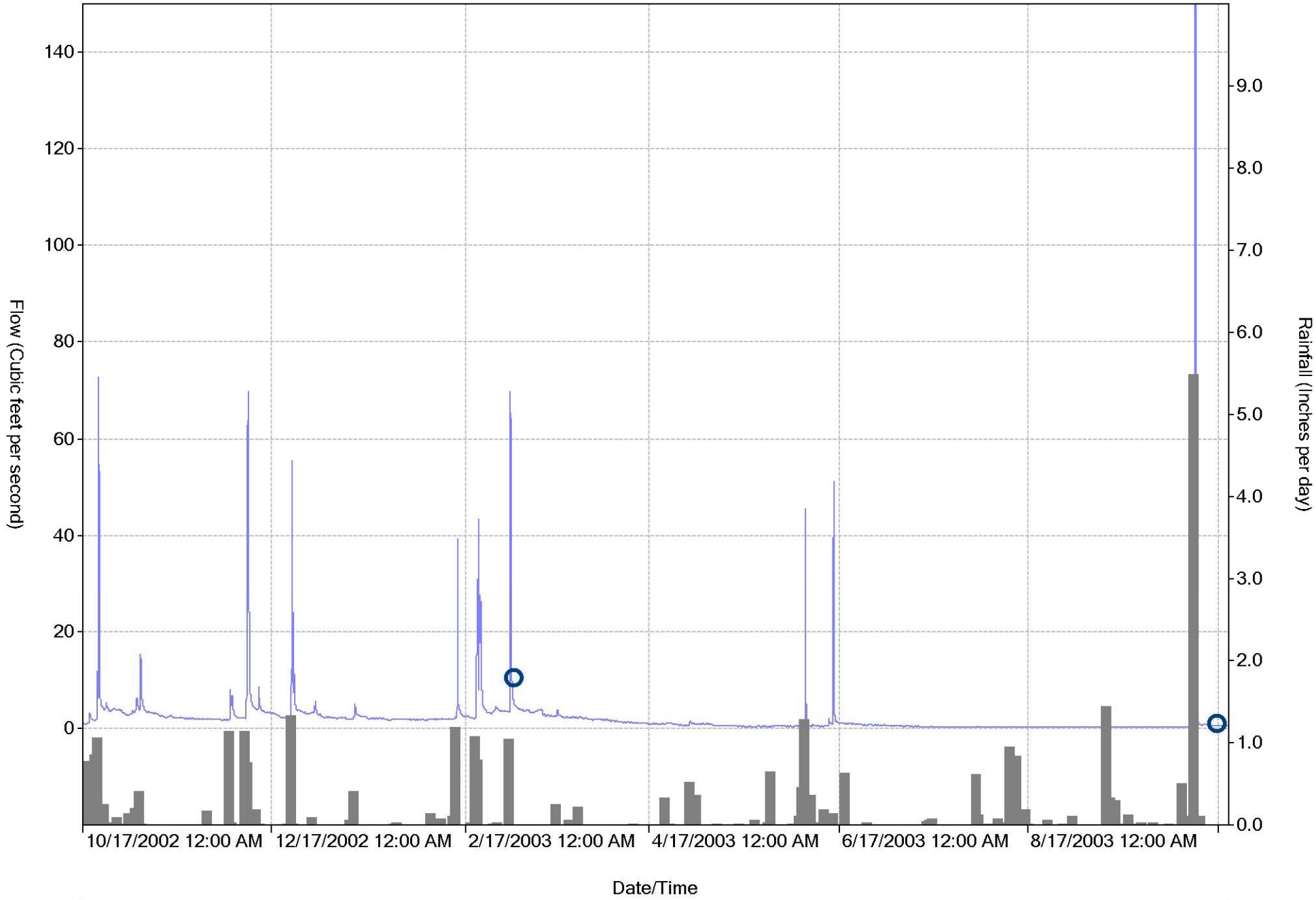
Appendix P

FLOW PLOTS AT LONGITUDINAL MONITORING STATIONS

Flow Plots at Longitudinal Monitoring Stations

2004/02/09 13:41

Station Creek at A&M Property (SC1)
Surface Water Flow data vs Time



Legend:	Stats:		
Surface Water Flow	Min: 0	Max: 719	Avg: 2.0
Manual Flow Survey Measurements	Min: 1	Max: 10	Avg: 5.6
Rainfall	Min: 0.0	Max: 5.5	Avg: 0.09

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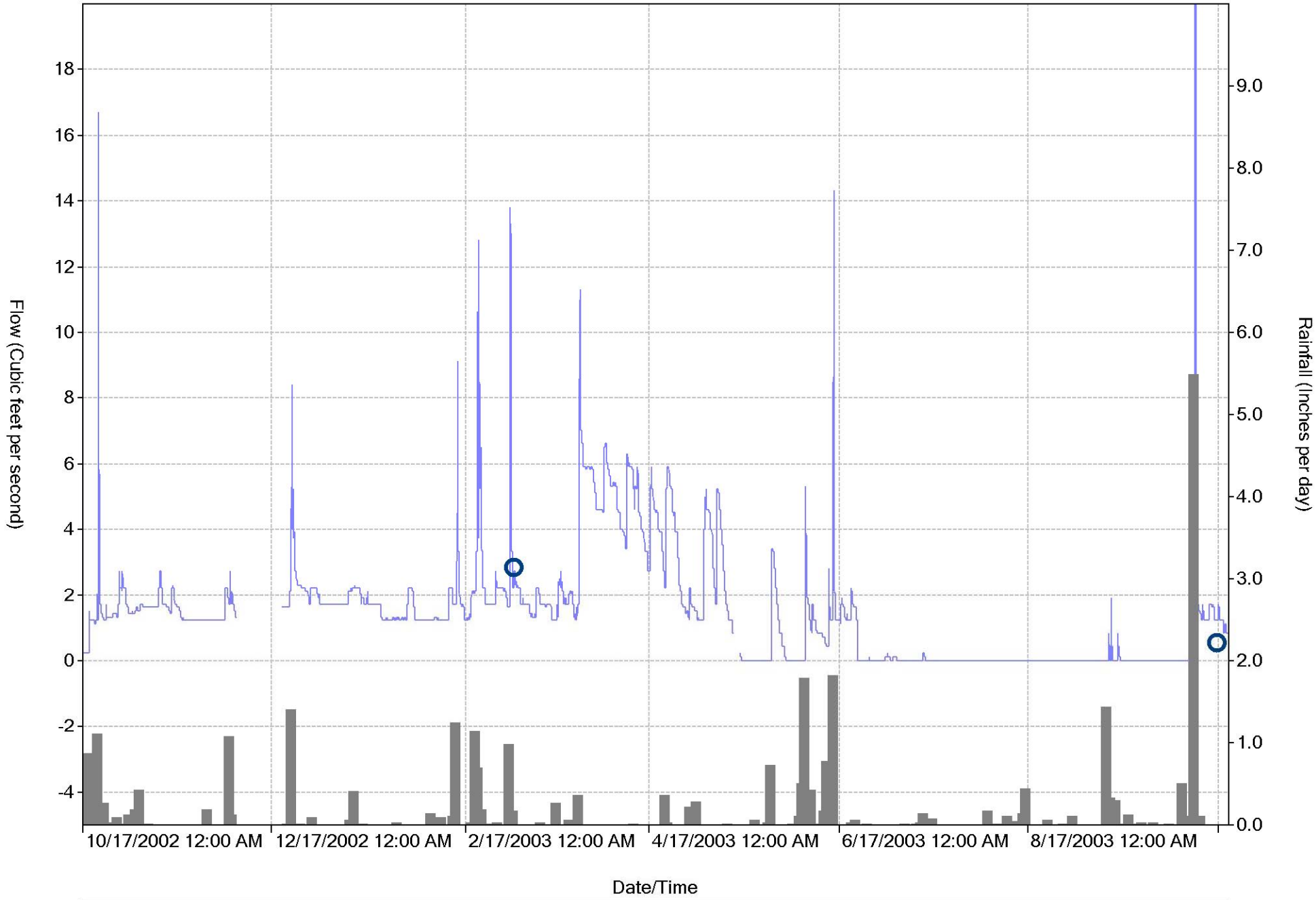
Tributary M at A&M Property (TRM1)
Surface Water Flow data vs Time



Legend:

- Surface Water Flow
- Manual Flow Survey Measurements
- Rainfall

Stats:

Surface Water Flow	Min: 0	Max: 73	Avg: 1.5
Manual Flow Survey Measurements	Min: 1	Max: 3	Avg: 1.7
Rainfall	Min: 0.0	Max: 5.5	Avg: 0.09

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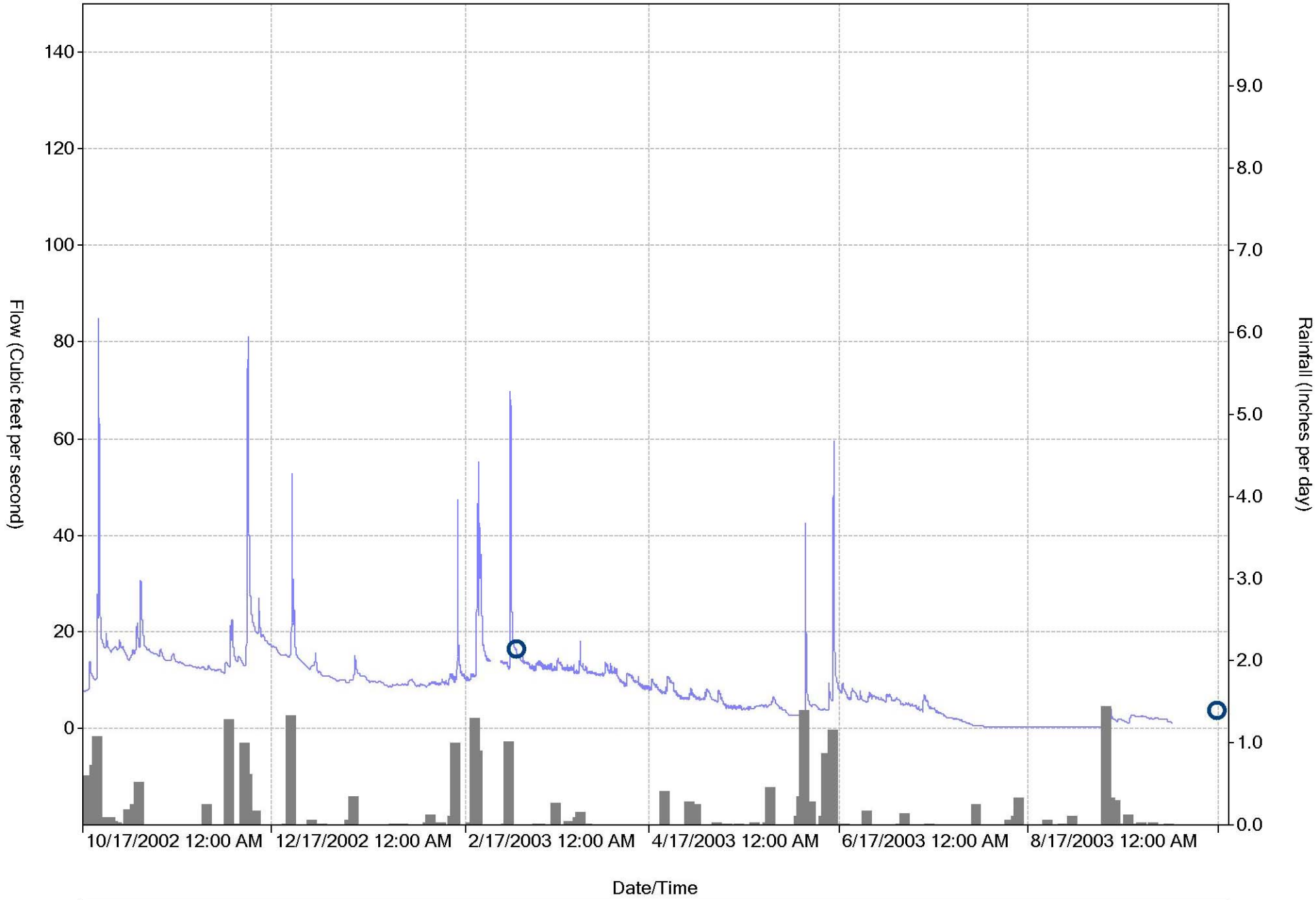
Station Creek at 107 (SC3)
Surface Water Flow data vs Time



Legend:	**Stats:**		
Surface Water Flow	Min: 0	Max: 85	Avg: 8.6
Manual Flow Survey Measurements	Min: 4	Max: 16	Avg: 10.0
Rainfall	Min: 0.0	Max: 1.4	Avg: 0.07

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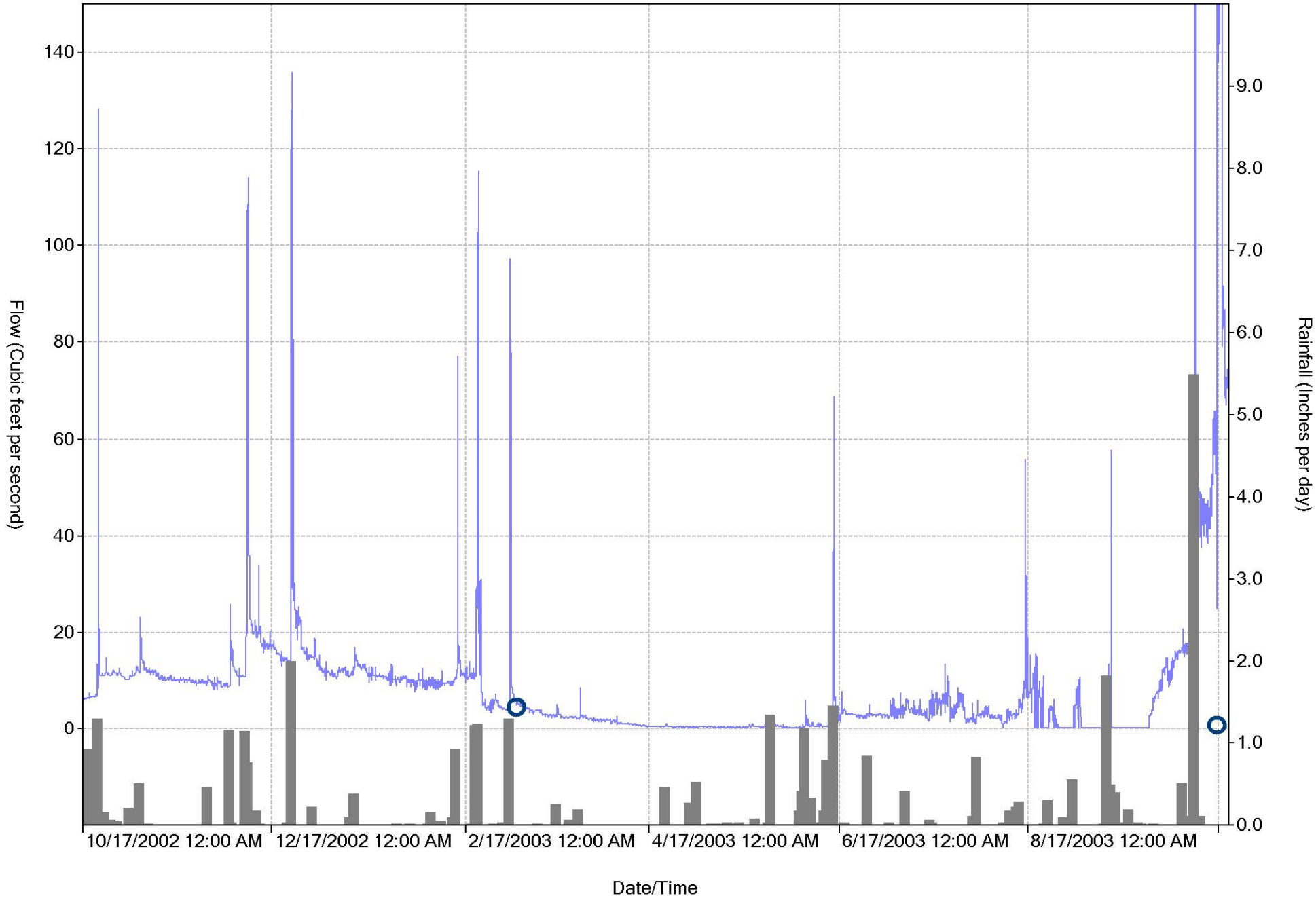
Onion Creek at 107 (OC1)
Surface Water Flow data vs Time



Legend:

- Surface Water Flow
- Manual Flow Survey Measurements
- Rainfall

Stats:

Surface Water Flow	Min: 0	Max: 388	Avg: 8.6
Manual Flow Survey Measurements	Min: 1	Max: 4	Avg: 2.5
Rainfall	Min: 0.0	Max: 5.5	Avg: 0.10

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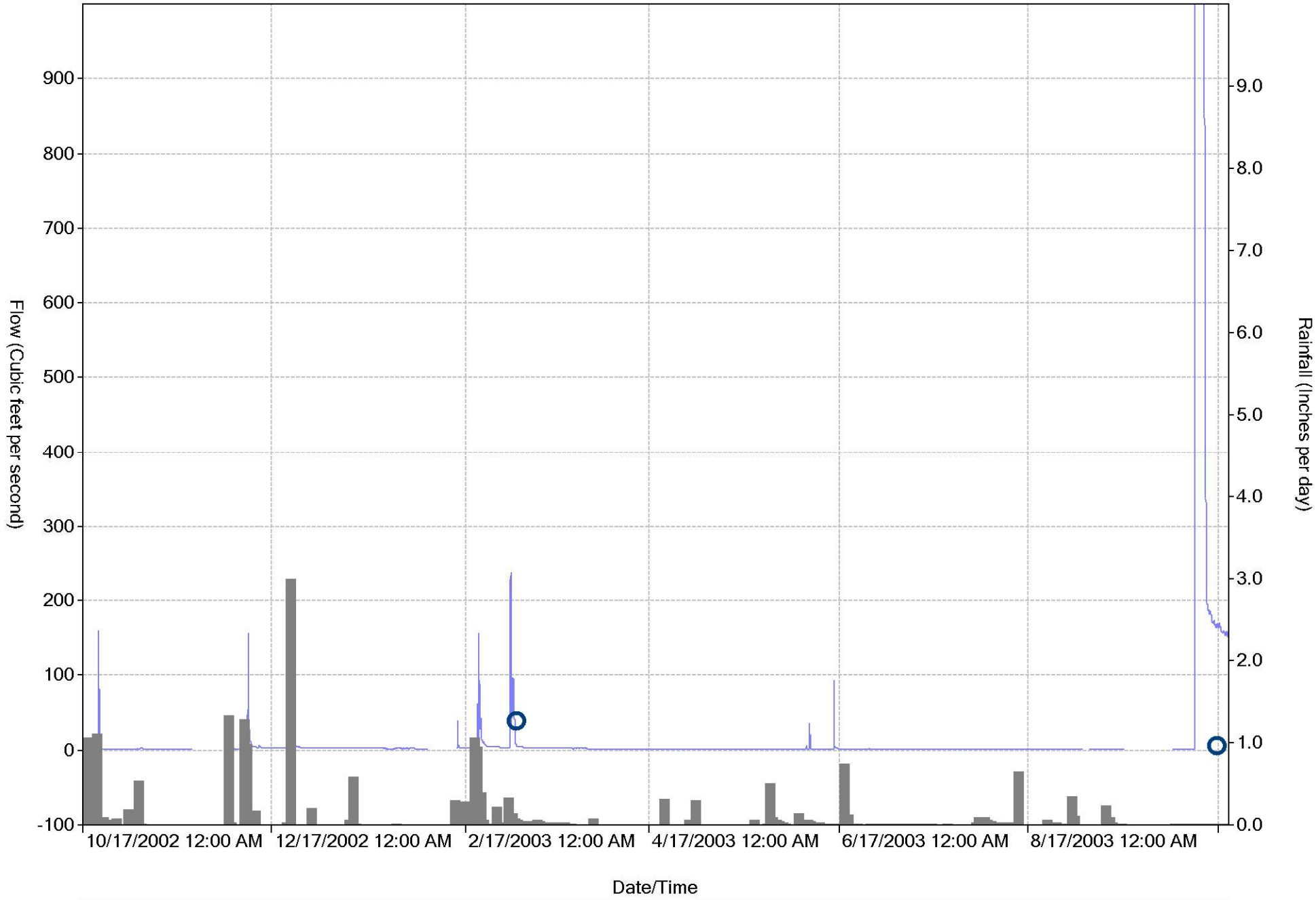
Station Creek at Ogelsby Neff Park Road (SC5)
Surface Water Flow data vs Time



Legend:	Stats:		
Surface Water Flow	Min: 0	Max: 5976	Avg: 44.1
Manual Flow Survey Measurements	Min: 6	Max: 38	Avg: 22.0
Rainfall	Min: 0.0	Max: 3.0	Avg: 0.06

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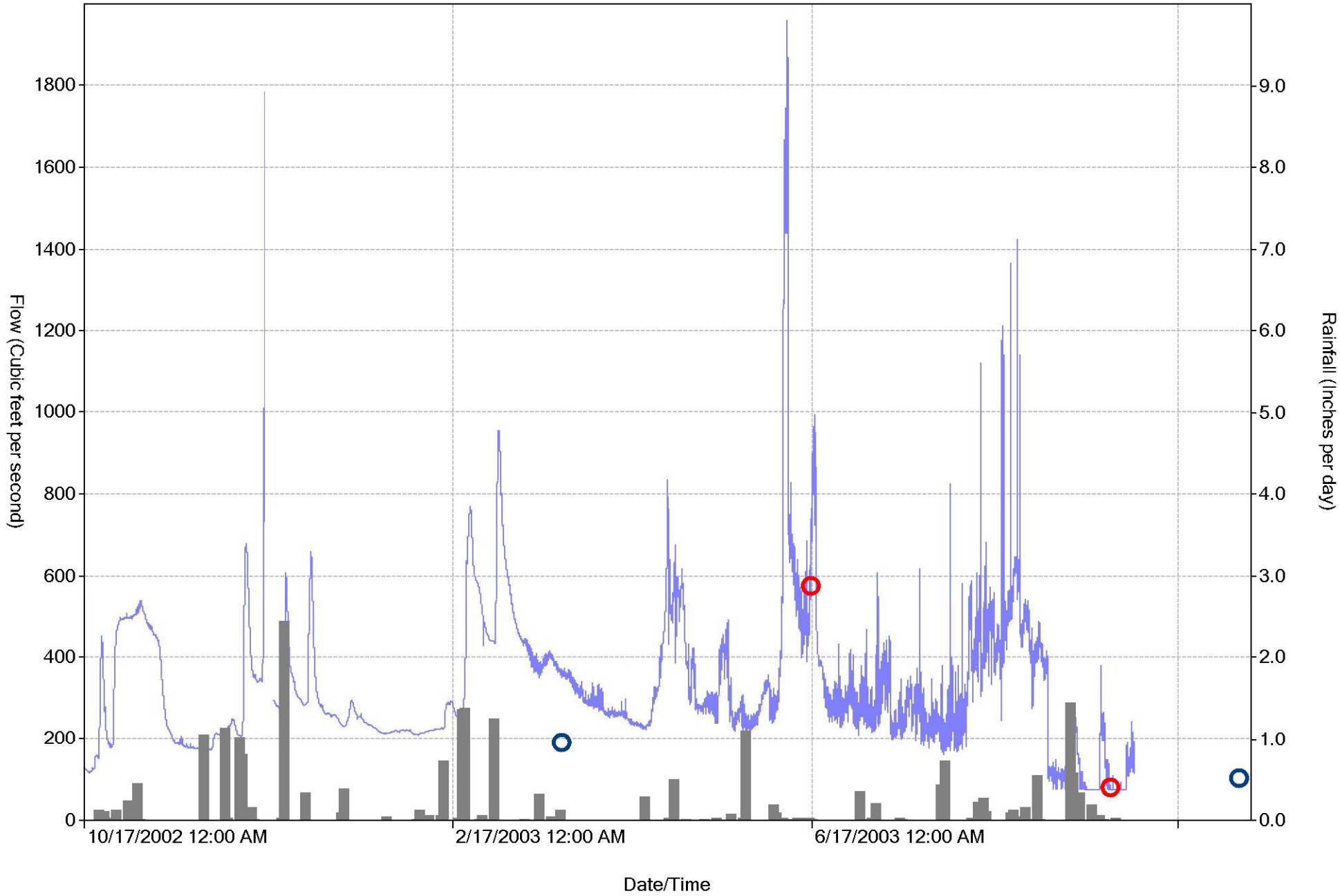
Leon River at 236 (LR1)
Surface Water Flow data vs Time



Legend:

	Stats:		
Surface Water Flow	Min: 72	Max: 1960	Avg: 325.1
Manual Flow Survey Measurements	Min: 102	Max: 189	Avg: 145.8
Rainfall	Min: 0.0	Max: 2.4	Avg: 0.06
ADCP Flow Survey Measurements (6 miles downstream of station along the Leon River)	Min: 79	Max: 576	Avg: 327.1

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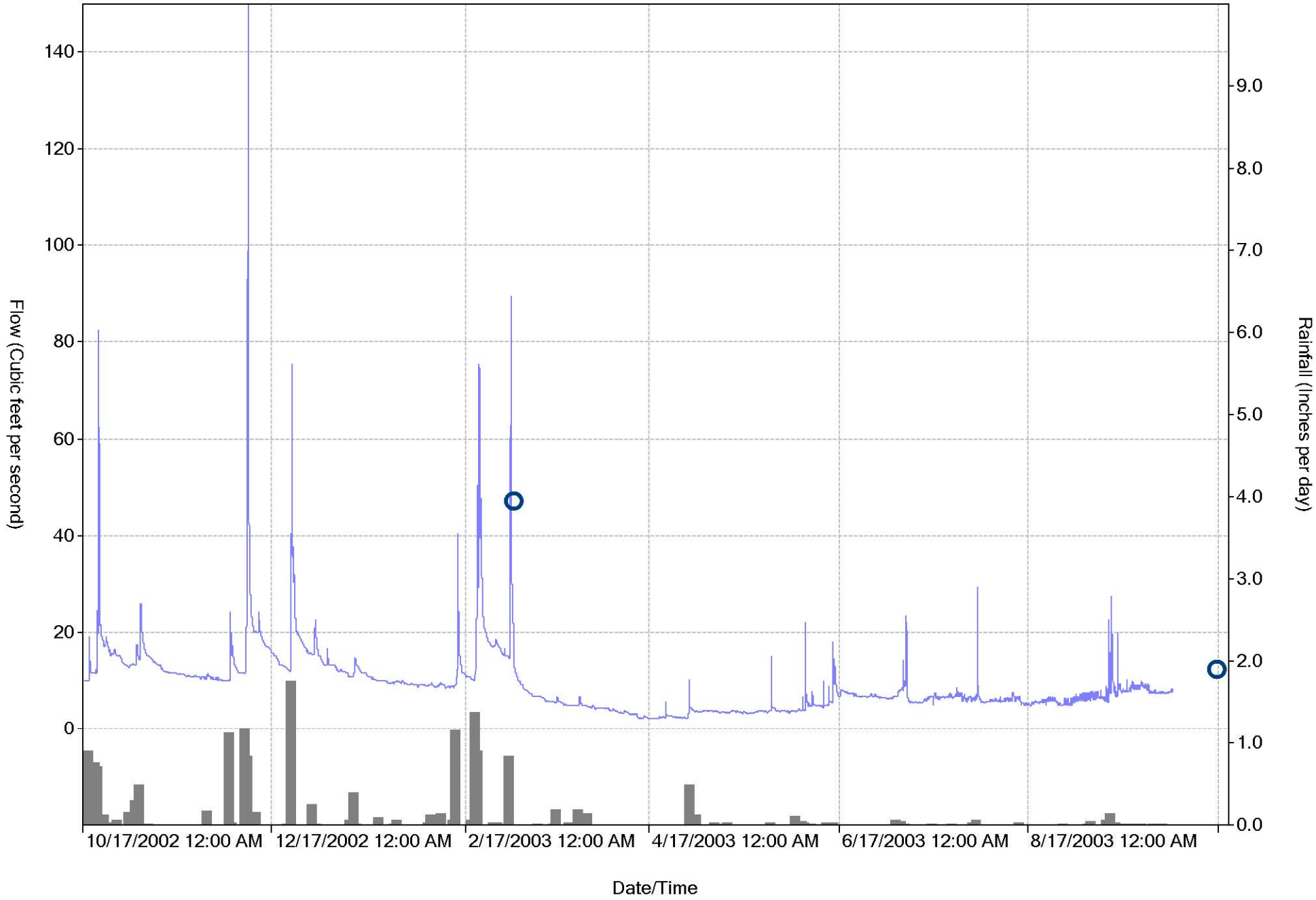
Harris Creek at Middle Windsor Road (HC1)
Surface Water Flow data vs Time



Legend:

- Surface Water Flow
- Manual Flow Survey Measurements
- Rainfall

Stats:

Surface Water Flow	Min: 2	Max: 158	Avg: 8.9
Manual Flow Survey Measurements	Min: 12	Max: 47	Avg: 29.7
Rainfall	Min: 0.0	Max: 1.8	Avg: 0.05

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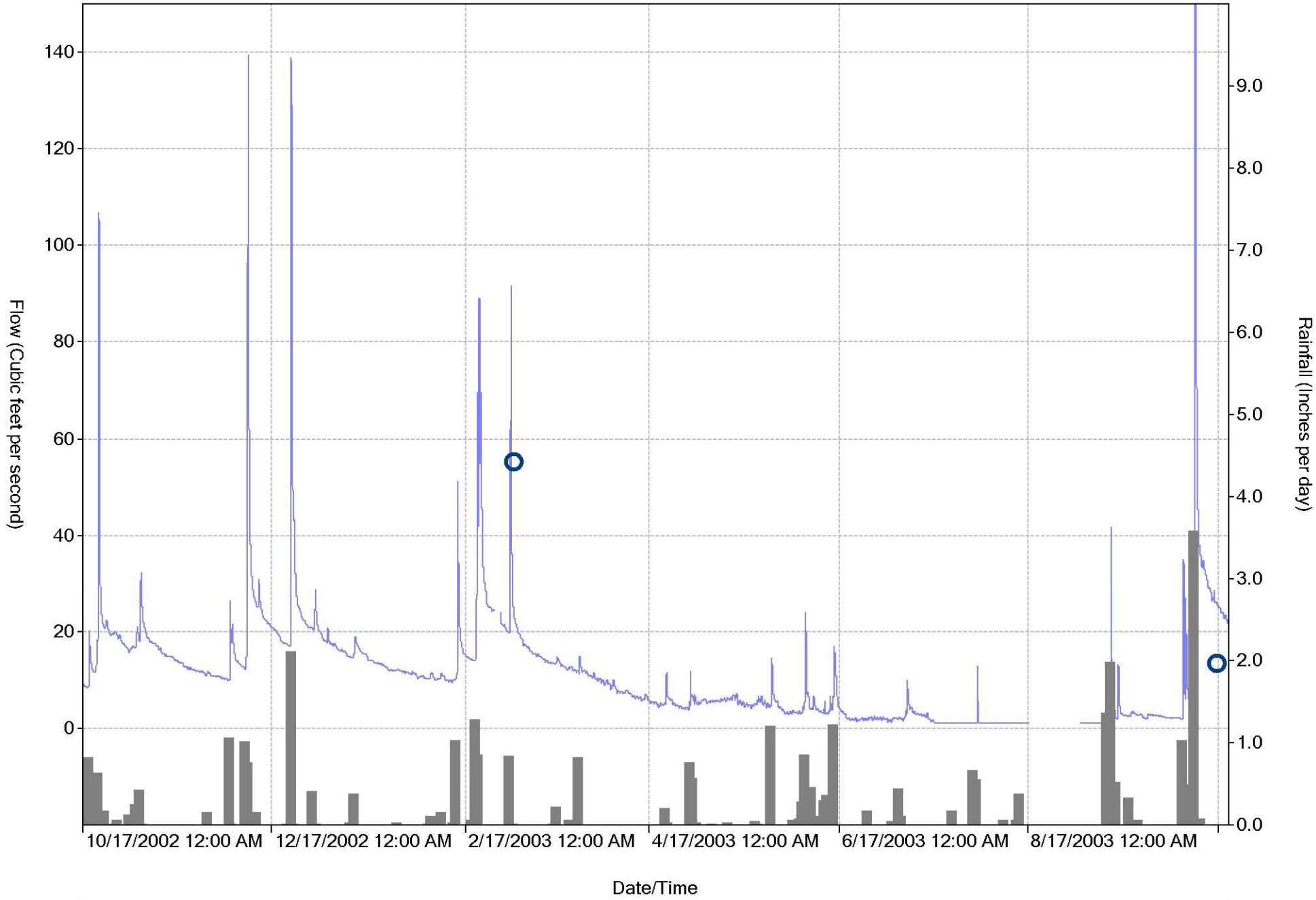
Harris Creek near Val Verde Road (HC2)
Surface Water Flow data vs Time



Legend:

- Surface Water Flow
- Manual Flow Survey Measurements
- Rainfall

Stats:

Surface Water Flow	Min: 1	Max: 1173	Avg: 11.5
Manual Flow Survey Measurements	Min: 13	Max: 55	Avg: 34.2
Rainfall	Min: 0.0	Max: 3.6	Avg: 0.09

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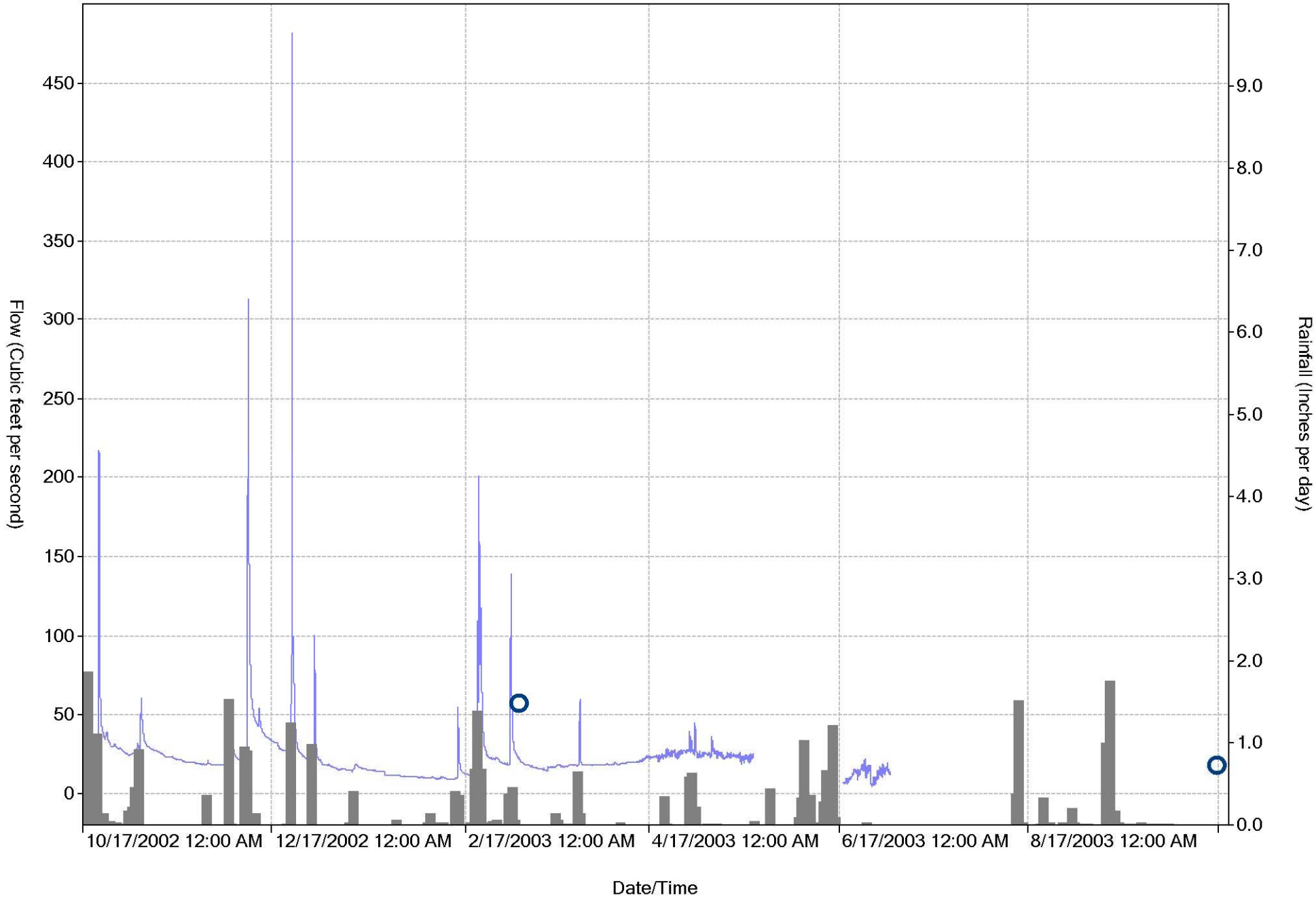
South Bosque River at Church Road (SBR3)
Surface Water Flow data vs Time



Legend:	Stats:		
Surface Water Flow	Min: 4	Max: 482	Avg: 22.6
Manual Flow Survey Measurements	Min: 17	Max: 58	Avg: 37.5
Rainfall	Min: 0.0	Max: 1.9	Avg: 0.10

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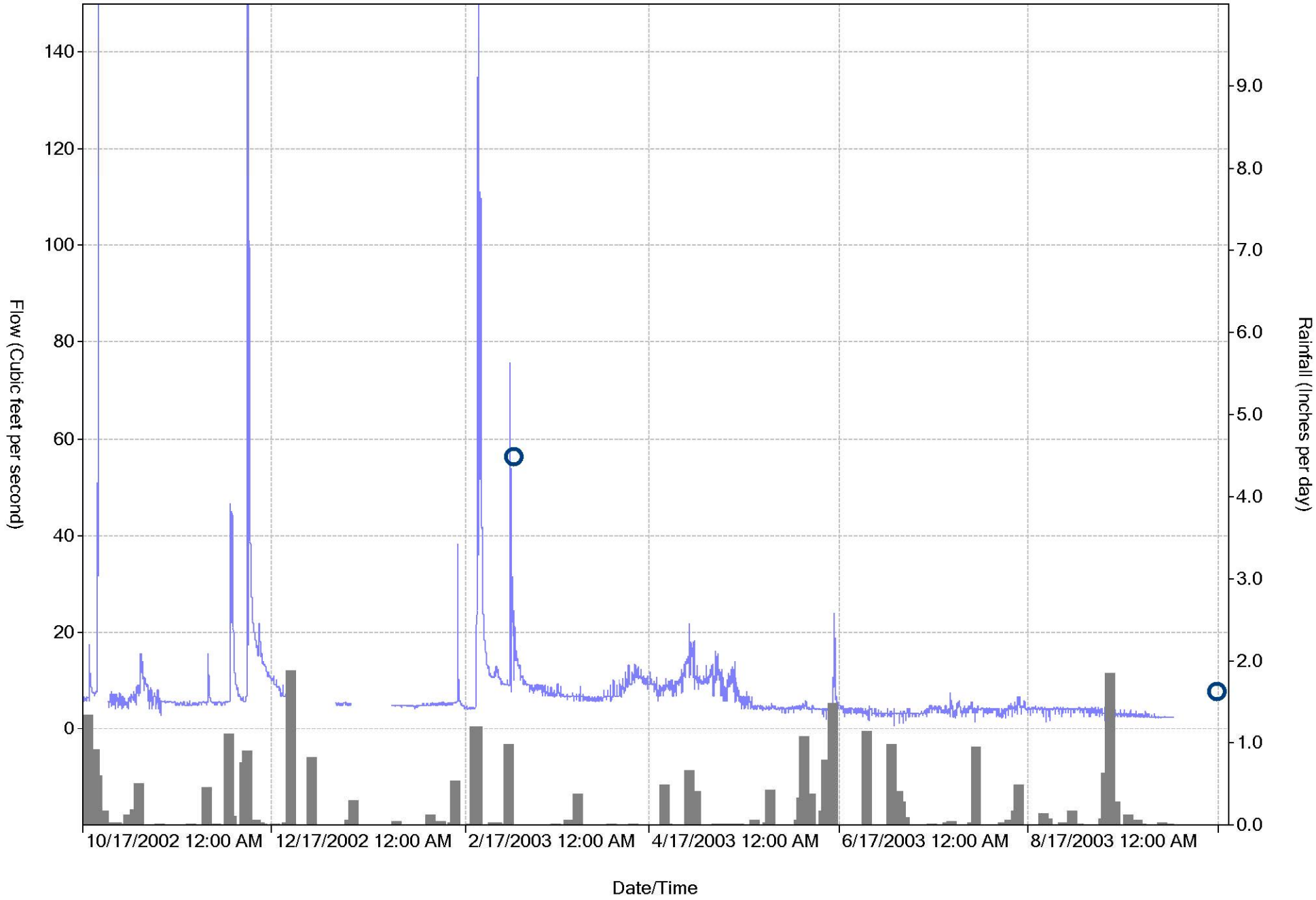
South Bosque River at Indian Trail (SBR1)
Surface Water Flow data vs Time



Legend:

	Stats:		
Surface Water Flow	Min: 1	Max: 827	Avg: 7.0
Manual Flow Survey Measurements	Min: 8	Max: 56	Avg: 32.0
Rainfall	Min: 0.0	Max: 1.9	Avg: 0.08

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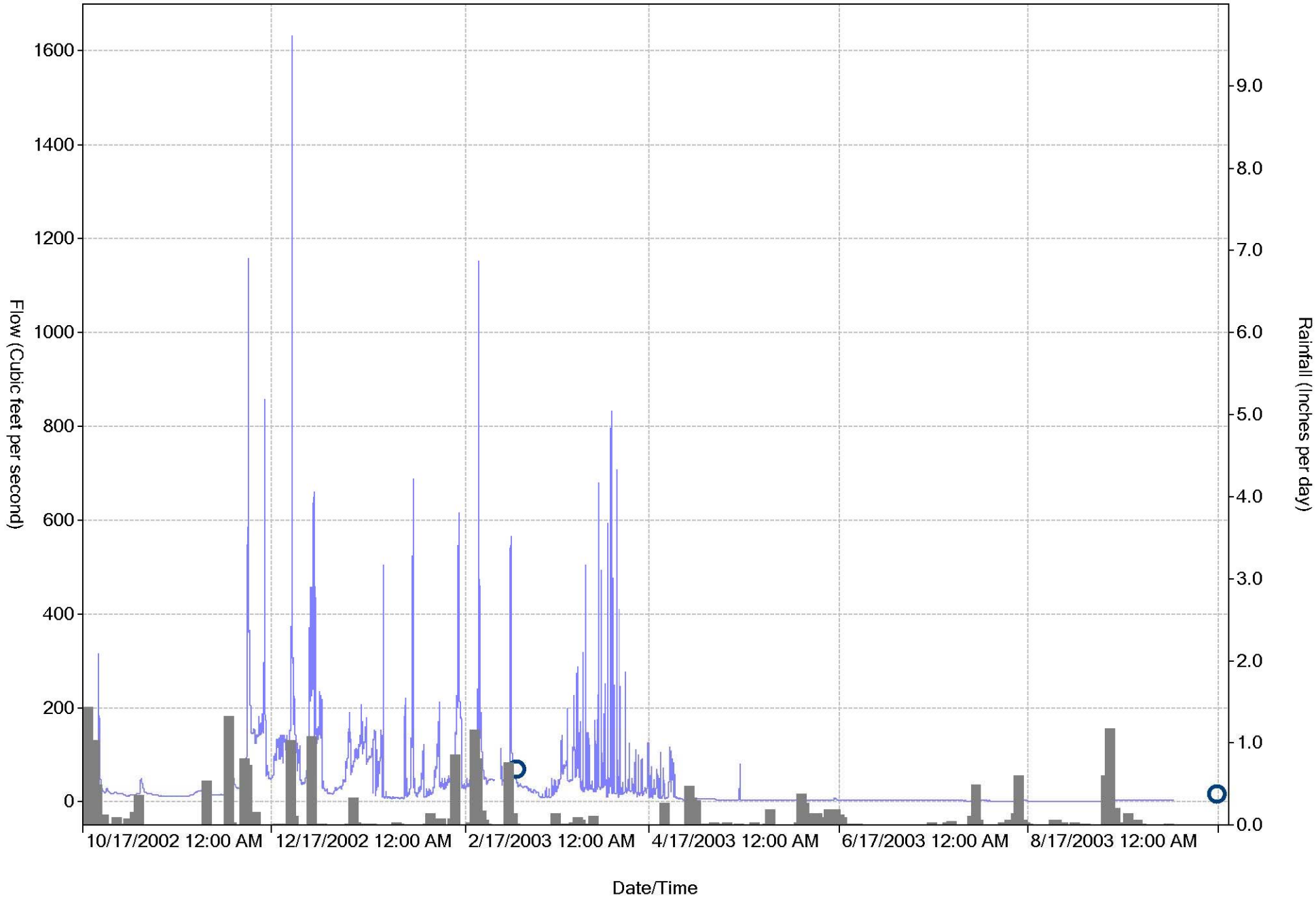
South Bosque River near Cotton Belt Parkway (SBR2)
Surface Water Flow data vs Time



Legend:	Stats:		
Surface Water Flow	Min: 0	Max: 1632	Avg: 33.8
Manual Flow Survey Measurements	Min: 14	Max: 67	Avg: 40.7
Rainfall	Min: 0.0	Max: 1.4	Avg: 0.06

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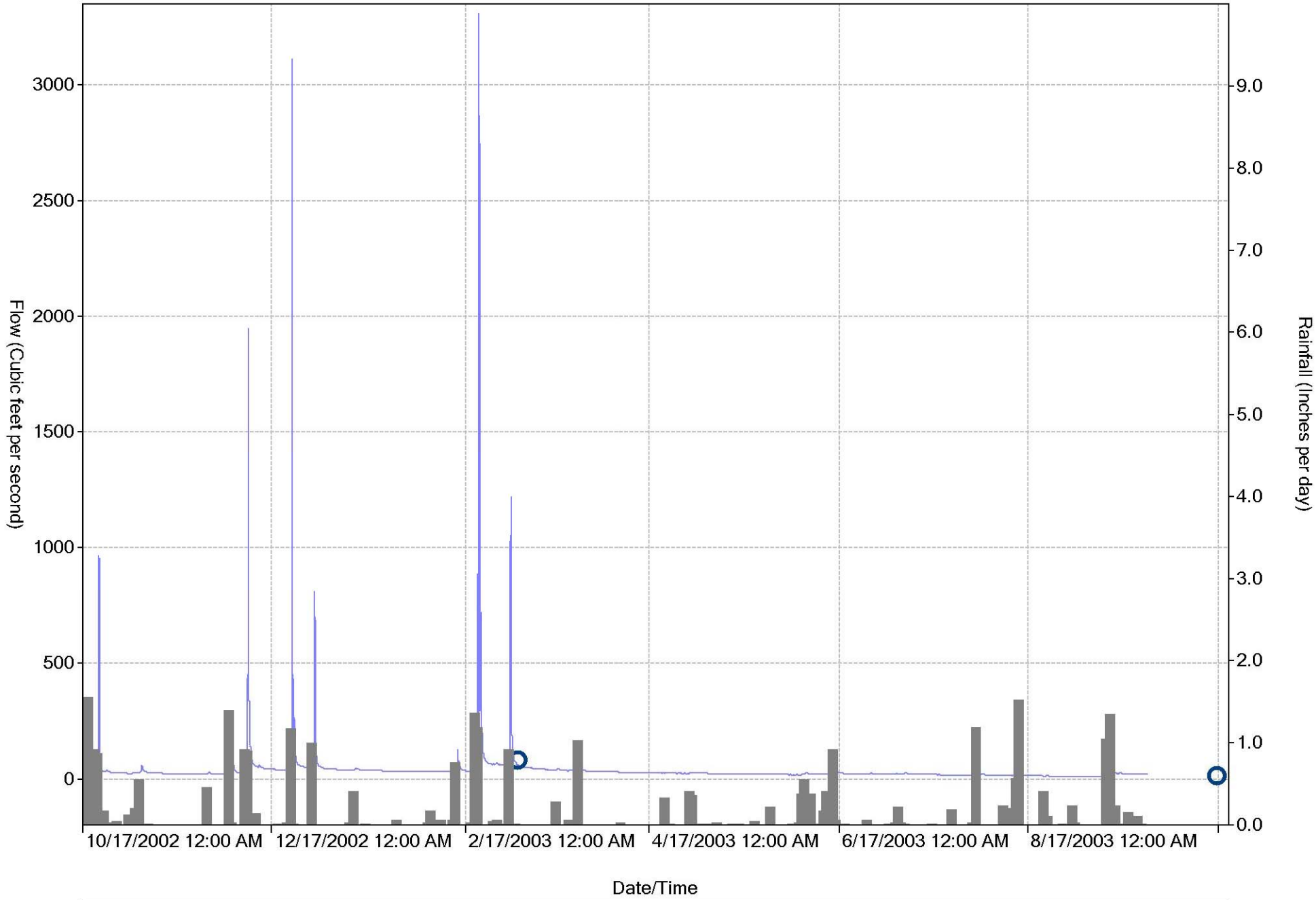
South Bosque River near Ruff Road (SBR4)
Surface Water Flow data vs Time

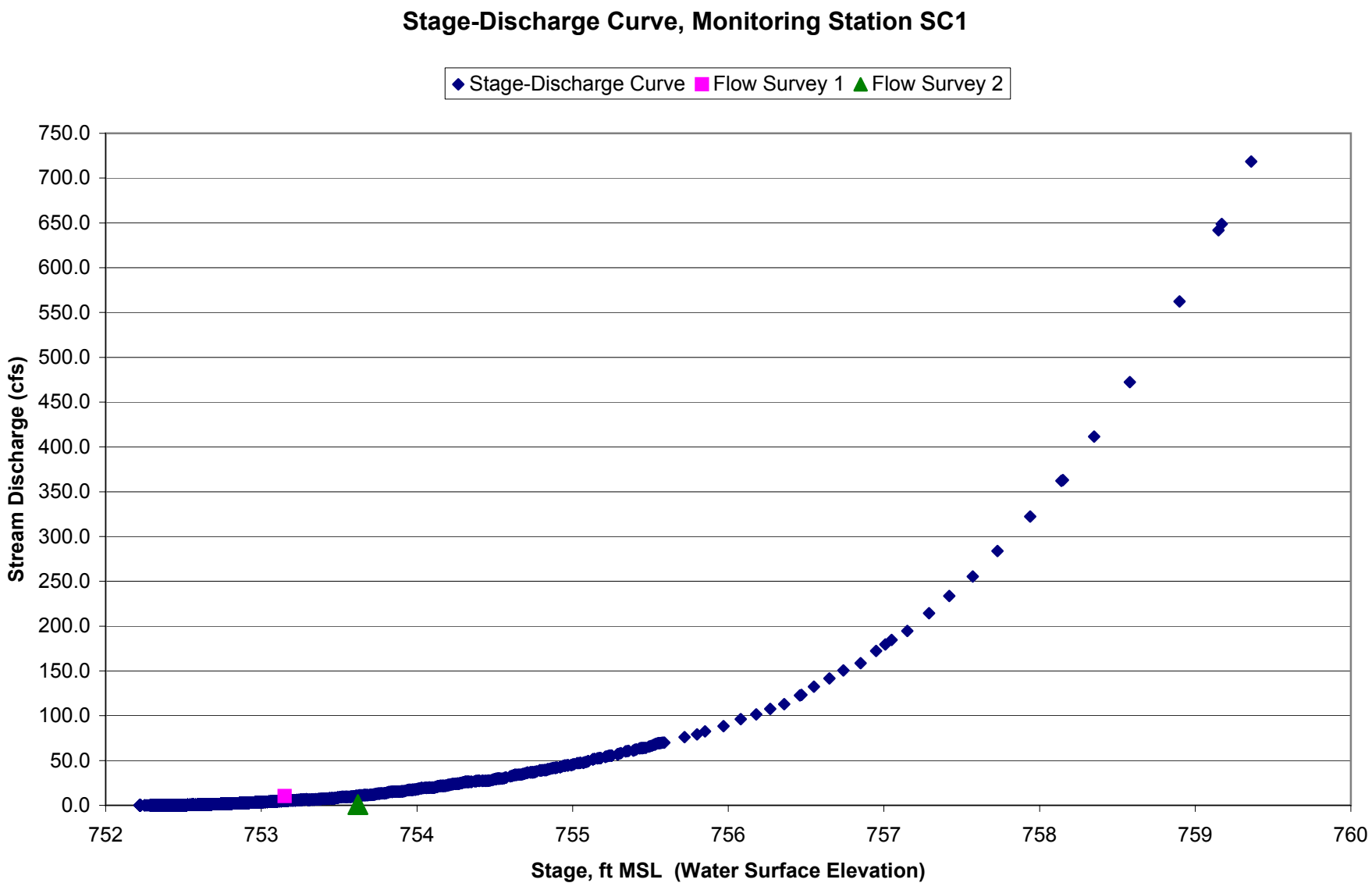


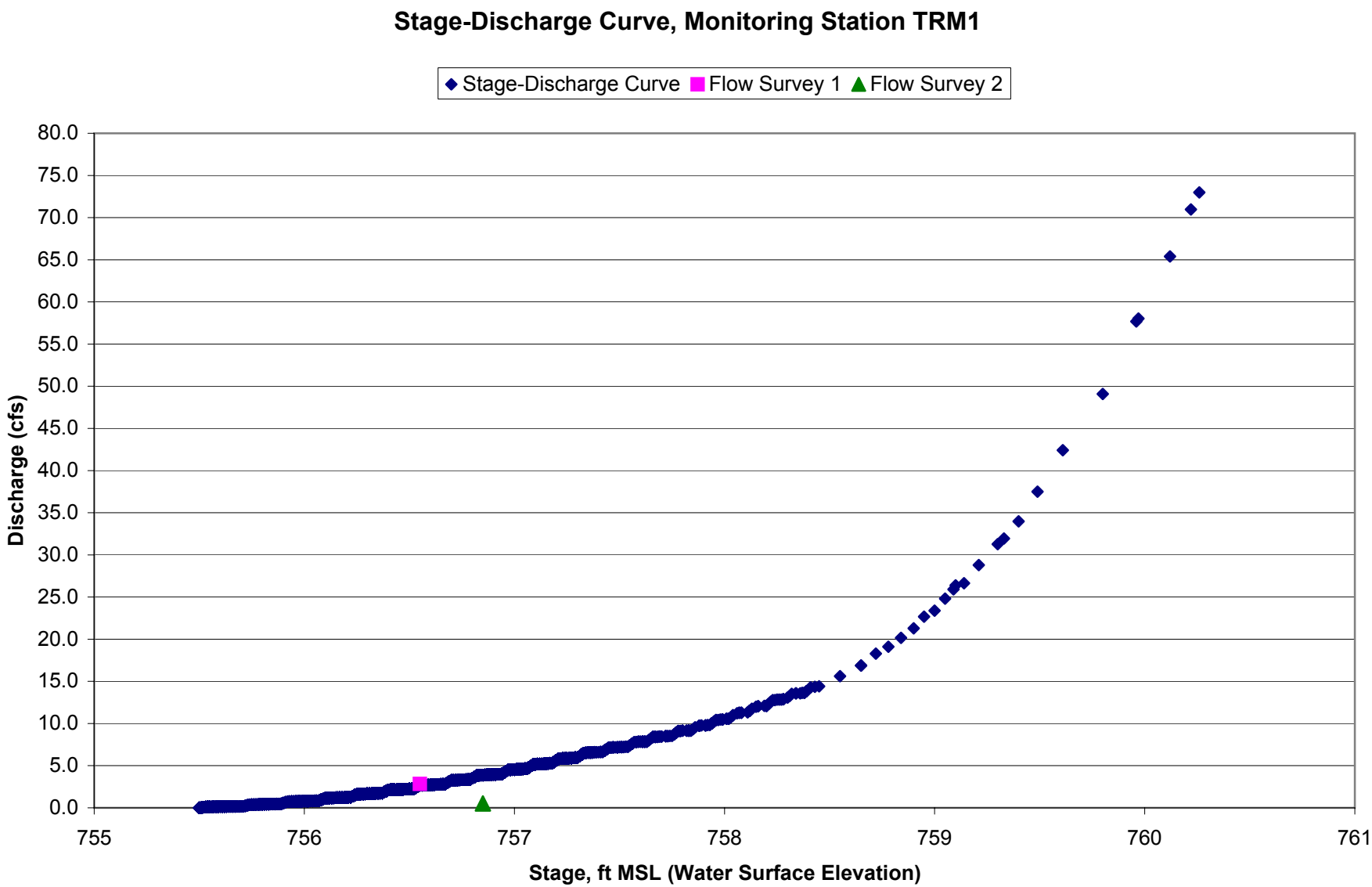
Legend:
- Surface Water Flow
- Manual Flow Survey Measurements
- Rainfall

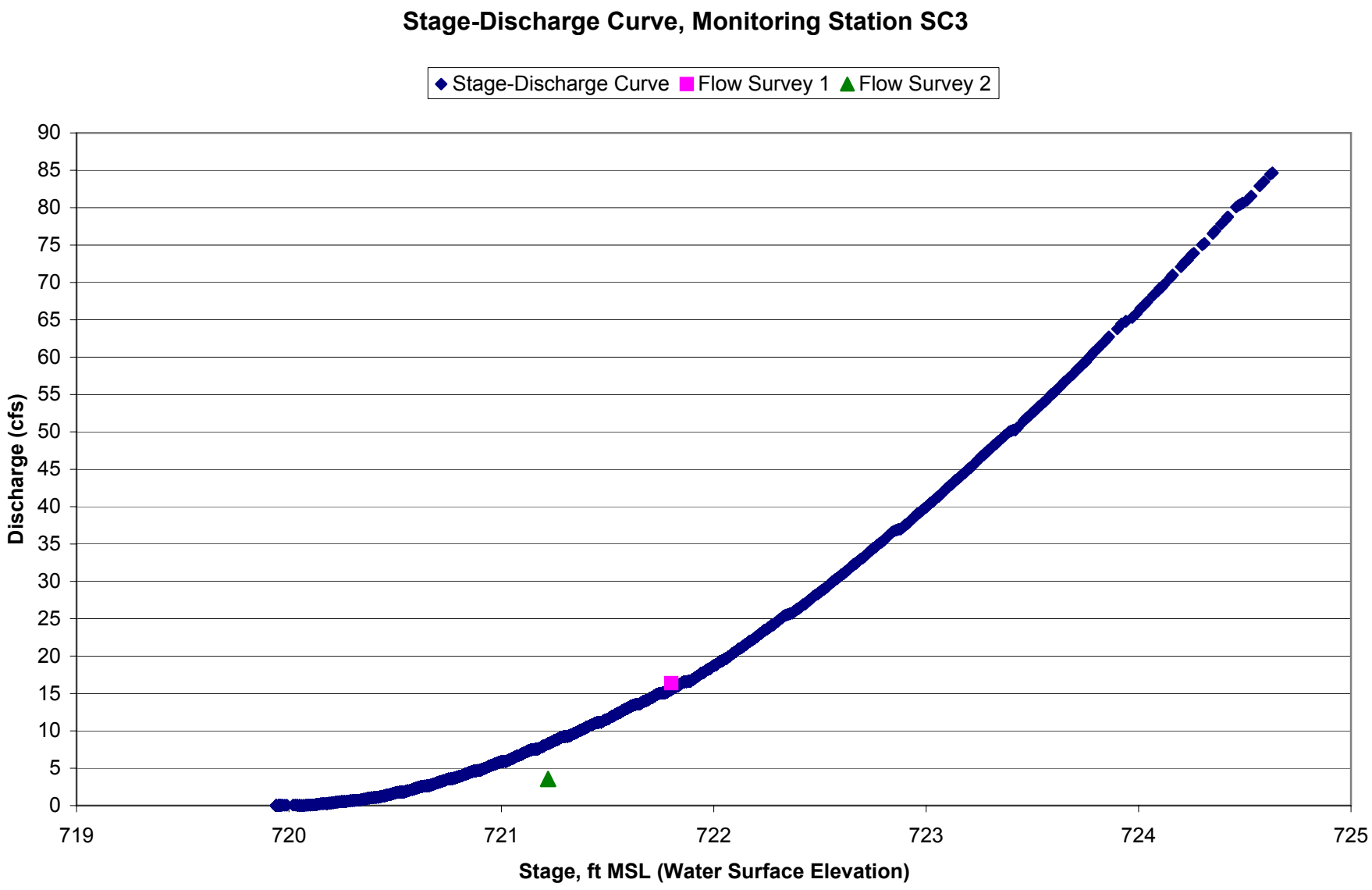
Stats:

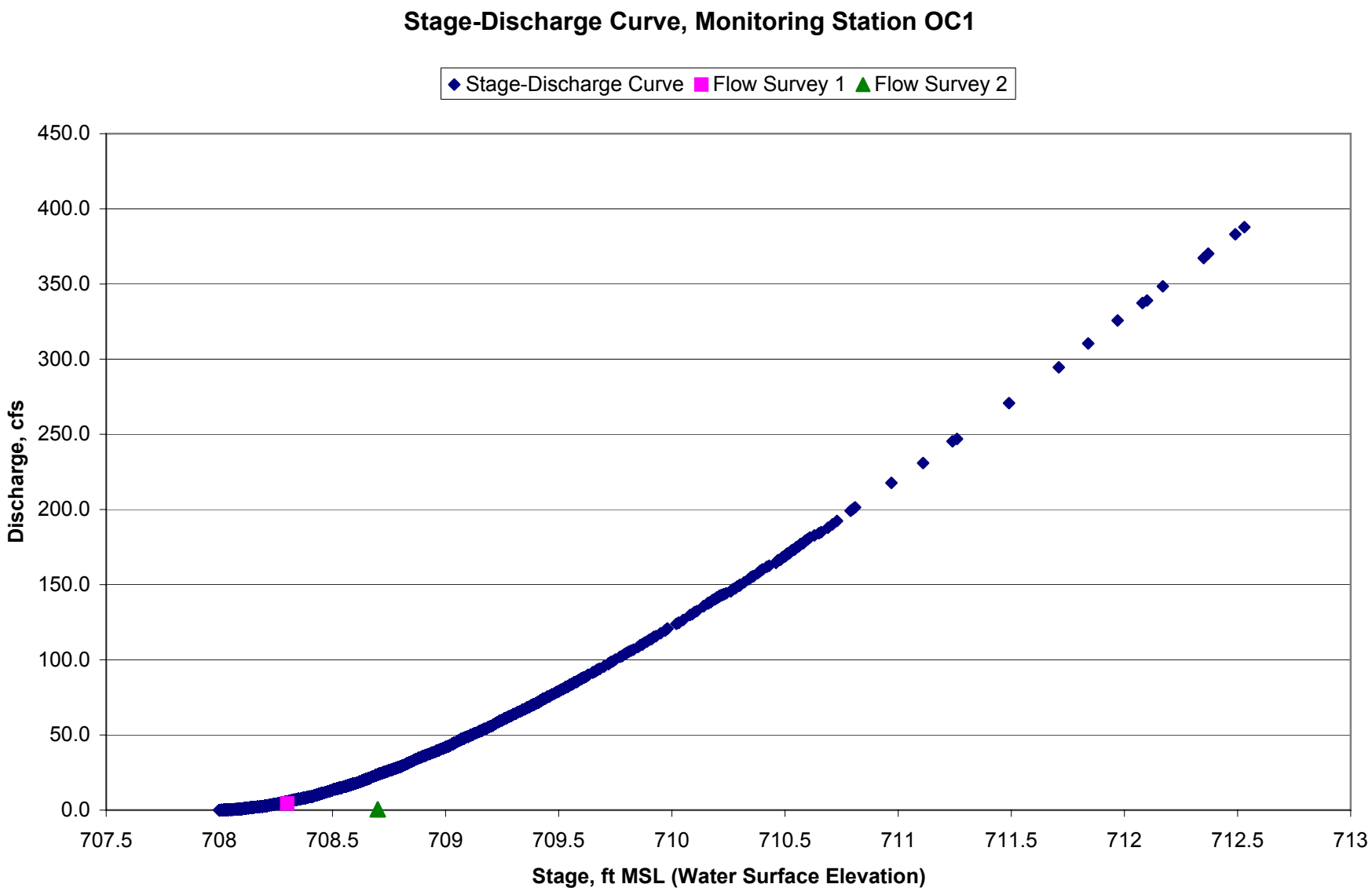
Surface Water Flow	Min: 5	Max: 3308	Avg: 33.8
Manual Flow Survey Measurements	Min: 11	Max: 80	Avg: 45.2
Rainfall	Min: 0.0	Max: 1.5	Avg: 0.09

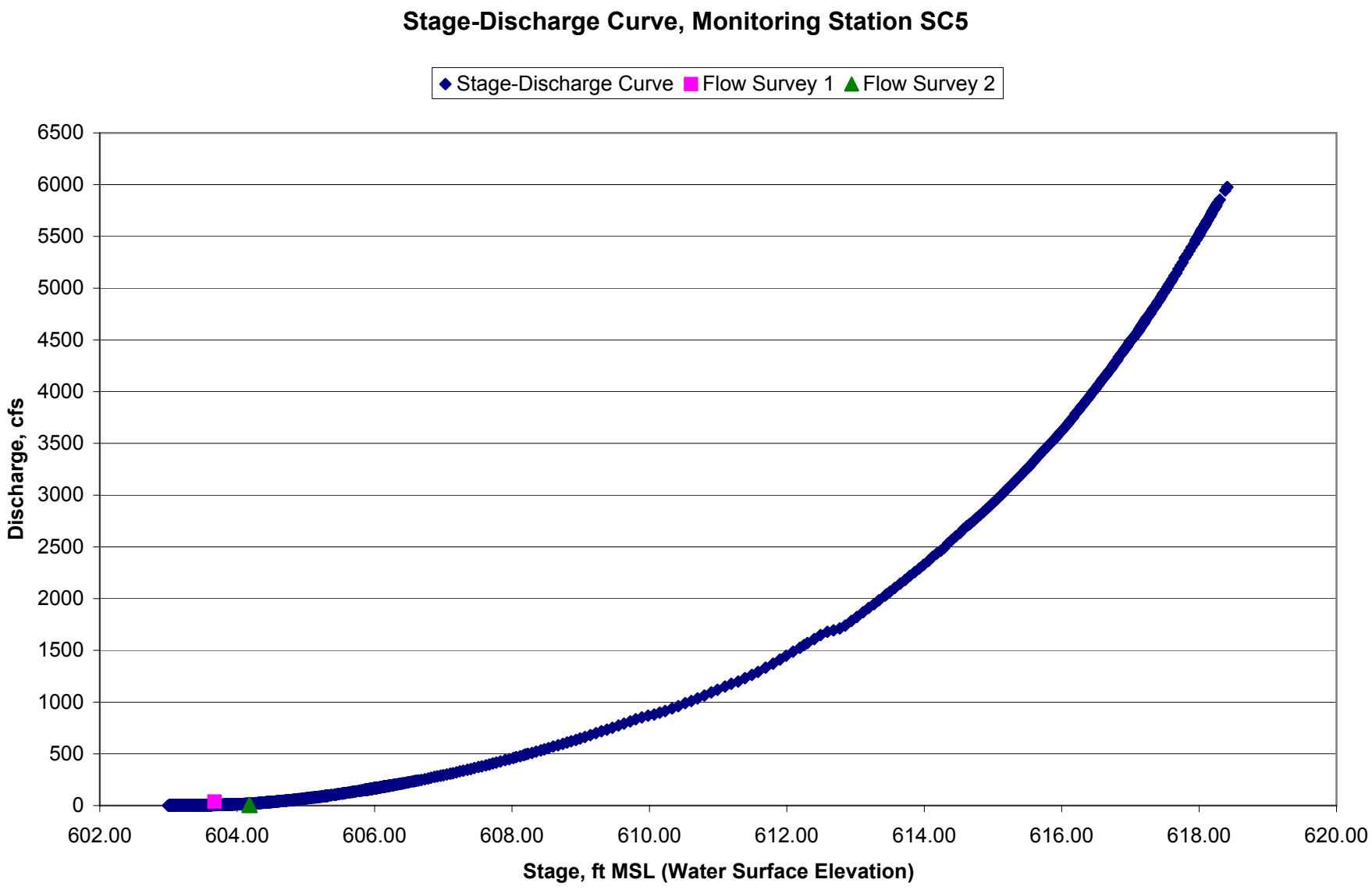
Stage-Discharge Curves at Longitudinal Monitoring Stations

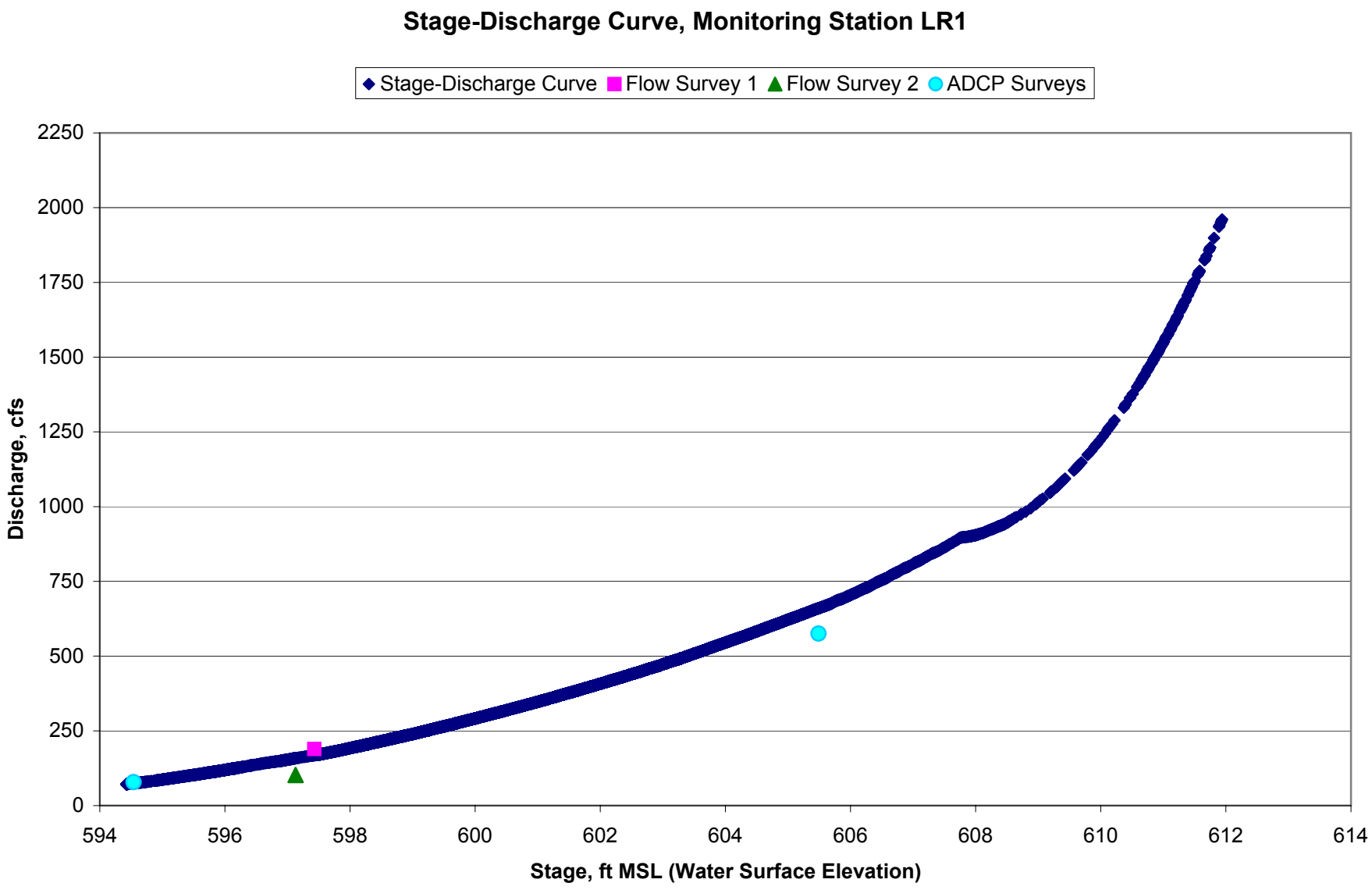

Stage-Discharge Curve, Monitoring Station SC1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Stream Discharge (cfs)
750.0
700.0
650.0
600.0
550.0
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
752
753
754
755
756
757
758
759
760
Stage, ft MSL (Water Surface Elevation)

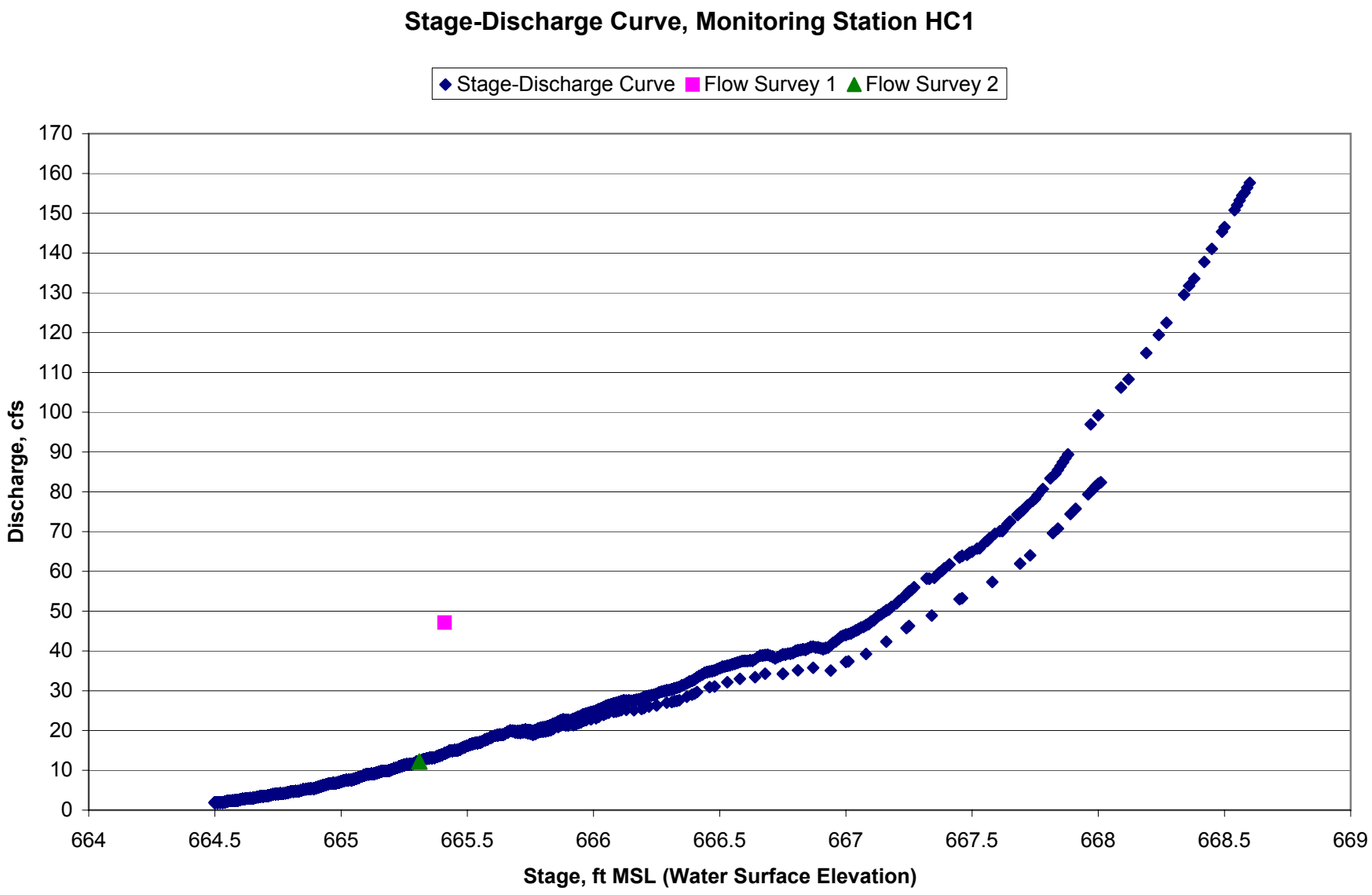

Stage-Discharge Curve, Monitoring Station TRM1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge (cfs)
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
755
756
757
758
759
760
761
Stage, ft MSL (Water Surface Elevation)

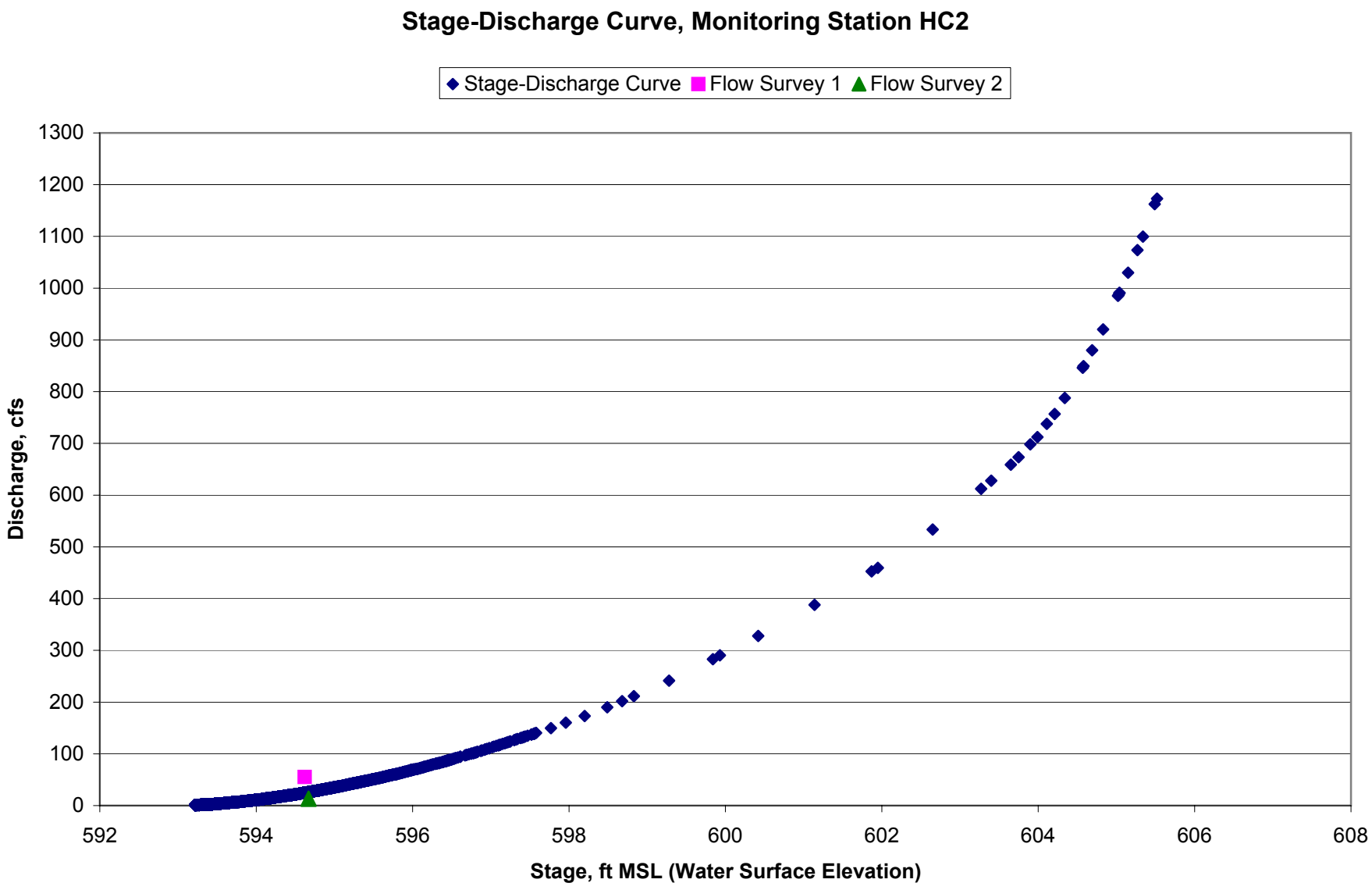

Stage-Discharge Curve, Monitoring Station SC3
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge (cfs)
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5
0
719
720
721
722
723
724
725
Stage, ft MSL (Water Surface Elevation)

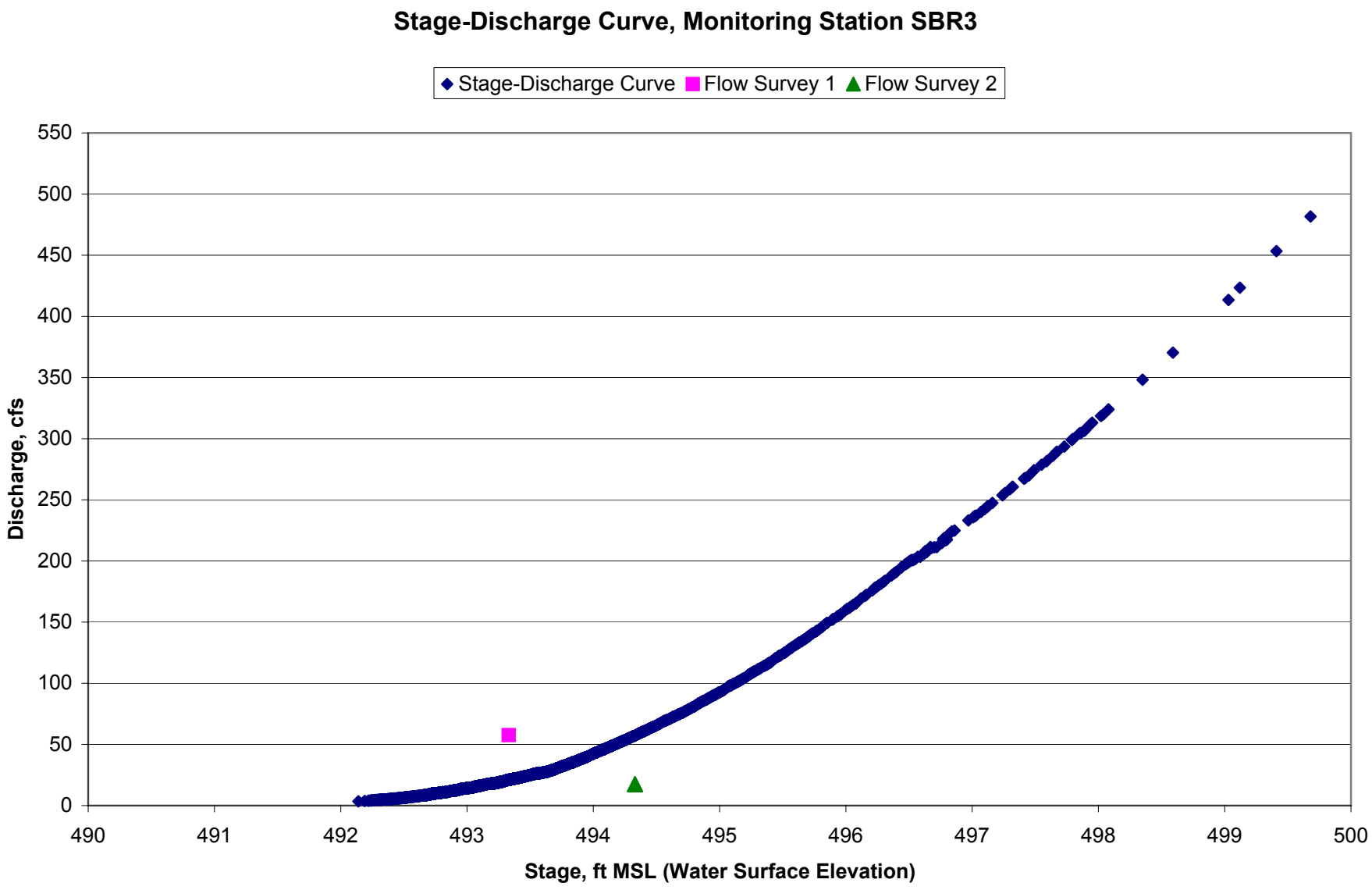

Stage-Discharge Curve, Monitoring Station OC1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
0.0
Discharge, cfs
707.5
708
708.5
709
709.5
710
710.5
711
711.5
712
712.5
713
Stage, ft MSL (Water Surface Elevation)

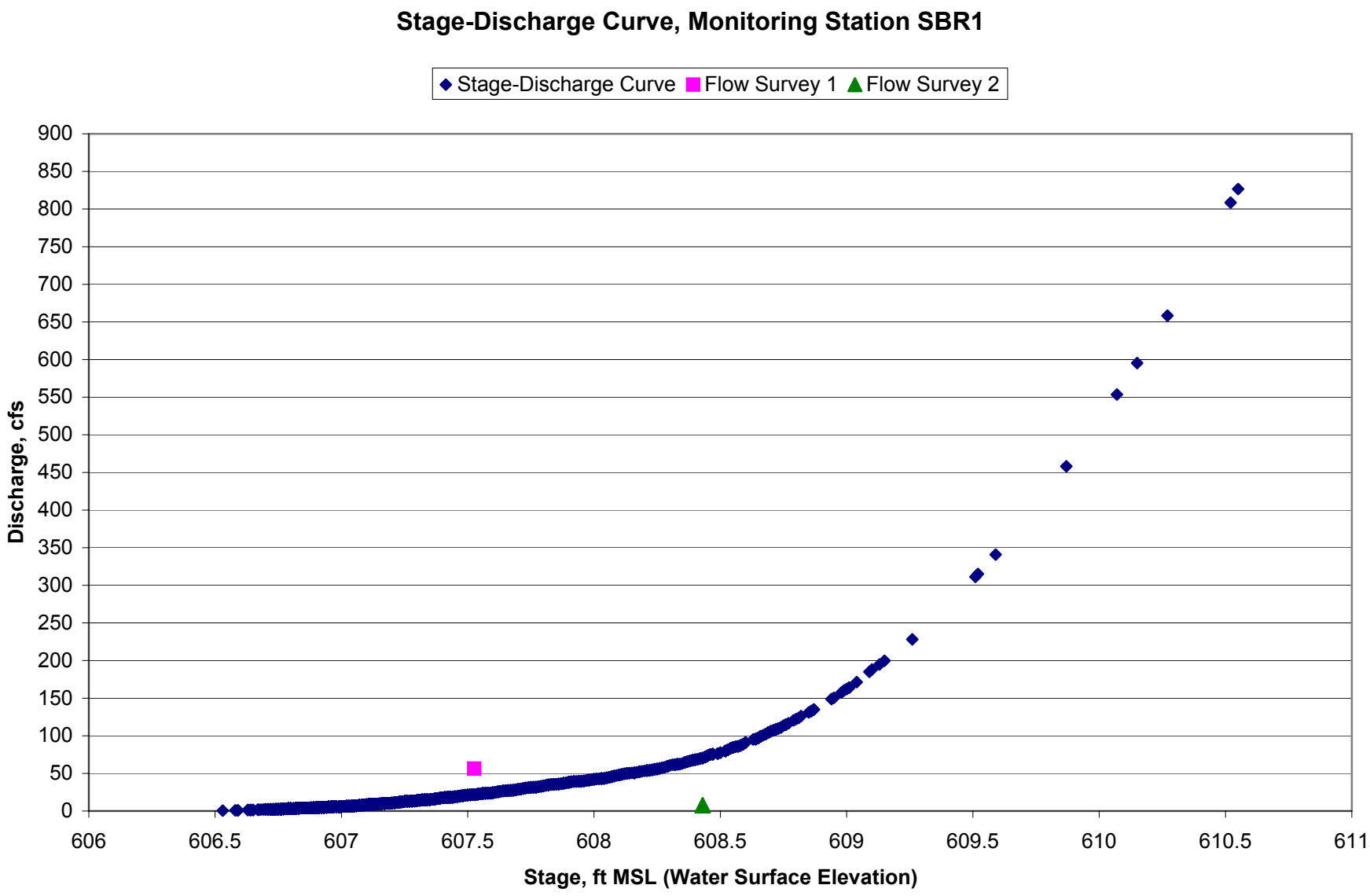

Stage-Discharge Curve, Monitoring Station SC5
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
500
0
602.00
604.00
606.00
608.00
610.00
612.00
614.00
616.00
618.00
620.00
Stage, ft MSL (Water Surface Elevation)

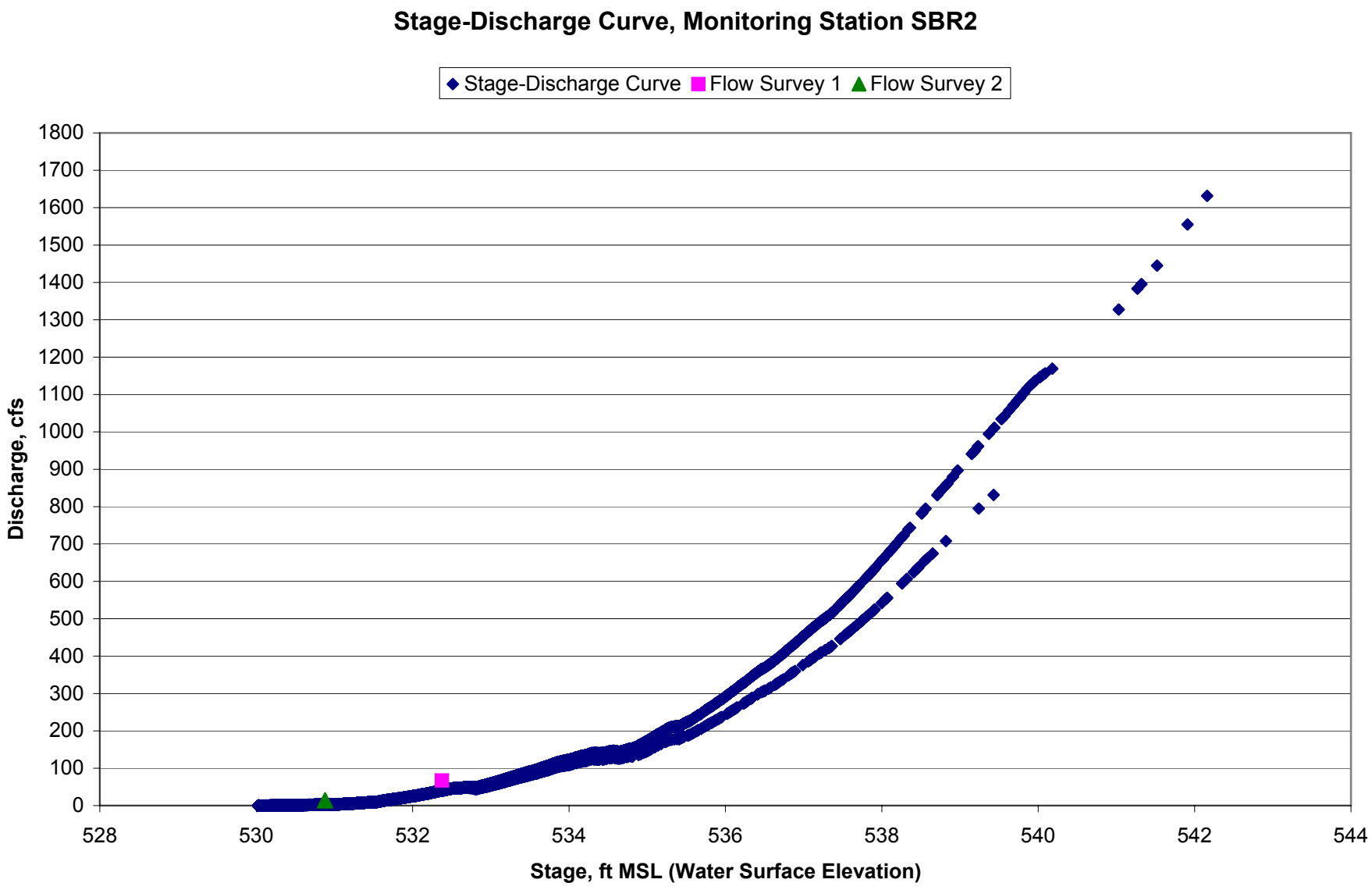

Stage-Discharge Curve, Monitoring Station LR1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
ADCP Surveys
Discharge, cfs
2250
2000
1750
1500
1250
1000
750
500
250
0
594
596
598
600
602
604
606
608
610
612
614
Stage, ft MSL (Water Surface Elevation)

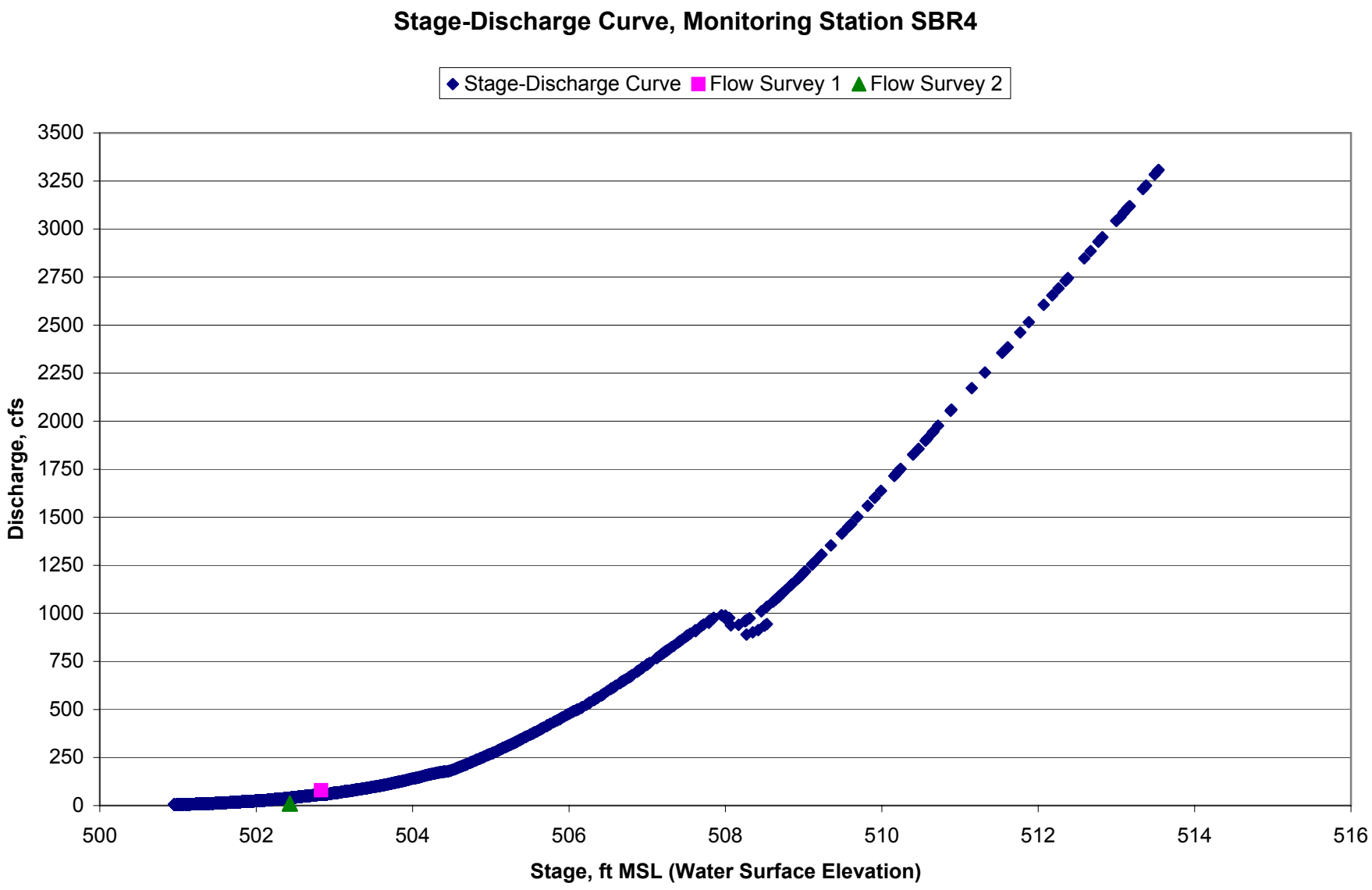

Stage-Discharge Curve, Monitoring Station HC1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
664
664.5
665
665.5
666
666.5
667
667.5
668
668.5
669
Stage, ft MSL (Water Surface Elevation)


Stage-Discharge Curve, Monitoring Station HC2
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
592
594
596
598
600
602
604
606
608
Stage, ft MSL (Water Surface Elevation)


Stage-Discharge Curve, Monitoring Station SBR3
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
550
500
450
400
350
300
250
200
150
100
50
0
490
491
492
493
494
495
496
497
498
499
500
Stage, ft MSL (Water Surface Elevation)


Stage-Discharge Curve, Monitoring Station SBR1
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
900
850
800
750
700
650
600
550
500
450
400
350
300
250
200
150
100
50
0
606
606.5
607
607.5
608
608.5
609
609.5
610
610.5
611
Stage, ft MSL (Water Surface Elevation)


Stage-Discharge Curve, Monitoring Station SBR2
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
528
530
532
534
536
538
540
542
544
Stage, ft MSL (Water Surface Elevation)


Stage-Discharge Curve, Monitoring Station SBR4
Stage-Discharge Curve
Flow Survey 1
Flow Survey 2
Discharge, cfs
3500
3250
3000
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
500
502
504
506
508
510
512
514
516
Stage, ft MSL (Water Surface Elevation)