

FOR 274: Forest Measurements and Inventory Lab #7

For each of the two plots select a suitable plot size and measure:

1. Trees per acre (N)
2. Diameter at Breast Height
3. Stand Density Index: $SDI = N(D_q/10)^{1.065}$ (The calculation of D_q is given below)

Discuss the difference you observe between trees per acre and SDI.

PLOT 1	Species code	DBH (in)	DBH²	PLOT 2	Species code	DBH (in)	DBH²
1				1			
2				2			
3				3			
4				4			
5				5			
6				6			
7				7			
8				8			
9				9			
10				10			
11				11			
12				12			
13				13			
14				14			
15				15			
16				16			
17				17			
18				18			
19				19			
20				20			
21				21			
22				22			
23				23			
24				24			
25				25			
26				26			
27				27			
28				28			
29				29			
30				30			
	Sum of DBH²				Sum of DBH²		
	N = Stems per acre				N = Stems per acre		
	Sum of DBH²/N				Sum of DBH²/N		
	$D_q = \sqrt{(\text{Sum of DBH}^2/N)}$				$D_q = \sqrt{(\text{Sum of DBH}^2/N)}$		

