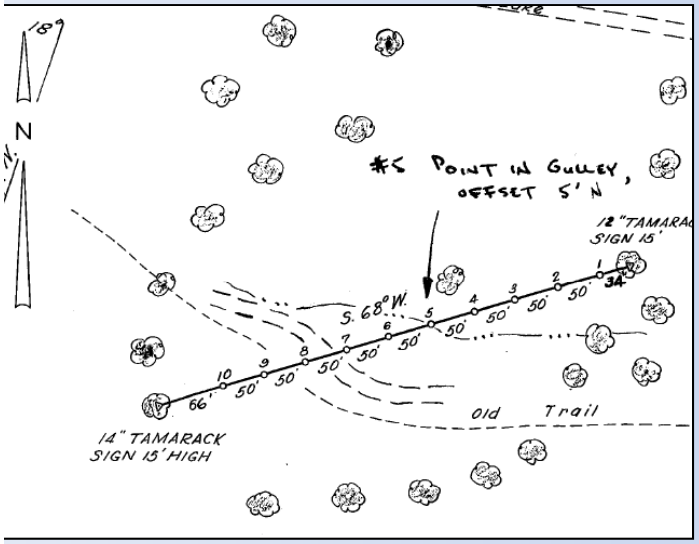
Water Year 2011 Snow Course Measurement Observations

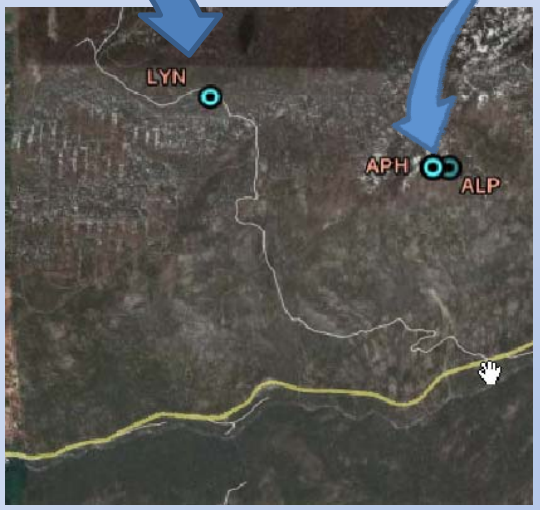
California Cooperative Snow Surveys Meeting
November 3, 2011
Grass Valley

John j. King ***PE***

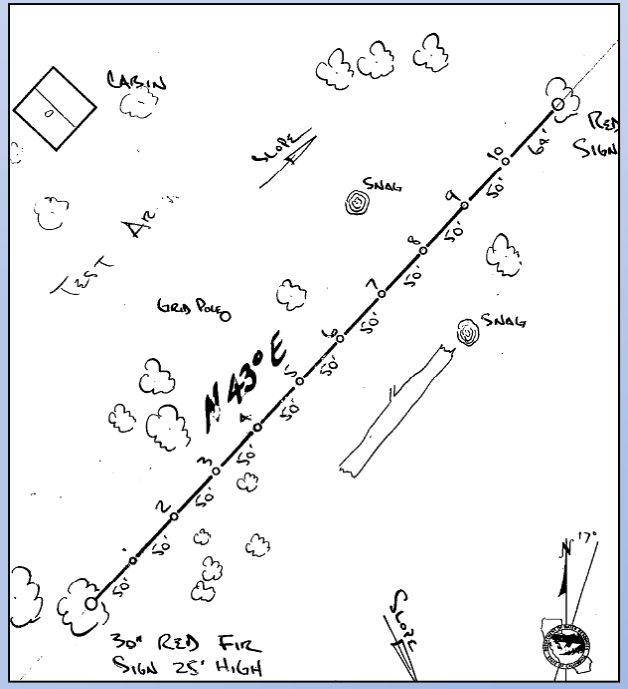
Snow Courses 320 & 365
Drainage Basin: American

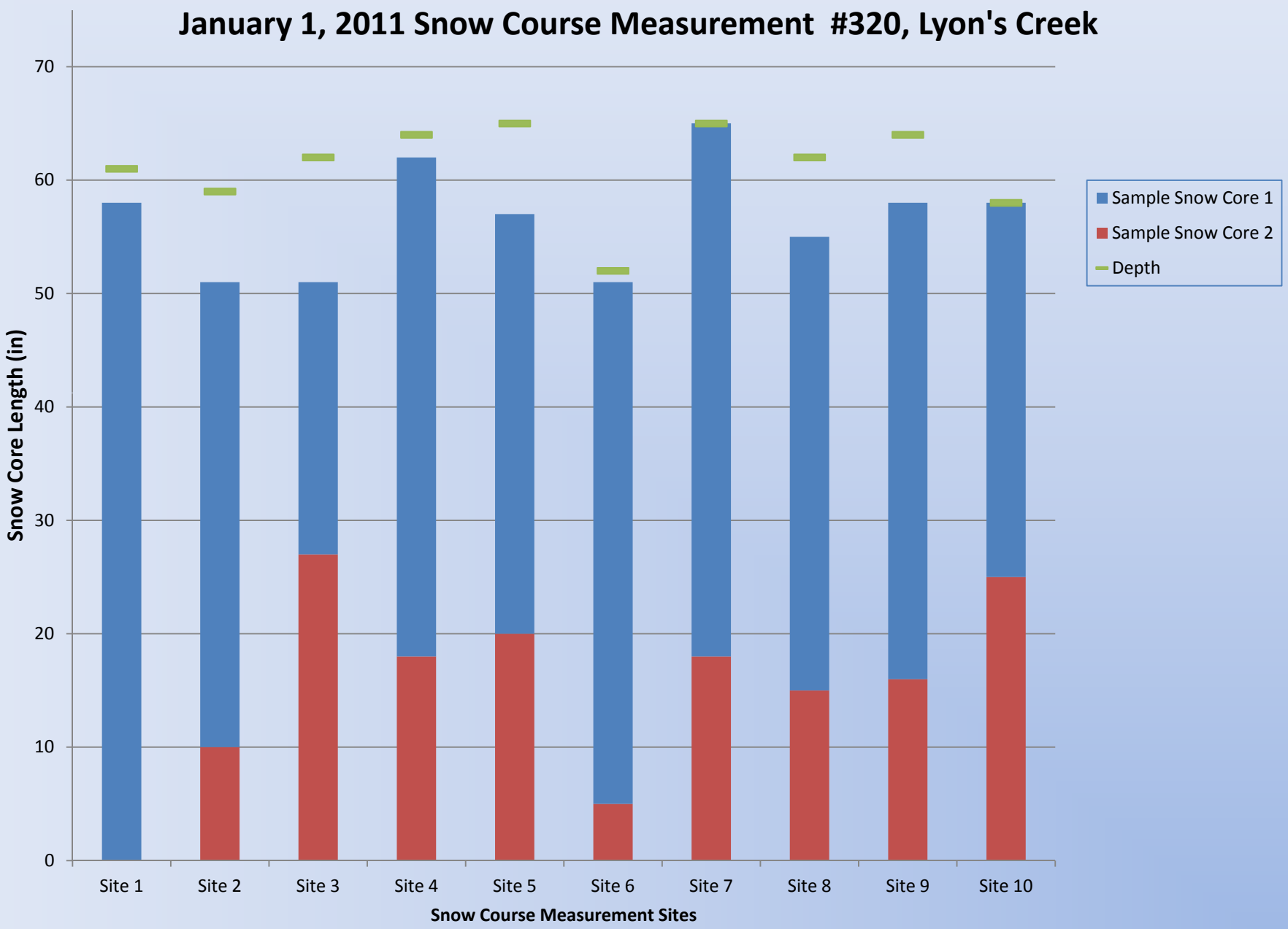
Lyons Creek SC #320
Elevation 6700 feet

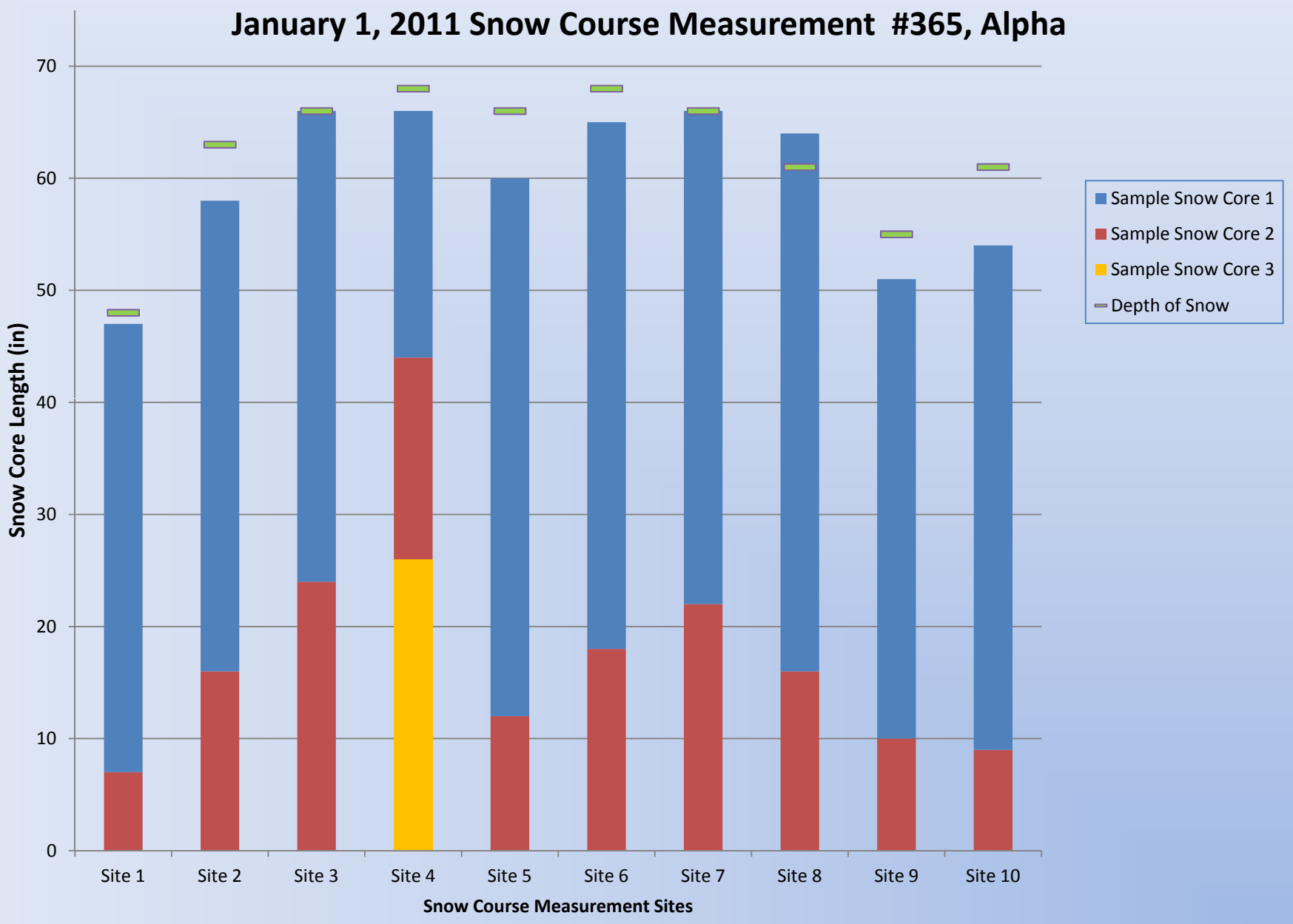


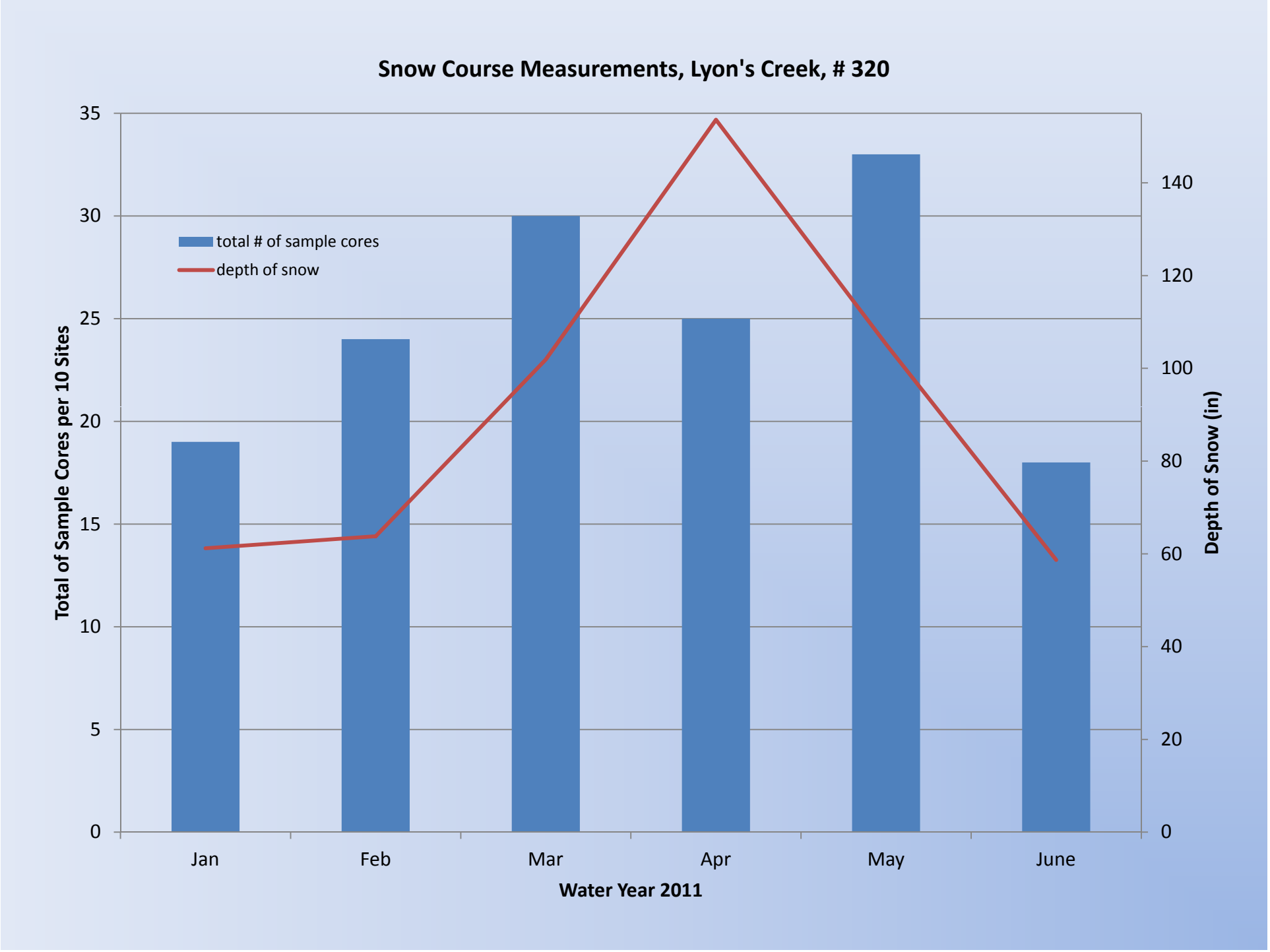


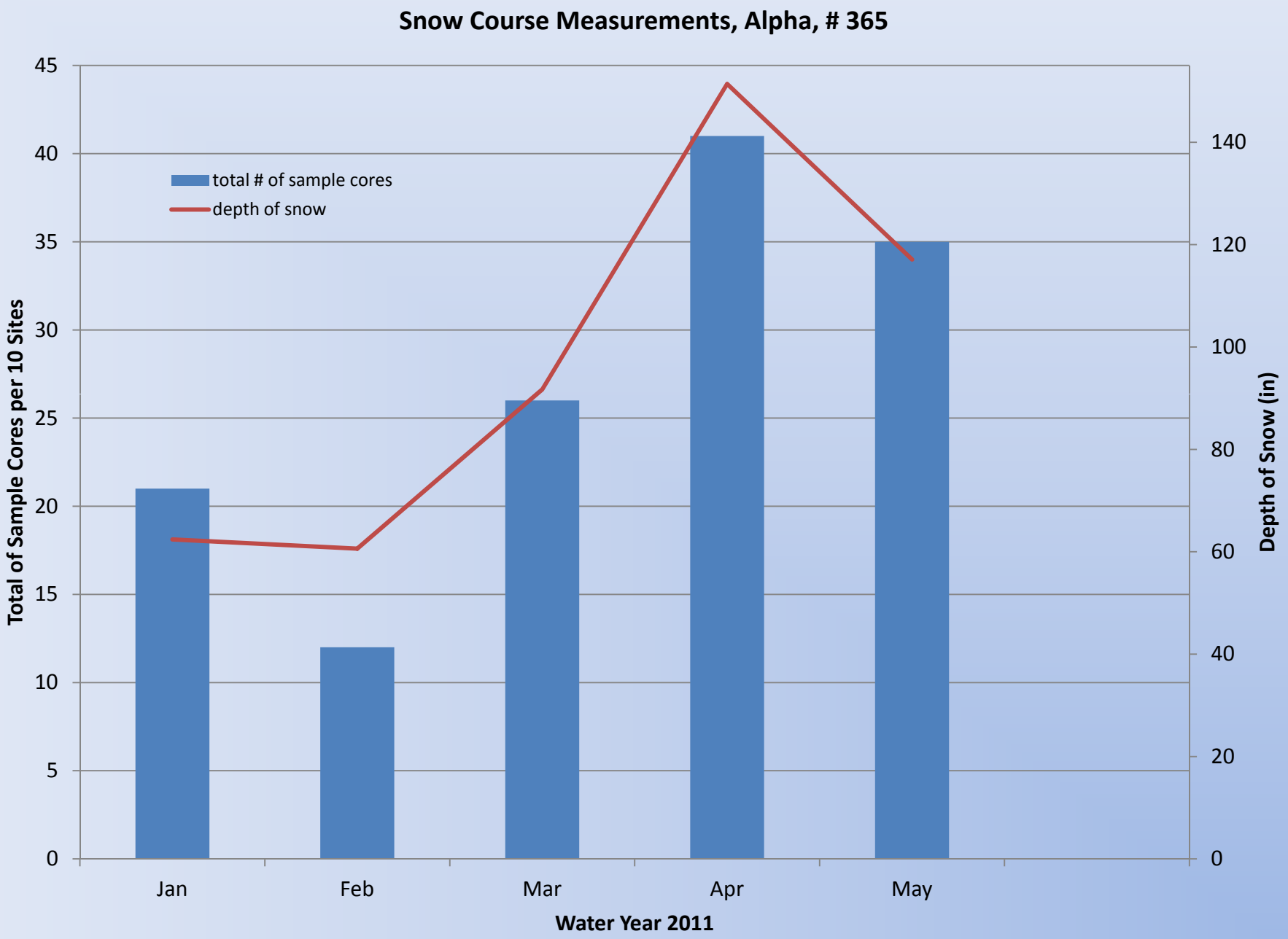
Alpha SC #365
Elevation 7600 feet

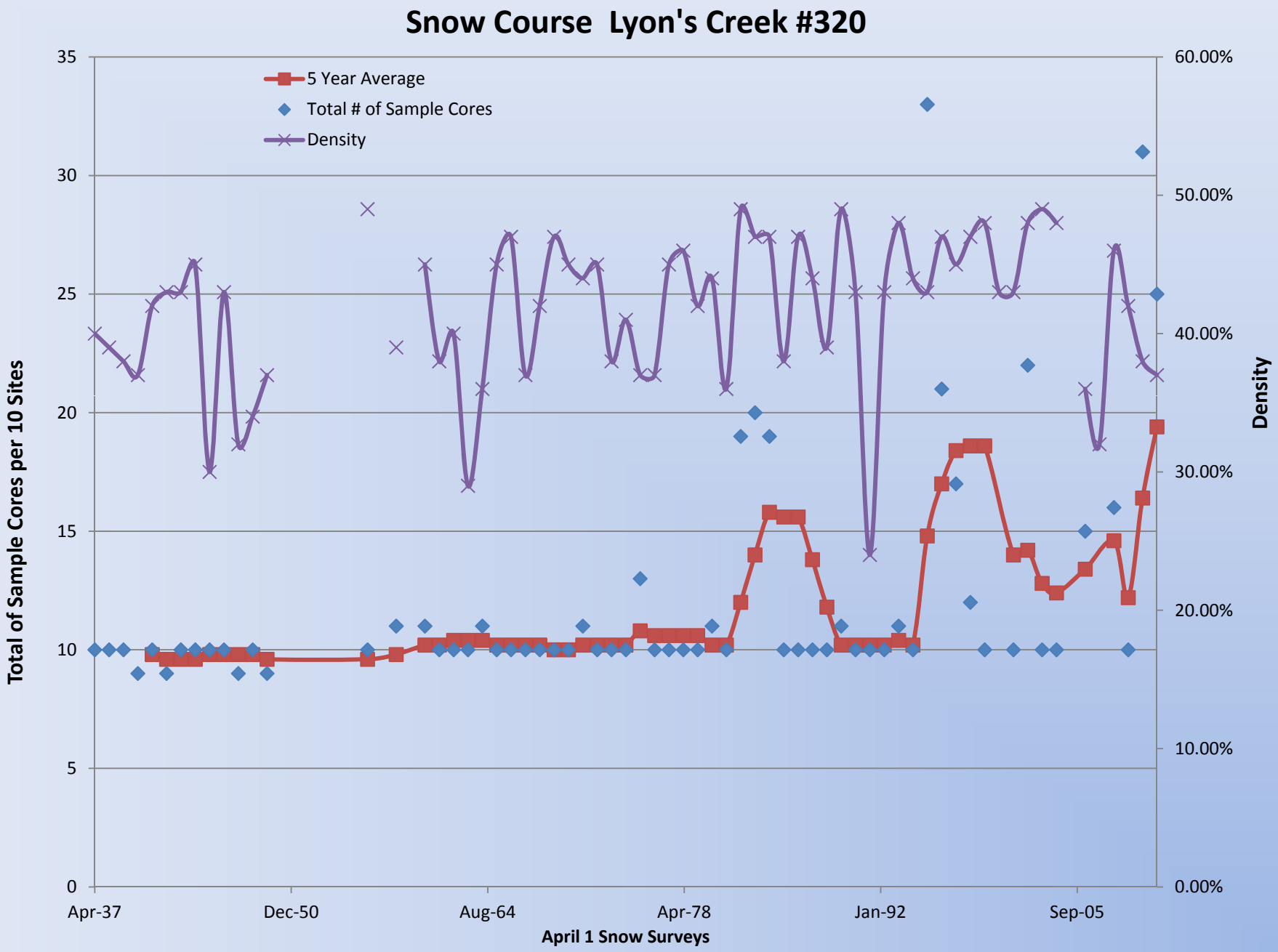


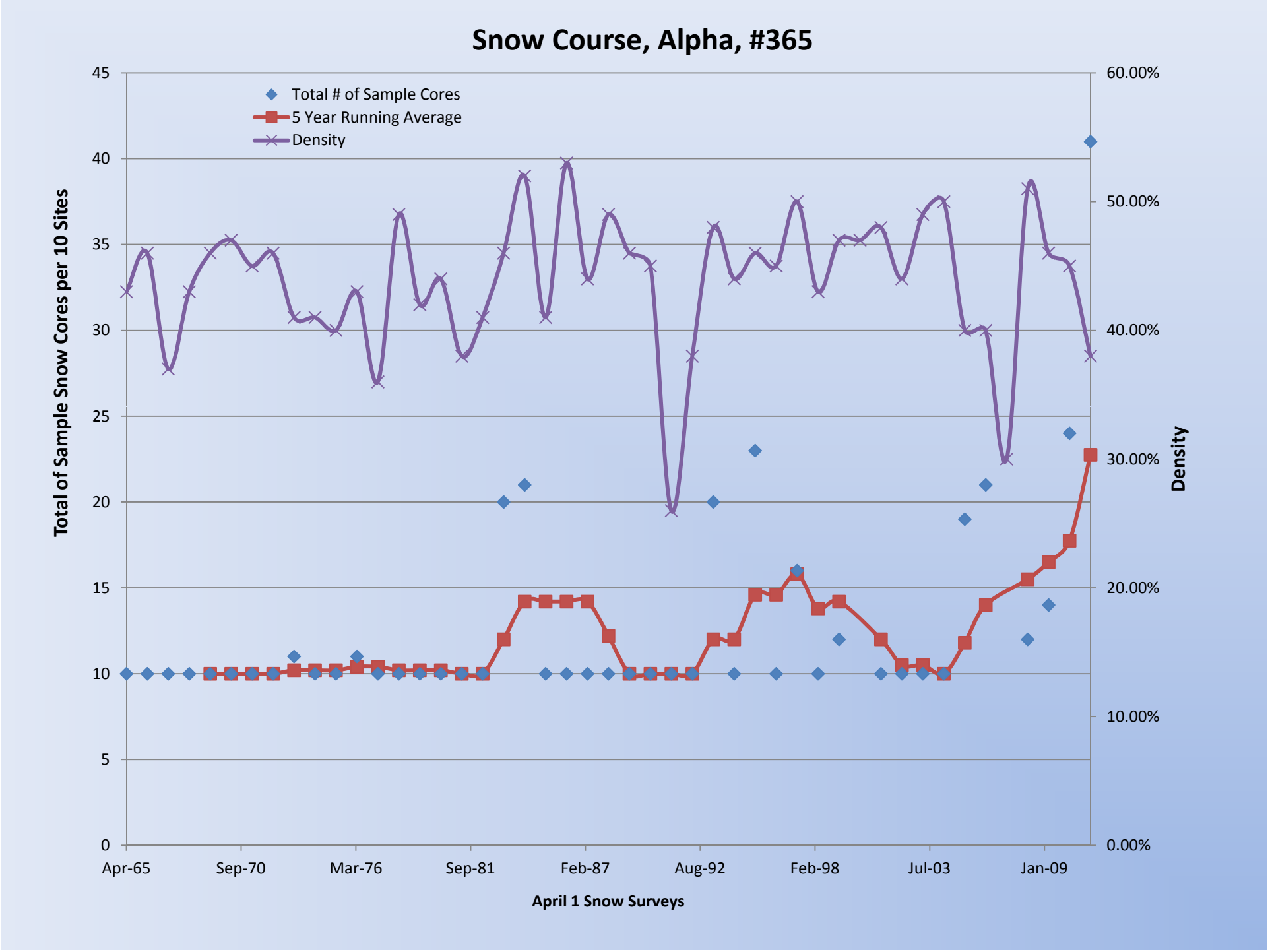

January 1, 2011 Snow Course Measurement #320, Lyon's Creek
Snow Core Length (in)
0
10
20
30
40
50
60
70
Site 1
Site 2
Site 3
Site 4
Site 5
Site 6
Site 7
Site 8
Site 9
Site 10
Snow Course Measurement Sites
Sample Snow Core 1
Sample Snow Core 2
Depth


January 1, 2011 Snow Course Measurement #365, Alpha
Snow Core Length (in)
0
10
20
30
40
50
60
70
Site 1
Site 2
Site 3
Site 4
Site 5
Site 6
Site 7
Site 8
Site 9
Site 10
Snow Course Measurement Sites
Sample Snow Core 1
Sample Snow Core 2
Sample Snow Core 3
Depth of Snow

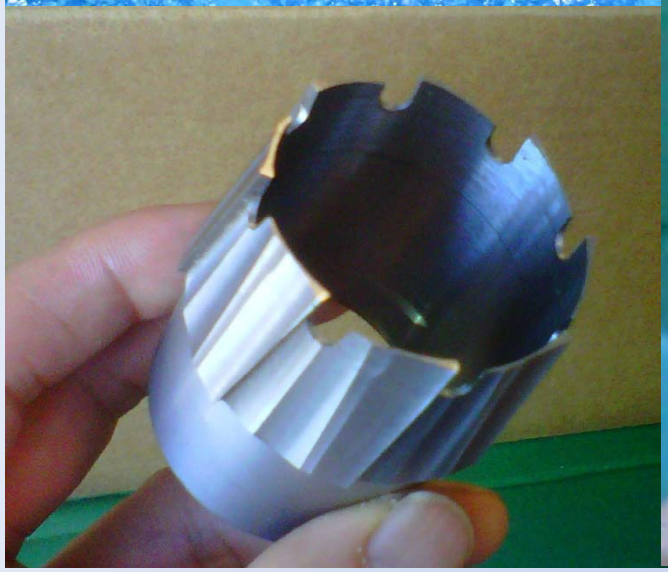

Snow Course Measurements, Lyon's Creek, # 320
total # of sample cores
depth of snow
Total of Sample Cores per 10 Sites
Depth of Snow (in)
Water Year 2011
Jan
Feb
Mar
Apr
May
June
0
5
10
15
20
25
30
35
0
20
40
60
80
100
120
140


Snow Course Measurements, Alpha, # 365
total # of sample cores
depth of snow
Total of Sample Cores per 10 Sites
Depth of Snow (in)
Water Year 2011
Jan
Feb
Mar
Apr
May
0
5
10
15
20
25
30
35
40
45
0
20
40
60
80
100
120
140


Snow Course Lyon's Creek #320
5 Year Average
Total # of Sample Cores
Density
Total of Sample Cores per 10 Sites
Density
April 1 Snow Surveys
35
30
25
20
15
10
5
0
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Apr-37
Dec-50
Aug-64
Apr-78
Jan-92
Sep-05


Snow Course, Alpha, #365
Total # of Sample Cores
5 Year Running Average
Density
Total of Sample Snow Cores per 10 Sites
Density
April 1 Snow Surveys
45
40
35
30
25
20
15
10
5
0
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%
Apr-65
Sep-70
Mar-76
Sep-81
Feb-87
Aug-92
Feb-98
Jul-03
Jan-09

Federal Ice Cutter



Questions