

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

Faba Bean - 2017													Langdon
Variety/ Seeding Date	Emergence	Plant		Days to 1st Flower	Days to End Flower	Days to Mature	Plant Ht	Pod Ht 1st Pod	1000 KWT	Protein	Test Weight	Yield	2 yr Avg. Yield
		Stand Seedling	Stalks Harvest										
Tabasco	(DAP ¹)	(ft ²)	(ft ²)	(DAP ¹)	(DAP ¹)	(DAP ¹)	(in)	(in)	(g)	(%)	(lb/bu)	(bu/a)	(bu/a)
May 9	19.8	3.2	3.8	54	78	123	49	17	427	22.2	63.7	94.9	81.4
May 20	16.2	3.3	3.7	48	74	116	45	15	429	22.2	63.4	85.6	80.2
May 30	10.5	4.0	5.1	41	77	127	53	17	418	23.6	65.1	71.9	71.9
June 9	9.5	3.3	5.2	42	75	136	58	16	406	22.5	64.0	68.0	56.2
Boxer													
May 9	19.2	4.6	4.5	52	78	122	51	16	507	24.4	63.8	125.3	106.4
May 20	16.0	4.7	4.6	46	74	116	48	17	558	24.9	64.4	117.3	107.4
May 30	10.5	4.8	5.4	39	77	127	62	20	521	25.9	65.3	75.7	77.0
June 9	8.2	4.7	5.8	41	76	136	58	20	482	24.6	61.6	65.5	57.6
Mean	13.8	4.1	4.3	45	76	125	53	17	468	23.8	0.6	88.0	
C.V. %	3.1	22.8	8.8	1.0	0.7	2.2	6.8	7.8	2.2	0.9	0.2	5.4	
LSD 5%	--	--	--	0.4 ²	--	--	--	2.1 ²	--	--	0.6 ²	7.4 ²	

Variety means averaged over seeding dates

Tabasco	14.0	3.4	4.4	46	76	125	51	16	420	22.6	64.0	80.1	72.4
Boxer	13.5	4.7	5.1	45	76	125	55	18	517	24.9	63.8	95.9	87.1
LSD 5%	0.3	4.1	4.3		0.4		2.8		14.2	0.4			

Seeding Date means averaged over varieties

May 9	19.5	3.9	4.1	53	78	122	50	16	467	23.3	63.7	110.1	93.9
May 20	16.1	4.0	4.2	47	74	116	47	16	493	23.5	63.9	101.4	93.8
May 30	10.5	4.4	5.3	40	77	127	52	19	469	24.8	65.2	76.8	76.0
June 9	8.9	4.0	5.5	41	76	136	58	18	444	23.6	62.8	66.7	56.9
LSD 5%	0.7	NS	1.0		0.9	1.2	7.2		25.9	0.8			

¹DAP-Days after planting. ²Use to compare means within each variety.

Harvest Date: For May 9 and 20 seeding dates - Sept. 29. For May 30 and June 9 seeding dates - Oct. 20.

Row Spacing: 6 inches, Previous Crop: Durum Wheat, Tillage: Conventional, Protein: Adjusted to 16% moisture.

Experimental Design: Split-Plot, A (--) in the LSD box indicates there was no significant interaction between seeding rate and date and

LSD's were calculated for variety and seeding date means averaged over treatment effect.

Faba Beans are a long-maturing, cool season, annual legume that grow best under moist conditions which need to be planted early to obtain higher yields. The objective of this trial was to determine the optimum seeding date for our region. Differences occurred between the two varieties for many agronomic traits. Both varieties responded similarly to seeding date for most agronomic traits and this resulted in few variety x date interactions. Boxer had a higher yield at the May 9 and 20 seeding date but had similar yields to Tabasco at the May 30 and June 6 planting dates. The two year average indicates the first two planting dates have the greatest yield potential.