

Tables for Determining Plant Populations

Table 1. Length of row to equal 1/1,000th and 10,000th of an acre for various row widths.

Row width (inches)	Row Length for 1/1,000 th acre	Row Length for 1/10,000 th acre
30	17 feet, 5 inches	1 foot, 9 inches
20	26 feet, 2 inches	2 feet, 7 inches
15	34 feet, 10 inches	3 feet, 6 inches
10	52 feet, 3 inches	5 feet, 3 inches
7	74 feet, 9 inches	7 feet, 6 inches

Table 2. Plant populations for various row spacings based on the number of plants per foot.

Plants/foot of row	Plants per acre				
	Row width (inches)				
	30	20	15	10	7
1	17,400	26,100	34,800	52,300	74,700
2	34,800	52,300	69,700	104,500	149,300
3	52,300	78,400	104,500	156,800	224,000
4	69,700	104,500	139,400	209,100	
5	87,100	130,700	174,200		
6	104,500	156,800	209,100		
7	122,000	183,000			
8	139,400	209,100			
9	156,800				
10	174,200				
11	191,700				
12	209,100				

Table 3. Plant populations for various hoop diameters and a square yard based on the number of plants.

Plants counted	Plants per acre						Square yard	Your custom hoop
	Inside diameter of hoop (inches)							
	38	36	34	32	30			
10	55,000	62,000	69,000	78,000	89,000	48,000		
12	66,000	74,000	83,000	94,000	107,000	58,000		
14	77,000	86,000	97,000	109,000	124,000	68,000		
16	89,000	99,000	110,000	125,000	142,000	77,000		
18	100,000	111,000	125,000	140,000	160,000	87,000		
20	111,000	123,000	138,000	156,000	178,000	97,000		
22	122,000	136,000	152,000	172,000	196,000	106,000		
24	133,000	148,000	166,000	187,000	213,000	116,000		
26	144,000	160,000	179,000	203,000		126,000		
28	155,000	173,000	193,000			136,000		
30	166,000	185,000	207,000			145,000		
32	177,000	197,000				155,000		
34	188,000	209,000				165,000		
36	199,000					174,000		
38	210,000					184,000		
40						193,000		
42						203,000		

Population for "Your custom hoop" = plants counted / (3.14 * hoop radius * hoop radius / 43,500)