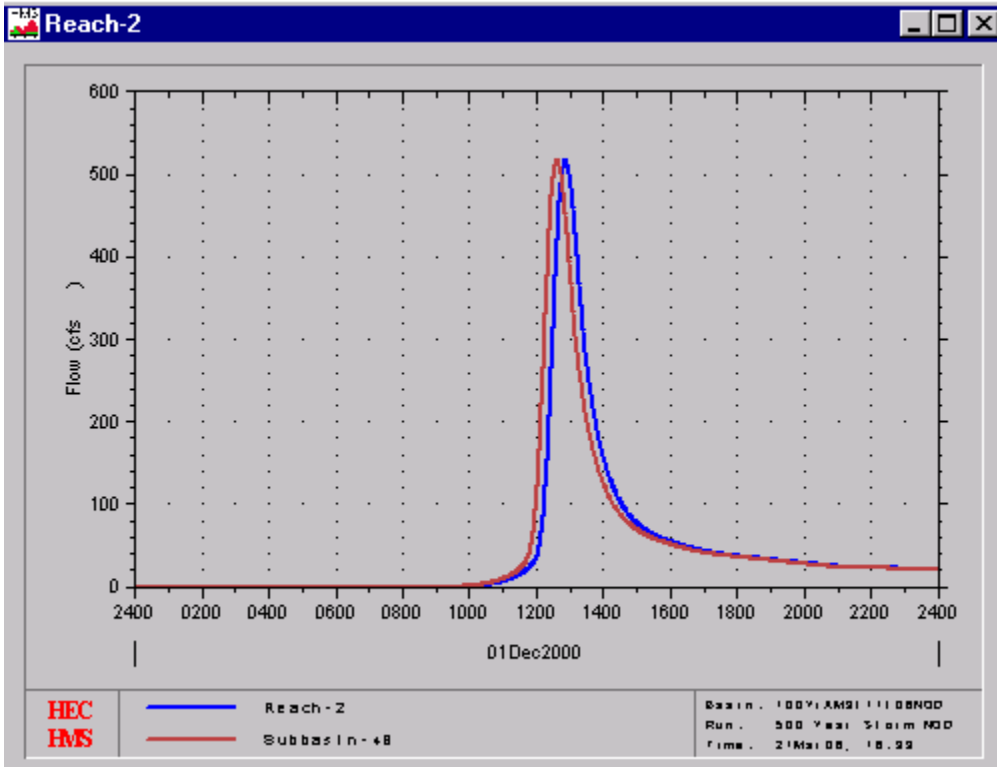
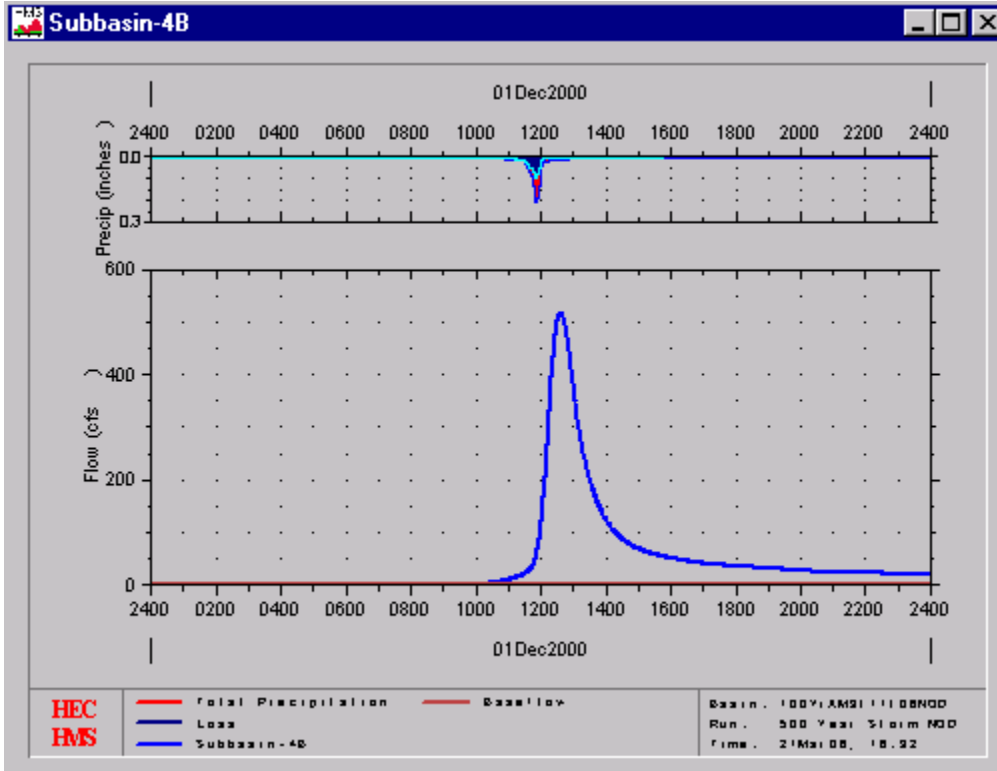
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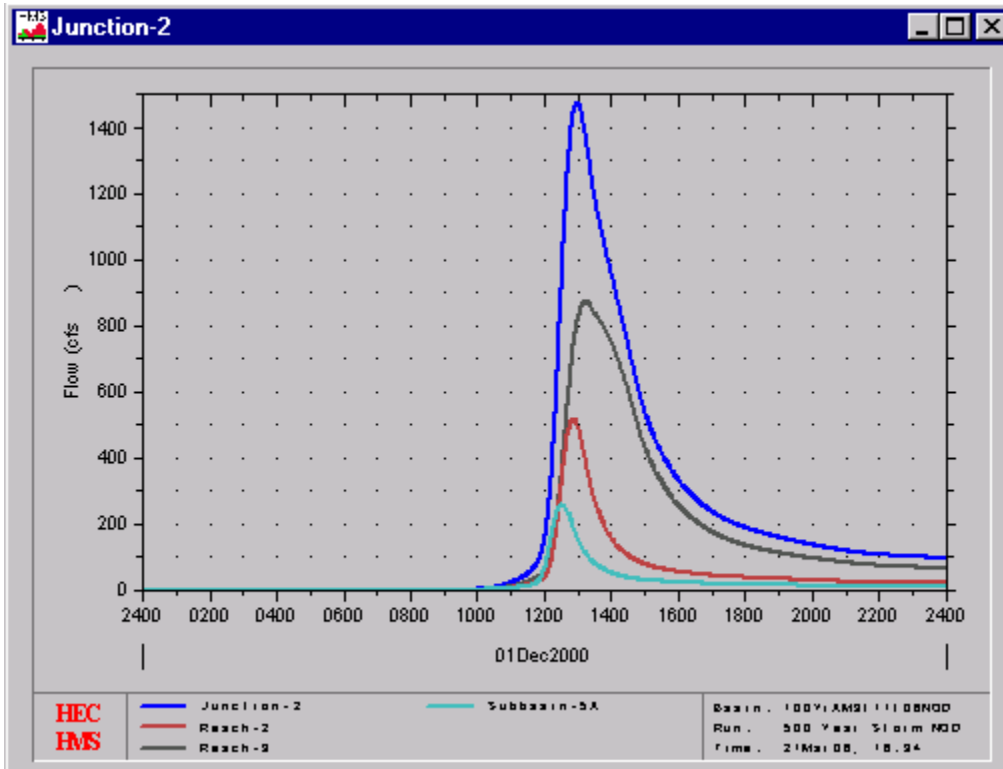
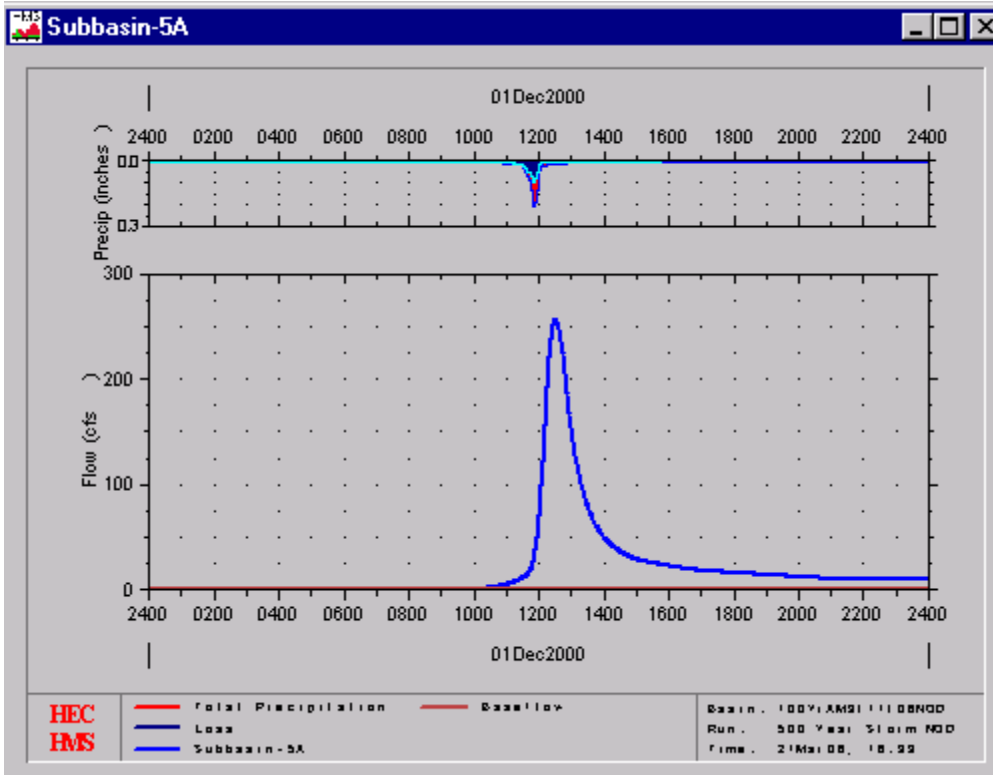
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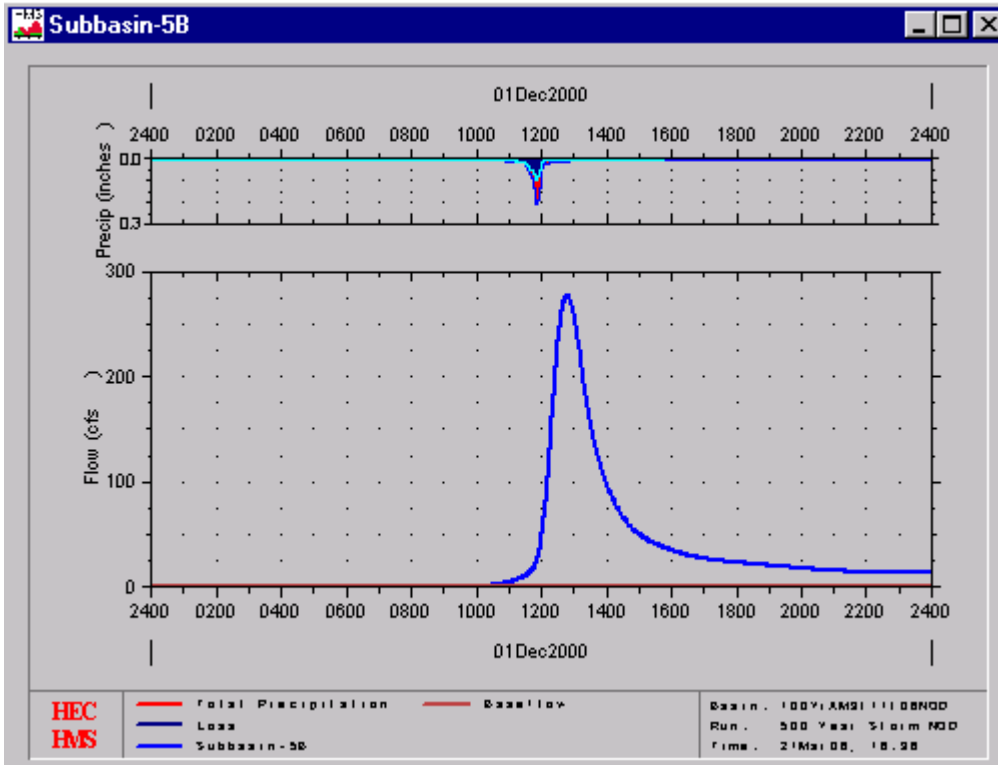
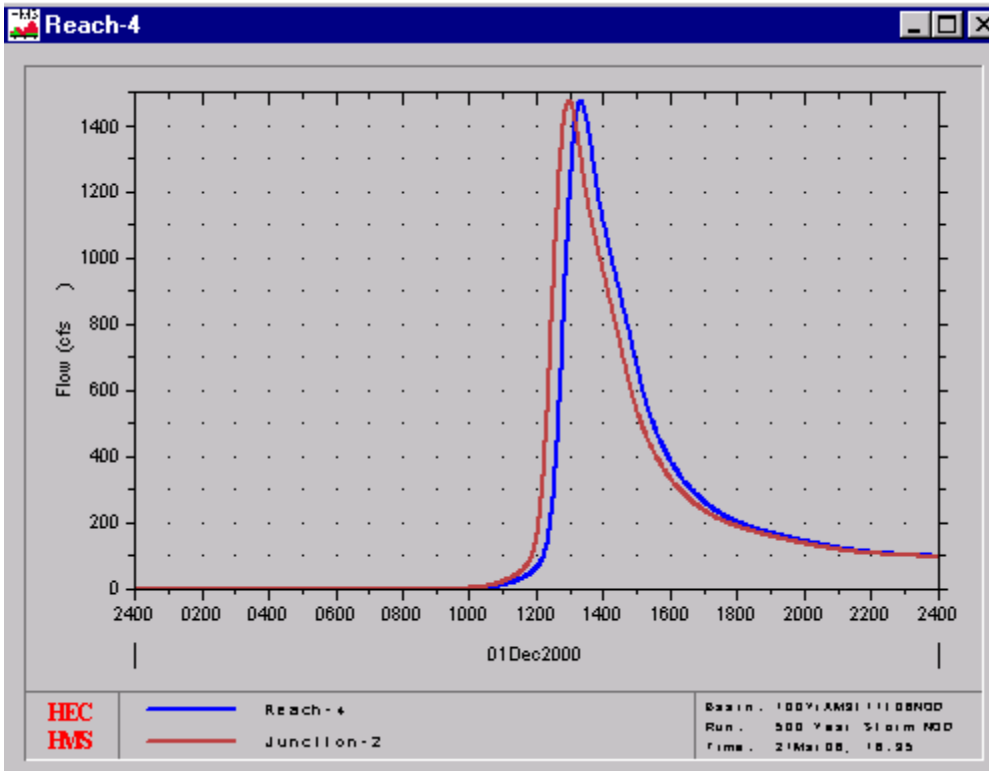
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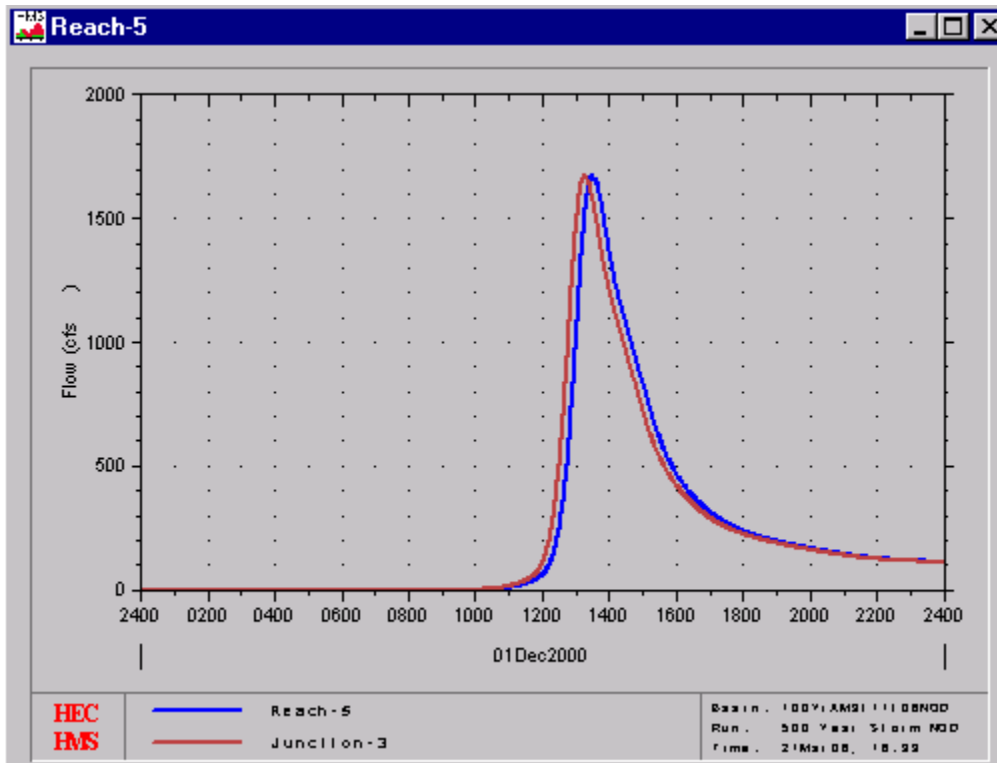
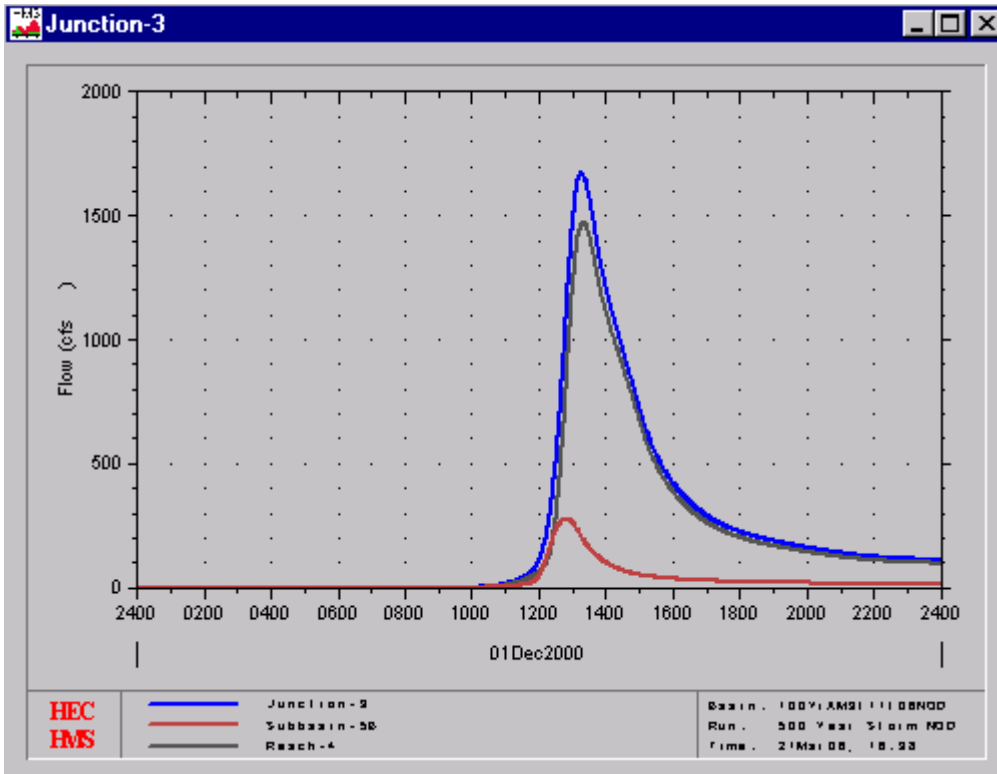
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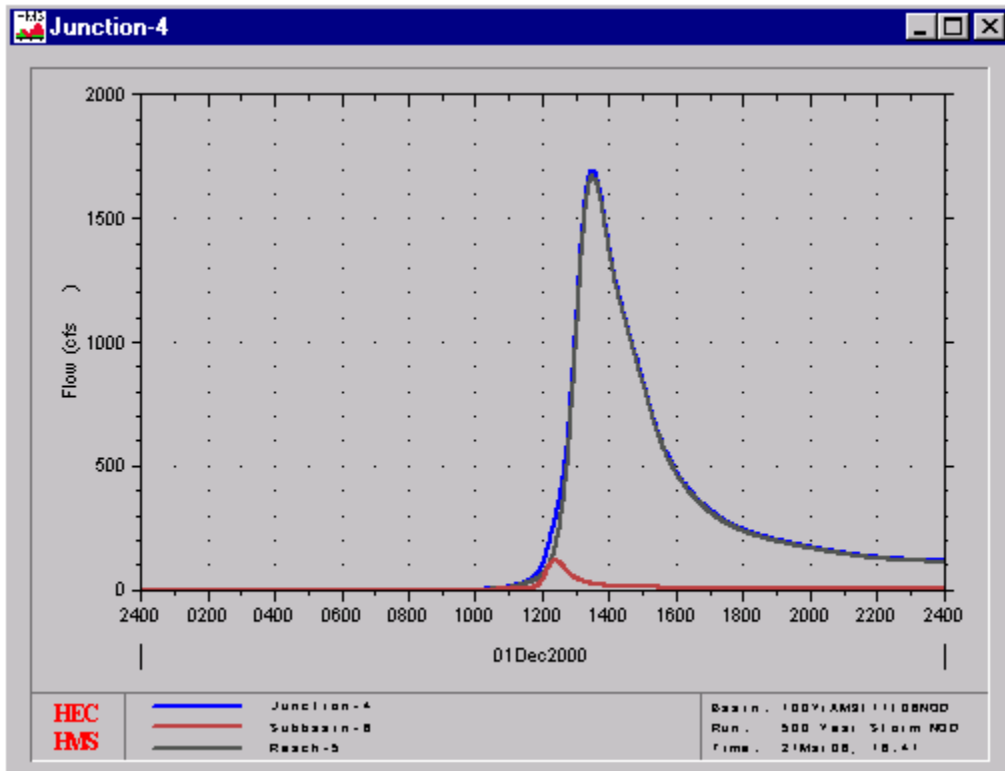
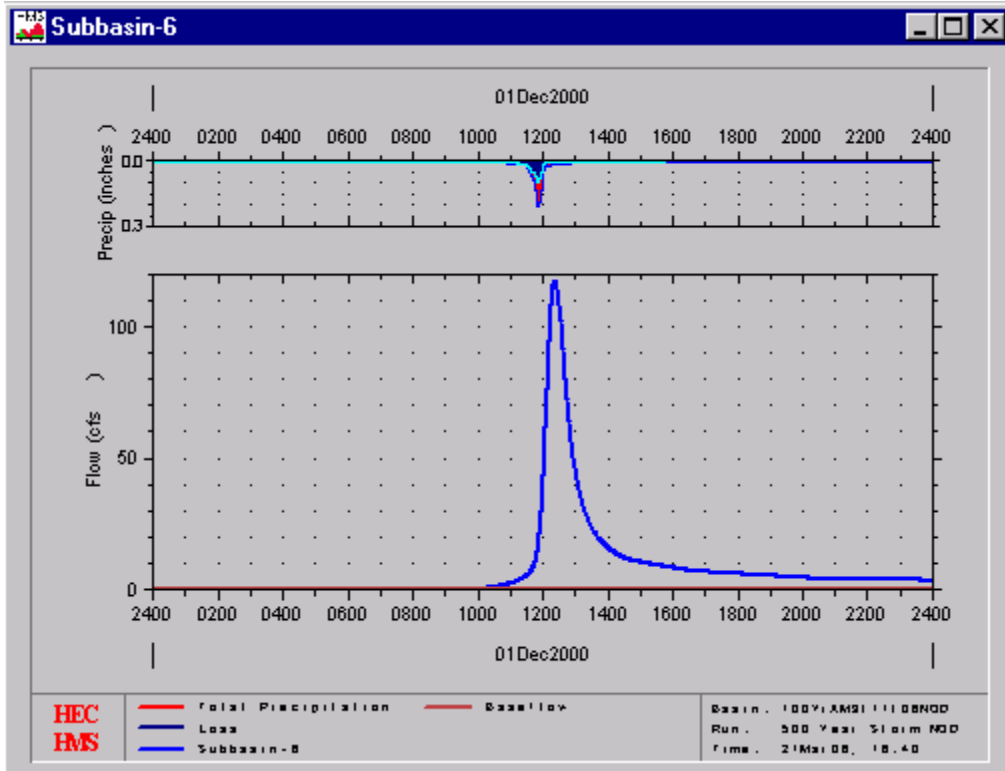
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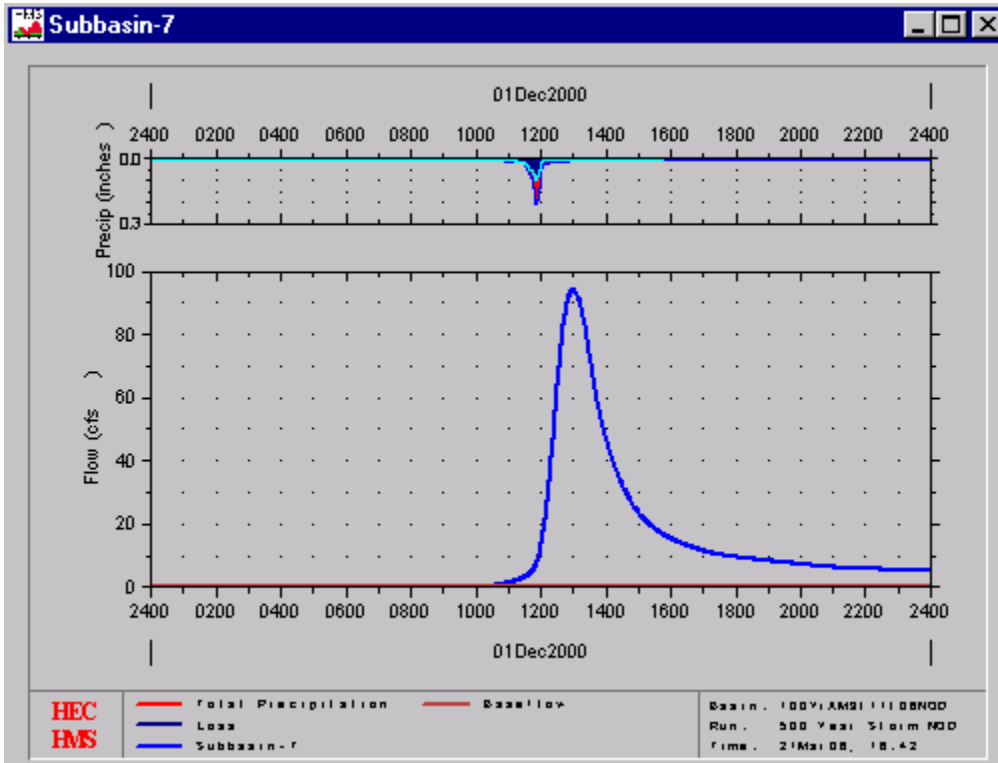
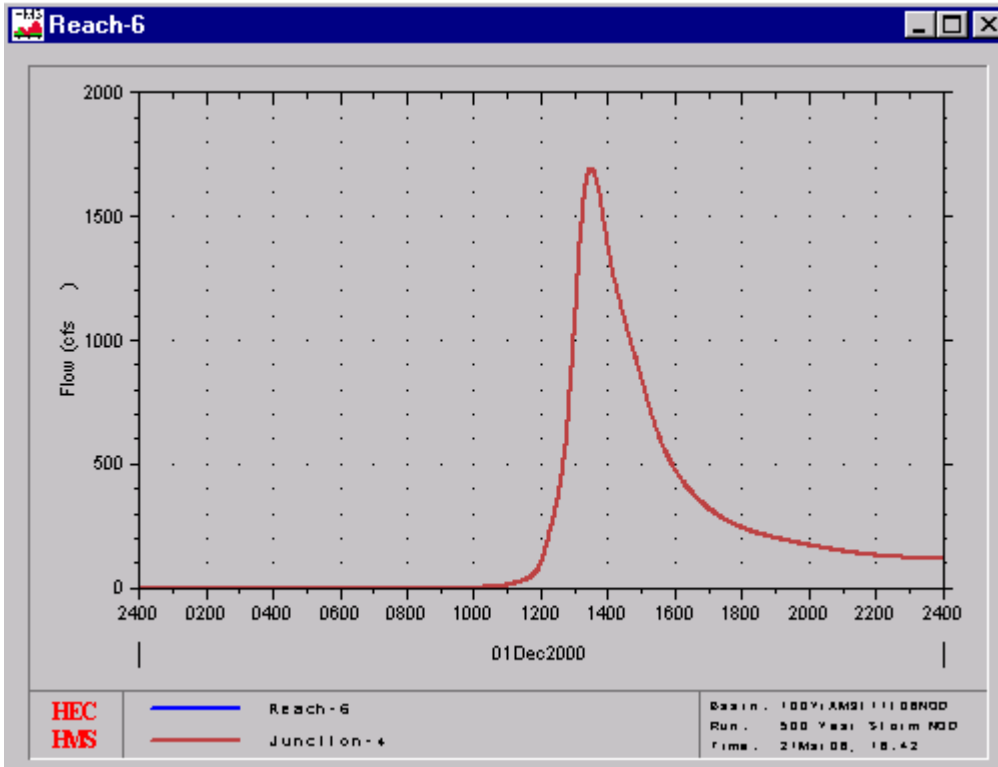
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