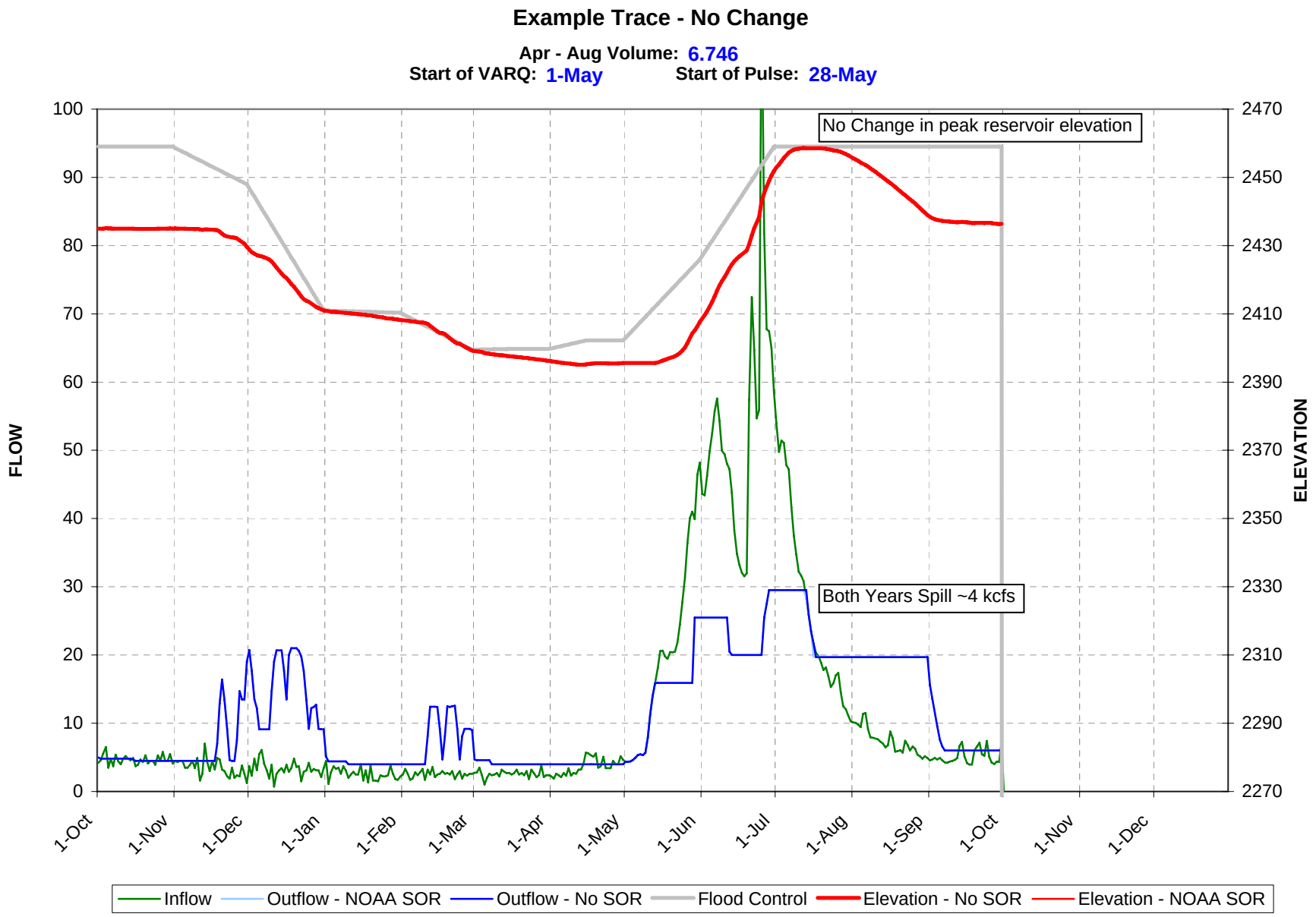
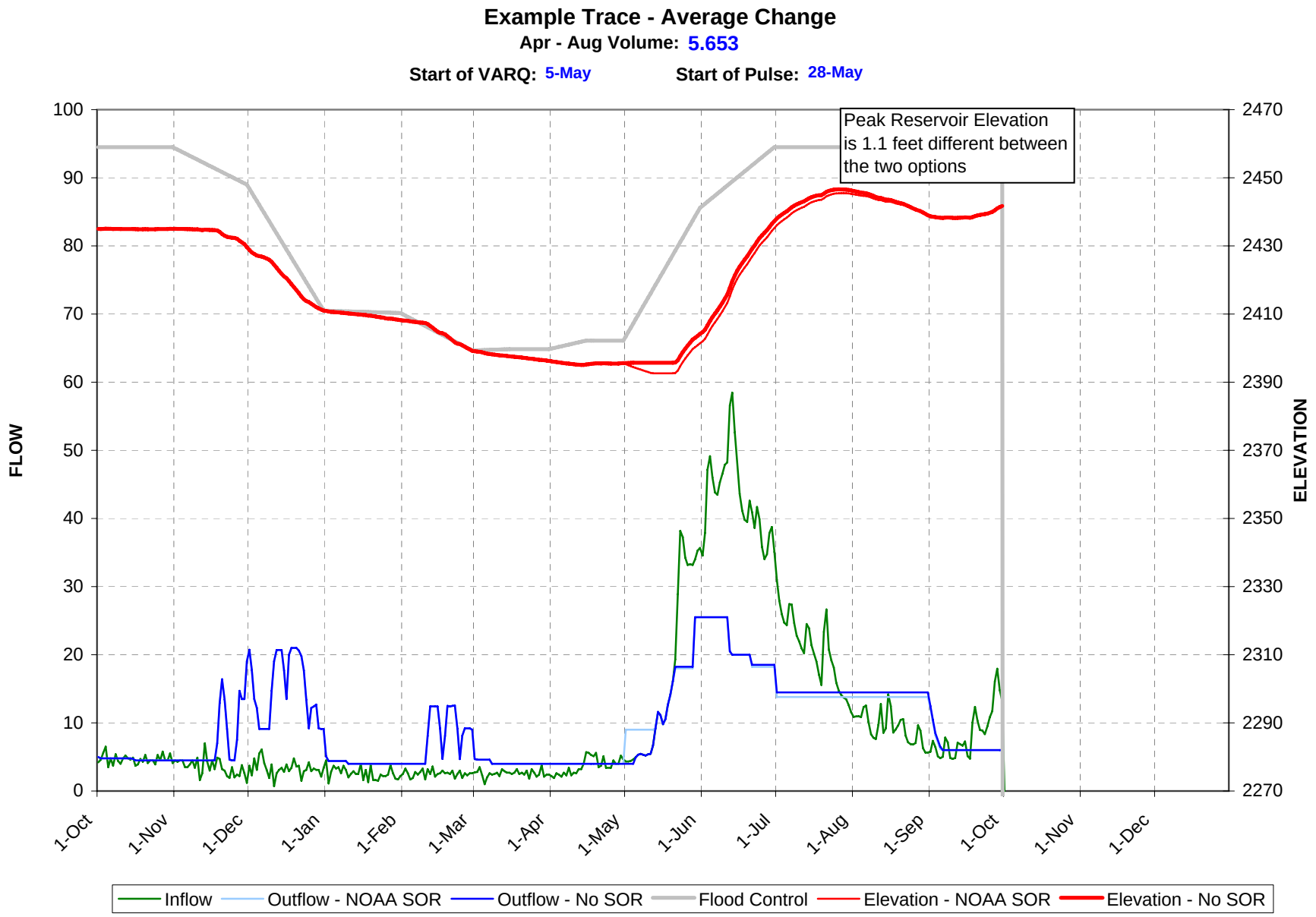
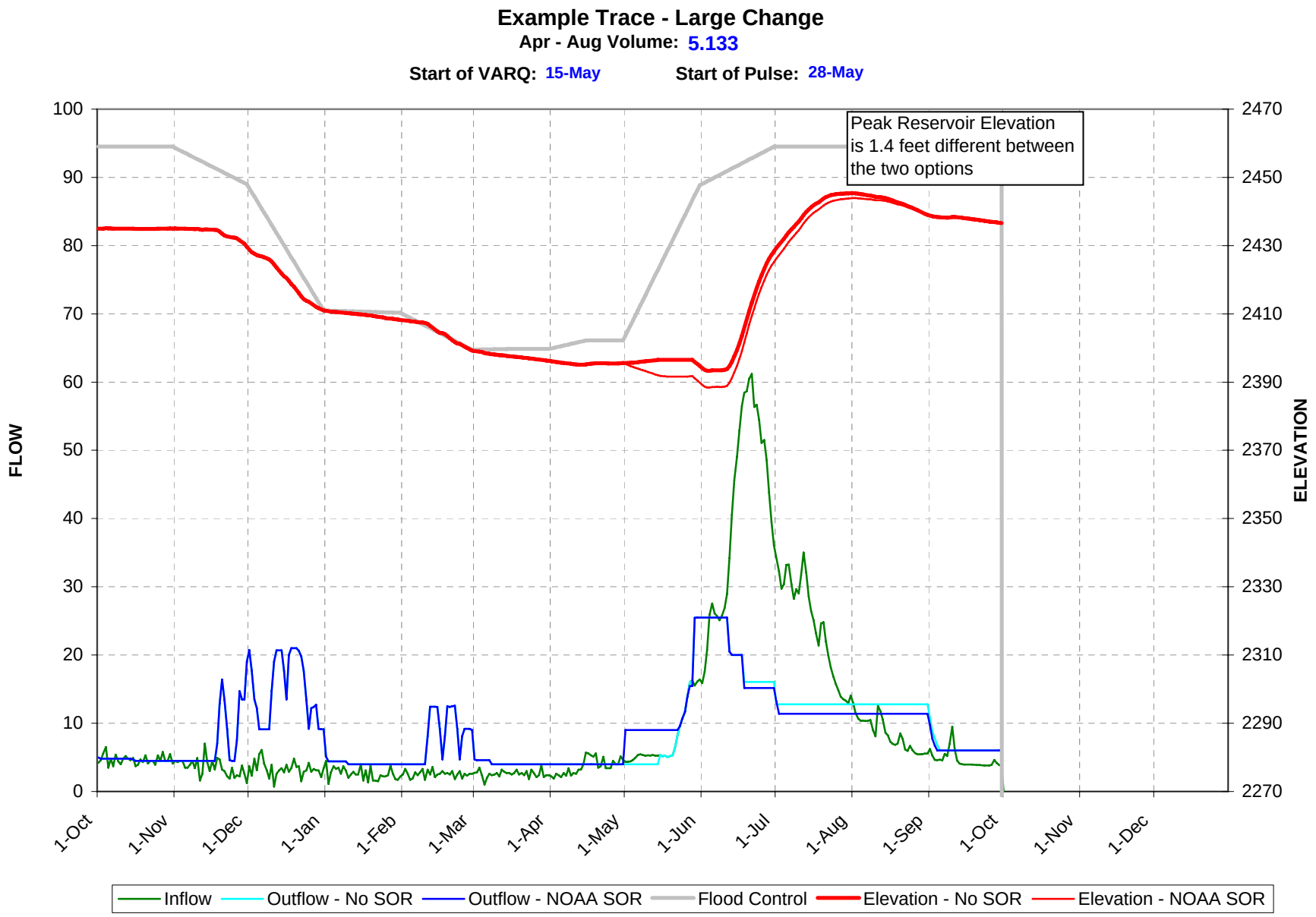
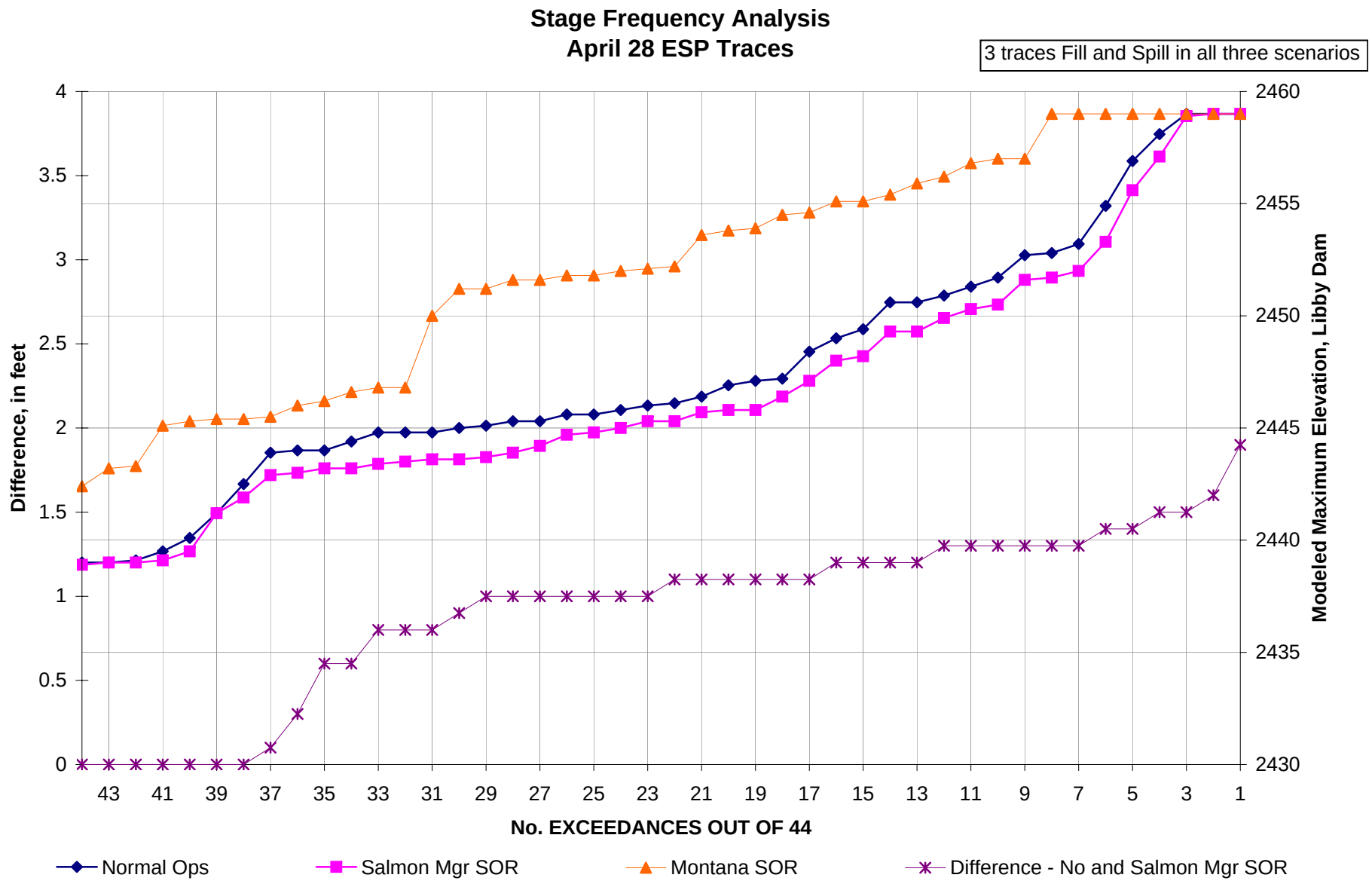

Example Trace - No Change
Apr - Aug Volume: 6.746
Start of VARQ: 1-May
Start of Pulse: 28-May
No Change in peak reservoir elevation
Both Years Spill ~4 kcfs
FLOW
ELEVATION
100
90
80
70
60
50
40
30
20
10
0
2470
2450
2430
2410
2390
2370
2350
2330
2310
2290
2270
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
Inflow
Outflow - NOAA SOR
Outflow - No SOR
Flood Control
Elevation - No SOR
Elevation - NOAA SOR


Example Trace - Average Change
Apr - Aug Volume: 5.653
Start of VARQ: 5-May
Start of Pulse: 28-May
Peak Reservoir Elevation is 1.1 feet different between the two options
FLOW
ELEVATION
100
90
80
70
60
50
40
30
20
10
0
2470
2450
2430
2410
2390
2370
2350
2330
2310
2290
2270
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
Inflow
Outflow - NOAA SOR
Outflow - No SOR
Flood Control
Elevation - NOAA SOR
Elevation - No SOR


Example Trace - Large Change
Apr - Aug Volume: 5.133
Start of VARQ: 15-May
Start of Pulse: 28-May
Peak Reservoir Elevation is 1.4 feet different between the two options
FLOW
ELEVATION
100
90
80
70
60
50
40
30
20
10
0
2470
2450
2430
2410
2390
2370
2350
2330
2310
2290
2270
1-Oct
1-Nov
1-Dec
1-Jan
1-Feb
1-Mar
1-Apr
1-May
1-Jun
1-Jul
1-Aug
1-Sep
1-Oct
1-Nov
1-Dec
Inflow
Outflow - No SOR
Outflow - NOAA SOR
Flood Control
Elevation - No SOR
Elevation - NOAA SOR


Stage Frequency Analysis
April 28 ESP Traces
3 traces Fill and Spill in all three scenarios
Difference, in feet
Modeled Maximum Elevation, Libby Dam
No. EXCEEDANCES OUT OF 44
0
0.5
1
1.5
2
2.5
3
3.5
4
2430
2435
2440
2445
2450
2455
2460
43
41
39
37
35
33
31
29
27
25
23
21
19
17
15
13
11
9
7
5
3
1
Normal Ops
Salmon Mgr SOR
Montana SOR
Difference - No and Salmon Mgr SOR