

**NDSU Langdon Research Extension Center
2017 Faba Bean Seeding Rate Trial**

Faba Bean - 2017

Langdon

Variety/ Seeding Rate (seeds/ft ²)	Emergence (DAP ¹)	Plant		Days to 1st Flower (DAP ¹)	Days to End Flower (DAP ¹)	Days to Mature (DAP ¹)	Plant Ht (in)	Pod Ht (in)	1000 KWT (g)	Protein (%)	Test Weight (lb/bu)	Yield (bu/a)	2 yr Avg. Yield (bu/a)
		Stand Seedling (ft ²)	Stalks Harvest (ft ²)										
Tabasco-3	19.3	2.5	3.6	52.8	78.0	124.0	47.5	13.7	405	21.6	63.2	81.2	76.6
Tabasco-4	19.0	3.8	4.3	52.3	77.8	121.8	50.1	15.6	396	20.9	63.1	88.2	86.9
Tabasco-5	19.0	5.3	4.9	52.8	78.0	123.5	48.4	16.3	415	21.7	63.5	96.1	89.8
Tabasco-6	18.8	5.3	6.4	52.8	77.8	123.3	48.3	16.1	398	22.3	63.1	97.3	92.8
Boxer-3	19.5	3.9	3.8	52.0	78.3	124.5	52.1	14.8	540	24.9	63.9	108.3	102.0
Boxer-4	19.0	3.8	5.1	51.3	78.3	123.0	53.4	17.1	537	24.3	63.8	114.4	105.8
Boxer-5	19.0	4.8	5.5	51.3	78.0	122.8	55.1	15.5	511	24.8	64.3	121.6	108.8
Boxer-6	18.3	6.5	6.3	51.3	78.0	121.5	55.1	16.6	521	24.4	64.0	125.9	114.5
Mean	19.0	4.5	5.0	52.0	78.0	123.0	51.3	15.7	465	23.1	63.6	104.1	
C.V. %	2.1	22.5	16.2	1.6	0.6	1.1	5.5	9.8	4.7	3.1	0.7	5.7	
LSD 5%	0.6	1.5	1.2	1.2	NS	NS	4.2	NS	51.8	1.1	0.6	8.8	
LSD 10%	0.5	1.2	1.0	1.0	NS	1.6	3.5	NS	41.5	0.9	0.5	7.3	

¹DAP-Days after planting

NS-No statistical difference between treatments.

Protein adjusted to 16% moisture.

Planting Date: May 9

Harvest Date: September 29

Row Spacing: 6 inches

Previous Crop: Durum Wheat

Tillage: Conventional

Soil Type: Svea Barnes loam

Faba Beans are a long-maturing, cool season, annual legume that grow best under moist conditions. The current recommended seeding rate for Faba Beans is 4 seeds per square foot. Faba Beans have very large seeds often requiring a seeding rate of 3-4 bushels per acre, depending on the seed size. The research objective of this trial was to help determine the optimum seeding rate for our region. The lowest seeding rate had the lowest yield for both varieties. There were no significant differences in yield between the seeding rates 4 and 5 or 5 and 6 seeds/ft² for the varieties Boxer and Tabasco. The 2 year average indicated yield increasing numerically as seeding rates increased for both varieties. Most of the other significant differences between agronomic traits occurred between varieties.