Ariety/ Plant Stand Days to 1st Days to 5 for 6 nd Days to 5 for 6 nd Pod to Pod Plant Ht 1000 Test Seeding Date Emergence Seedling Harvest Flower Flower Mature Ht 1st Pod Lodging ³ KWT Protein Weight Yield rabasco (DAP ³) (ft ²) (ft ²) (DAP ³) (DAP ¹) (in) (in) </th <th colspan="14">2016 Faba Bean Seeding Date Trial</th>	2016 Faba Bean Seeding Date Trial													
Mariety/ Plant Stand to ist to ist <tht< th=""><th>Faba Bean - 20</th><th>)16</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Langdon</th></tht<>	Faba Bean - 20)16												Langdon
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Variety/				to 1st	to End	to		Ht	2				
May 3 18 3.9 4.5 50 72 116 51 14 4.2 455 21.3 62.5 4074 May 13 13 4.9 4.5 46 67 113 54 14 5.2 487 22.1 63.1 4496 May 23 11 3.8 4.5 44 66 110 48 16 6.2 416 21.9 62.8 4321 une 6 9 4.2 5.0 40 73 115 56 20 4.0 415 20.6 60.0 2660 Joxer May 3 19 4.2 3.9 49 71 116 55 15 2.5 558 24.0 63.6 5250 May 13 13 4.6 4.6 44 65 113 57 16 4.0 595 23.6 63.0 5849 14 498 14 4.9 4.9 14 4.9 4.1 4.9 4.1 4.9 4.1 4.9 4.1 4.9 4.1	Seeding Date	Emergence	Seedling	Harvest	Flower	Flower	Mature	Ht	1st Pod	Lodging ³	KWT	Protein	Weight	Yield
Nay 13 13 4.9 4.5 46 67 113 54 14 5.2 487 22.1 63.1 4496 May 23 11 3.8 4.5 44 66 110 48 16 6.2 416 21.9 62.8 4321 une 6 9 4.2 5.0 40 73 115 56 20 4.0 415 20.6 60.0 26.6 Boxer	<u>Tabasco</u>	(DAP ¹)	(ft ²)	(ft ²)	(DAP ¹)	(DAP ¹)	(DAP ¹)	(in)	(in)	(0-9)	(g)	(%)	(lbs/bu)	(lbs/a)
May 23 11 3.8 4.5 44 66 110 48 16 6.2 416 21.9 62.8 4321 une 6 9 4.2 5.0 40 73 115 56 20 4.0 415 20.6 60.0 2660 30xer	May 3	18	3.9	4.5	50	72	116	51	14	4.2	455	21.3	62.5	4074
une 6 9 4.2 5.0 40 73 115 56 20 4.0 415 20.6 60.0 2660 Boxer May 3 19 4.2 3.9 49 71 116 55 15 2.5 558 24.0 63.6 5250 May 13 13 4.6 4.6 44 65 113 57 16 4.0 595 23.6 63.0 5842 May 23 11 3.3 4.5 43 67 109 55 17 4.5 550 24.4 63.1 4698 Mean 13 4.0 4.5 44 69 113 54 20 4.2 505 22.7 62.2 4.2 505 22.7 62.2 4.2 505 22.7 62.2 4.2 4.2 505 22.7 62.2 4.2 4292 C.V. % 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 SD 5% </td <td>May 13</td> <td>13</td> <td>4.9</td> <td>4.5</td> <td>46</td> <td>67</td> <td>113</td> <td>54</td> <td>14</td> <td>5.2</td> <td>487</td> <td>22.1</td> <td>63.1</td> <td>4496</td>	May 13	13	4.9	4.5	46	67	113	54	14	5.2	487	22.1	63.1	4496
Boxer May 3 19 4.2 3.9 49 71 116 55 15 2.5 558 24.0 63.6 5250 May 13 13 4.6 4.6 44 65 113 57 16 4.0 595 23.6 63.0 5845 May 23 11 3.3 4.5 43 67 109 55 17 4.5 550 24.4 63.1 4696 une 6 10 3.0 4.6 38 69 113 54 20 4.2 505 22.7 62.2 4292 C.V. % 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 SD 5% 0.5 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS </td <td>May 23</td> <td>11</td> <td>3.8</td> <td>4.5</td> <td>44</td> <td>66</td> <td>110</td> <td>48</td> <td>16</td> <td>6.2</td> <td>416</td> <td>21.9</td> <td>62.8</td> <td>4321</td>	May 23	11	3.8	4.5	44	66	110	48	16	6.2	416	21.9	62.8	4321
May 3 19 4.2 3.9 49 71 116 55 15 2.5 558 24.0 63.6 5250 May 13 13 4.6 4.6 44 65 113 57 16 4.0 595 23.6 63.0 5849 May 23 11 3.3 4.5 43 67 109 55 17 4.5 550 24.4 63.1 4698 une 6 10 3.0 4.6 38 69 115 59 22 2.8 563 23.4 59.4 2988 Mean 13 4.0 4.5 44 69 113 54 20 4.2 505 22.7 62.2 4292 C.V. % 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 SD 10% 0.6 NS <td>June 6</td> <td>9</td> <td>4.2</td> <td>5.0</td> <td>40</td> <td>73</td> <td>115</td> <td>56</td> <td>20</td> <td>4.0</td> <td>415</td> <td>20.6</td> <td>60.0</td> <td>2660</td>	June 6	9	4.2	5.0	40	73	115	56	20	4.0	415	20.6	60.0	2660
May 13134.64.6446511357164.059523.663.05849May 23113.34.5436710955174.555024.463.14698une 6103.04.6386911559222.856323.459.42985Mean134.04.5446911354204.250522.762.24292C.V. %2.58.923.93.63.41.03.96.313.00.92.03.95.8SD 5%0.5NS384///////////////////////////////////	<u>Boxer</u>													
May 23 11 3.3 4.5 43 67 109 55 17 4.5 550 24.4 63.1 4698 une 6 10 3.0 4.6 38 69 115 59 22 2.8 563 23.4 59.4 2985 Mean 13 4.0 4.5 44 69 113 54 20 4.2 505 22.7 62.2 4292 C.V. % 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 SD 5% 0.5 NS	May 3	19	4.2	3.9	49	71	116	55	15	2.5	558	24.0	63.6	5250
nune 6 10 3.0 4.6 38 69 115 59 22 2.8 563 23.4 59.4 2985 Mean 13 4.0 4.5 44 69 113 54 20 4.2 505 22.7 62.2 4292 C.V. % 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 S.D 5% 0.5 NS 315 S.D 10% 0.6 NS 315 S.D 10% 0.6 NS 384 //ariety means averaged over seeding dates 20 113 52 16 4.9 443 21.5 62.1 3888 30xer 13 4.2 4.6 45 69 113 57 18 3.4 566	May 13	13	4.6	4.6	44	65	113	57	16	4.0	595	23.6	63.0	5849
Mean 13 4.0 4.5 44 69 113 54 20 4.2 505 22.7 62.2 4292 C.V.% 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 S.D 5% 0.5 NS 315 S.D 10% 0.6 NS 315 S.D 10% 0.6 NS 384 /ariety means averaged over seeding dates E E E E E E Fabasco 13 4.2 4.6 45 69 113 57 18 3.4 566 23.8 62.1 3888 Boxer 13 3.8 4.4 43 68 113 57 18 3.4 566 23.8 62.3 <td>May 23</td> <td>11</td> <td>3.3</td> <td>4.5</td> <td>43</td> <td>67</td> <td>109</td> <td>55</td> <td>17</td> <td>4.5</td> <td>550</td> <td>24.4</td> <td>63.1</td> <td>4698</td>	May 23	11	3.3	4.5	43	67	109	55	17	4.5	550	24.4	63.1	4698
C.V.% 2.5 8.9 23.9 3.6 3.4 1.0 3.9 6.3 13.0 0.9 2.0 3.9 5.8 SD 5% 0.5 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS 384 /ariety means averaged over seeding dates 384 /ariety means averaged over seeding date means averaged over varieties NS 1.7 1.0 0.4 15.1 0.4 NS 192 Seeding date means averaged over varieties 116 53 15 3.4 507 22.7 </td <td>June 6</td> <td>10</td> <td>3.0</td> <td>4.6</td> <td>38</td> <td>69</td> <td>115</td> <td>59</td> <td>22</td> <td>2.8</td> <td>563</td> <td>23.4</td> <td>59.4</td> <td>2989</td>	June 6	10	3.0	4.6	38	69	115	59	22	2.8	563	23.4	59.4	2989
SD 5% 0.5 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS 315 SD 10% 0.6 NS 315 Tabasco 13 4.2 4.6 45 69 113 57 18 3.4 566 23.8 62.1 388 Boxer 13 3.8 4.4 43 68 113 57 18 3.4 566 23.8 62.3 4697 Sobeding date means averaged over varietis NS 1.2 N	Mean	13	4.0	4.5	44	69	113	54	20	4.2	505	22.7	62.2	4292
SD 10%0.6NS384Variety means averaged over seeding datesTabasco134.24.6456911352164.944321.562.13888Boxer133.84.4436811357183.456623.862.34697SD 5%0.30.3NS1.2NSNS1.71.00.415.10.4NS192Seeding date means averaged over varietiesWay 3184.14.2497111653153.450722.763.04662Way 13134.74.6456611355154.654122.863.05172Way 23113.64.5436610951175.448323.163.04510une 693.64.8397111557213.448922.059.72825	C.V. %	2.5	8.9	23.9	3.6	3.4	1.0	3.9	6.3	13.0	0.9	2.0	3.9	5.8
Variety means averaged over seeding dates Tabasco 13 4.2 4.6 45 69 113 52 16 4.9 443 21.5 62.1 3888 Boxer 13 3.8 4.4 43 68 113 57 18 3.4 566 23.8 62.3 4697 SD 5% 0.3 0.3 NS 1.2 NS NS 1.7 1.0 0.4 15.1 0.4 NS 192 Geeding date means averaged over varieties May 3 18 4.1 4.2 49 71 116 53 15 3.4 507 22.7 63.0 4662 May 13 13 4.7 4.6 45 66 113 55 15 4.6 541 22.8 63.0 5172 May 23 11 3.6 4.5 43 66 109 51 17 5.4 483 23.1 63.0 4510 une 6 9 3.6 4.8 39 71 115	LSD 5%		0.5	NS										315
Tabasco 13 4.2 4.6 45 69 113 52 16 4.9 443 21.5 62.1 3888 Boxer 13 3.8 4.4 43 68 113 57 18 3.4 566 23.8 62.3 4697 SD 5% 0.3 0.3 NS 1.2 NS NS 1.7 1.0 0.4 15.1 0.4 NS 192 Seeding date means averaged over varieties Value 4.1 4.2 49 71 116 53 15 3.4 507 22.7 63.0 4662 May 3 18 4.1 4.2 49 71 116 53 15 3.4 507 22.7 63.0 4662 May 13 13 4.7 4.6 45 66 113 55 15 4.6 541 22.8 63.0 5172 May 23 11 3.6 4.5 43 66 109 51 17 5.4 483 23.1 63.0 4510 </td <td>LSD 10%</td> <td></td> <td>0.6</td> <td>NS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>384</td>	LSD 10%		0.6	NS										384
Boxer133.84.4436811357183.456623.862.34697SD 5%0.30.3NS1.2NSNS1.71.00.415.10.4NS192Geeding date means averaged over varietiesMay 3184.14.2497111653153.450722.763.04662May 13134.74.6456611355154.654122.863.05172May 23113.64.5436610951175.448323.163.04510une 693.64.8397111557213.448922.059.72825	Variety means	averaged over	er seeding	dates										
SD 5%0.30.3NS1.2NSNS1.71.00.415.10.4NS192Geeding date means averaged over varietiesMay 3184.14.2497111653153.450722.763.04662May 13134.74.6456611355154.654122.863.05172May 23113.64.5436610951175.448323.163.04510June 693.64.8397111557213.448922.059.72825	Tabasco	13	4.2	4.6	45	69	113	52	16	4.9	443	21.5	62.1	3888
Seeding date means averaged over varieties May 3 18 4.1 4.2 49 71 116 53 15 3.4 507 22.7 63.0 4662 May 13 13 4.7 4.6 45 66 113 55 15 4.6 541 22.8 63.0 5172 May 23 11 3.6 4.5 43 66 109 51 17 5.4 483 23.1 63.0 4510 June 6 9 3.6 4.8 39 71 115 57 21 3.4 489 22.0 59.7 2825	Boxer	13	3.8	4.4	43	68	113	57	18	3.4	566	23.8	62.3	4697
May 3184.14.2497111653153.450722.763.04662May 13134.74.6456611355154.654122.863.05172May 23113.64.5436610951175.448323.163.04510June 693.64.8397111557213.448922.059.72825	LSD 5%	0.3	0.3	NS	1.2	NS	NS	1.7	1.0	0.4	15.1	0.4	NS	192
May 13134.74.6456611355154.654122.863.05172May 23113.64.5436610951175.448323.163.04510June 693.64.8397111557213.448922.059.72825	Seeding date means averaged over varieties													
May 23 11 3.6 4.5 43 66 109 51 17 5.4 483 23.1 63.0 4510 June 6 9 3.6 4.8 39 71 115 57 21 3.4 489 22.0 59.7 2825	May 3	18	4.1	4.2	49	71	116	53	15	3.4	507	22.7	63.0	4662
une 6 9 3.6 4.8 39 71 115 57 21 3.4 489 22.0 59.7 2825	May 13	13	4.7	4.6	45	66	113	55	15	4.6	541	22.8	63.0	5172
	May 23	11	3.6	4.5	43	66	109	51	17	5.4	483	23.1	63.0	4510
SD 5% 0.7 NS NS 0.7 2.3 1.9 3.8 2.1 NS 42.5 0.7 0.8 543	June 6		3.6	4.8	39	71	115	57	21	3.4	489	22.0	59.7	2825
	LSD 5%	0.7	NS	NS	0.7	2.3	1.9	3.8	2.1	NS	42.5	0.7	0.8	543

NDSU Langdon Research Extension Center 2016 Faba Bean Seeding Date Trial

¹DAP-Days after planting, ³Lodging; 0=none, 9=lying flat on ground, NS-no statistical difference between treatments. Planting Date: May 3, Harvest Date: September 20, Row Spacing: 6 inches, Previous Crop: Spring Wheat, Tillage: Conventional Experimental Design: Split-Plot, A (--) in the LSD box indicates there was no significant interaction between seeding rate and date.

Faba Beans are a long-maturing, cool season, annual legume that grows best under moist conditions and needs 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. Boxer had a higher yield than Tabasco. Both varieties responded similarily to seeding date for most agronomic traits and this resulted in few variety x date interactions. The June 6 seeding date had the lowest yield for both varieties. The May 3 seeding date was optimum for both varieties but differences were not always significant compared to the May 3 and 23 seeding date.