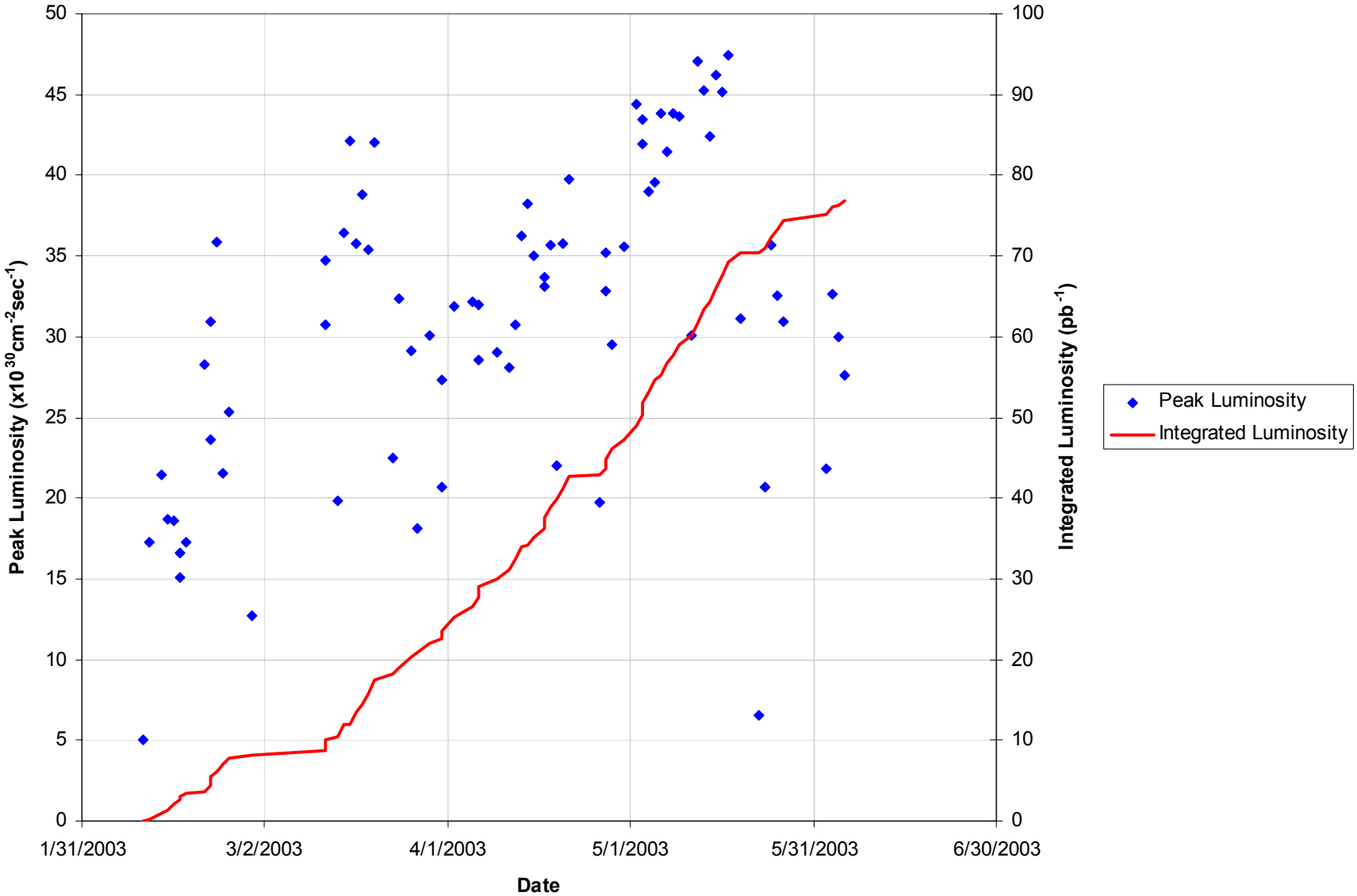
Collider Summary 2/10/03 - 6/5/03

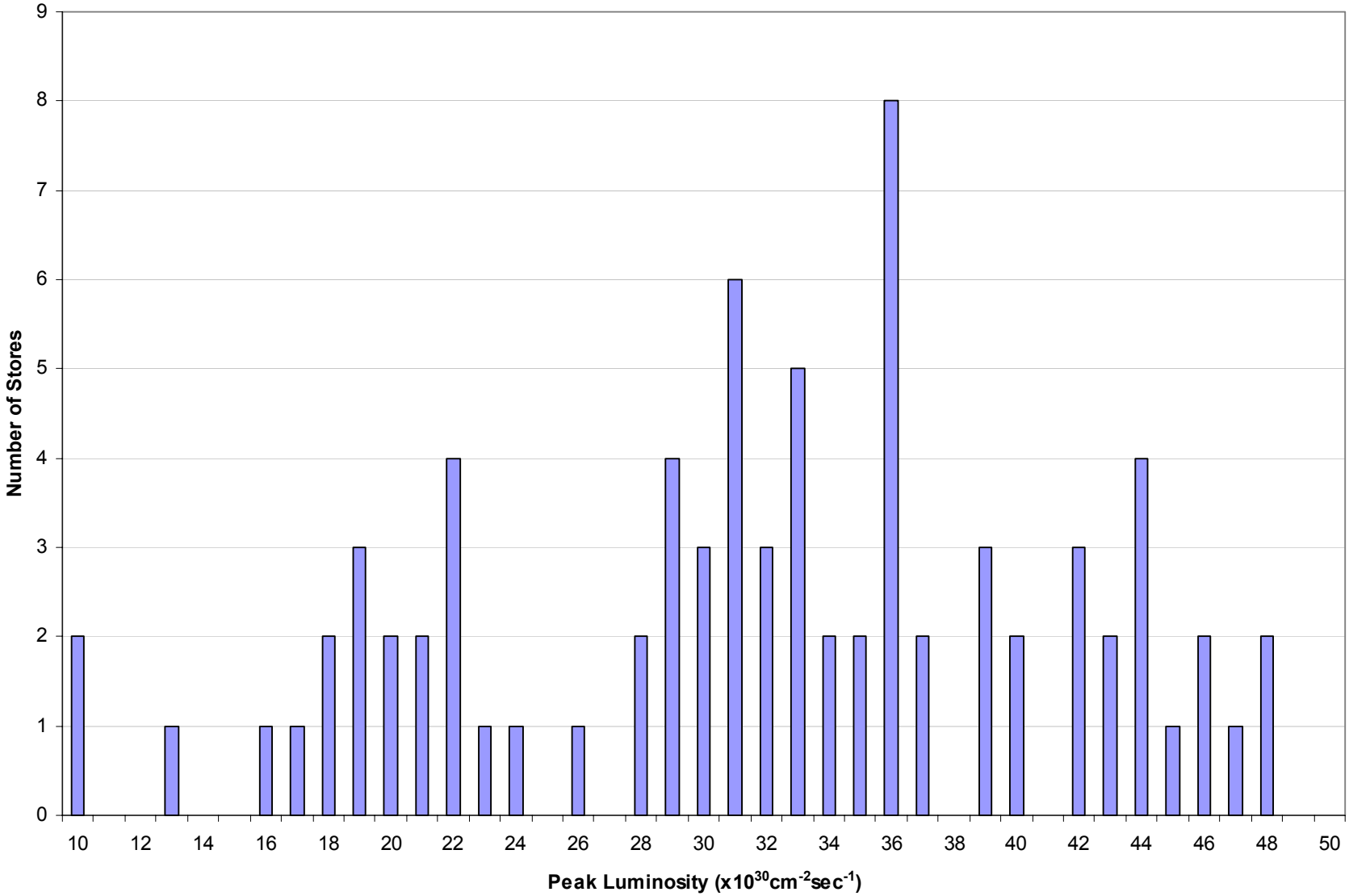


Collider Summary 2/10/03 - 6/5/03

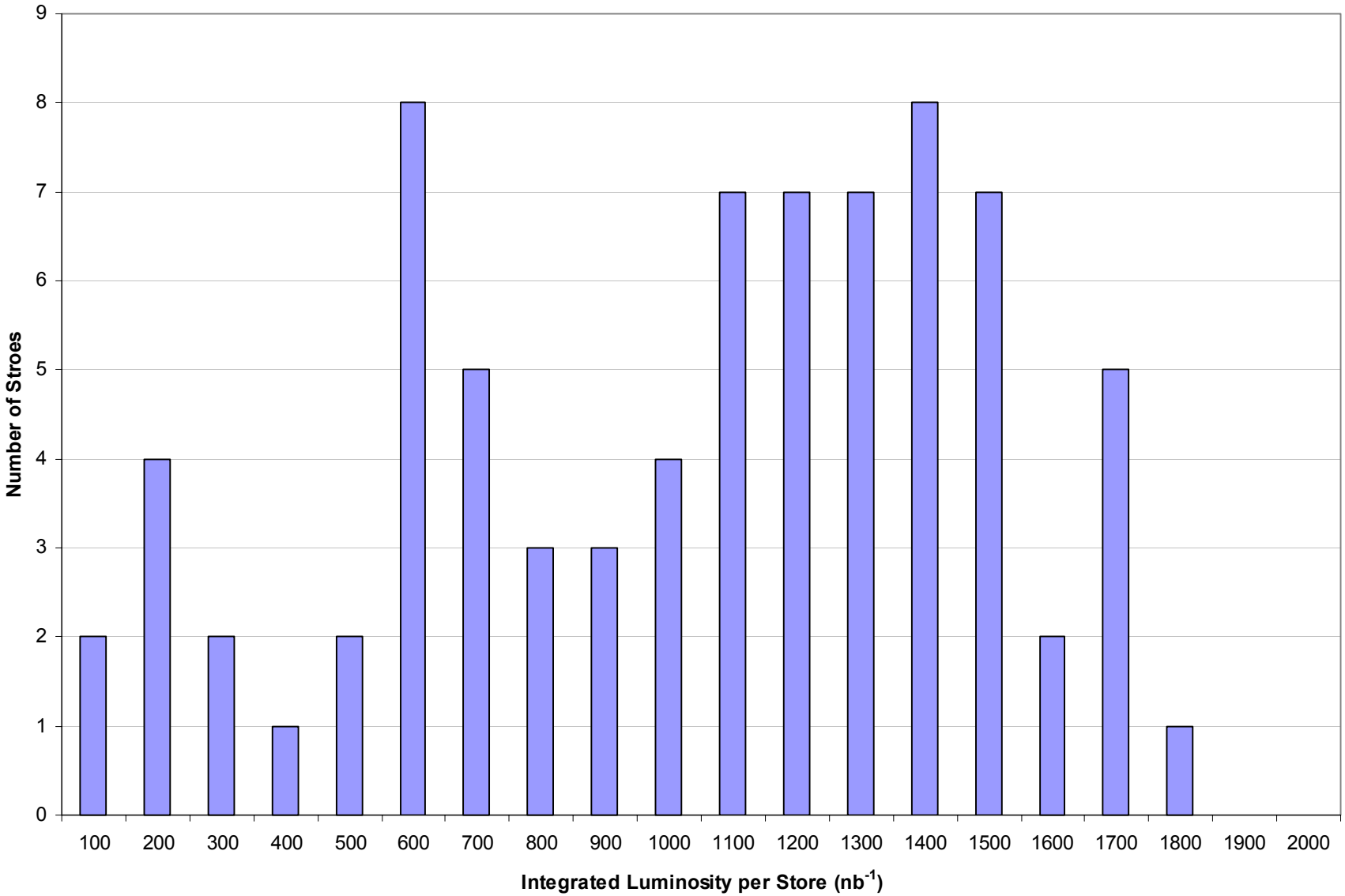
Parameter	Average	St. Dev.	Best Integrated	Best Peak	
Initial Luminosity	31.2	9.6	42.0	47.4	$x10^{30}cm^{-2}sec^{-1}$
Average Instantaneous Luminosity	19.4	6.8	22.3	27.0	$x10^{30}cm^{-2}sec^{-1}$
Integrated Luminosity per Store	985.7	450.5	1713.0	1650.0	nb^{-1}
Luminosity per week	4.7	2.6	4.6	7.0	pb^{-1}
Number of Stores per Week	4.7	-	-	-	
Store Length	14.4	5.5	21.3	17.0	Hours
Intentional Store Length	16.6	3.4	21.3	17.0	Hours
Aborted Store Length	10.6	6.4	-	-	Hours
Store Hours per week	68.6	31.9	46.3	91.6	Hours
Time spent stacking per store	14.6	3.4	19.5	20.9	Hours
Shot Setup Time	2.8	2.6	1.8	2.0	Hours
Store Lifetime	13.6	3.8	14.9	13.6	Hours
Protons per bunch	192.1	29.0	203.8	242.0	$x10^{9}$
Start Stack	135.3	25.1	166.0	173.0	$x10^{10}$
End Stack	11.2	13.6	12.0	11.0	$x10^{10}$
Zero Stack Stack Rate	11.7	1.6	11.7	11.7	$x10^{10}$/Hour
Zero Stacking Rate Stack Size	303.7	1.7	303.7	303.7	$x10^{10}$
Pbar Transfer efficiency to Low Beta	57.9	7.5	57.7	56.7	%

78 Stores

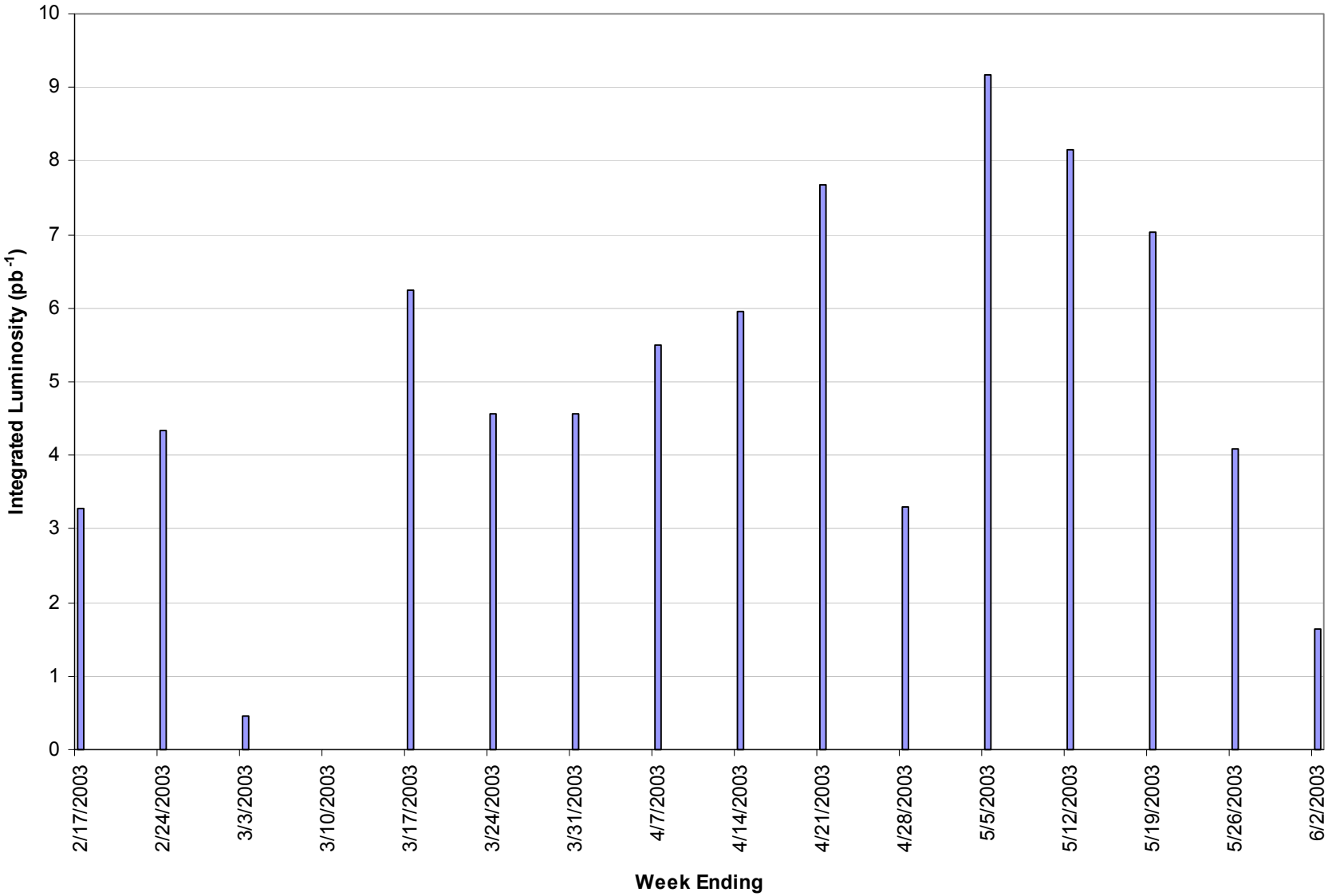
Peak Luminosity



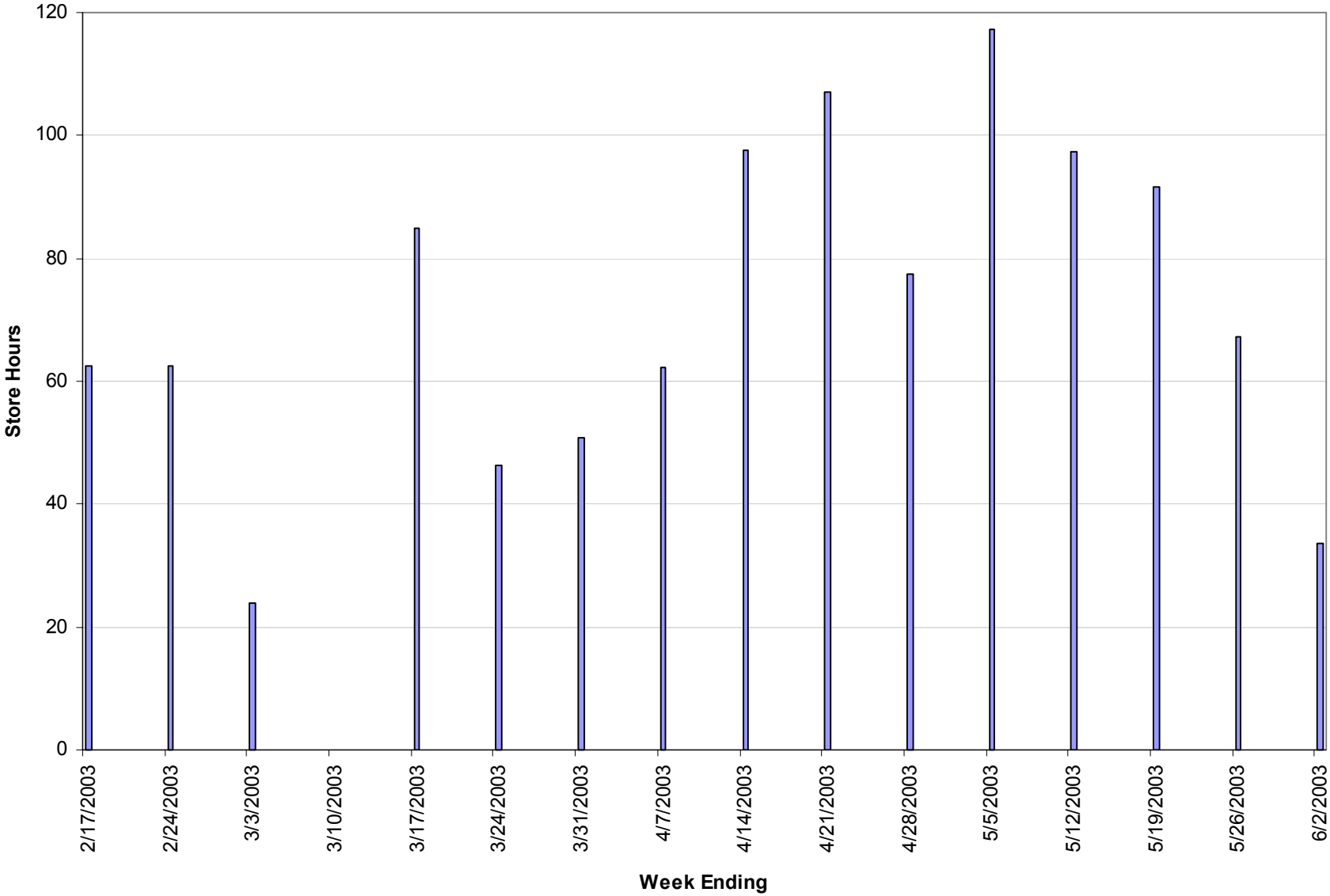
Store Integrated Luminosity



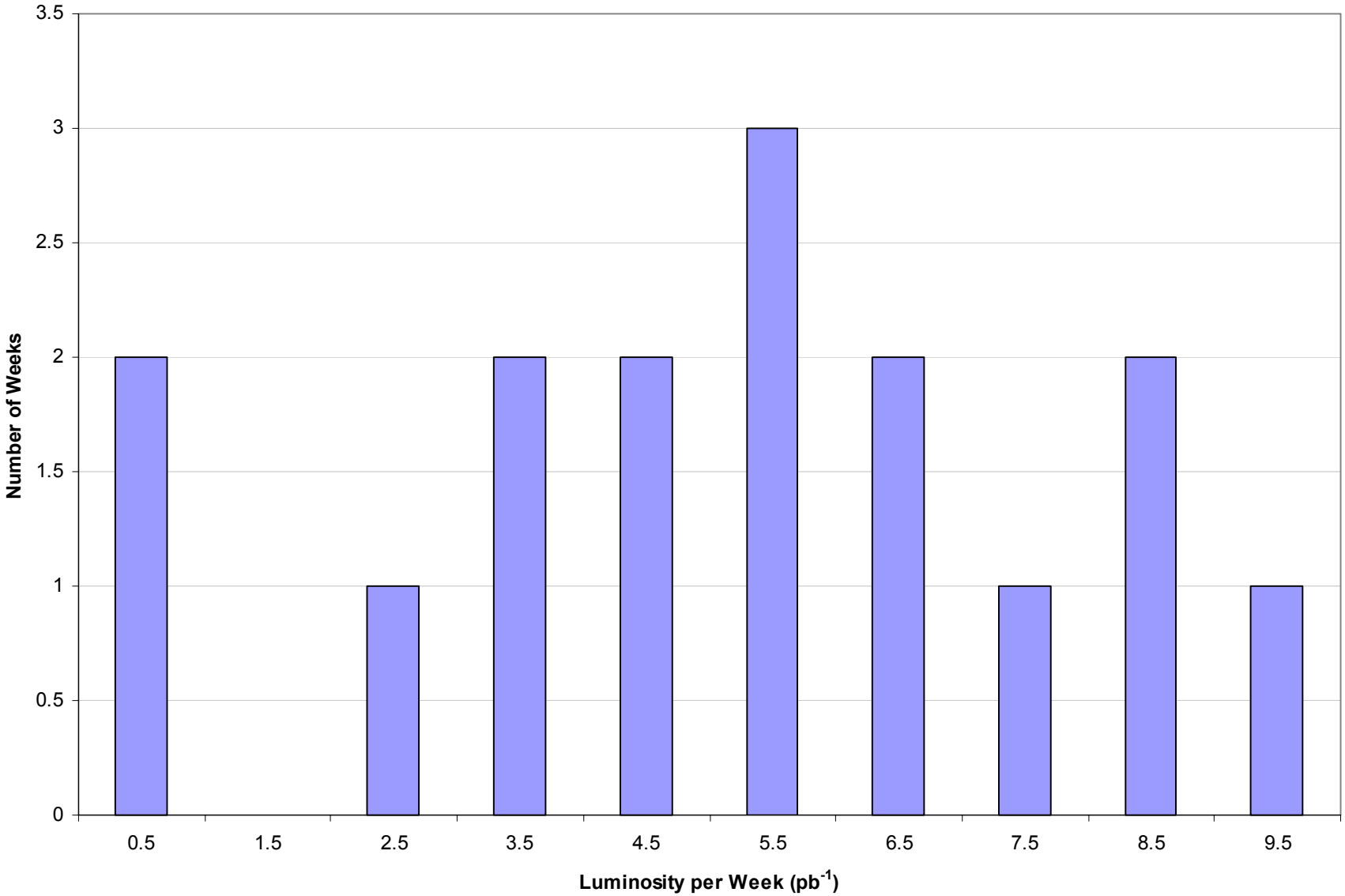
Weekly Luminosity



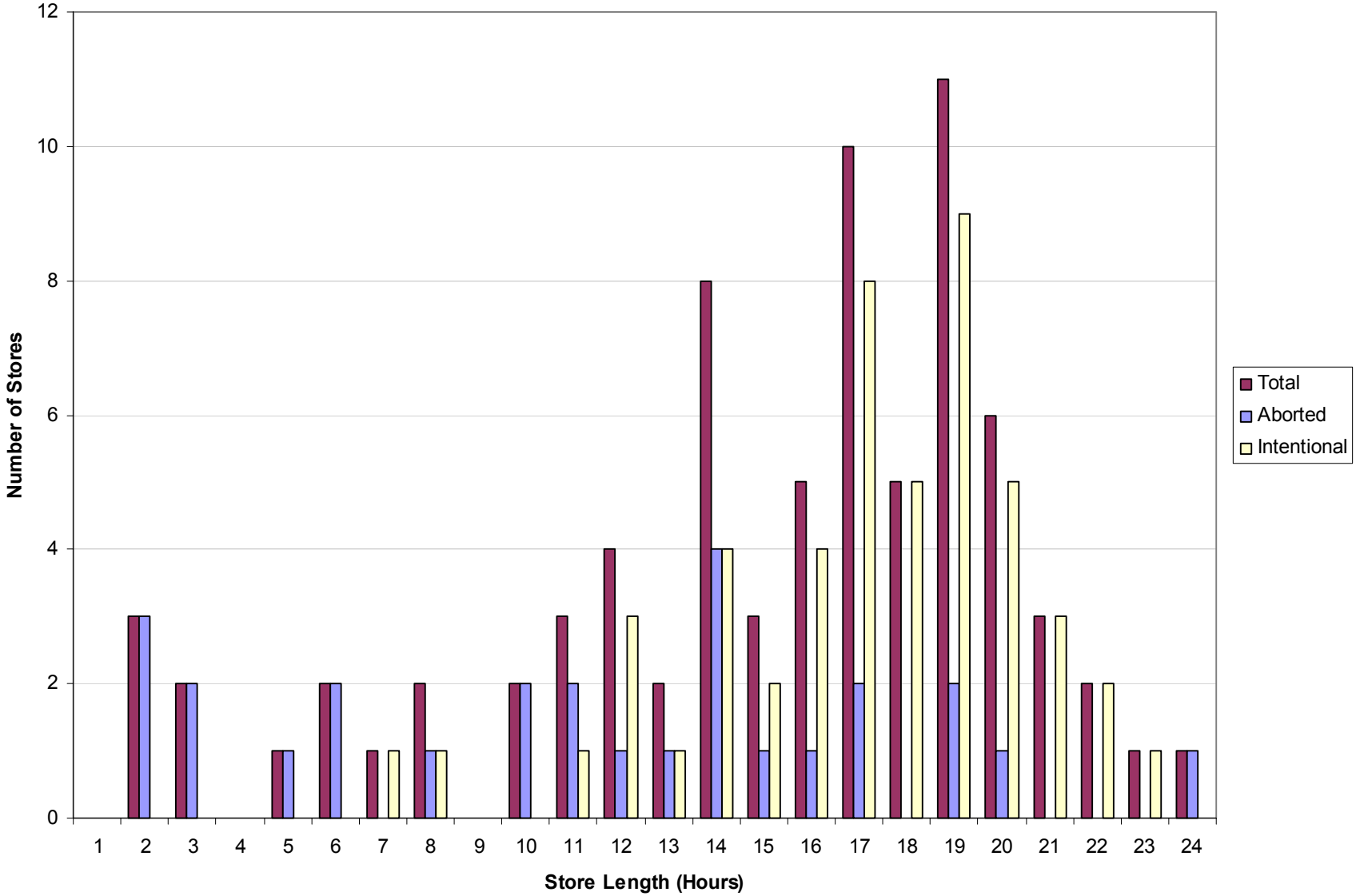
Store Hours per Week



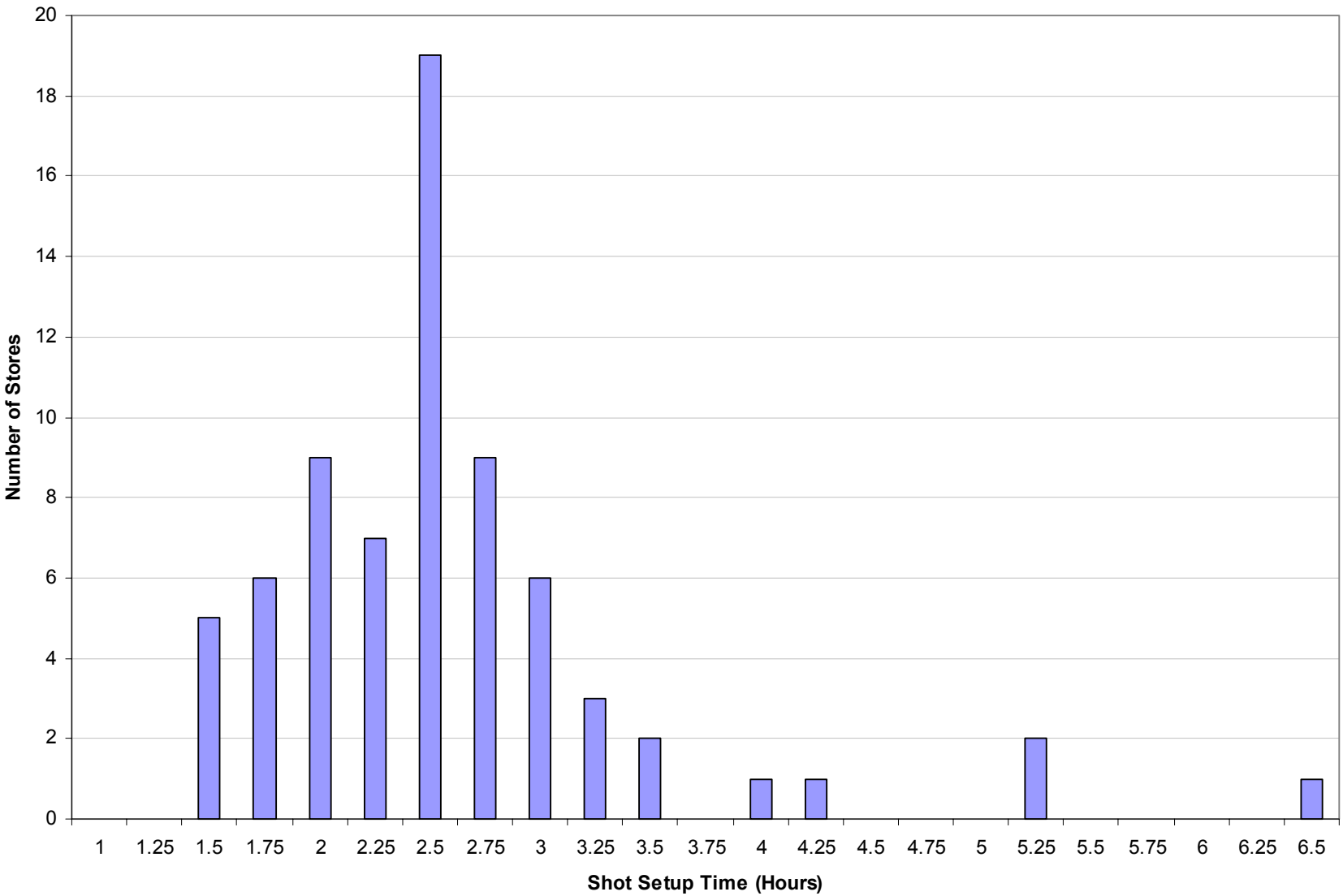
Weekly Luminosity



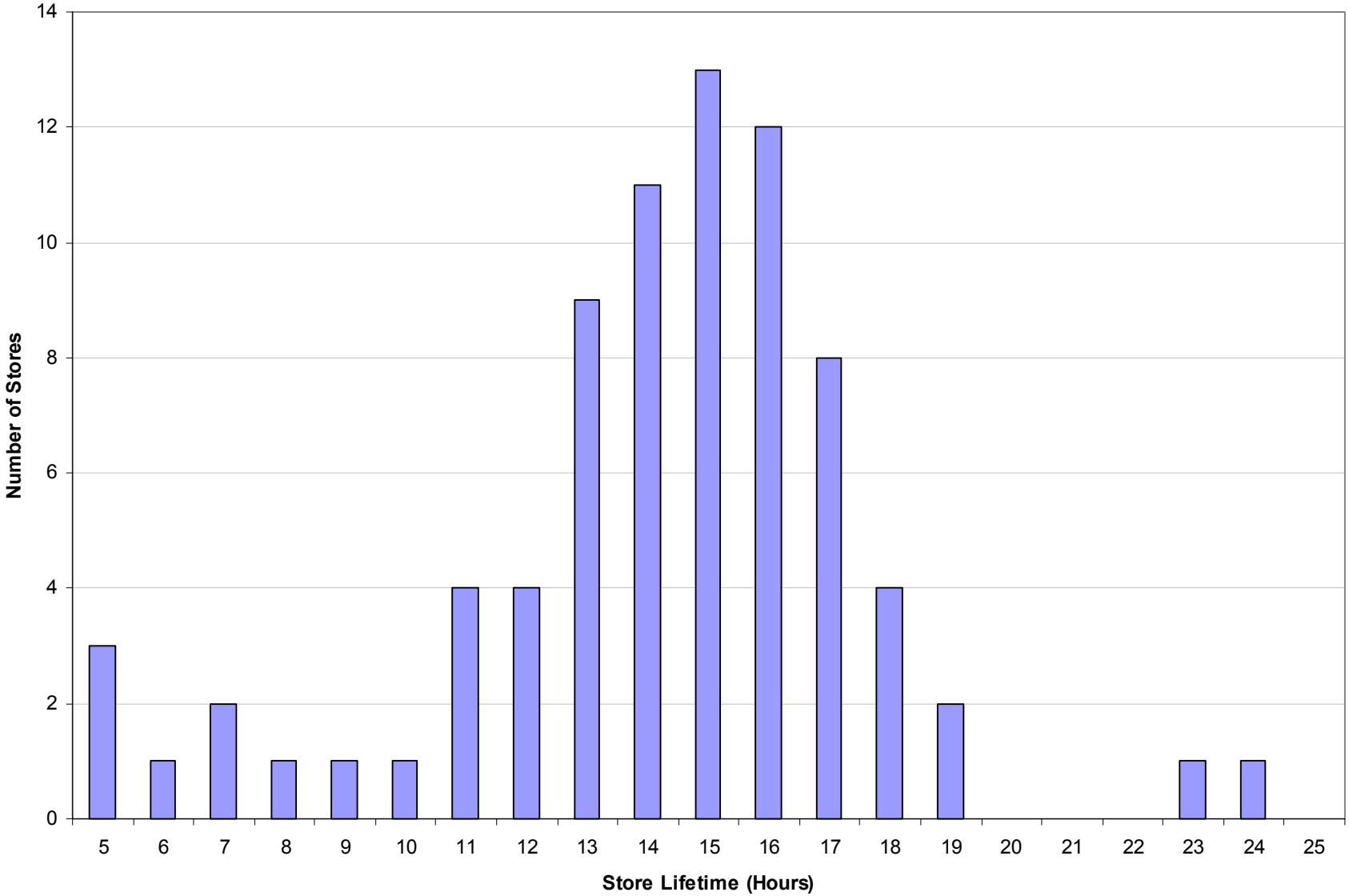
Store Hours


Number of Stores
0
2
4
6
8
10
12
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Store Length (Hours)
Total
Aborted
Intentional

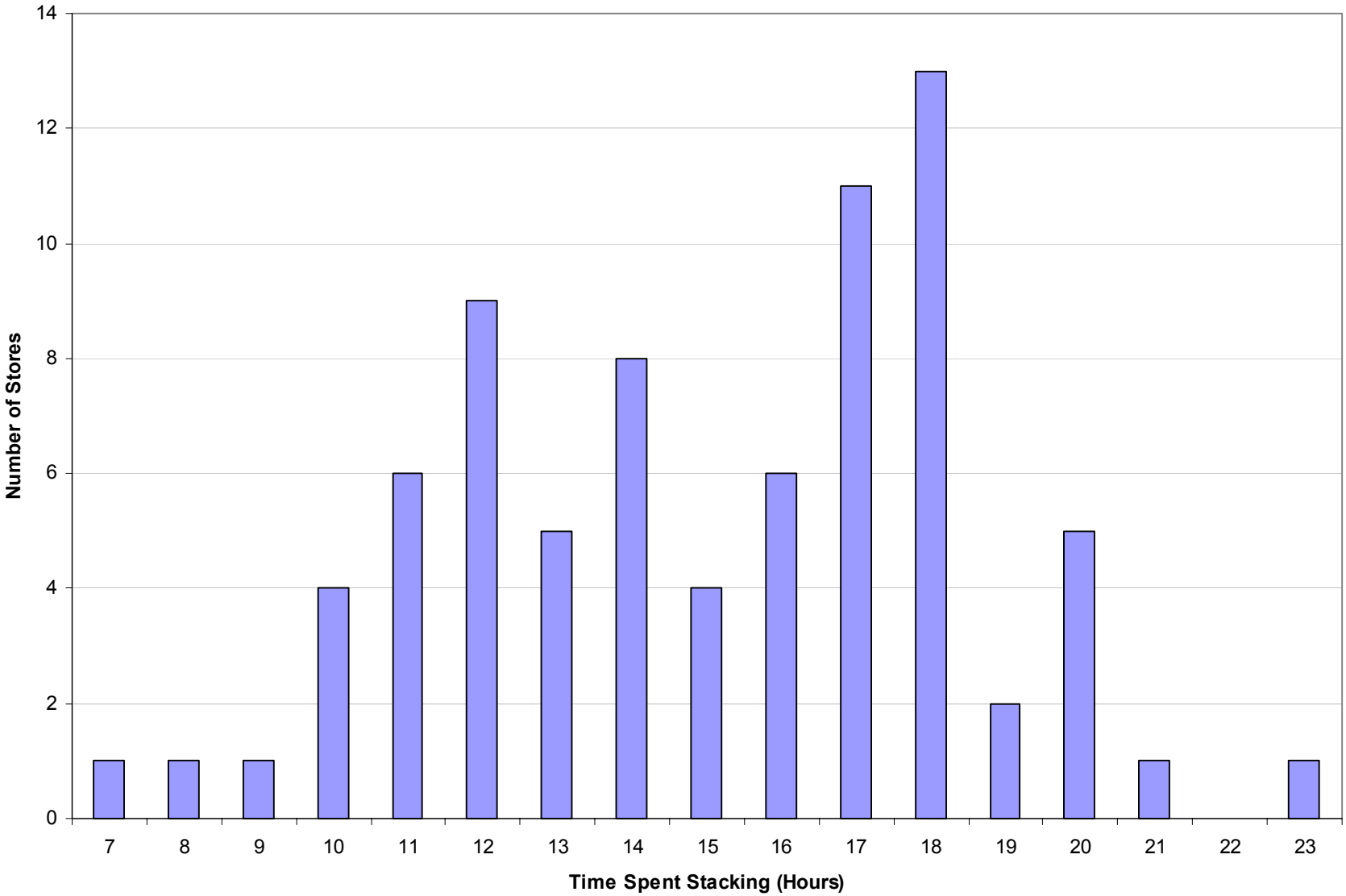
Shot Setup Time



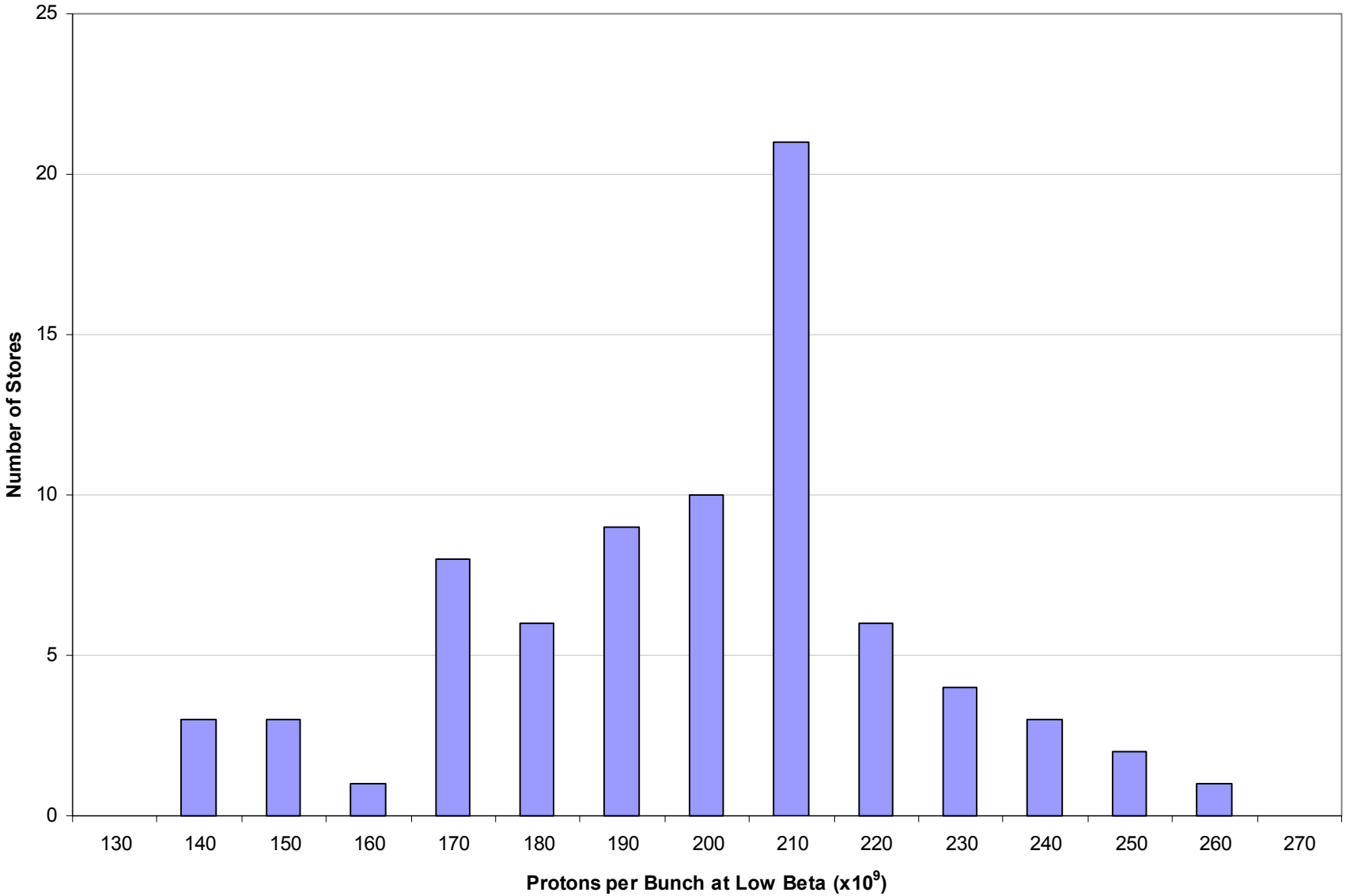
Store Lifetime



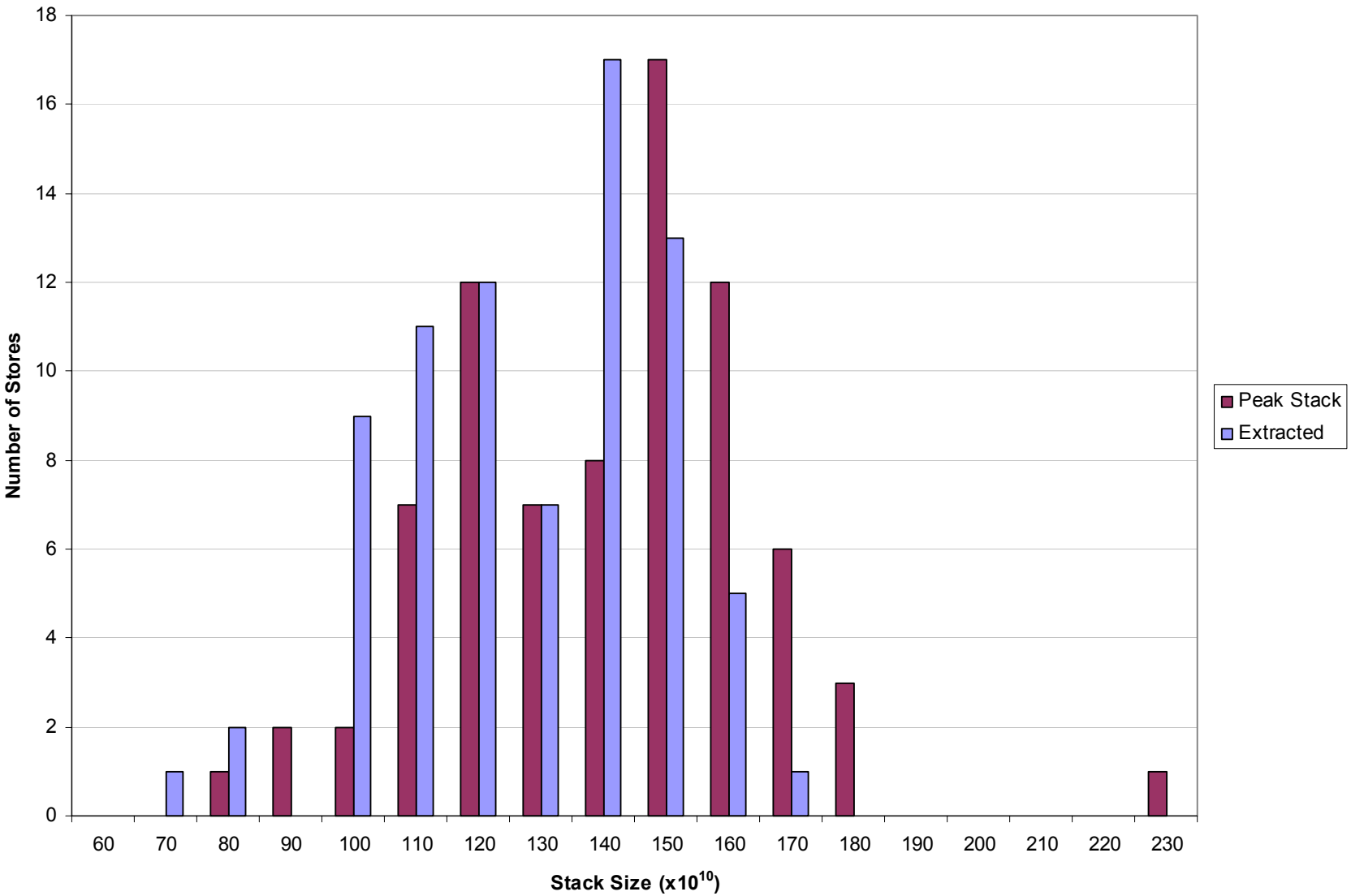
Time Spent Stacking



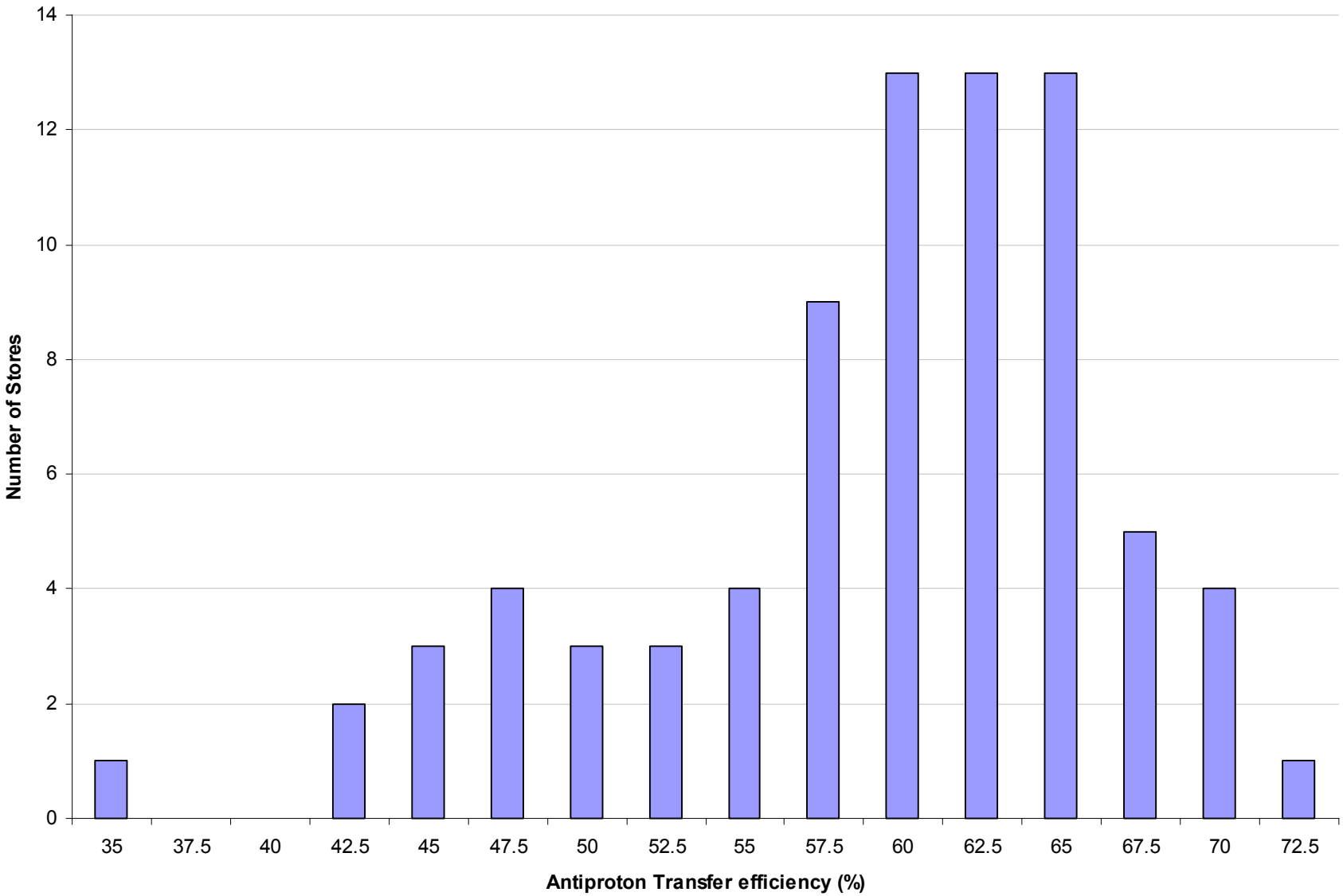
Protons per Bunch at Low Beta



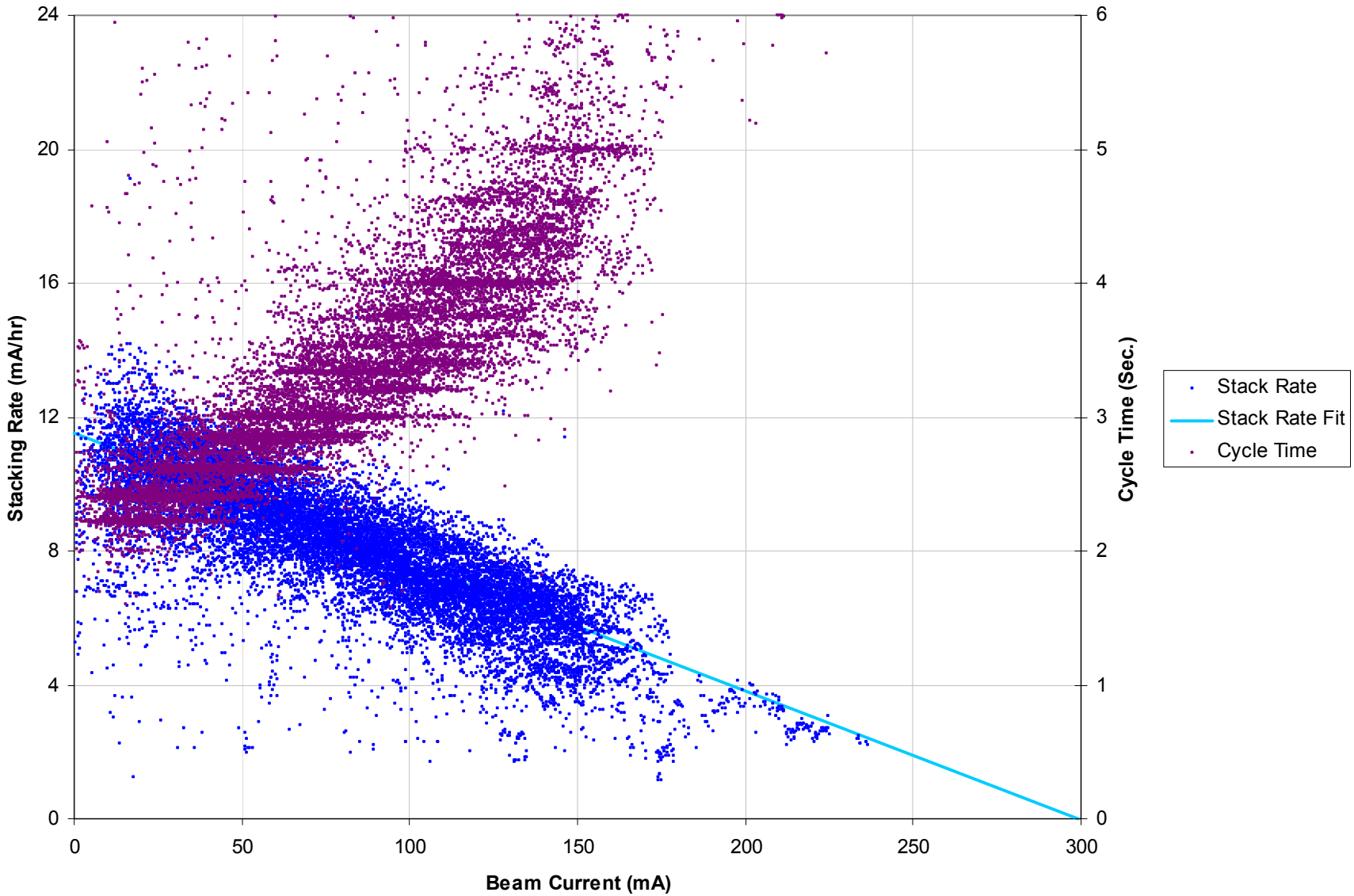
Antiproton Stack Size



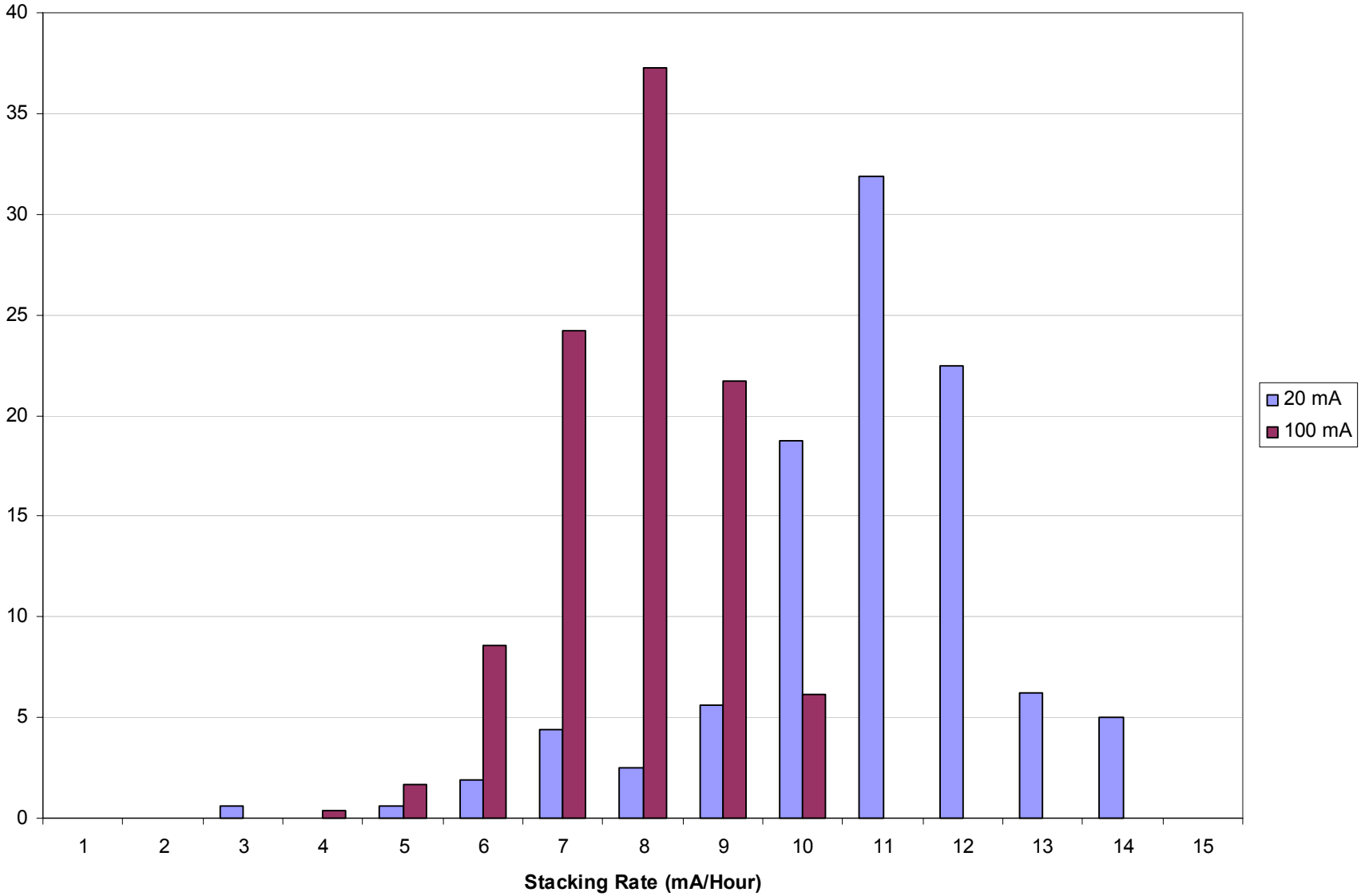
Antiproton Transfer Efficiency to Low Beta



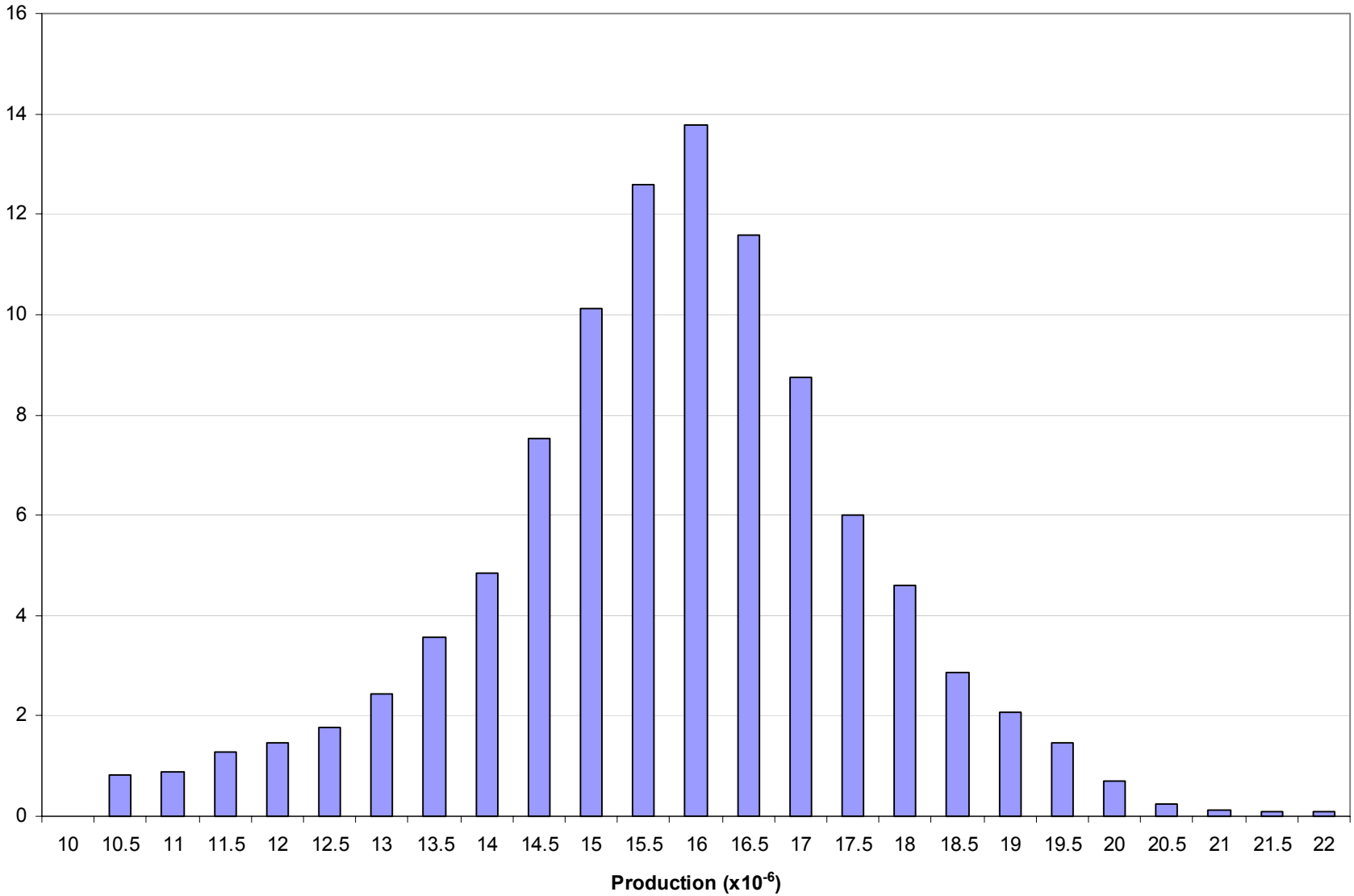
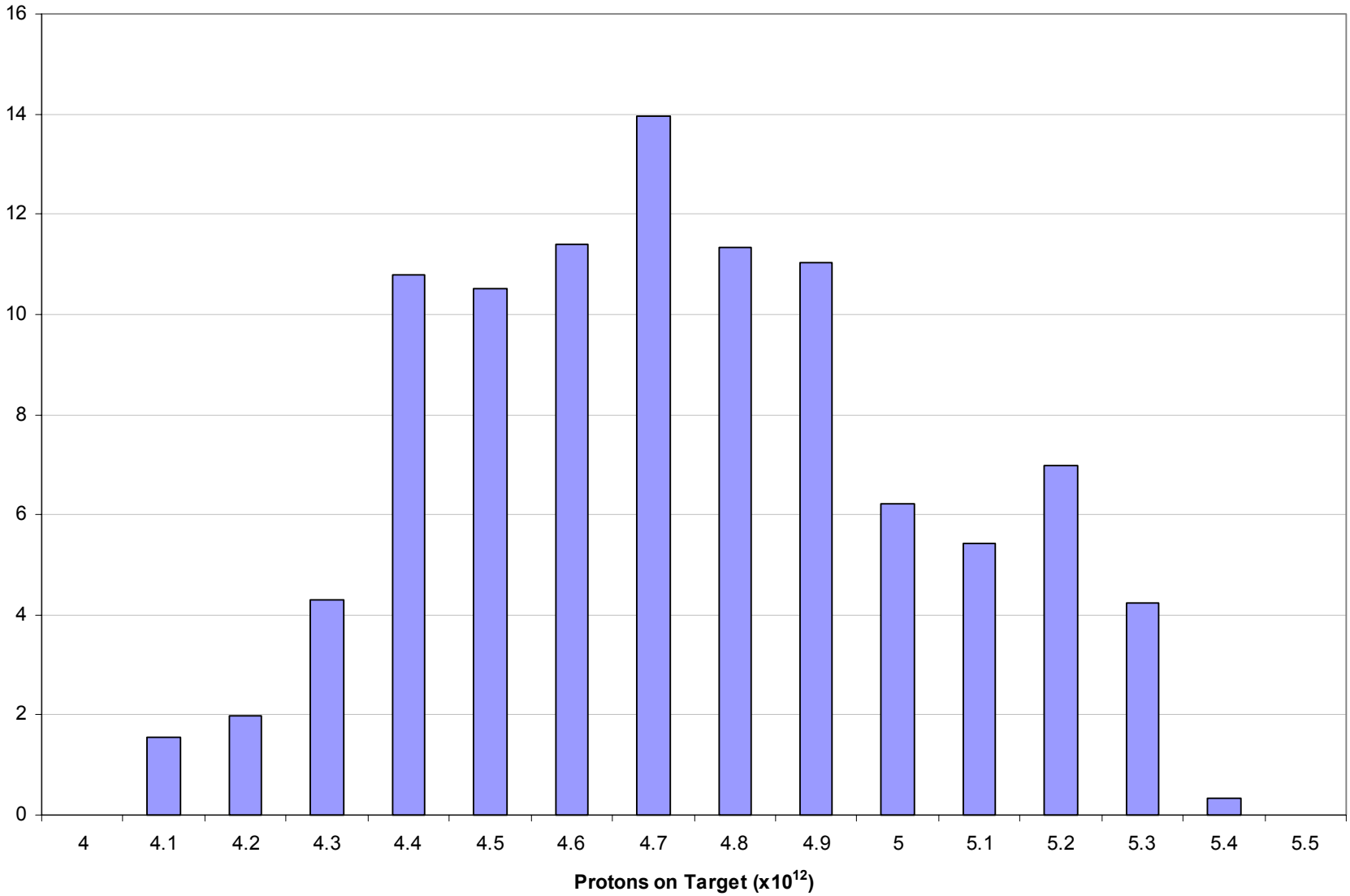
Antiproton Production Stack Rate and Cycle Time



Antiproton Stacking Rate at Different Stack Sizes



Antiproton Production Efficiency



Protons on the Antiproton Target