

APPENDIX S

HEC-HMS MODEL FOR THE CALCULATION OF THE 500-YEAR PEAK DISCHARGES, ANTECEDENT MOISTURE CONDITION III

HMS * Summary of Results

Project : WCS

Run Name : 500 Yr AMIII

Start of Run : 01Dec00 0000 Basin Model : 100YrAMIII3/24/06NOD
 End of Run : 02Dec00 0000 Met. Model : Met 500 Year
 Execution Time : 29Mar06 1420 Control Specs : Control 1

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
Subbasin-4	1210.1	01 Dec 00 1231	190.85	0.490
Reach-2	1210.1	01 Dec 00 1246	190.21	0.490
Subbasin-2	1741.4	01 Dec 00 1258	390.34	1.063
playa	0.0	30 Nov 00 2400	0.0	1.063
Reach-1	0.0	30 Nov 00 2400	0.0	1.063
Subbasin-1A	975.62	01 Dec 00 1319	274.21	0.691
Reach-1A	975.62	01 Dec 00 1336	273.13	0.691
Subbasin-1B	703.08	01 Dec 00 1236	120.10	0.314
Junction-1A	1241.7	01 Dec 00 1318	393.23	1.005
Reach-1B	1241.7	01 Dec 00 1321	392.96	1.005
Subbasin-3	353.38	01 Dec 00 1236	60.672	0.156
Junction-1	1483.0	01 Dec 00 1252	453.63	2.224
Reach-3	1483.0	01 Dec 00 1309	451.82	2.224
Subbasin-5A	465.61	01 Dec 00 1230	71.094	0.192
Junction-2	2887.8	01 Dec 00 1250	713.12	2.906
Reach-4	2887.8	01 Dec 00 1311	709.60	2.906
Subbasin-5B	504.92	01 Dec 00 1245	97.675	0.265
Junction-3	3286.1	01 Dec 00 1309	807.28	3.171
Reach-5	3286.1	01 Dec 00 1323	804.57	3.171
Subbasin-6	211.72	01 Dec 00 1222	27.467	0.074
Junction-4	3326.9	01 Dec 00 1323	832.04	3.245
Reach-6	3326.9	01 Dec 00 1323	832.04	3.245
Subbasin-7	174.68	01 Dec 00 1257	38.870	0.104
Junction-5	3472.7	01 Dec 00 1322	870.91	3.349

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: 100YrAMIII3/24/06NOD

Subbasin Name	SCS Curve Number	Initial Abstraction (in)	Imperviousness (%)
Subbasin-1A	91		0.0
Subbasin-2	86		0.0
Subbasin-3	89		0.0
Subbasin-4	89		0.0
Subbasin-5B	86		0.0
Subbasin-6	86		0.0
Subbasin-1B	88		0.0
Subbasin-5A	86		0.0
Subbasin-7	87		0.0

OK Apply Cancel

HMS * Basin Model * SCS UH

Sort Help

Basin Model ID: 100YrAMIII3/24/06NOD

Time Units: Minutes

Subbasin Name	SCS Lag (min)
Subbasin-1A	86
Subbasin-2	65
Subbasin-3	44
Subbasin-4	39
Subbasin-5B	53
Subbasin-6	30
Subbasin-1B	44
Subbasin-5A	38
Subbasin-7	64

OK Apply Cancel

HMS * Basin Model * Lag Routing

Help

Basin Model ID : 100YrAMIII3/24/06NOD

Interval : Minutes

Reach Name	Lag (min)
Reach-1	35
Reach-2	15
Reach-3	17
Reach-4	21
Reach-5	14
Reach-1A	17
Reach-1B	3
Reach-6	0

OK Apply Cancel

HMS * Basin Model * Reservoir Editor

Edit File Help

Reservoir Name:

Description:

Storage | Outlet | Spillway | Overflow | Dam Break

Method:

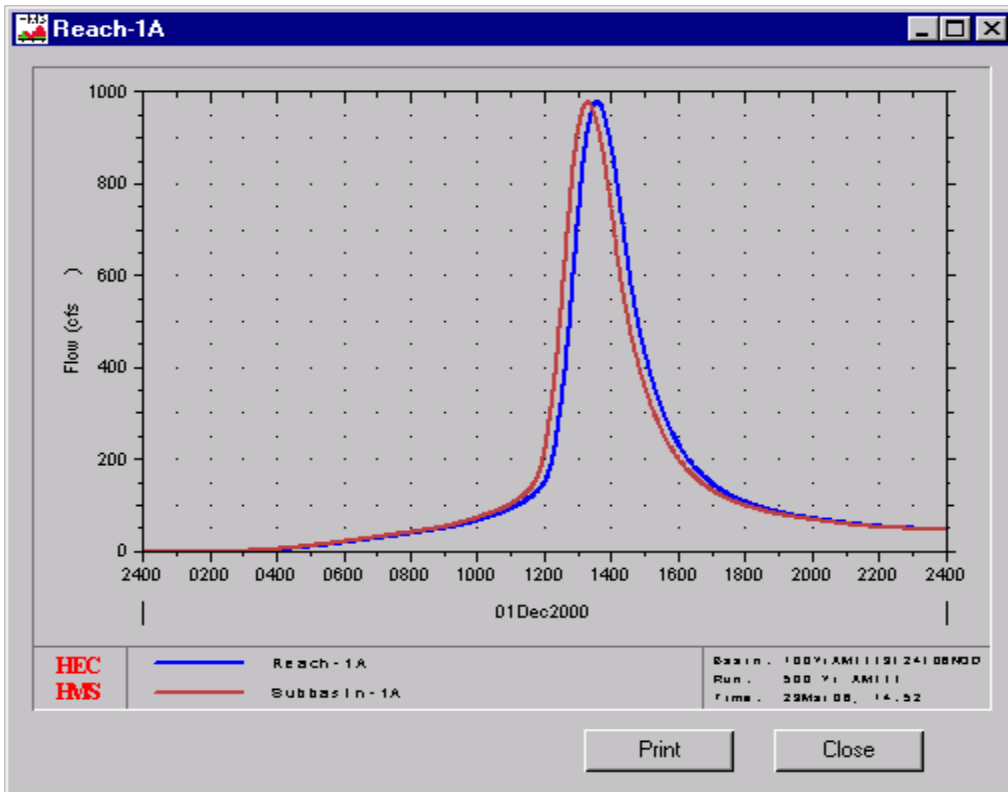
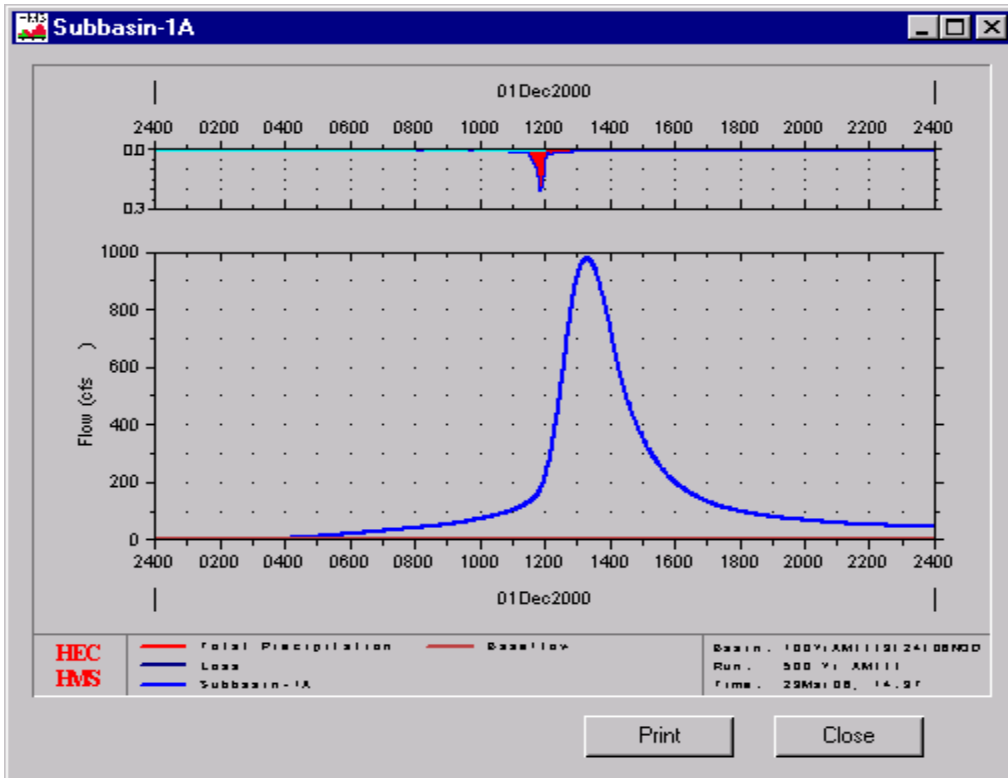
Initial:

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

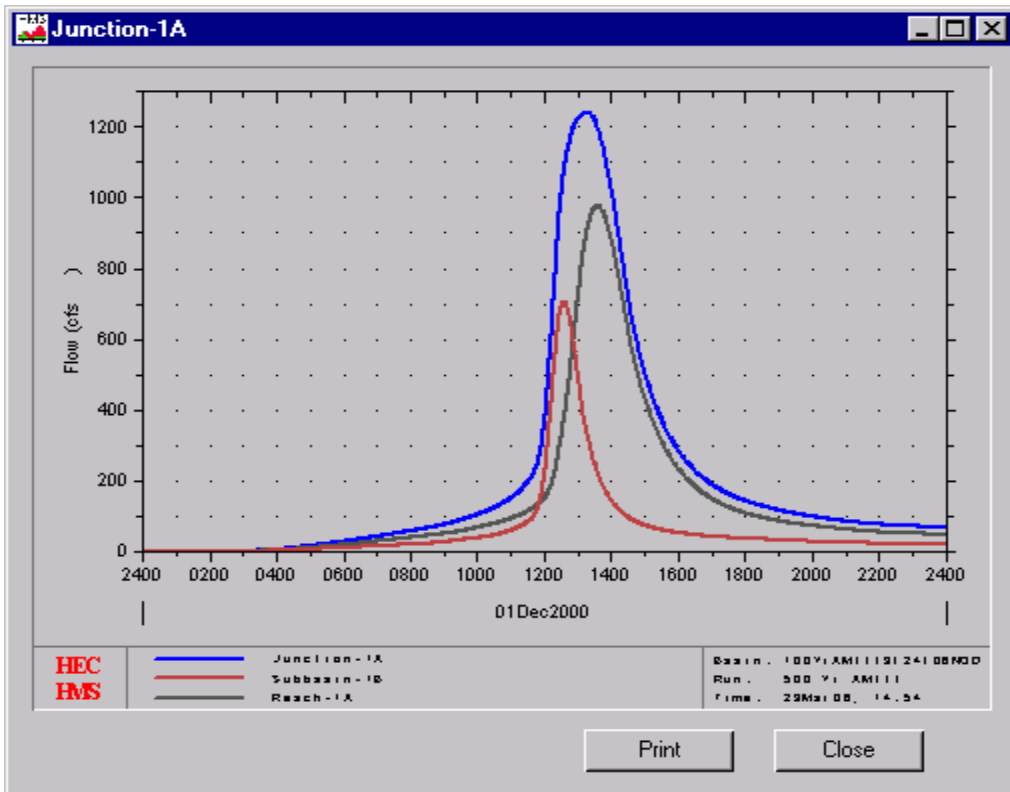
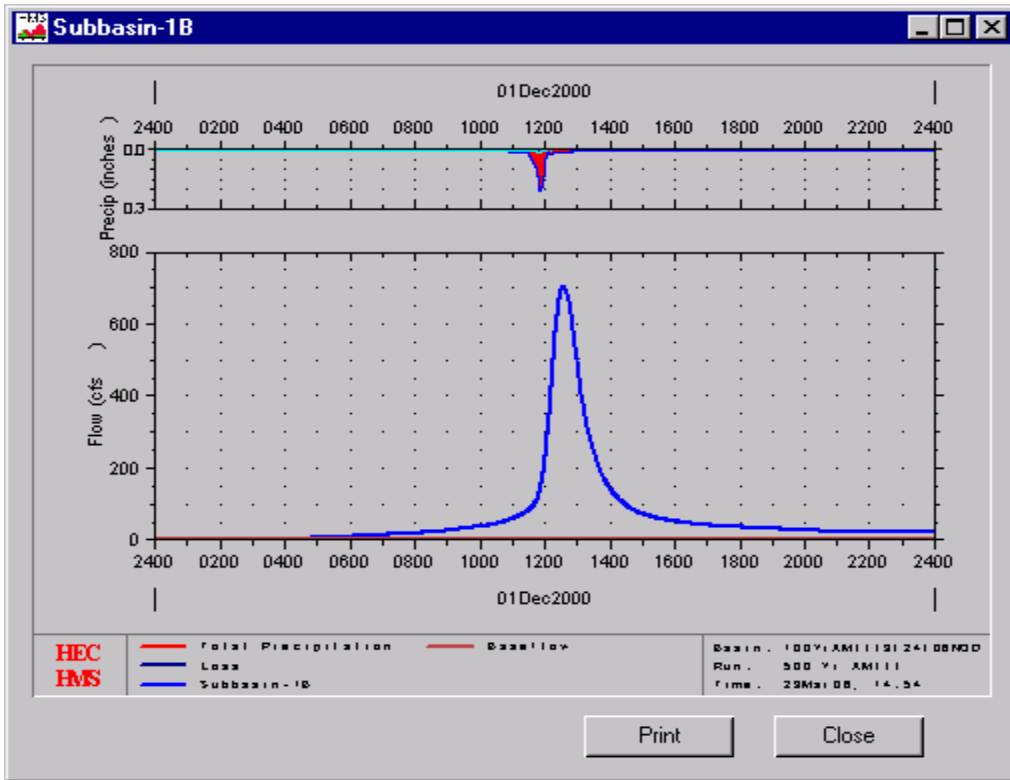
Graph

OK Apply Cancel

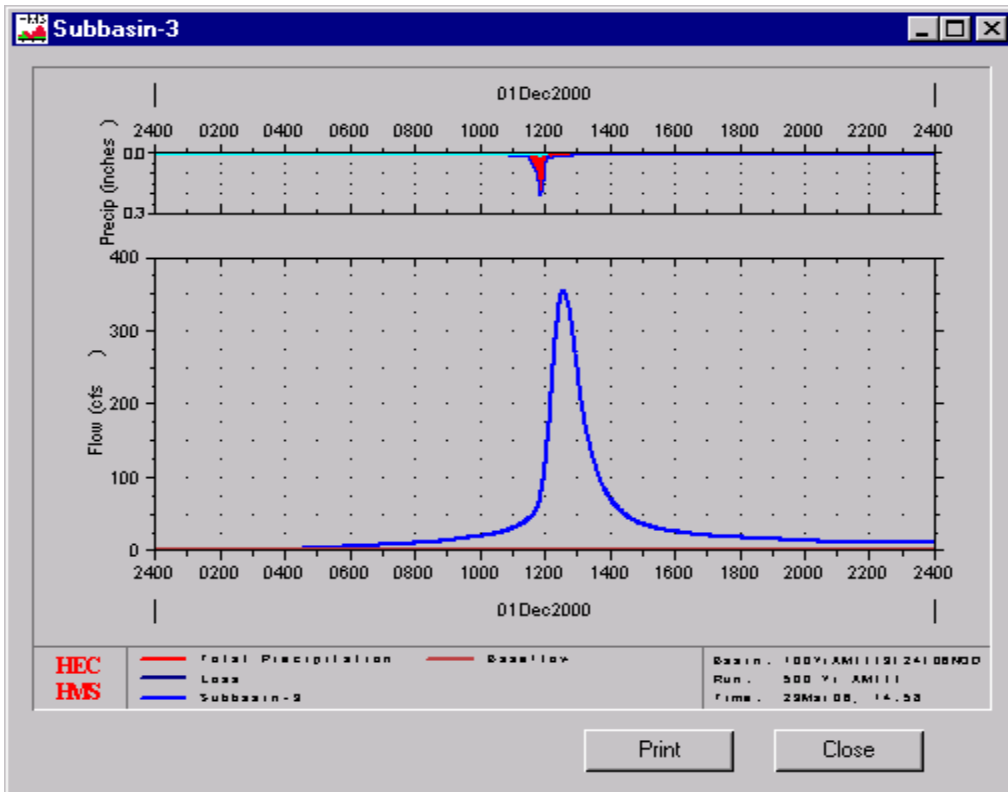
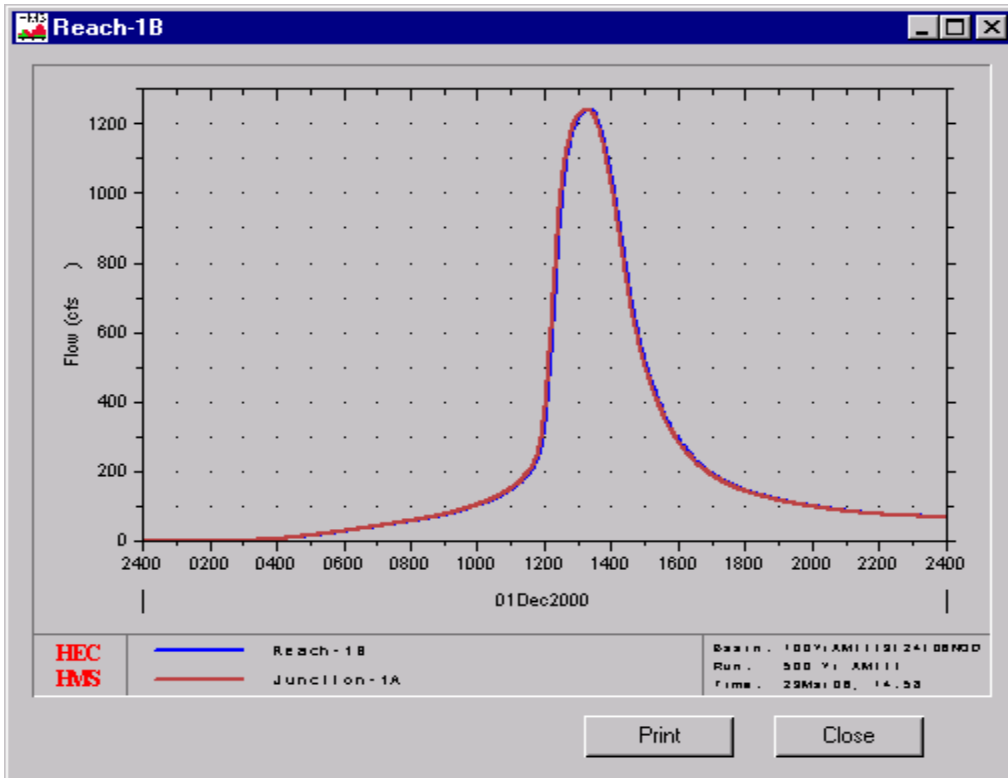
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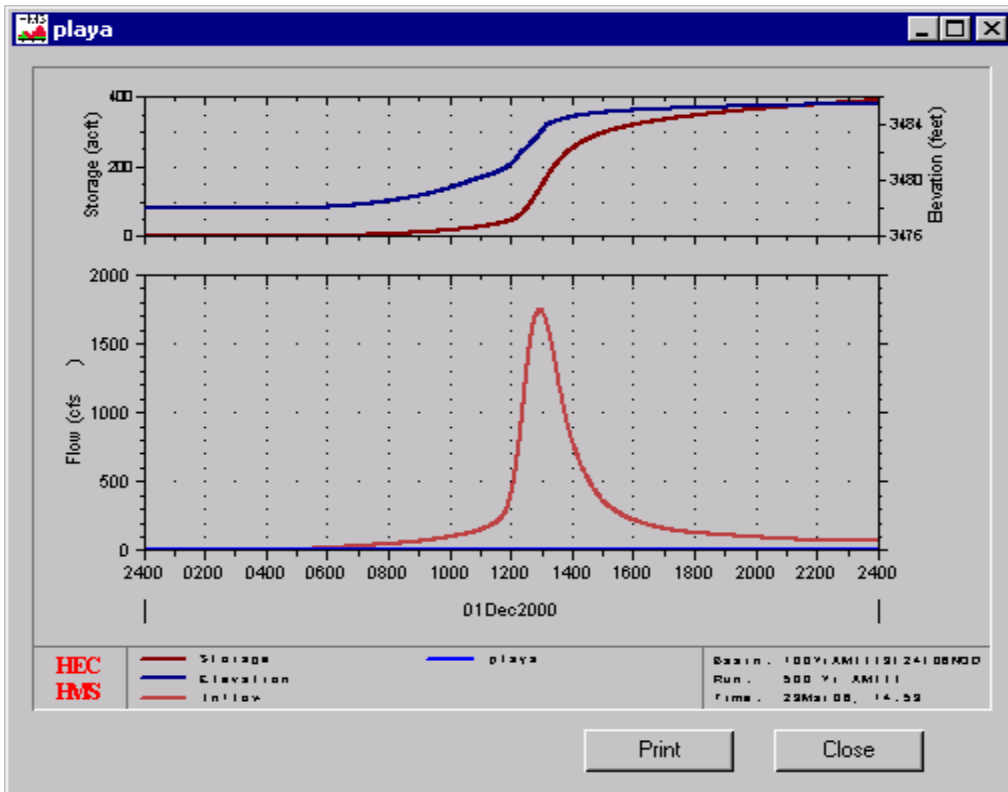
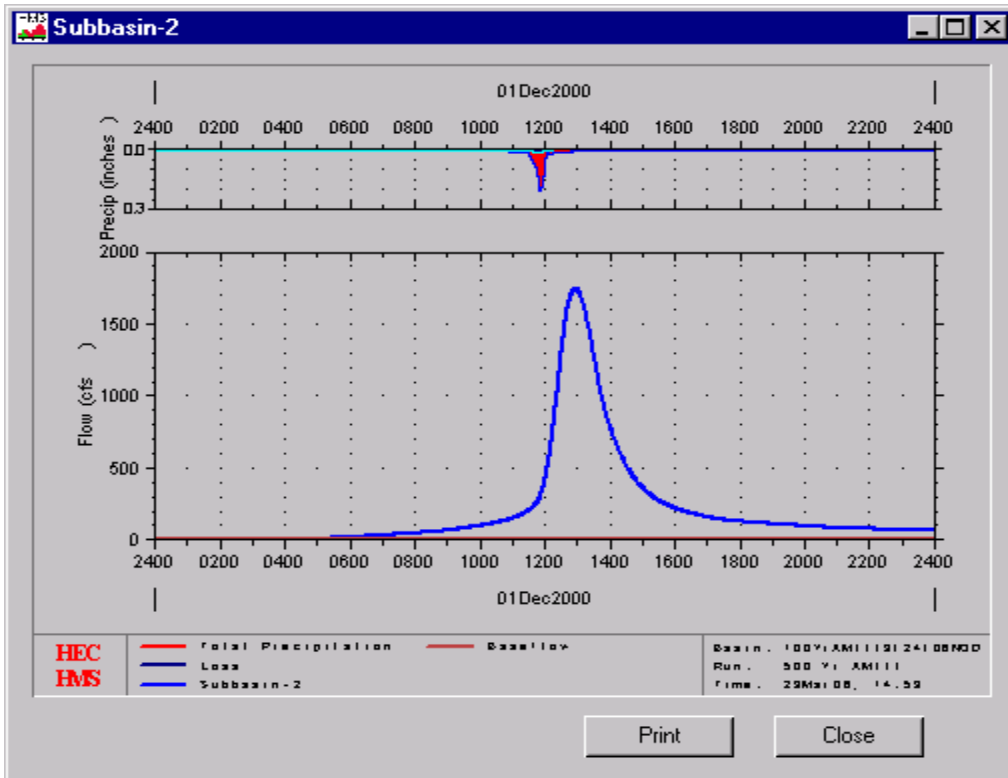
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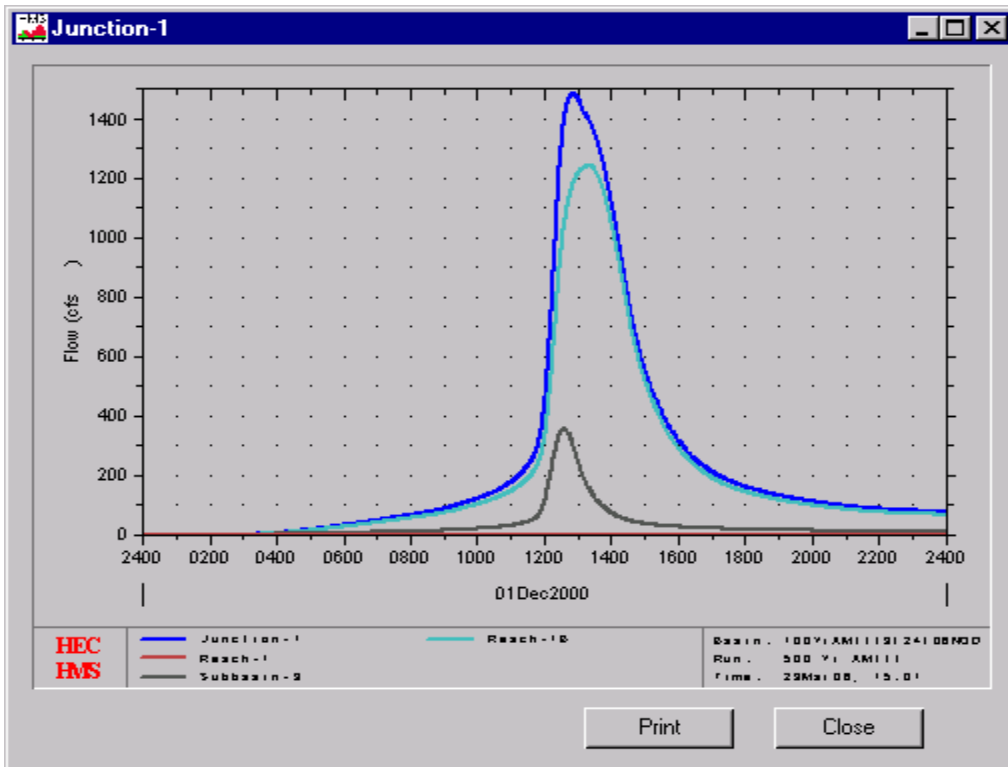
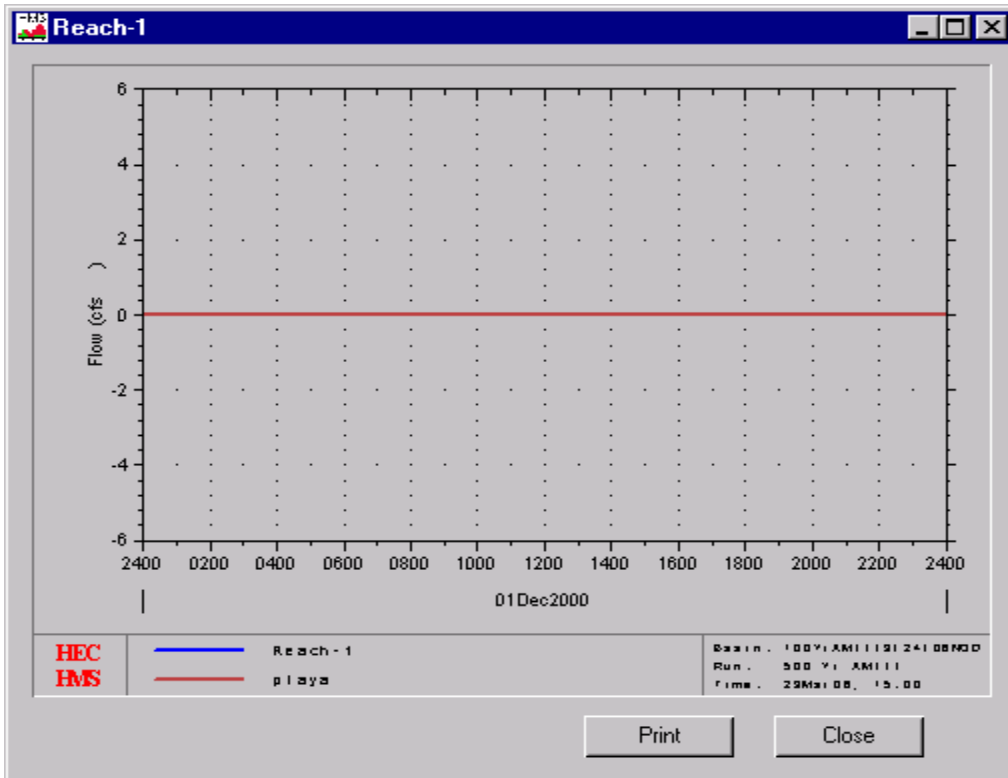
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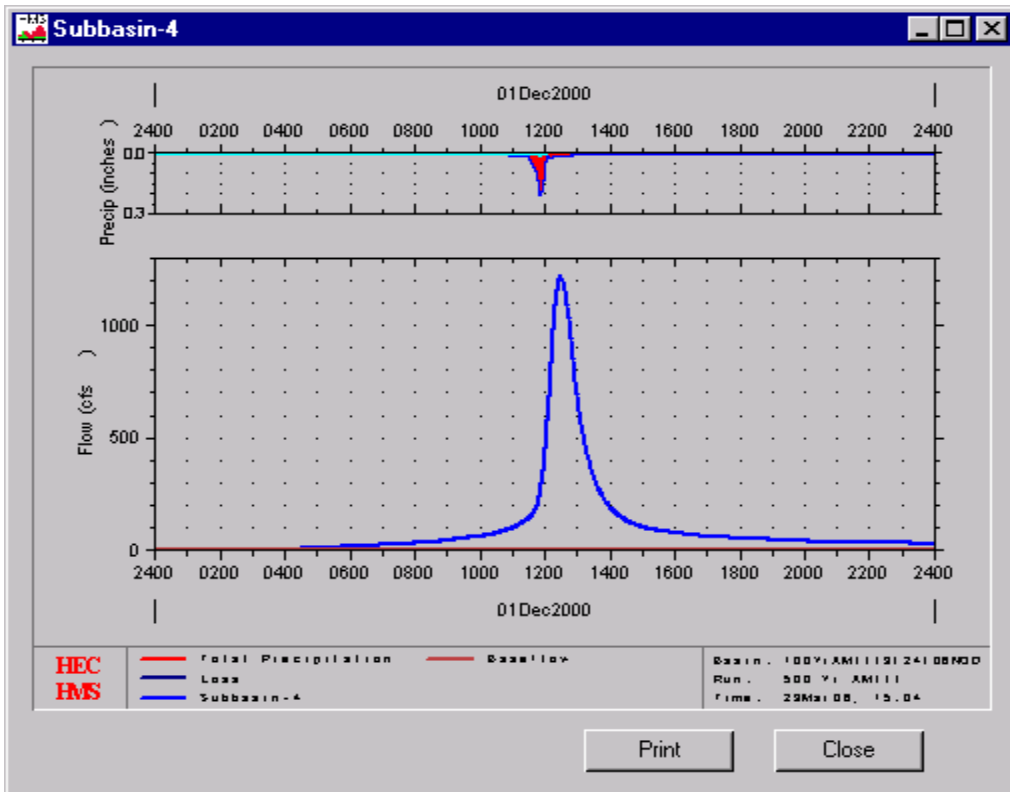
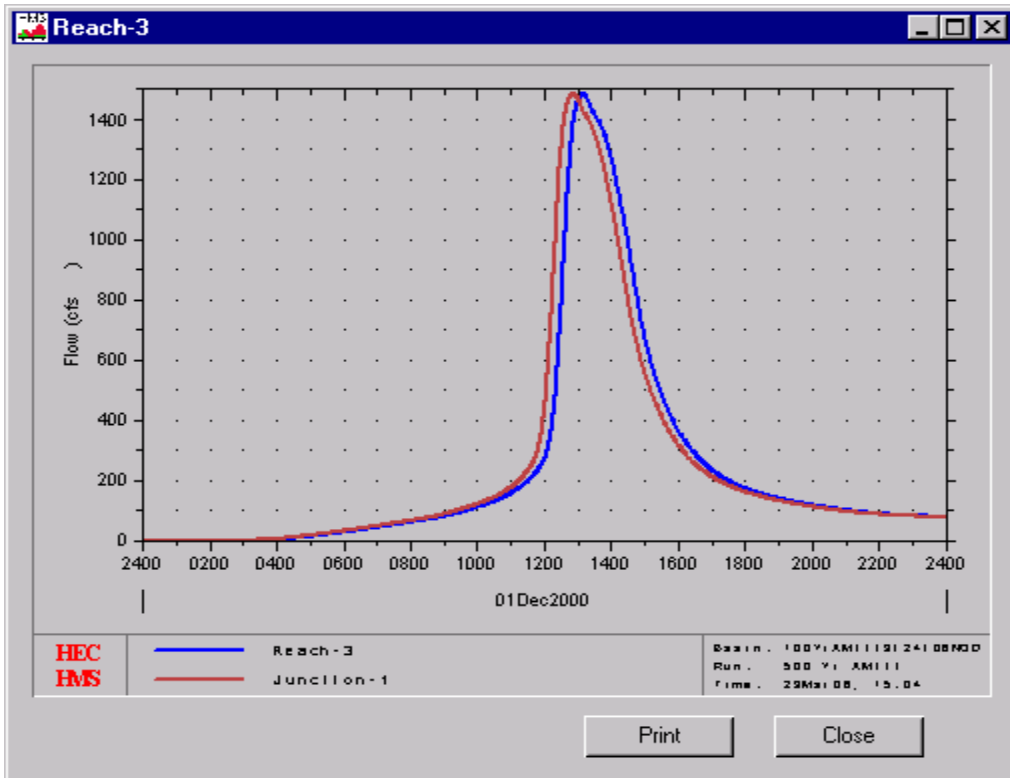
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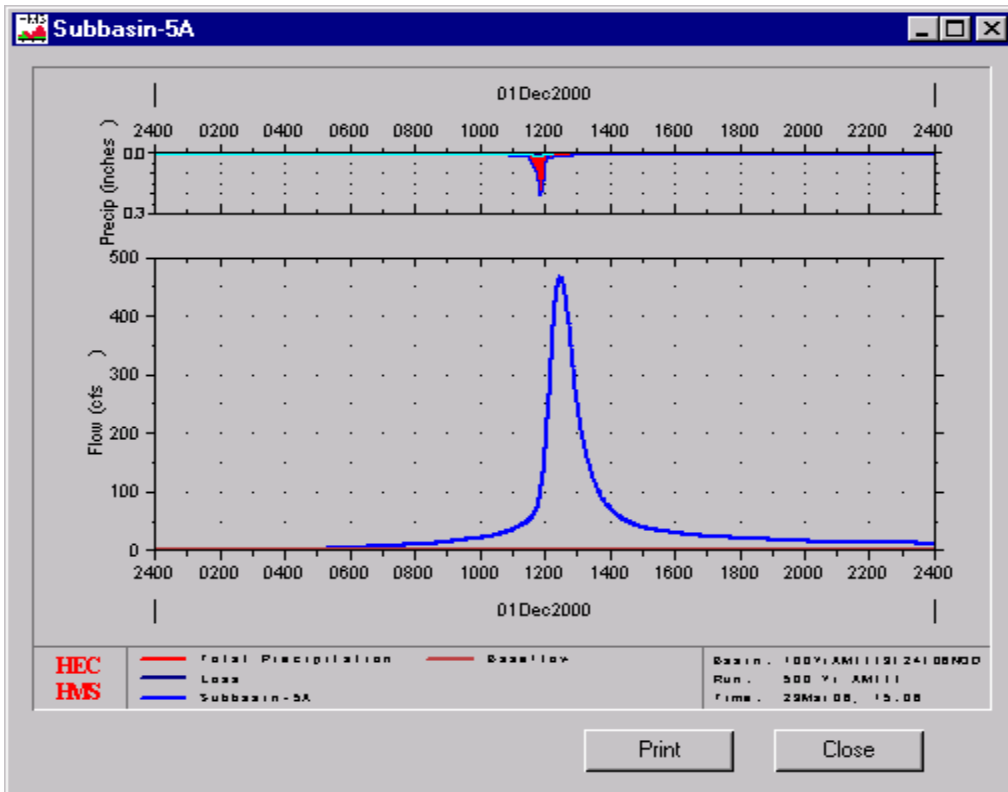
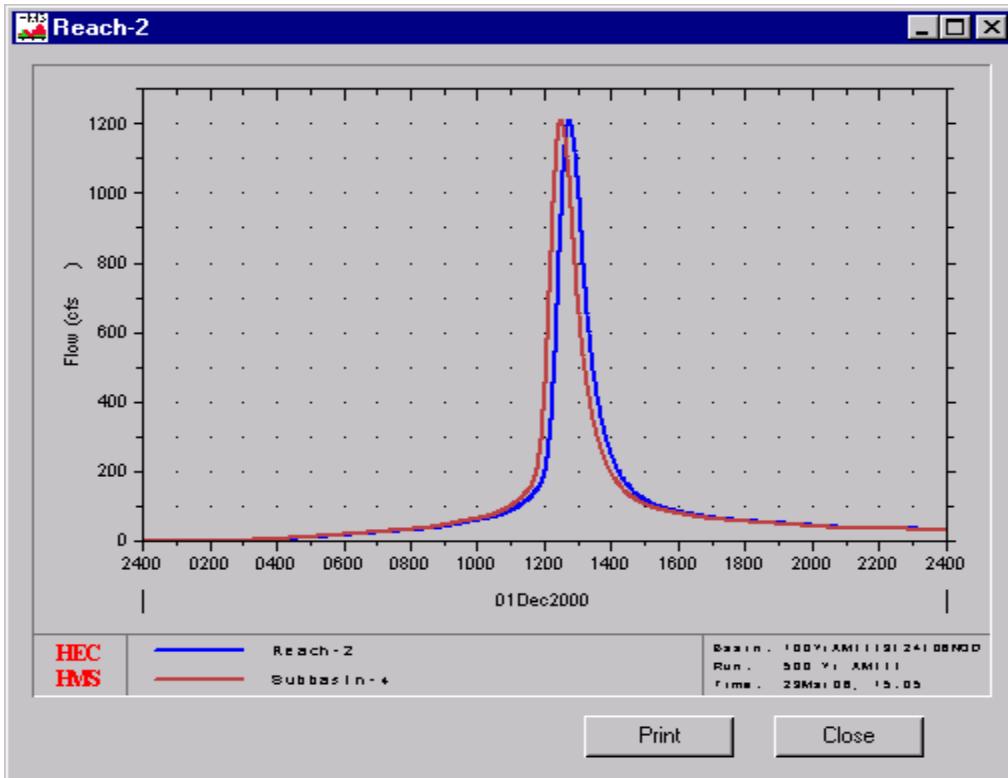
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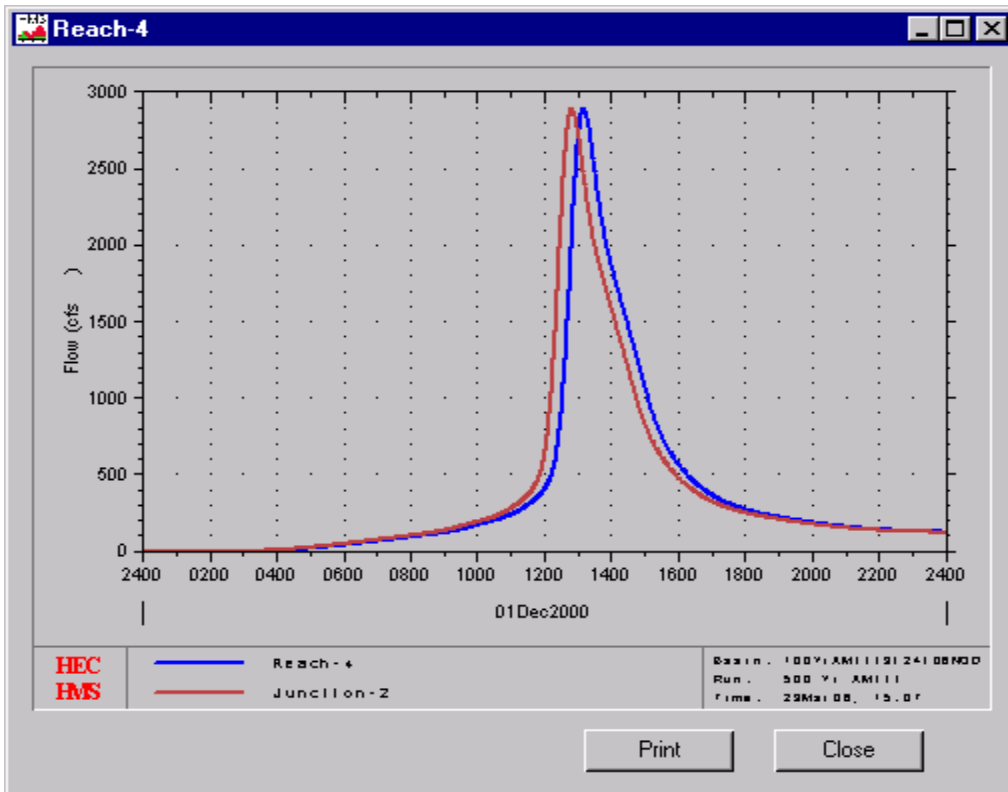
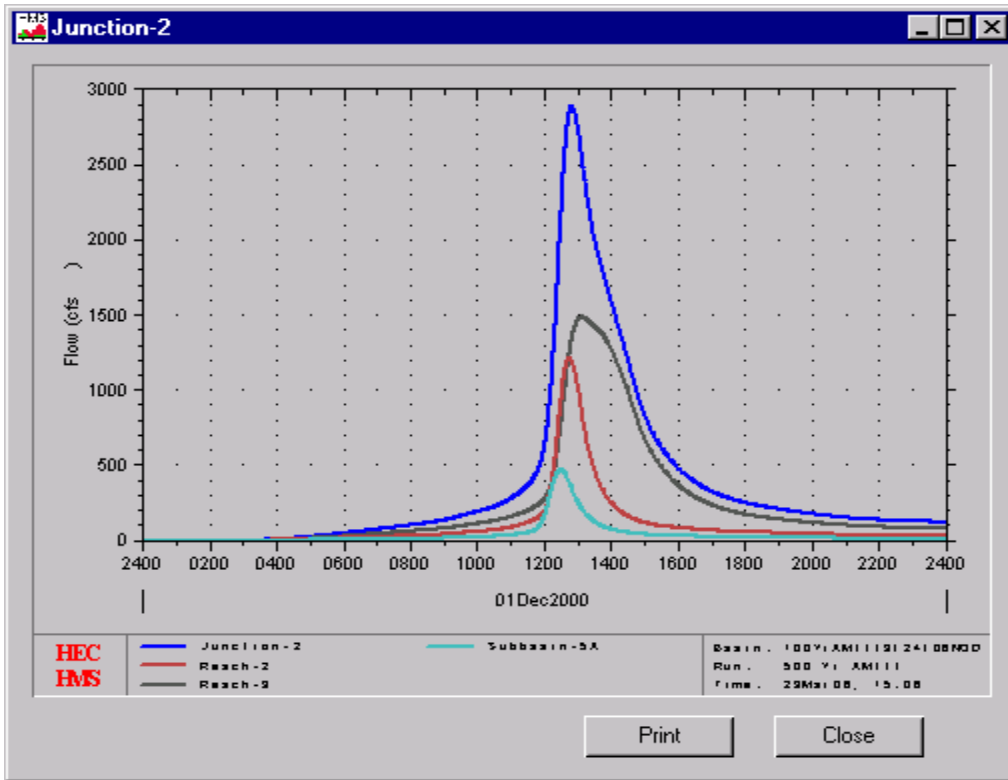
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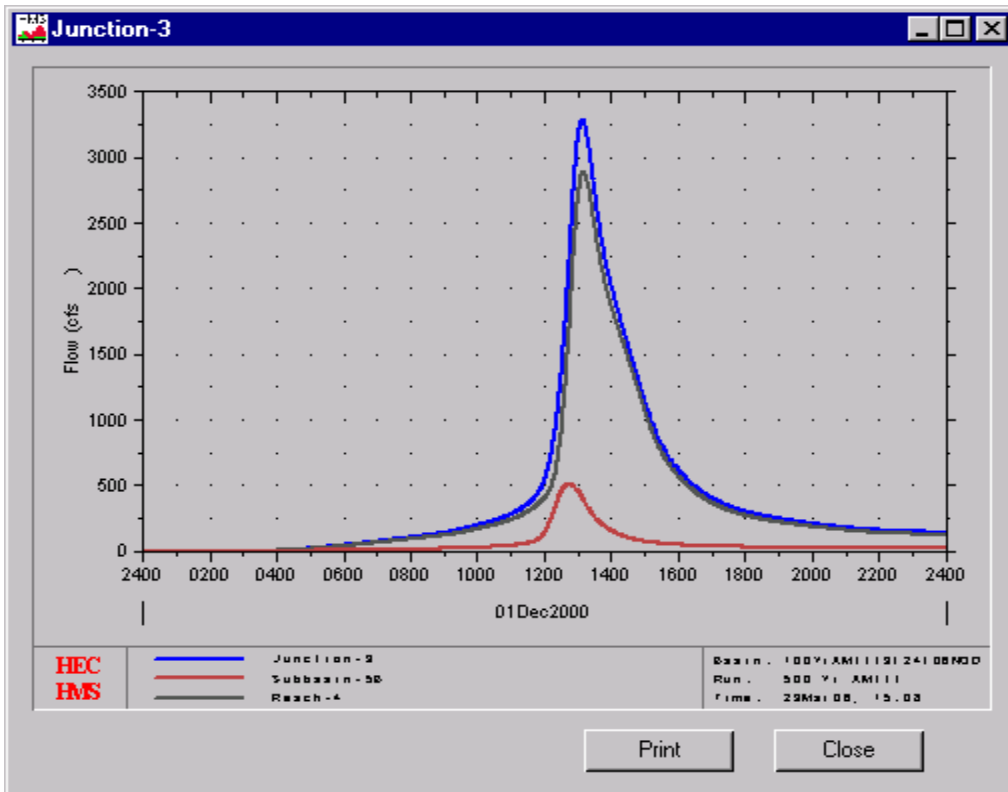
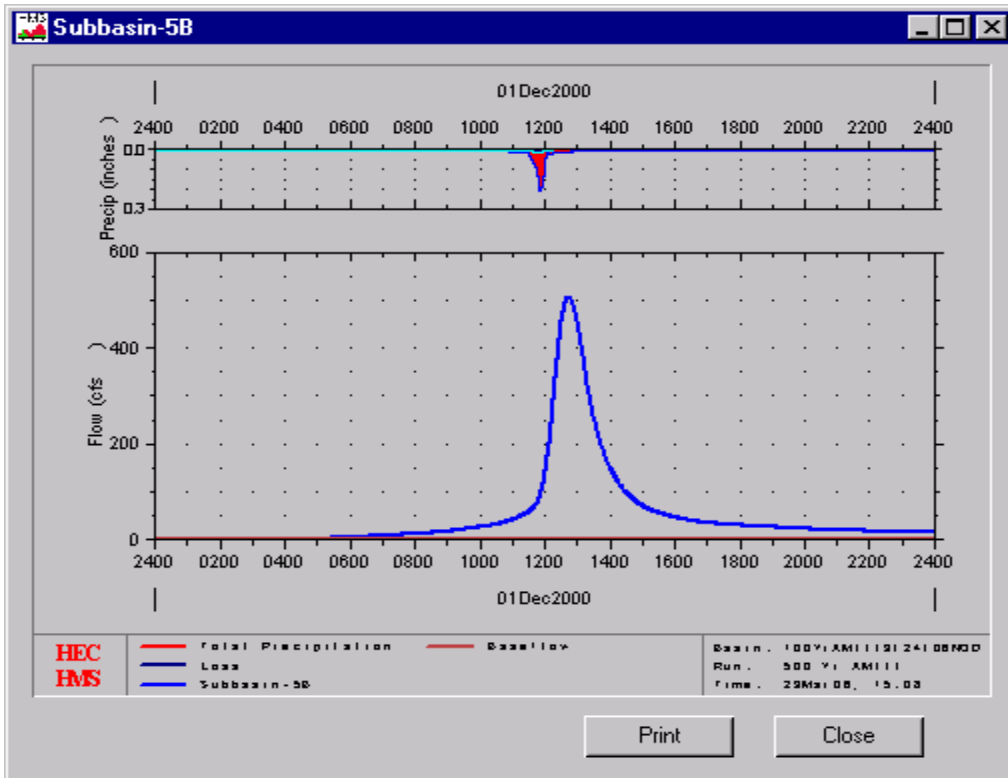
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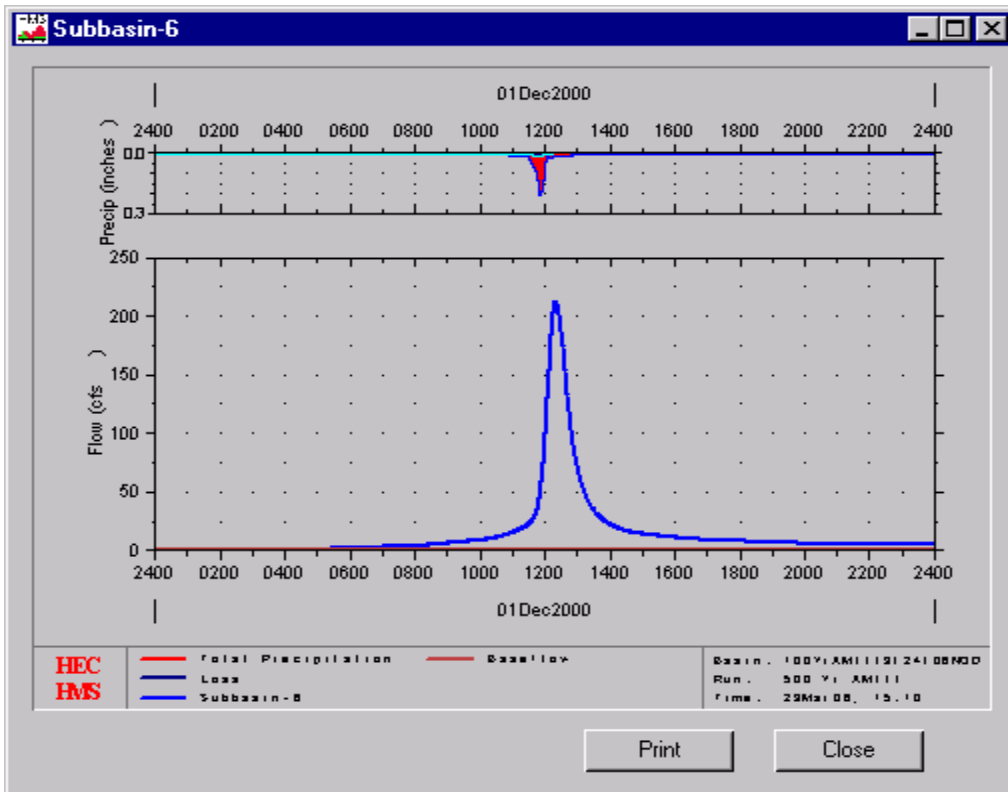
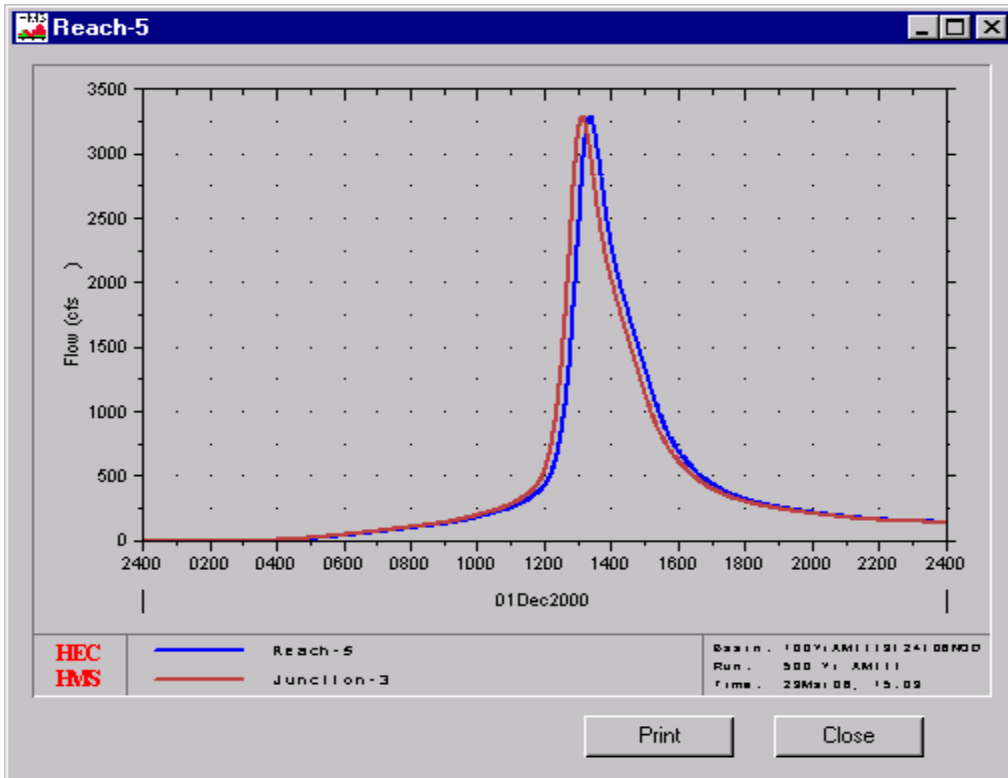
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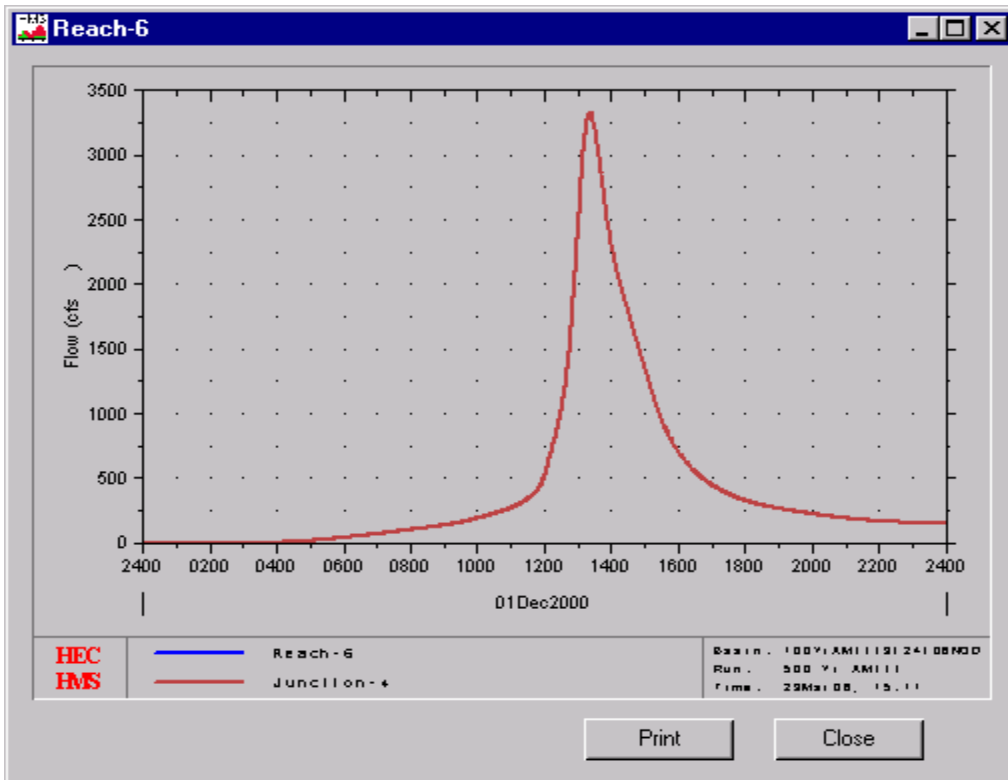
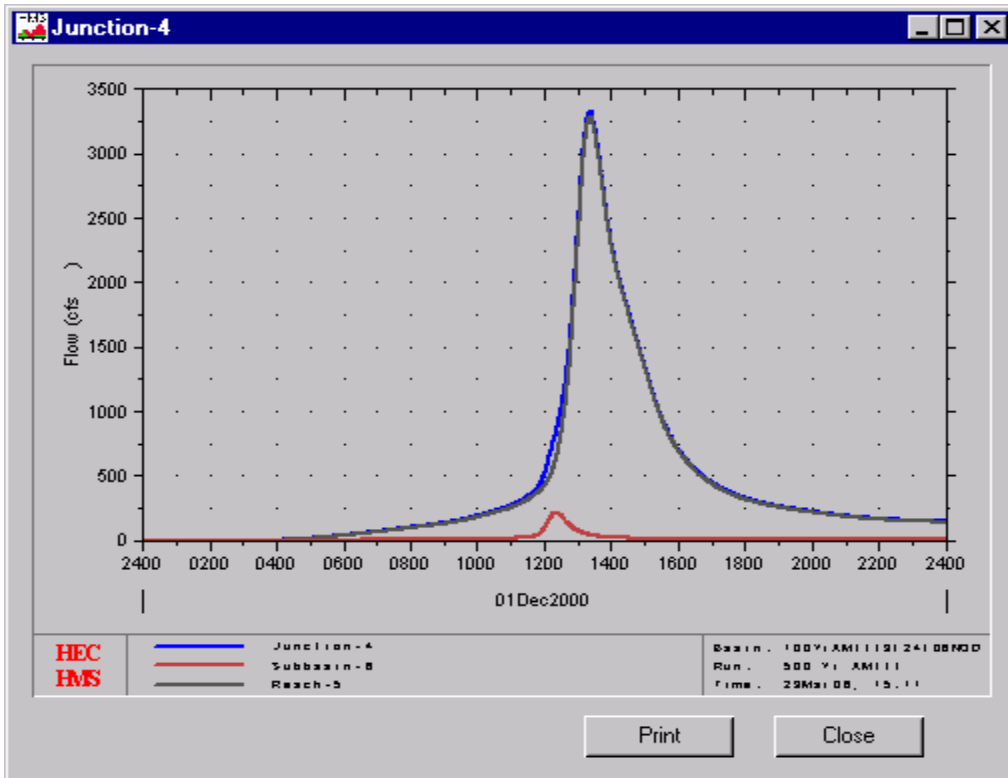
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