Faba Bean Seeding Rate Trial at Minot

Variety	Seeding Rate	Seedling Emergence	Seedling Stand	Harvest Stand	Days to 10% Blm	Days to 90% Blm	Days to Mature	Plant Height	Lodging	Height of 1st Pod	Grain Protein	Test Weight	1000 KWT	Seed Yield
	Seeds/sq ft	DAP[1]	# / sq ft	# / sq ft	DAP[1]	DAP[1]	DAP[1]	inches	0-9[2]	inches	%	lbs/bu	g	lbs/A
Tabasco	3	13	4.1	3.7	45	75	102	30	1	10	23.5	61.4	401	3816
Tabasco	4	13	5.3	3.6	45	74	104	32	0	8	22.9	60.4	395	2857
Tabasco	5	13	4.9	3.6	44	73	100	33	1	8	23.6	60.1	370	3437
Tabasco	6	13	6.6	4.2	45	73	107	32	1	9	22.3	60.4	426	3994
Boxer	3	13	3.9	4.2	42	75	100	37	1	10	25.7	59.7	470	6198
Boxer	4	13	5.3	4.4	41	73	102	36	0	13	25.8	60.3	493	5644
Boxer	5	13	6.1	4.1	41	73	102	38	1	15	25.8	59.5	480	7183
Boxer	6	13	6.2	5.0	41	73	103	37	0	14	25.6	60.1	489	5819
Trial Mean			5.3	4.1	43	74	102	34	1	11	24.4	60.2	441	4868
C.V.%			18.5	18.6	1.3	1.1	2.0	2.9	69	20.9	3.6	1.2	3.5	5.3
LSD 5%			1.7	NS	1	1	4	2	NS	4	1.6	NS	27	451
LSD 10%			1.1	NS	1	1	3	1	NS	3	1.3	NS	22	370

Combined Means

Seeding Rate	Seedling Emergence	Seedling Stand	Harvest Stand	Days to 10% Blm	Days to 90% Blm	Days to Mature	Plant Height	Lodging	Height of 1st Pod	Grain Protein	Test Weight	1000 KWT	Seed Yield
Seeds/sq ft	DAP[1]	# / sq ft	# / sq ft	DAP[1]	DAP[1]	DAP[1]	inches	0-9[2]	inches	%	lbs/bu	g	lbs/A
3	13	4.0	4.0	43	75	101	34	1	10	24.6	60.5	436	5007
4	13	5.3	4.0	43	74	103	34	0	10	24.4	60.4	444	4250
5	13	5.5	3.9	43	73	101	35	1	12	24.7	59.8	425	5310
6	13	6.4	4.6	43	73	105	34	1	11	23.9	60.3	457	4906
LSD 5%	NS	1.1	NS	NS	1	3	NS	NS	NS	NS	NS	NS	NS

[1] DAP = Days after planting. *[2] Lodging: 0 = none, 9 = lying flat on the ground.* *NS = no statistical difference between treatments.*

Planting Date: May 6 *Harvest Date: August 31* *Row Spacing: 7.5"*

Previous Crop: Spring wheat *Tillage: Minimum Till* *Soil Type: Williams Loam*

Note: Grain protein, test weight and seed yield have been adjusted to 16% moisture.

Summary: Faba beans are large seeded crop, requiring a large volume of seed to be planted, thus restricting the planting speed and number of acres that can be planted in a day. Results of this trial would indicate that higher seeding rates do not have a direct impact on seed yields. Small but statistically significant interactions between seeding rates and the number of days to the end of flowering and days to mature were observed.