

APPENDIX N

HEC-HMS MODEL FOR THE CALCULATION OF THE 500-YEAR PEAK DISCHARGE, ANTECEDENT MOISTURE CONDITION II

HMS * Summary of Results

Project : WCS

Run Name : 500 Yr AMII

Start of Run : 01Dec00 0000 Basin Model : 100YrAMII3/24/06NOD
 End of Run : 02Dec00 0000 Met. Model : Met 500 Year
 Execution Time : 29Mar06 1101 Control Specs : Control 1

Hydrologic Element	Discharge Peak (cfs)	Time of Peak	Volume (ac ft)	Drainage Area (sq mi)
Subbasin-4	986.26	01 Dec 00 1232	149.79	0.490
Reach-2	986.26	01 Dec 00 1247	149.19	0.490
Subbasin-2	1343.1	01 Dec 00 1300	294.70	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	817.92	01 Dec 00 1321	220.98	0.691
Reach-1A	817.92	01 Dec 00 1338	219.95	0.691
Subbasin-1B	567.21	01 Dec 00 1237	93.801	0.314
Junction-1A	1031.9	01 Dec 00 1322	313.75	1.005
Reach-1B	1031.9	01 Dec 00 1325	313.49	1.005
Subbasin-3	287.68	01 Dec 00 1237	47.606	0.156
Junction-1	1200.7	01 Dec 00 1256	361.10	2.224
Reach-3	1200.7	01 Dec 00 1313	359.40	2.224
Subbasin-5A	361.11	01 Dec 00 1231	53.770	0.192
Junction-2	2314.6	01 Dec 00 1251	562.36	2.906
Reach-4	2314.6	01 Dec 00 1312	559.06	2.906
Subbasin-5B	390.30	01 Dec 00 1247	73.802	0.265
Junction-3	2624.5	01 Dec 00 1310	632.86	3.171
Reach-5	2624.5	01 Dec 00 1324	630.34	3.171
Subbasin-6	164.62	01 Dec 00 1222	20.784	0.074
Junction-4	2658.6	01 Dec 00 1324	651.12	3.245
Reach-6	2658.6	01 Dec 00 1324	651.12	3.245
Subbasin-7	136.06	01 Dec 00 1259	29.510	0.104
Junction-5	2772.5	01 Dec 00 1323	680.63	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: 100YrAMII3/24/06NOD

Subbasin Name	SCS Curve Number	Initial Abstraction (in)	Imperviousness (%)
Subbasin-1A	79		0.0
Subbasin-2	72		0.0
Subbasin-3	76		0.0
Subbasin-4	76		0.0
Subbasin-5B	72		0.0
Subbasin-6	72		0.0
Subbasin-1B	75		0.0
Subbasin-5A	72		0.0
Subbasin-7	73		0.0

OK Apply Cancel

HMS * Basin Model * SCS UH

Sort Help

Basin Model ID: 100YrAMII3/24/06NOD

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 : 100YrAMII3/24/06NOD

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:

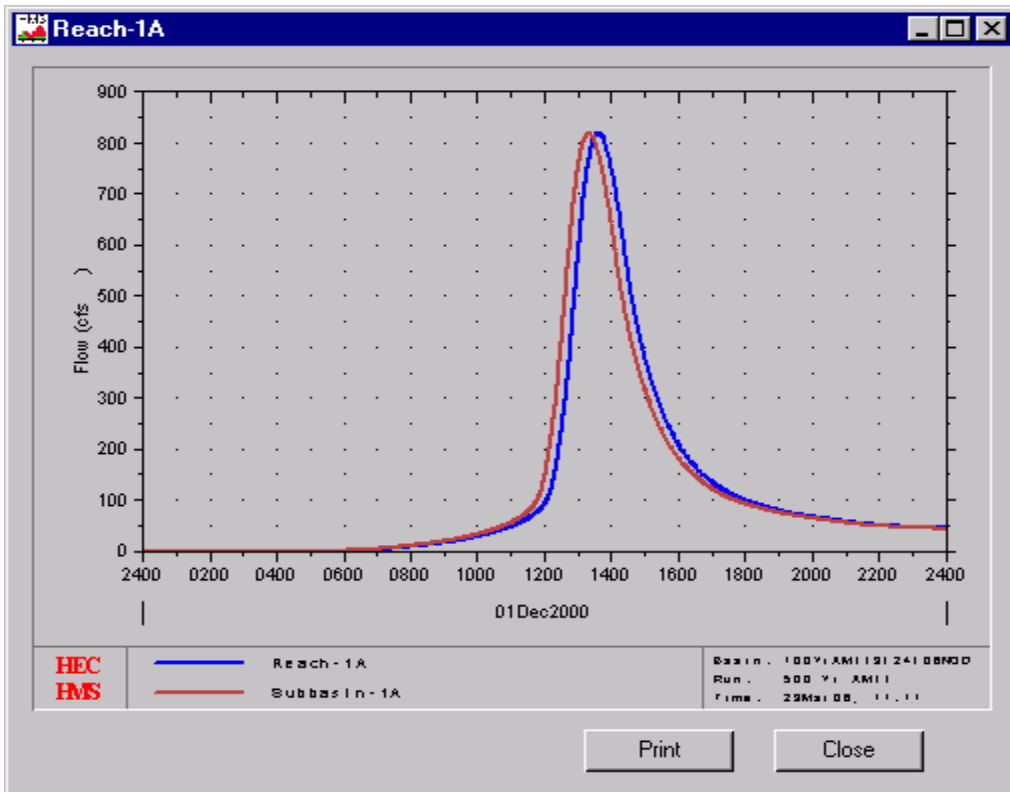
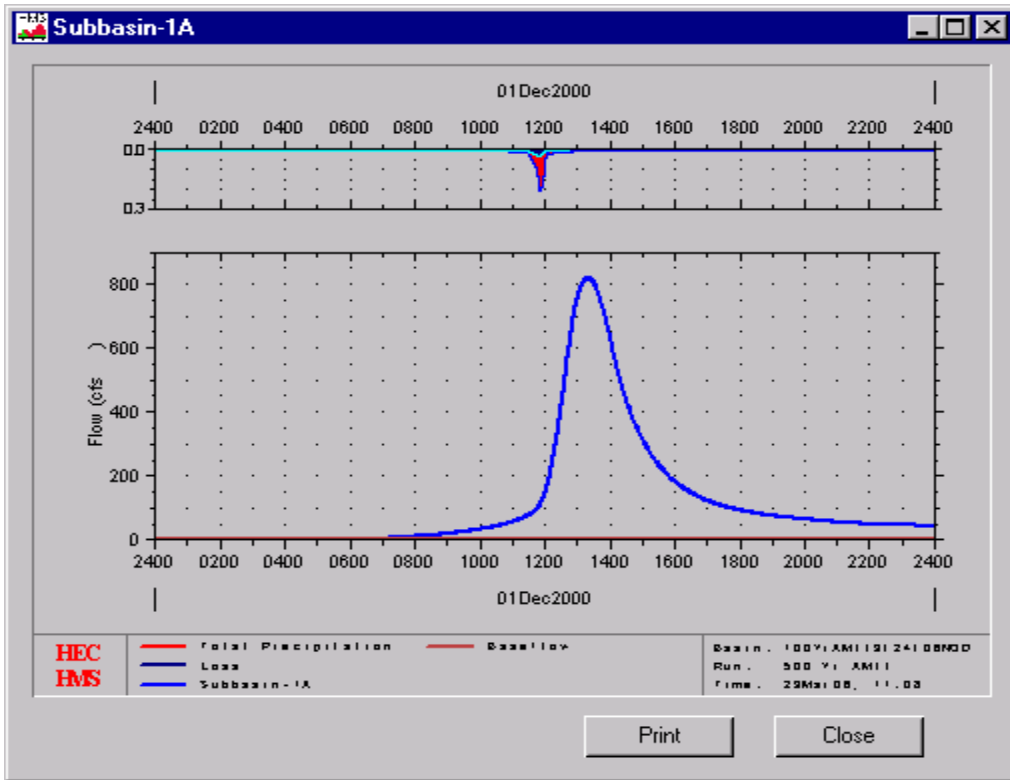
Initial:

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

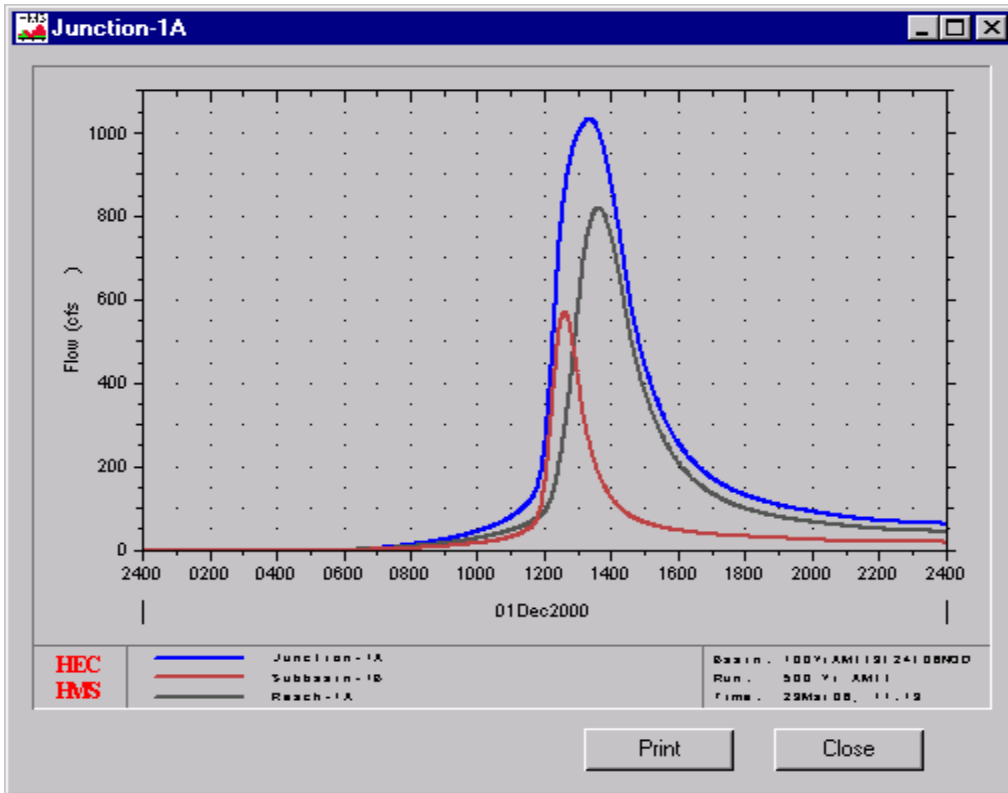
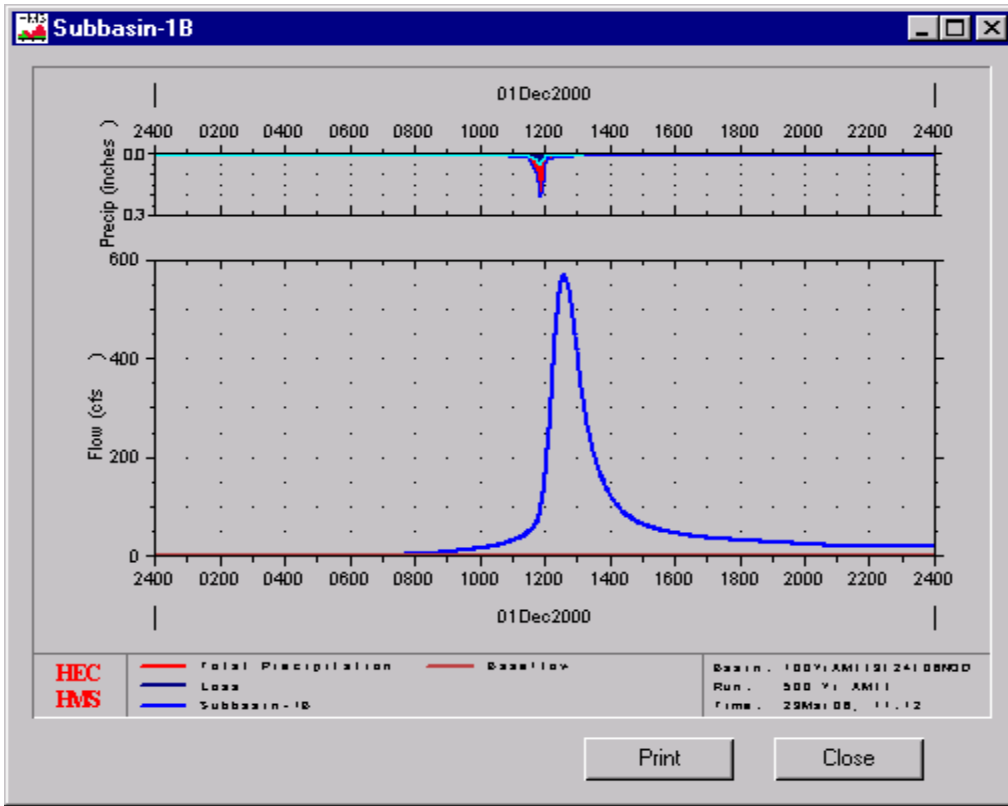
Graph

OK Apply Cancel

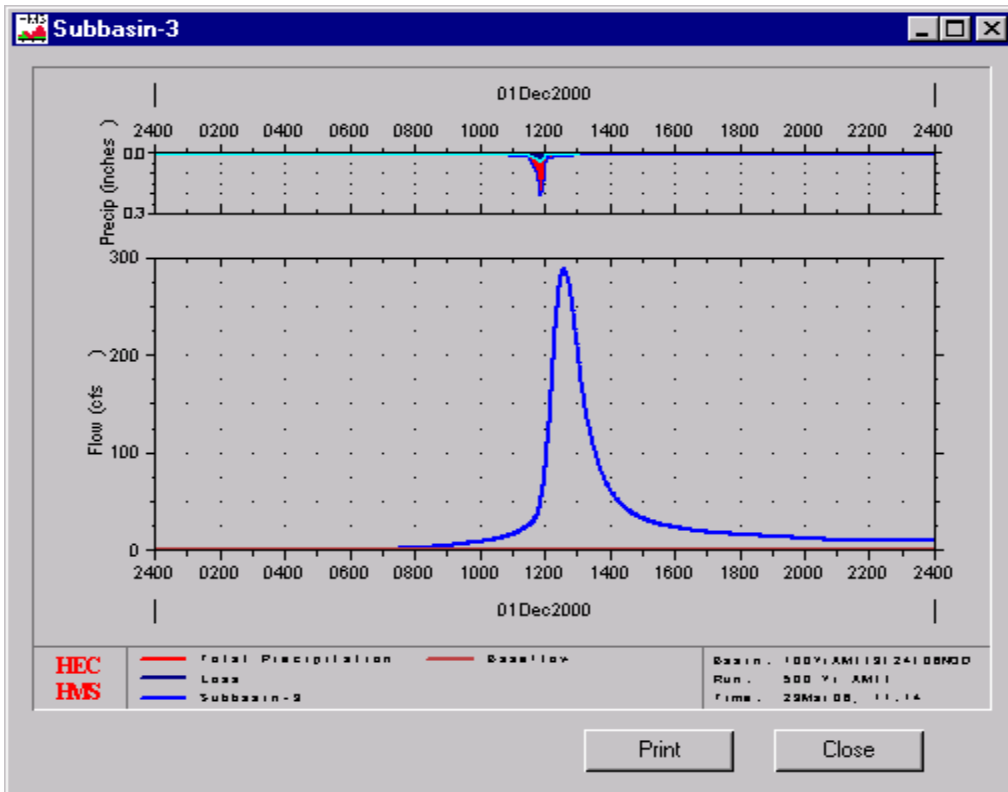
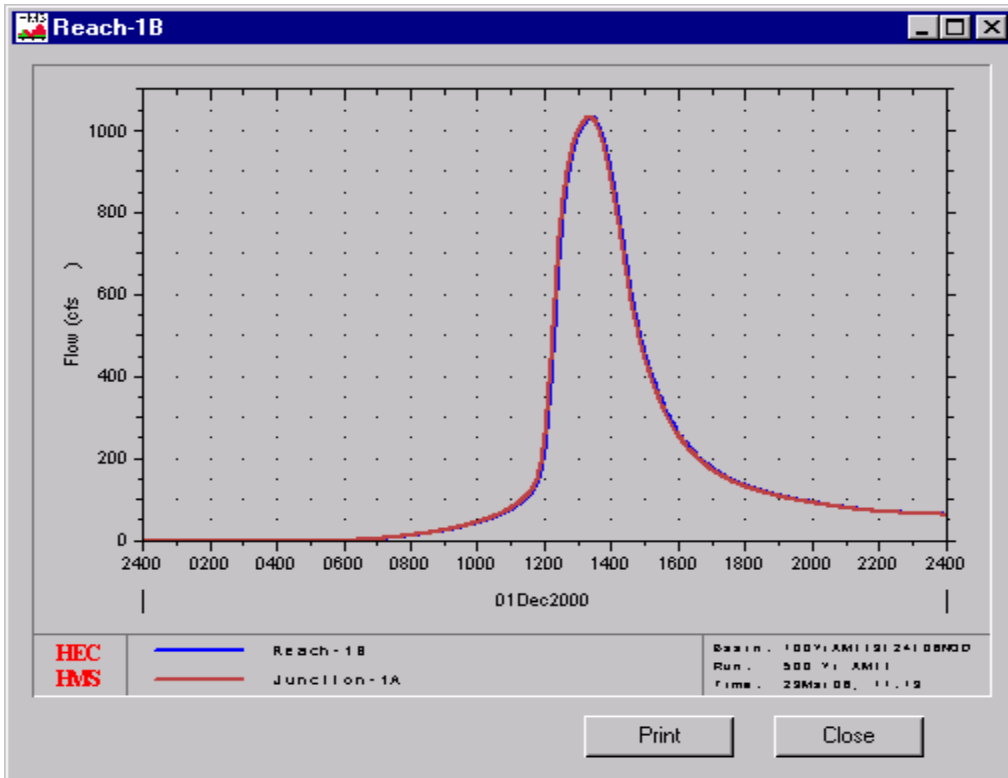
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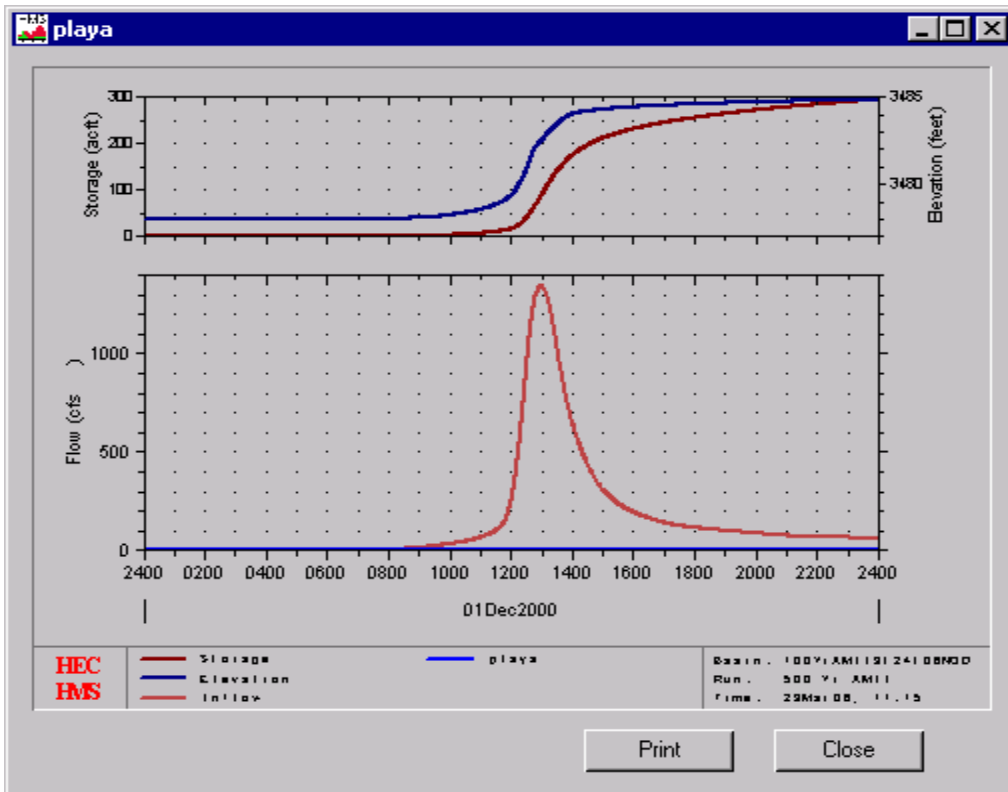
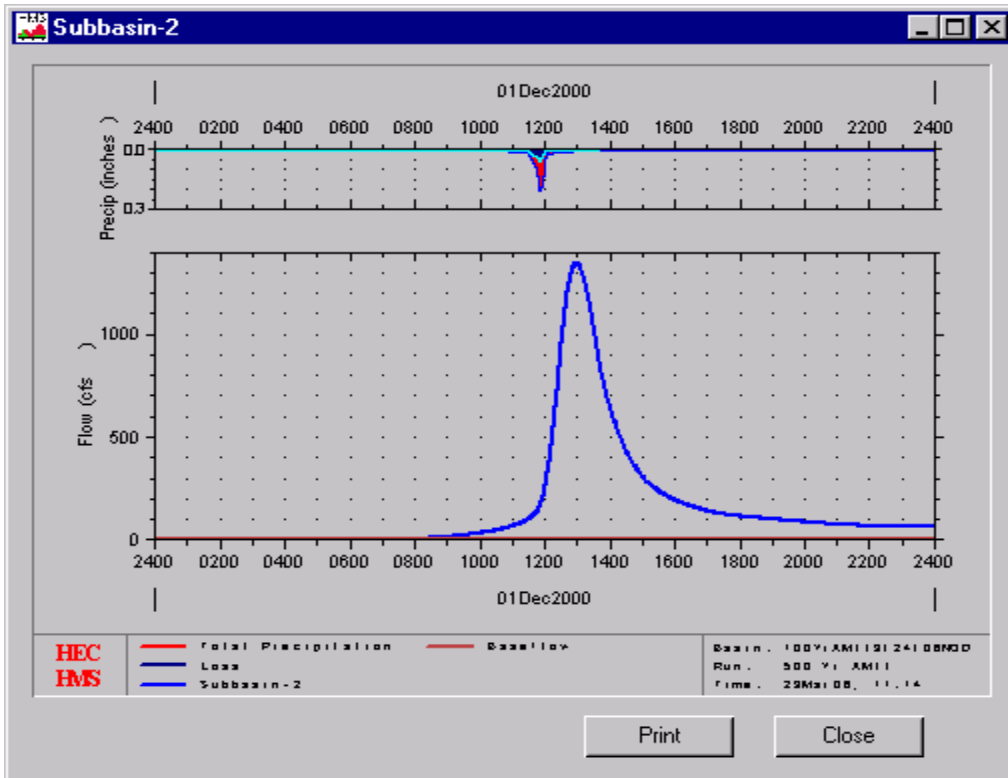
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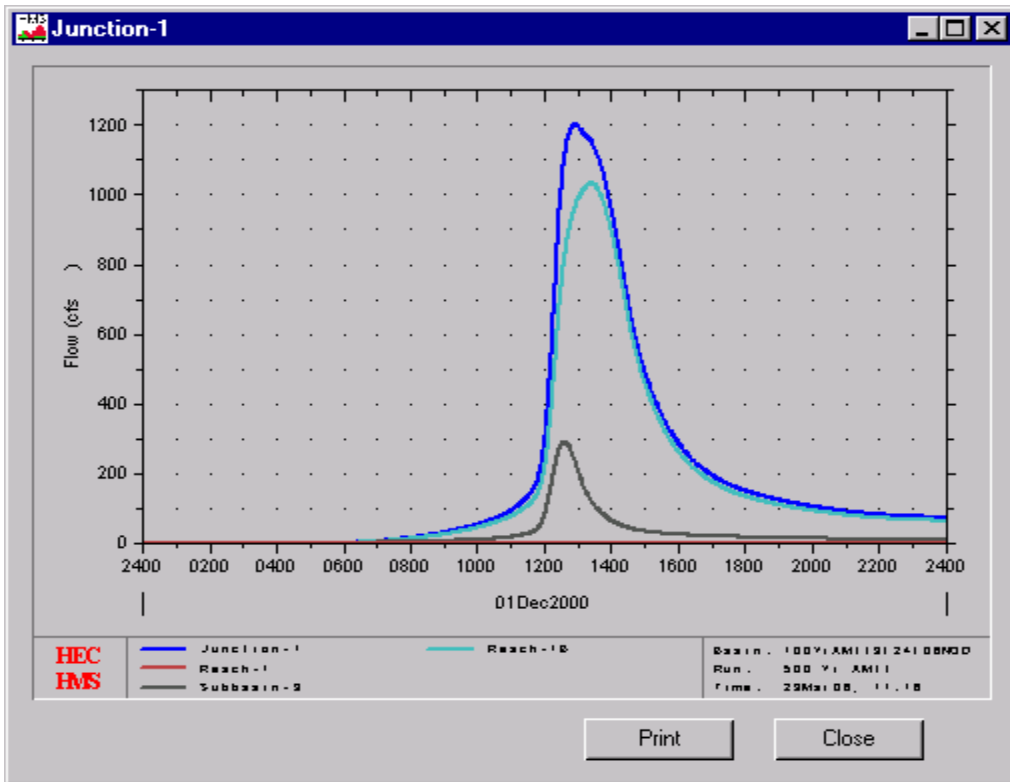
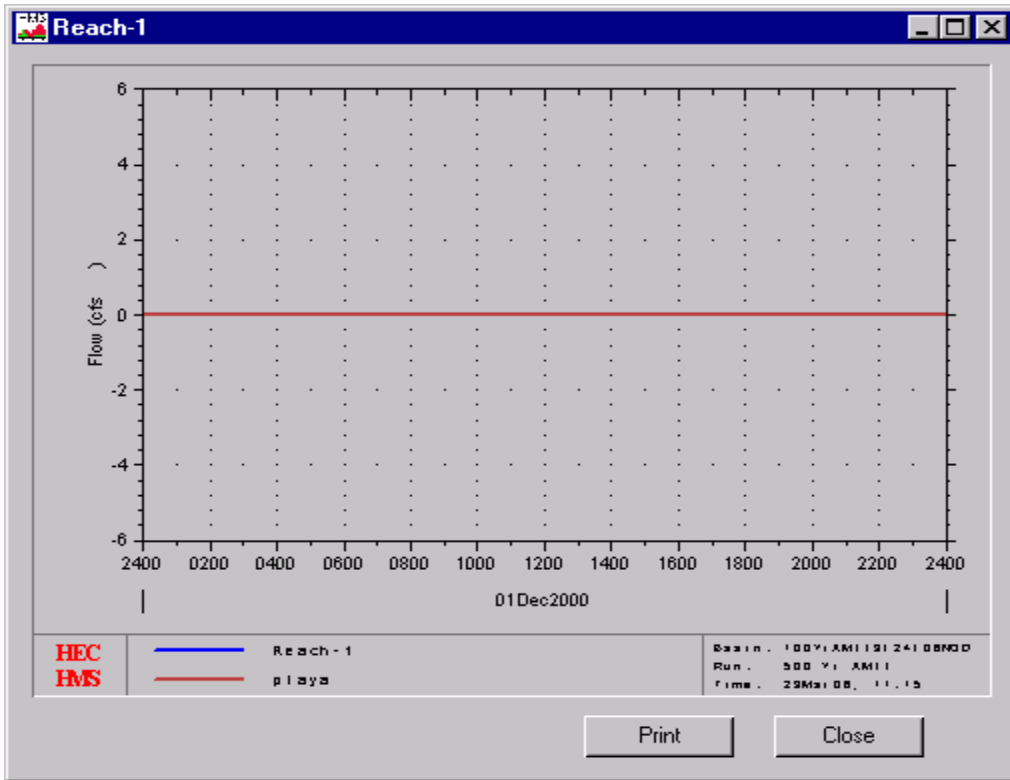
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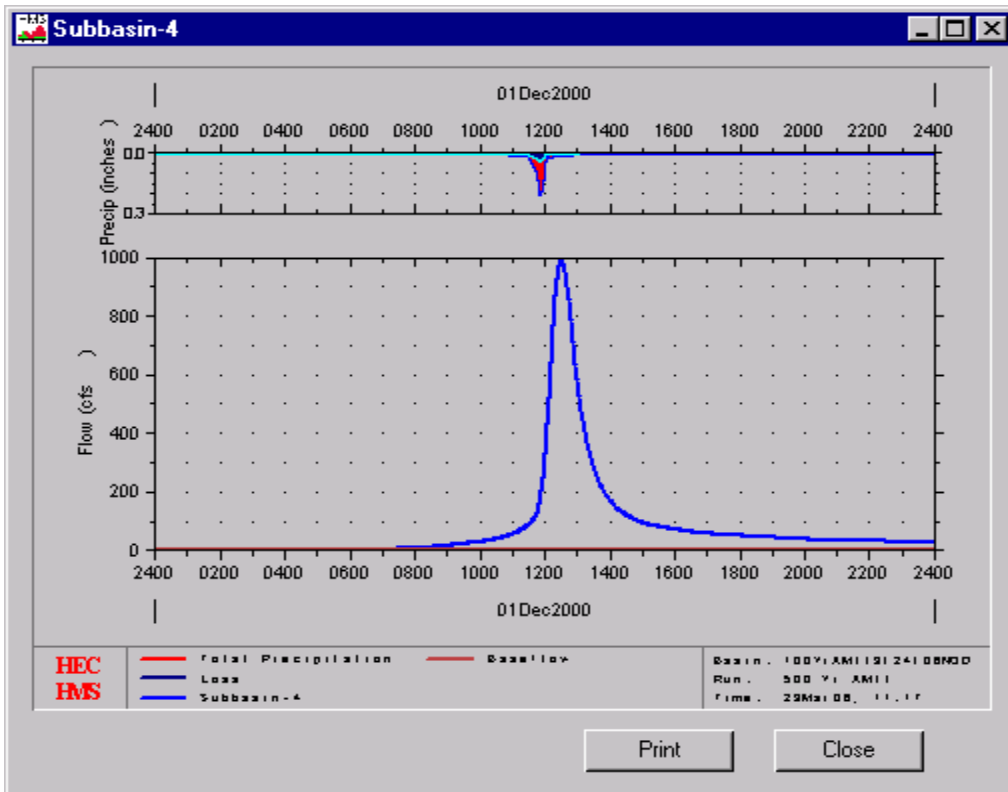
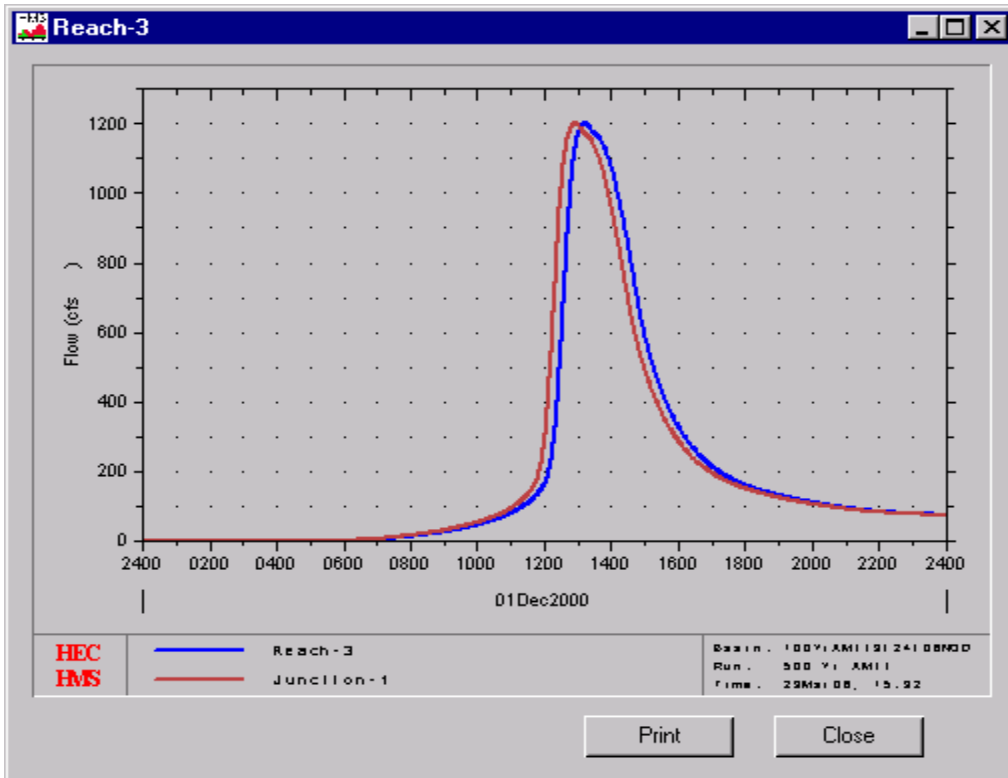
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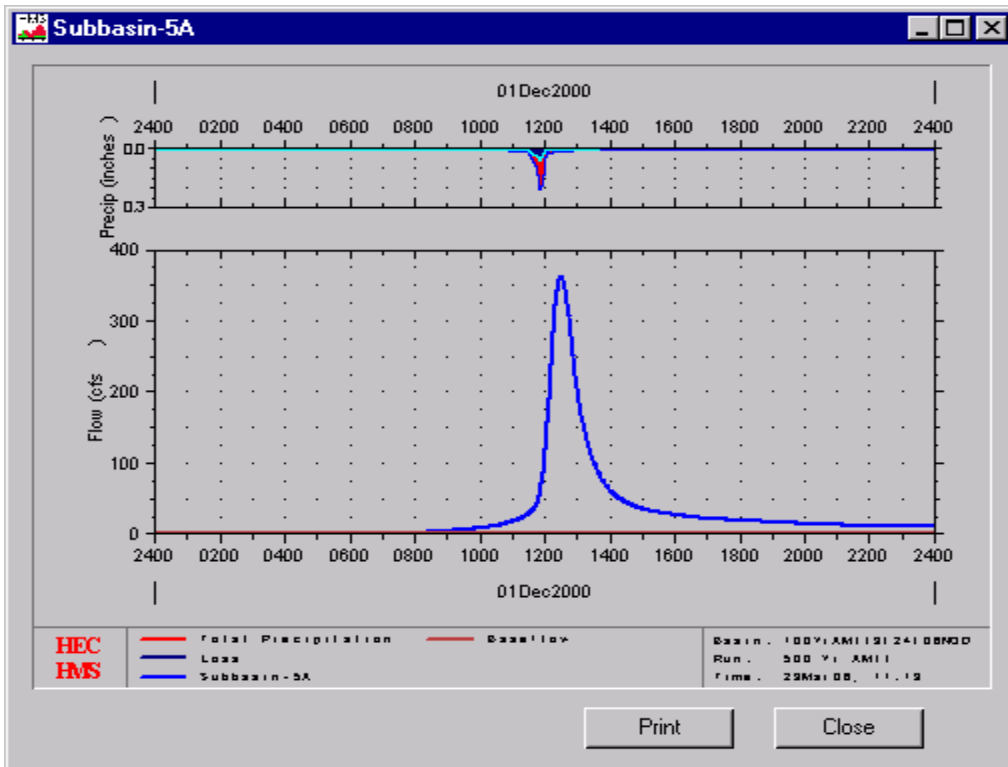
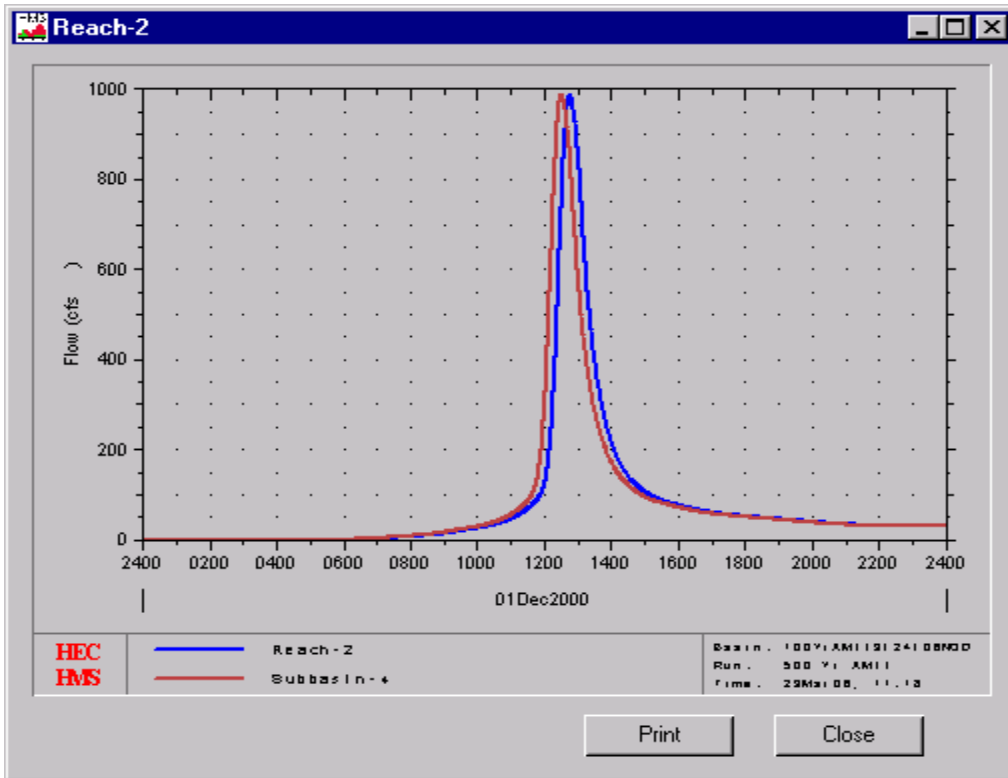
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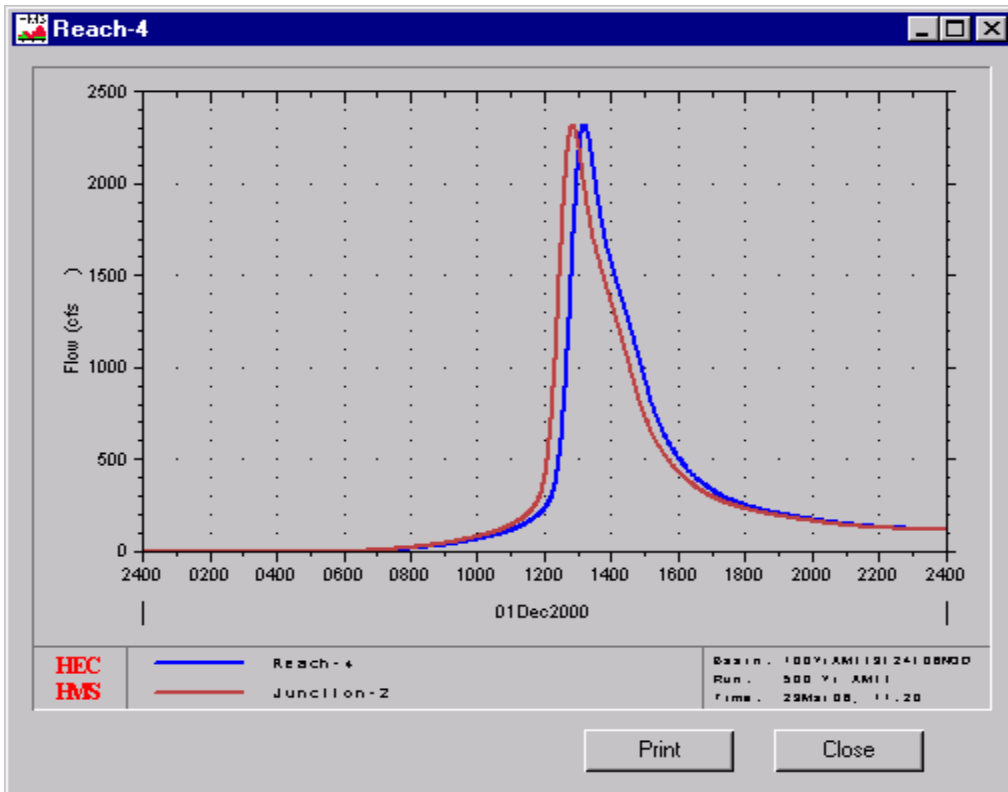
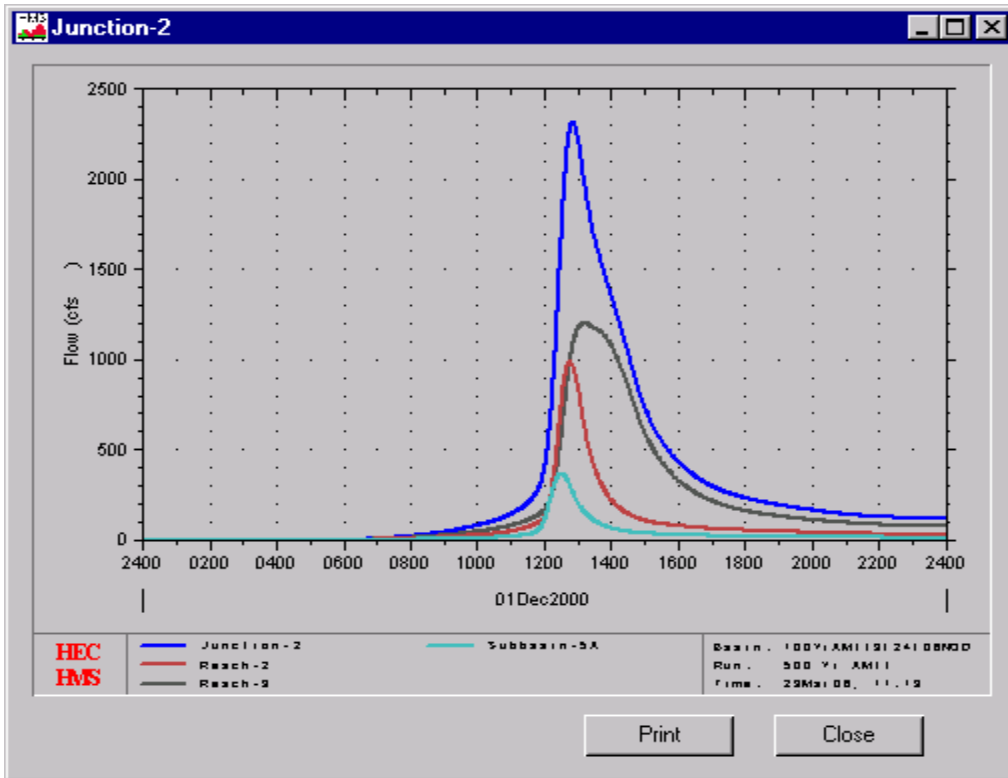
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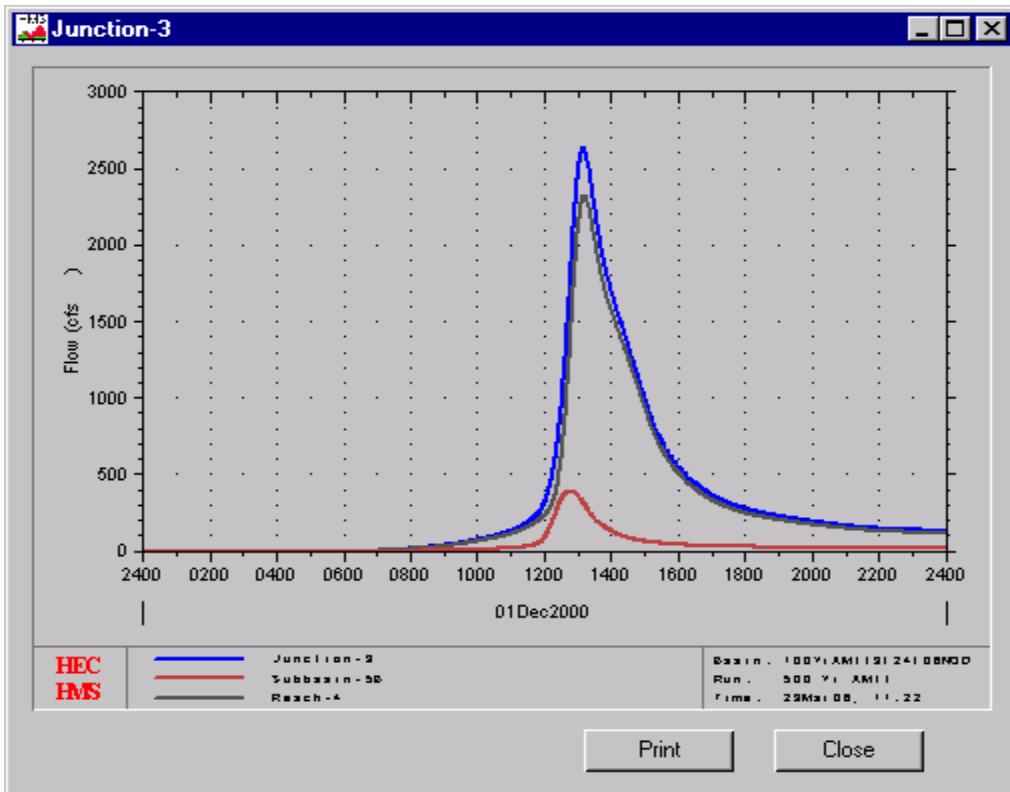
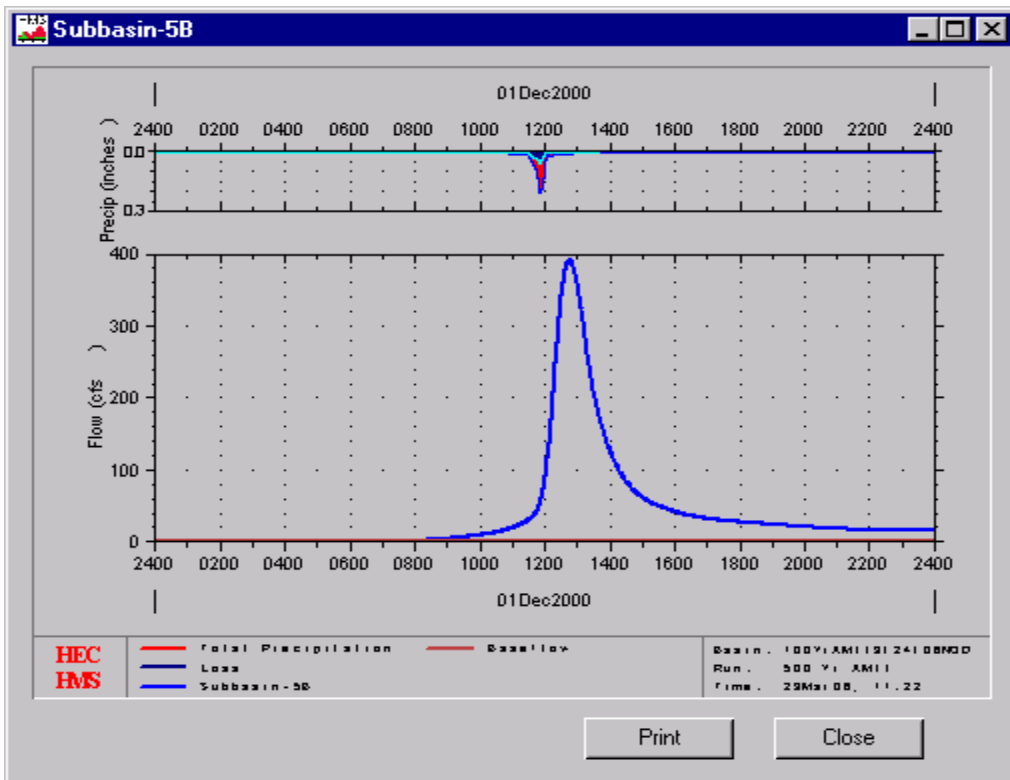
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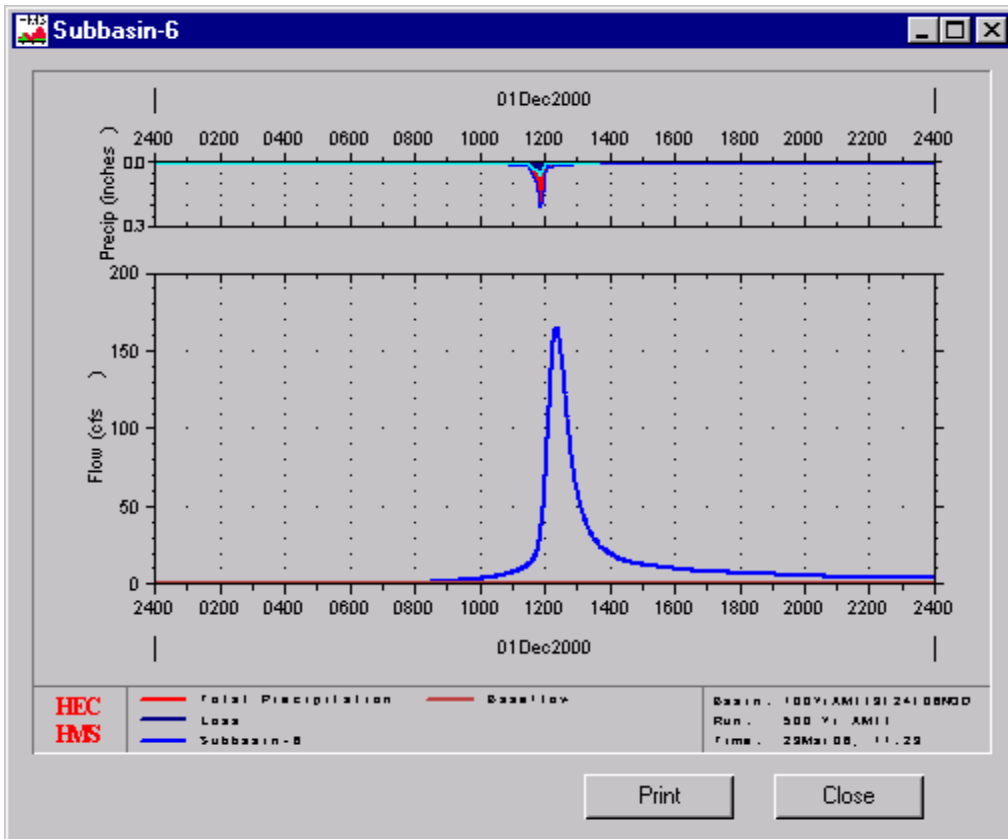
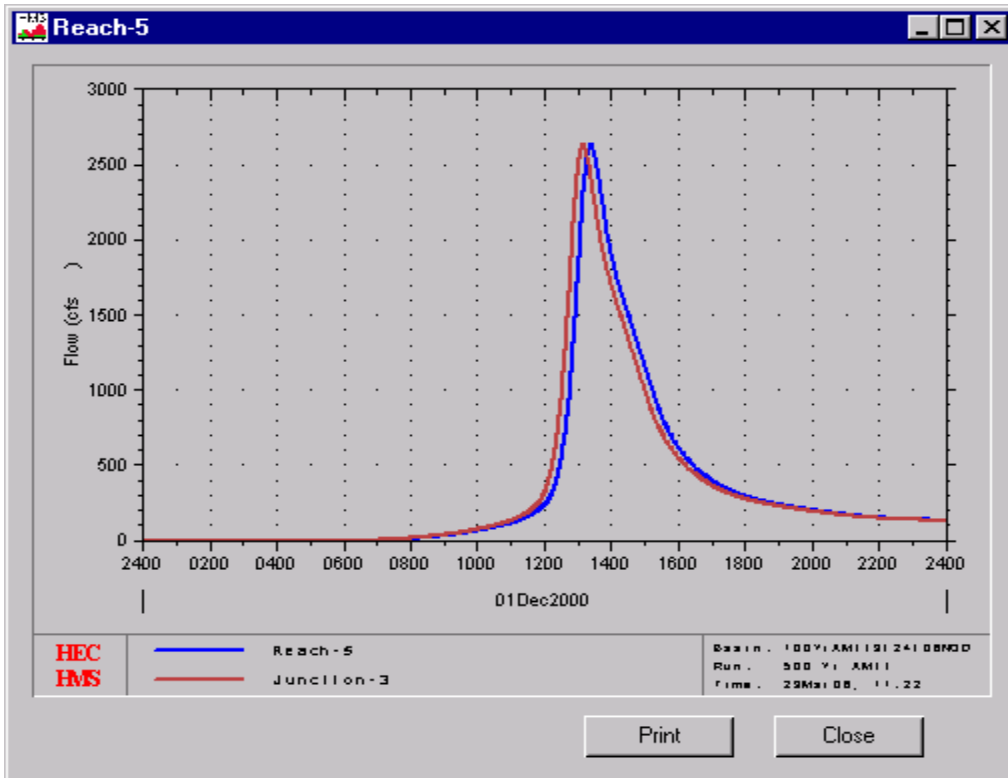
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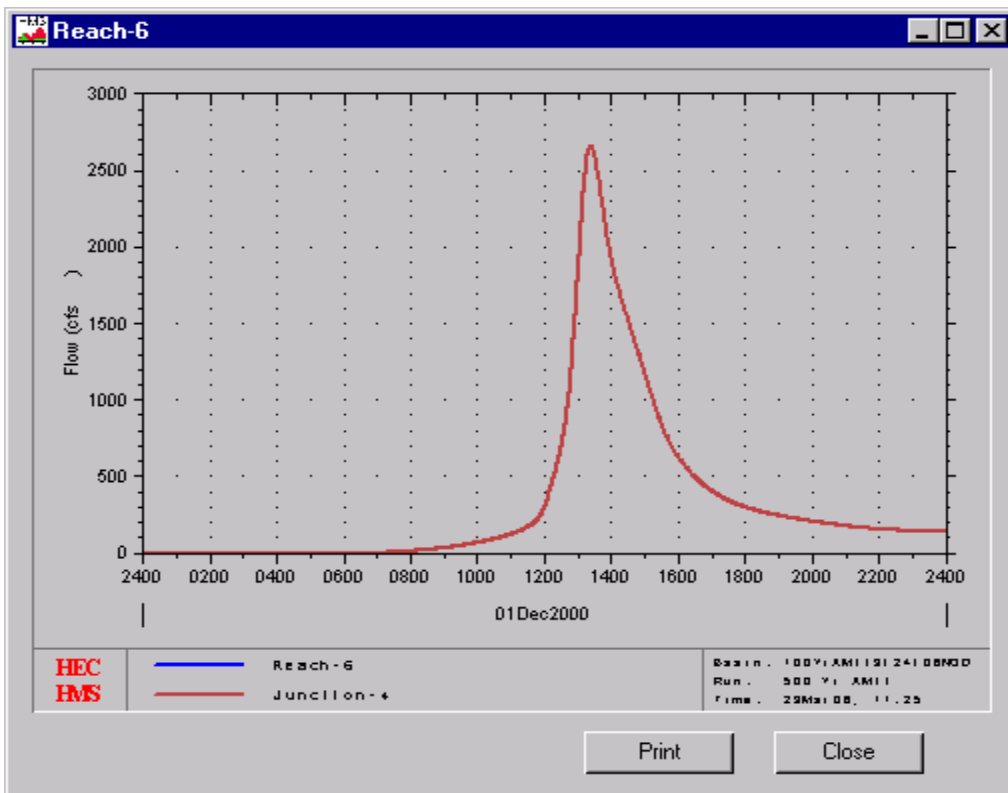
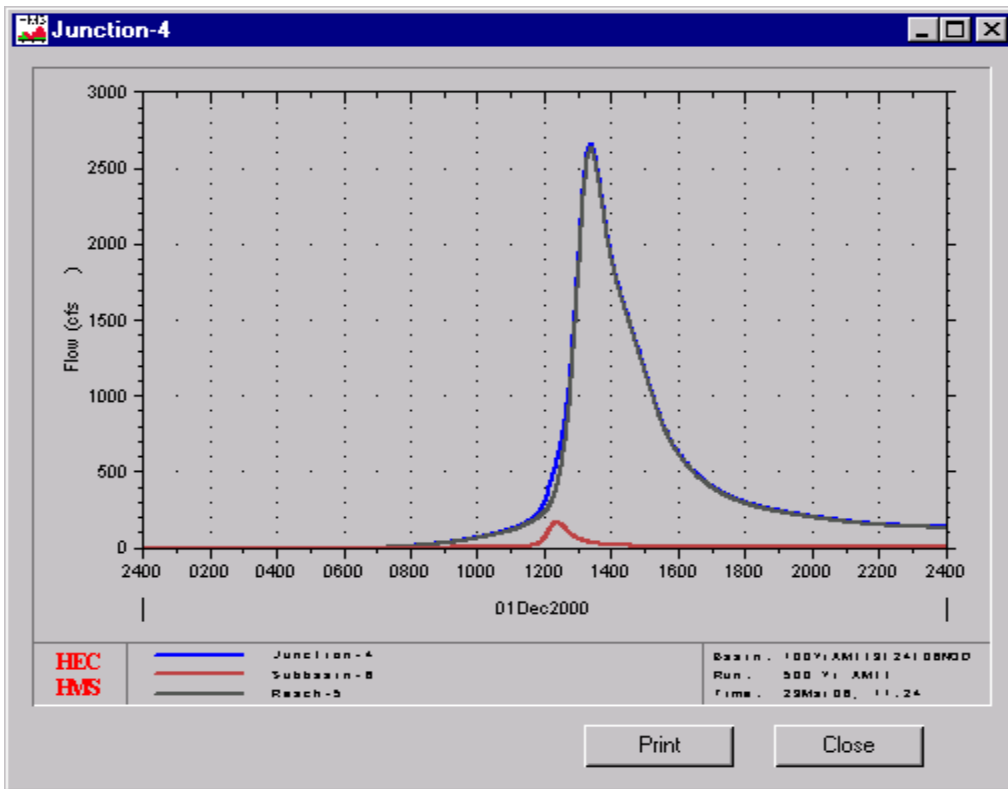
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