

POPULATION OR SEED DROP PER ACRE

This table can be used for all crops to determine plant population or seed drop per acre. Simply follow these easy steps.

- (1) Find average row width, in inches (top line).
- (2) Either determine average spacing between seed (or plants), in inches, (left column)
OR determine average number of seeds (or plants) per 50-foot row length (right column).
- (3) Read seed drop (or plants) per acre from table (intersection of line and column).

Example (Seed Drop): You want to drop 29,000 corn kernels per acre and are using 36-inch rows. Find "36" in the top line, read down to "29", read across to "6" in the left column. Seeds should be spaced 6 inches apart.

Example (Seed Drop): In checking behind your drill with 15-inch row spacing, you determine that the seeds average 3 inches apart. Read down the left column to "3", read across in the "15" column, where the column and line intersect read "139". You are planting approximately 139,000 seeds per acre.

Example (Plant Population): You make several stand counts and calculate an average of 55 plants per 50 feet of row. The rows are 30 inches apart. Read down the right column to "55", read across to the "30" column, where the column and line intersect read "19." The plant population is approximately 19,000 per acre.

AVG. PLANT OR SEED SPACING (INCHES) ***	ROW WIDTH (INCHES)									AVG. PLANTS OR SEEDS PER 50-FOOT ROW**
	7	10	15	20	28	30	36	38	40	
	PLANTS OR SEEDS PER ACRE, IN THOUSANDS*									
1	896	627	418	314	224	209	174	165	157	600
2	448	314	209	157	112	105	87	83	78	300
3	299	209	139	105	75	70	58	55	52	200
4	224	157	105	78	56	52	44	41	39	150
5	179	125	84	63	45	42	35	33	31	120
6	149	105	70	52	37	35	29	28	26	100
7	128	90	60	45	32	30	25	24	22	86
9	100	70	46	35	25	23	19	18	17	67
11	81	57	38	29	20	19	16	15	14	55
12	75	52	35	26	19	17	15	14	13	50
15	60	42	28	21	15	14	12	11	10	40

For other situations not shown, use these formulas:

*Plants or seed/acre (thousands) = (number seeds or plants/50-foot row x 10.45) ÷ row width (inches)

**Plants or seed/acre (thousands) = (6,273 ÷ row width [inches]) ÷ average kernel spacing (inches)

** Seed or plants/50-foot row = seeding rate/acre ÷ (10.45 ÷ row width [inches])

***Avg. kernel spacing (inches) = (6,273 ÷ row width [inches]) ÷ plants or seed/acre

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SEED PLANTING GUIDE

KIND OF SEED	LBS/ACRE	LBS/BU.	SEEDING DEPTH	PLANTING DATE
Alfalfa (Drilled)	15-20 60	1/2	April 1 to Sept. 1	April-Sept. 1
Alsike Clover	6-8	60	1/2	April 1 to May 1
Barley	90-110	48	2	April to June
Berseem	10-12		1/2	April to May
Birdsfoot Trefoil	3-5	60	1/2	April 1 to May 1
Bluestem, Big & Little	6-10		1/2	May to June 15
Bluegrass (Pasture)	20-30	14	1/4	Spring/Summer/Fall
Bluegrass (Lawns)	4lbs./1000 sq.ft.		1/4	Spring & Fall
Bromegrass	15-25	14	1/2	Spring & Fall
Buckwheat	40	48	1/2 - 3/4	June 15 - July 15
Canarygrass (Reed)	5-10	44	1/2	Spring & Fall
Chicory	2-5	60	1/2	August & September
Fescue (Meadow)	20-25	24	1/2	Spring
Fescue (Tail)	15-25	24	1/2	Spring & Fall
Fescue (Creeping Red)	4lbs./1000 sq.ft.	24	1/4	Spring & Fall
Field Peas	100	60	1-2	Spring & Fall
Flax	42-56	56	2	April to May
Forage Peas	100	60	1-2	Spring & Fall
Garrison Creeping Foxtail	3-5		1/2	Spring
Green Needlegrass	6-8		1/2	Spring
Ladino Clover	3-5	60	1/2	April to June
Lawn Mix	4lbs./1000 sq. ft.	18	1/4	Spring & Fall
Lola Festulium	25-35		1/4	Spring & Fall
Mammoth Red Clover	6-12	60	1/2	April to May
Millet, Hay (Foxtail)	15-20	50	1	May to July
Millet, Grain (Proso)	20-30	56	1	May to July
Milo	8-10	56	1	May to July
Oats	64-96	32	1	March to April
Orchardgrass	15-20	14	1/2	Spring & Fall
Orchard Mix	75		1/2	June

KIND OF SEED	LBS/ACRE	LBS/BU.	SEEDING DEPTH	PLANTING DATE
Pasture Mixes	20-25		1/2	Spring & Fall
Radishes	2-4	50	1/2	May to Sept.
Rape (Dwarf Essex)	5-8	50	1	April to Aug.
Red Clover - Medium	6-12	60	1/2	April to May
Red Top	6-10	32	1/2	April
Russian Wildrye	10-12		1/2	April
Rye (Grain)	56-84	56	2	September
Ryegrass (Ann/Per)	30-40	24	1/2	Spring & Fall
Sunflowers	3-5	24	1	May to June
Side Oats Grama	8-10		1/2	June to Aug.
Sorghum Sudan (Rows) (Broadcast)	10-12 20-30	56	1	May to July
Sudangrass	20-30	40	1	May to July
Sun Hemp	15-25		1/4 - 1/2	July - Sept.
Sweet Clover	6-10	60	1/2	April & May
Switchgrass	6-8		1/2	May to June
Teff Grass	3-8		1/2	June
Timothy	8-15	45	1/2	April to Sept.
Triticale	80-110	56	1	Spring & Fall
Turnip - Purple Top	3	60	1/2	May - Sept.
Wheatgrass, Oahe Int.	10-15	20	1/2	Spring & Fall
Wheat (Winter)	60-75	60	1-1/2	September

CALCULATIONS

Use your calculator and these formulas to quickly figure exact acreage, yields and storage capacity.

ACREAGE

Corn, Soybeans & Sorghum (row length, ft.) x (row width, in.) x (no. or rows) ÷ 522,720 = acres
 Wheat (row length, ft.) x (width of harvest strip, ft.) ÷ 43,560 = acres

YIELD

Corn-Grain (100 - harvest moisture) x (lbs. grain harvested) x (110.465) ÷ (row length, ft.)
 ÷ (row width, in.) ÷ (no. rows harvested) = bu./A. of corn at 15.5% moisture
 Corn-Silage (100 - actual %p silage moisture) x (green wt. silage, lbs./A.) ÷ (30) = lbs./A. of silage adjusted to 70% moisture
 Soybeans (100 - harvest moisture) x (lbs. grain harvested) x (100.138) ÷ (row length, ft.)
 ÷ (row width, in.) ÷ (no. rows harvested) = bu./A. of soybeans at 13% moisture
 Sorghum (100 - harvest moisture) x (lbs. grain harvested) x (6078.14) ÷ (row length, ft.)
 ÷ (row width, in.) ÷ (no. rows harvested) = lbs./A. of sorghum at 14% moisture

STORAGE CAPACITY

Corn, Soybeans & Sorghum
 Round bin: (bin diameter, ft.) x (bin diameter, ft.) x (depth, ft.) x (.6283) = bu. stored
 Rectangular storage: (width, ft.) x (length, ft.) x (depth, ft.) x (.8) = bu. stored

TAKING STAND COUNTS IN SOLID-SEEDED SOYBEANS

Roll a hula hoop, let it fall, and count the number of plants inside the hoop. Repeat at least eight times at random locations in the field. Multiply the average of all counts taken by the factor below to determine the approximate population per acre.

Hoop Diameter	30"	32"	34"	36"	38"
Multiply by	8,900	7,800	6,900	6,200	5,500

ROW WIDTH	DESIRED SEEDS PER ACRE (X1000)					
	100	125	150	175	200	225
	SEEDS PER FOOT OF ROW					
40"	7.7	9.6	11.5	13.4	15.3	17.2
38"	7.3	9.1	10.9	12.7	14.5	16.4
36"	6.9	8.6	10.3	12.1	13.8	15.5
30"	5.7	7.2	8.6	10.0	11.5	12.9
22"	4.2	5.3	6.3	7.4	8.4	9.5
20"	3.8	4.8	5.7	6.7	7.7	8.6
15"	2.9	3.6	4.3	5.0	5.7	6.5
12"	2.3	2.9	3.4	4.0	4.6	5.2
10"	1.9	2.4	2.9	3.3	3.8	4.3
7.5"	1.4	1.8	2.2	2.5	2.9	3.2
6"	1.2	1.4	1.7	2.0	2.3	2.6

WEIGHTS & MEASURES

WEIGHT

1 metric ton = 2305 pounds
 1 short ton = 2300 pounds
 1 pound = 16 ounces
 1 gram = .035 ounce
 1 kilogram = 2.2046 pounds

LINEAR MEASURE (LENGTH)

1 mile = 5280 feet or 320 rods
 1 rod = 16.5 feet, 1.5 yards
 1 inch = 2.54 centimeters
 1 meter = 39.37 inches
 1 kilometer = 0.62 miles

SQUARE MEASURE (AREA)

1 acre = 160 sq/ rods or
 43,560 square feet
 1 hectare = 2.47 acres
 1 sq. rod = 30.25 square yards
 1 sq. yard = 9 sq. feet
 1 sq. foot = 144 sq. inches

CUBIC MEASURES (VOLUME)

1 cubic yard = 27 cubic feet
 1 cubic foot = 1728 cubic inches
 1 acre inch = 3630 cubic feet
 or 27,154 gallons
 1 cubic pint = 7.48 gallons or
 62.4 pounds of water
 1 gallon = 8.345 pounds of water
 27 cubic ft = 1 cubic yard

DRY MEASURE

1 bushel = 4 pecks
 1 peck = 8 quarts
 1 quart = 2 pints

LIQUID MEASURE

1 gallon = 4 quarts
 1 quart = 2 pints
 1 pint = 16 fluid ounces
 or 2 cups
 1 liter = 1.06 quarts