2024 HYBRID PLANTING RATES & FUNGICIDE RESPONSE

PRODUCT	PLANTING POPULATION & OPTIMUM EAR SIZE BY YIELD GOAL (BU/A)						FUNGICIDE USE	EARLY VIGOR	CORN ON CORN
	< 180		180 - 240		> 240				
Power Plus® 9L82 Q™*	26 - 29	0.35	29 - 36	0.37	34 - 38	0.40			
Power Plus® 1K18 Q™*	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38			
Power Plus® 2W400 Q™*	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40			
Power Plus® 2J67 Q™*	26 - 30	0.34	30 - 37	0.36	34 - 39	0.39			
Power Plus® 3W97 Q™*	26 - 30	0.34	30 - 37	0.36	36 - 39	0.37			
Power Plus® 4C16 Q™*	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41			
Power Plus® 4R56 Q™*	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41			
Power Plus® 5F17 Q™*	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40			
Burrus 6A38 SS	Not Advised		29 - 36	0.37	34 - 39	0.39			
Power Plus® 6B86 Q™*	26 - 27	0.38	27 - 34	0.40	32 - 36	0.42			
Power Plus® 6M89 Q™*	26 - 29	0.35	28 - 35	0.38	32 - 36	0.42			
Burrus 7T27 SSP	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41			
Burrus 7N88 SS	26 - 28	0.36	28 - 35	0.38	34 - 38	0.40			
Burrus 9Q22 TRE	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41			
Power Plus® 1K12AM™*	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38			*
Power Plus® 1U41AM™*	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38			
Power Plus® 2Y06AM™*	26 - 27	0.38	28 - 35	0.38	34 - 38	0.40			
Power Plus® 3G31AM™*	26 - 27	0.38	27 - 34	0.39	32 - 36	0.42			
Power Plus® 3V14AM™*	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40			
Power Plus® 4C14AM™*	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41			
Power Plus® 5L44AM™*	26 - 27	0.38	28 - 35	0.38	34 - 39	0.39			
Power Plus® 5J21AM™*	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40			
Burrus 5A84 VT2P	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40			
Power Plus® 5U63AM™*	26 - 29	0.35	29 - 36	0.37	35 - 39	0.38			
Burrus 6K13 V	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41			
Power Plus® 6J92AM™*	Not Advised		27 - 34	0.40	31 - 34	0.44			
Power Plus® 6W81AM™*	26 - 27	0.38	27 - 34	0.40	31 - 34	0.44			
Burrus 6Y61 DG VT2P	26 - 29	0.35	29 - 36	0.37	35 - 39	0.38			*
Burrus 7G44 V	26 - 28	0.36	28 - 35	0.38	33 - 37	0.41			*
Burrus 7F33 VT2P	26 - 29	0.35	29 - 36	0.37	34 - 39	0.39			
Burrus 7P71 VT2P	26 - 29	0.35	29 - 36	0.37	34 - 39	0.39			
Burrus 8A12 VT2P	26 - 29	0.35	27 - 34	0.39	32 - 36	0.42			*
Power Plus® 2Y10™*	26 - 28	0.36	28 - 35	0.38	34 - 38	0.40			
Power Plus® 4R40™*	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41			*
Power Plus® 6H80™*	26 - 29	0.35	27 - 34	0.39	34 - 38	0.40			
Burrus 6V90	26 - 29	0.35	27 - 34	0.39	33 - 37	0.41			

= Excellent = Good = Suitable = Not Suitable

* manage CRW with soil applied insecticide

Optimum Ear Size

The optimum ear size (OES) will vary by product and by environment. Specific populations can be calculated using the following formula:

Yield goal (bu/a) x 56 ÷ OES = Recommended population

The chart can also be used after stand establishment as an initial yield potential forecast using the following formula:

Net effective stand (NES) x OES ÷ 56 = Yield potential (bu/a)

Net Effective Stand

Net effective stand (NES) is the actual equivalent of fully productive plants, given that usually not all plants are fully productive. Plants that are not fully productive can be determined by the time the stand is at 3 leaves.

Process:

1. Measure off 1/1,000 of an acre
2. Count the number of plants
3. Flag abnormal plants using the following deductions:
   - Double planted plants 0.5 pt. deduction for each plant
   - Late-emerging plants 0.5 pt. deduction (1-leaf behind)
   - Late-emerging plants 1 pt. deduction (2-leaves or greater behind)
4. Use the following formula to capture NES:

   Total plant # - NES deductions

5. Repeat multiple places throughout a field for an average

Measuring 1/1,000 of an Acre

1/1,000 Acre	Row Width
34’ 10”	15”
26’ 2”	20”
23’ 9”	22”
18’ 8”	28”
17’ 5”	30”
14’ 6”	36”
13’ 9”	38”
13’ 1”	40”