

# North Dakota Dry Bean Variety Trial Results for 2015 and Selection Guide

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## North Dakota Bean Production

Dry edible beans have been a significant crop in eastern and east-central North Dakota during the past decade. Acreage for the past 11 years is shown in Table 1, with production by classes in Table 2.

**Table 1. North Dakota Dry Edible Bean Planted Acreage, 2003 to 2015.**

Year	Acreage
2003	540,000
2004	560,000
2005	620,000
2006	670,000
2007	690,000
2008	660,000
2009	610,000
2010	800,000
2011	410,000
2012	700,000
2013	510,000
2014	650,000
2015	660,000

Source: North Dakota Agricultural Statistics Service – USDA.

**Table 2. North Dakota Dry Edible Bean Production by Commercial Class, 2003 to 2014.**

Year	Pinto (Cwt)	Navy (Cwt)
2003	5,864,000	1,164,000
2004	3,573,000	650,000
2005	6,584,000	1,343,000
2006	4,988,000	1,585,000
2007	7,606,000	1,611,000
2008	6,660,000	2,087,000
2009	5,950,000	1,255,000
2010	7,543,000	1,958,000
2011	2,709,000	1,125,000
2012	7,610,000	2,215,000
2013	4,765,000	1,299,000
2014	5,677,000	1,622,000

Source: North Dakota Agricultural Statistics Service – USDA.

## 2015 Growing Season Weather Summary for North Dakota

**Table 3. April-September 2015 Average Temperature and Precipitation Rankings for Selected North Dakota Locations.**

City	Temperature Ranking	Precipitation Ranking
Bowman	59.7 F (40th Warmest Period Since 1915)	12.6 inches (44th Wettest Period Since 1915)
Bismarck	62.0 F (23rd Warmest Period Since 1875)	14.0 inches (45th Wettest Period Since 1875)
Cavalier	59.3 F (23rd Warmest Period Since 1934)	20.9 inches (6th Wettest Period Since 1927)
Fargo	62.8 F (10th Warmest Period Since 1881)	16.9 inches (57th Wettest Period Since 1881)
Minot Exp. Station	59.9 F (22nd Warmest Period Since 1905)	14.8 inches (31st Wettest Period Since 1905)
Williston Exp. Station	61.3 F (14th Warmest Period Since 1894)	8.7 inches (27th Driest Period Since 1894)
North Dakota Average	<b>60.4 F (15th Warmest Period Since 1895)<sup>1</sup></b>	<b>14.1 in. (46th Wettest Period Since 1894)<sup>1</sup></b>

Source: Adnan Akyüz, NDSU, North Dakota state climatologist.

<sup>1</sup>Statewide values are calculated based on all available locations in North Dakota rather than the mathematical average of the list above.

## 2015 Dry Bean Performance Trials

Information about dry bean variety performance can be accessed on the Web at [www.ag.ndsu.edu/varietytrials/](http://www.ag.ndsu.edu/varietytrials/), the site with all variety trial data from all NDSU Experiment Station locations for all crops. The agronomic data presented in this publication are from replicated research plots using experimental designs that enable the use of statistical analysis. The LSD (least significant difference) numbers beneath the columns in tables are derived from the statistical analyses and only apply to the numbers in the column in which they appear. If the difference between two varieties exceeds the LSD value, it means that with 90 to 95 percent probability (0.10 and 0.05 level, respectively), the higher-yielding variety has a significant yield advantage. If the difference between two varieties is less than the LSD value, then the variety yields are considered similar.

The abbreviation NS is used to indicate no significant difference for that trait among any of the varieties. The CV is a measure of variability in the trial. The CV stands for coefficient of variation and is expressed as a percentage. Large CVs mean a large amount of variation that could not be attributed to differences in the varieties.

In the tables, the “mean” indicates the average of the observations in the column. Only compare values within the table and look for trends for the desired trait among different experimental sites and years. In the tables, the dry bean varieties are arranged in alphabetical order within market class. Footnotes provide more detailed information about data in the table under which they appear. Characteristics to evaluate for selecting a dry bean variety include marketing class, yield potential in your area, test weight, reaction to problematic diseases and maturity date.

When selecting a high-yielding and good-quality variety, use data that summarize several years and locations. Choose a high-quality variety that, on average, performs the best at multiple locations near your farm during several years.

Information contained in this publication is based on research conducted by North Dakota Agricultural Experiment Station scientists. We want to express our thanks to dry bean growers who assisted with the on-farm variety testing.

Presentation of data for the varieties tested does not imply approval or endorsement by the authors or agencies conducting the tests. NDSU approves the reproduction of any table in this publication only if no portion is deleted, appropriate footnotes are given, the order of the data is not rearranged and NDSU is credited for the data.

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**Table 4. 2015 Pinto Bean Variety Trial - Prosper and Hatton - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Days to Flowering (DAP) <sup>1</sup>	Plant Height (inch)	Days to Maturity (DAP) <sup>1</sup>	100 Seed Weight (gram)	Seed Yield (lb/a)
<b>Prosper (Cass County)</b>					
Buster	46	18	93	35.5	3,050
El Diablo Fu	47	21	89	36.2	2,660
GTS-904	47	19	95	36.4	2,870
GTS-907	46	18	92	33.4	2,280
La Paz	48	22	98	34.5	2,590
Lariat	47	20	103	35.4	2,630
Marmot	40	13	85	38.8	1,770
Maverick	47	17	95	35.5	2,510
Monterrey	48	20	98	33.9	2,910
ND-307	47	19	101	36.3	2,620
Santa Cruz	48	23	99	33.9	3,170
Sinaloa	47	23	102	37.0	3,080
Stampede	47	21	93	32.0	1,880
SV6139GR	47	21	91	32.4	2,950
SV6533GR	47	20	89	35.2	2,020
Windbreaker	47	17	94	37.3	3,270
Mean	47	19	95	35.2	2,641
CV %	2.0	9.0	3.0	4.9	13.7
LSD 0.05	1	2.8	4	2.4	500
LSD 0.10	1	2.3	3	2.0	420
<b>Hatton (Traill County)</b>					
Buster	49	16	96	37.0	3,630
Centennial	50	21	105	37.0	3,150
El Diablo Fu	48	19	92	38.9	3,120
El Dorado	50	19	103	38.8	3,240
GTS-904	51	18	100	39.9	3,300
GTS-907	49	16	94	37.0	3,240
La Paz	51	20	99	33.5	3,370
Lariat	51	18	102	36.5	3,160
Marmot	45	12	80	41.3	1,570
Maverick	50	17	102	37.5	3,200
Monterrey	51	22	100	34.5	3,190
ND-307	50	18	101	38.2	3,120
Othello	48	16	92	37.1	2,850
Santa Cruz	51	22	97	32.7	3,070
Sinaloa	50	22	96	36.9	3,420
Stampede	49	20	96	34.9	3,120
SV6139GR	50	20	96	33.1	3,500
SV6533GR	50	19	93	38.3	2,700
Windbreaker	49	18	94	37.1	3,060
Mean	50	18	97	36.9	3,106
CV %	3.0	13.0	3.0	4.3	10.7
LSD 0.05	2	3.5	4	2.2	450
LSD 0.10	2	3.0	3	1.8	380

Prosper - Planted: June 1. Previous crop: small grain.

Hatton - Planted: May 26. Previous crop: sugarbeet.

<sup>1</sup>Days after planting.

**Table 5. 2015 Pinto Bean Variety Trial - Forest River - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield
<b>Forest River (Walsh County)</b>	(inch)	(DAP) <sup>1</sup>	(gram)	(lb/a)
Buster	16	93	30.5	2,100
El Diablo Fu	21	93	34.8	1,710
GTS-904	18	94	34.1	2,510
GTS-907	19	94	30.0	2,070
La Paz	20	94	34.0	2,450
Lariat	22	96	33.8	2,230
Maverick	17	94	33.4	1,840
Monterrey	21	95	33.8	2,340
ND-307	20	96	33.6	2,060
Santa Cruz	22	94	30.9	2,390
Sinaloa	20	94	33.4	2,470
Stampede	22	94	32.3	2,210
Windbreaker	19	93	32.5	2,210
Mean	20	94	32.9	2,199
CV %	9.0	2.0	4.1	12.6
LSD 0.05	2.8	2.0	1.9	3.9
LSD 0.10	2.3	1.7	1.6	3.3

Planted: May 31. Previous crop: small grain.

<sup>1</sup>Days after planting.

**Table 6. 2015 Navy Bean Variety Trial - Prosper - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Days to Flowering	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield
<b>Prosper (Cass County)</b>	(DAP) <sup>1</sup>	(inch)	(DAP) <sup>1</sup>	(gram)	(lb/a)
Bolt	42	20	96	19.7	2,190
Ensign	47	19	101	19.4	2,190
Fathom	42	19	102	20.0	2,450
HMS Medalist	48	21	101	15.8	2,430
IG-10M	45	20	95	19.1	2,060
Mist	48	20	107	18.2	2,640
Nautica	48	19	99	14.8	1,940
OB-1723-03	47	19	101	15.5	2,170
OB-3739-03	49	19	100	16.9	1,690
OB-3970-03	47	17	101	16.9	2,080
Rexeter	43	19	107	17.6	2,260
SV1893GH	48	19	98	17.2	2,200
T9905	46	20	100	18.6	2,320
Vigilant	47	21	97	17.2	2,050
Vista	47	19	102	16.9	2,140
Mean	46	20	100	17.6	2,187
CV %	4.0	8.0	3.0	4.7	12.0
LSD 0.05	3	2.4	4	1.1	370
LSD 0.10	3	2.0	3	0.9	310

Planted: June 1. Previous crop: small grain.

<sup>1</sup>Days after planting.

**Table 7. 2015 Navy Bean Variety Trial - Hatton and Forest River - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Days to Flowering (DAP) <sup>1</sup>	Plant Height (inch)	Days to Maturity (DAP) <sup>1</sup>	100 Seed Weight (gram)	Seed Yield (lb/a)
<b>Hatton (Traill County)</b>					
Alpena	51	24	98	18.1	2,430
Bolt	48	22	93	21.8	2,040
DS105W0	52	22	100	19.0	3,040
Ensign	51	20	97	18.6	2,570
Fathom	50	20	100	19.0	2,650
HMS Medalist	51	23	99	16.6	2,650
IG-10M	49	21	95	21.3	2,160
Mist	50	20	101	18.9	2,330
Nautica	51	22	98	15.7	2,210
OB-1723-03	51	21	100	15.2	2,630
OB-3739-03	55	19	104	17.7	2,150
OB-3970-03	51	17	101	16.8	2,030
Rexeter	49	22	102	18.4	2,320
SV1893GH	52	19	98	19.7	2,430
T9905	50	20	97	19.6	2,580
Vigilant	50	23	99	17.3	2,040
Vista	50	23	100	15.9	2,460
Mean	51	21	99	18.2	2,395
CV %	2.0	11.0	2.0	4.3	14.1
LSD 0.05	2	3.1	3	1.1	470
LSD 0.10	2	2.6	3	0.9	390
<b>Forest River (Walsh County)</b>					
Bolt	21	93	18.2	1,790	
DS105W0	22	97	18.2	2,140	
Ensign	19	94	17.2	1,740	
Fathom	19	97	17.3	1,940	
HMS Medalist	20	93	14.9	1,810	
IG-10M	22	93	18.0	1,940	
Mist	18	98	16.8	1,870	
Nautica	19	96	15.2	1,890	
OB-1723-03	20	98	14.1	1,960	
OB-3739-03	19	100	17.5	1,650	
OB-3970-03	19	97	15.9	1,860	
Rexeter	20	100	16.2	1,730	
T9905	21	93	18.2	2,280	
Vigilant	20	93	16.1	1,810	
Vista	21	95	14.8	2,070	
Mean	20	96	16.6	1,899	
CV %	9.0	2.0	3.6	15.8	
LSD 0.05	NS	3	0.8	NS	
LSD 0.10	NS	3	0.7	NS	

Hatton - Planted: May 26. Previous crop: sugarbeet.

Forest River - Planted: May 31. Previous crop: small grain.

<sup>1</sup>Days after planting.

**Table 8. 2015 Kidney Bean Variety Trial - Park Rapids, Minn. - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Market Class	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield
<b>Park Rapids (Hubbard County)</b>		(inch)	(DAP) <sup>1</sup>	(gram)	(lb/a)
Dynasty	Dark Red Kidney	20	102	57.1	3,000
Majesty	Dark Red Kidney	19	96	55.7	2,080
Montcalm	Dark Red Kidney	20	104	51.7	2,880
Red Rover	Dark Red Kidney	20	90	46.2	2,100
Redhawk	Dark Red Kidney	19	92	43.1	2,180
Talon	Dark Red Kidney	19	94	46.0	2,860
Big Red	Light Red Kidney	19	91	55.4	3,010
Cabernet	Light Red Kidney	19	93	47.1	2,640
Celrk	Light Red Kidney	17	90	54.2	2,530
Foxfire	Light Red Kidney	19	91	50.1	2,810
Inferno	Light Red Kidney	23	104	51.4	3,360
Pink Panther	Light Red Kidney	19	94	57.1	3,190
Rosie	Light Red Kidney	20	104	46.5	3,080
Silver Cloud	White Kidney	21	105	54.2	2,030
Snowdon	White Kidney	17	88	55.8	3,030
Yeti	White Kidney	22	101	50.2	2,890
Mean		19	96	51.4	2,729
CV %		8.0	2.0	4.8	11.4
LSD 0.05		2.0	3	3.4	440
LSD 0.10		1.6	3	2.8	370

Planted: June 3. Previous crop: corn.

<sup>1</sup>Days after planting.

**Table 9. 2015 Kidney Bean Variety Trial - Perham, Minn. - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield
<b>Perham</b>	(inch)	(DAP) <sup>1</sup>	(gram)	(lb/a)
Cabernet	Dark Red Kidney	18	46.9	1,780
Dynasty	Dark Red Kidney	24	54.4	1,990
Montcalm	Dark Red Kidney	20	50.0	1,720
Red Rover	Dark Red Kidney	19	46.5	1,600
Redhawk	Dark Red Kidney	19	44.2	1,270
Talon	Dark Red Kidney	20	46.5	1,690
Big Red	Light Red Kidney	20	51.2	2,080
Foxfire	Light Red Kidney	21	49.3	1,930
Inferno	Light Red Kidney	21	47.3	2,100
Pink Panther	Light Red Kidney	21	52.0	2,290
Rosie	Light Red Kidney	24	45.0	1,770
Silver Cloud	White Kidney	22	48.5	900
Mean		21	48.5	1,760
CV %		11.0	5.1	12.1
LSD 0.05		3.1	3.4	310
LSD 0.10		2.6	2.8	260

Planted: June 1. Previous crop: potato.

<sup>1</sup>Days after planting.

**Table 10. 2015 Black Bean Variety Trial - Prosper, Hatton and Forest River - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Days to Flowering	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield (lb/a)
<b>Prosper (Cass County)</b>	(DAP) <sup>1</sup>	(inch)	(DAP) <sup>1</sup>	(gram)	
Black Cat	48	23	95	15.4	1,550
Eclipse	48	18	93	16.6	1,640
GTS-1103	50	20	101	17.6	2,070
Loreto	47	19	102	17.5	2,050
SV6894GB	47	20	92	18.5	1,390
T-39	48	18	94	16.8	1,450
Zorro	48	21	95	17.3	1,410
Mean	48	20	96	17.1	1,651
CV %	2.0	8.0	3.0	5.0	16.8
LSD 0.05	1	2.4	4	1.2	420
LSD 0.10	1	2.0	3	1.0	350
<b>Hatton (Traill County)</b>					
Black Cat	53	24	99	17.1	1,900
Eclipse	53	20	96	17.2	1,720
GTS-1103	54	20	104	17.7	2,220
Jet	53	22	103	18.9	2,160
Loreto	52	20	101	18.6	2,280
Super Jet	49	19	101	19.6	2,180
SV6894GB	52	21	99	20.0	1,740
T-39	53	18	103	17.9	2,040
Zenith	51	21	100	18.3	1,880
Zorro	51	20	100	17.6	1,470
Mean	52.1	20	101	18.3	1,959
CV %	2.0	12.0	3.0	6.1	21.7
LSD 0.05	2	3.5	4	1.5	NS
LSD 0.10	2	3.0	3	1.3	NS
<b>Forest River (Walsh County)</b>					
Black Cat	25	91	15.9	1,820	
Eclipse	22	89	17.3	1,690	
GTS-1103	20	101	17.9	1,690	
Jet	21	92	16.9	1,370	
Loreto	19	99	17.7	1,850	
Super Jet	20	90	16.8	1,660	
T-39	18	93	16.9	1,370	
Zorro	19	88	16.6	1,270	
Mean	20	93	17.0	1,590	
CV %	14.0	3.0	3.4	22.8	
LSD 0.05	NS	4	0.8	NS	
LSD 0.10	NS	3	0.7	NS	

Prosper - Planted: June 1. Previous crop: small grain.

Hatton - Planted: May 26. Previous crop: sugarbeet.

Forest River - Planted: May 31. Previous crop: small grain.

<sup>1</sup>Days after planting.

**Table 11. 2015 Miscellaneous Dry Bean Variety Trial - Prosper, Hatton and Forest River - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Market Class	Days to Flower	Plant Height	Days to Maturity	100 Seed Weight	Seed Yield
<b>Prosper (Cass County)</b>		(DAP) <sup>1</sup>	(inch)	(DAP) <sup>1</sup>	(gram)	(lb/a)
Montcalm	Dark Red Kidney	47	19	109	43.8	1,660
Talon	Dark Red Kidney	47	19	99	39.3	1,380
Matterhorn	Great Northern	47	19	92	26.9	1,620
Powderhorn	Great Northern	47	21	91	27.0	1,120
Pink Panther	Light Red Kidney	37	17	90	43.1	820
Rosie	Light Red Kidney	47	22	109	42.2	1,970
Floyd	Pink	43	13	91	27.9	1,340
Ruby	Small Red	49	20	101	27.7	2,260
Mean		46	19	98	34.7	1,521
CV %		3.0	8.0	3.0	4.9	15.6
LSD 0.05		2	2.0	4	2.2	390
LSD 0.10		2	1.6	3	1.8	330
<b>Hatton (Traill County)</b>						
Montcalm	Dark Red Kidney	49	19	103	46.0	1,780
Talon	Dark Red Kidney	50	18	100	37.9	1,430
Desert Song	Flor de Junio	49	15	88	28.6	2,200
Gypsy Rose	Flor de Mayo	56	21	104	23.2	2,500
Aries	Great Northern	49	20	95	33.4	2,010
Draco	Great Northern	50	19	99	31.0	2,390
Matterhorn	Great Northern	48	22	90	28.8	1,860
Orion	Great Northern	49	15	93	30.6	2,210
Powderhorn	Great Northern	47	21	85	31.6	2,010
Taurus	Great Northern	50	19	97	32.4	2,350
Pink Panther	Light Red Kidney	46	17	91	49.7	1,610
Rosie	Light Red Kidney	48	20	108	38.5	1,640
Floyd	Pink	47	16	90	31.5	1,930
Ruby	Small Red	54	20	101	25.5	2,400
Mean		49	19	96	33.5	2,023
CV %		3.0	13.0	3.0	5.0	14.6
LSD 0.05		2	3.5	4	2.3	430
LSD 0.10		2	3.0	3	1.9	360
<b>Forest River (Walsh County)</b>						
Montcalm	Dark Red Kidney		20	101	38.6	1,430
Talon	Dark Red Kidney		19	93	34.2	1,470
Matterhorn	Great Northern		20	90	29.7	2,110
Powderhorn	Great Northern		21	87	29.2	1,890
Pink Panther	Light Red Kidney		20	90	44.6	1,540
Rosie	Light Red Kidney		20	102	35.6	1,700
Floyd	Pink		15	86	28.4	1,530
Ruby	Small Red		21	99	25.4	2,060
Mean			19	94	33.2	1,716
CV %			13.0	3.0	5.9	17.3
LSD 0.05			3.5	3	2.6	460
LSD 0.10			3.0	3	2.2	385

Prosper - Planted: June 1. Previous crop: small grain.

Hatton - Planted: May 26. Previous crop: sugarbeet.

Forest River - Planted: May 31. Previous crop: small grain.

<sup>1</sup>Days after planting.

**Table 12. Miscellaneous 2015 Dry Bean Variety Trial - Park Rapids, Minn. - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Market Class	Plant Height (inch)	Days to Maturity (DAP) <sup>1</sup>	100 Seed Weight (gram)	Seed Yield (lb/a)
<b>Park Rapids, Minn.</b>					
Eclipse	Black	24	93	18.0	3,630
GTS-1103	Black	20	95	17.8	3,250
Loreto	Black	20	100	17.7	2,780
Zorro	Black	22	93	17.7	2,620
Bolt	Navy	19	94	21.5	3,320
Fathon	Navy	17	101	20.9	3,870
HMS Medalist	Navy	21	93	15.5	3,540
IG-10M	Navy	21	94	20.1	3,190
Mist	Navy	22	102	19.1	3,860
Nautica	Navy	24	96	16.5	3,030
OB-1723-03	Navy	20	99	15.5	3,490
OB-3739-03	Navy	19	99	16.4	2,430
OB-3970-03	Navy	20	100	15.7	2,480
Rexeter	Navy	19	104	18.8	3,220
T9905	Navy	21	97	19.0	3,710
El Diablo Fu	Pinto	19	91	34.1	3,430
GTS-904	Pinto	19	97	35.6	3,660
GTS-907	Pinto	17	92	34.3	3,350
La Paz	Pinto	21	94	32.0	3,380
Lariat	Pinto	19	98	36.2	3,640
Monterrey	Pinto	20	94	32.4	3,020
Sinaloa	Pinto	20	95	33.6	3,400
Stampede	Pinto	21	94	31.8	2,910
Windbreaker	Pinto	17	93	37.2	4,150
Mean		20	96	24.1	3,307
CV %		8.0	2.0	4.6	9.6
LSD 0.05		2.4	2	1.6	440
LSD 0.10		2.0	2	1.3	370

Park Rapids - Planted: June 3. Previous crop: corn.

<sup>1</sup>Days after planting.

**Table 13. 2015 Miscellaneous Dry Bean Variety Trial - Perham, Minn. - Authors, J. Osorno, J. VanderWal and M. Kloberdanz.**

Variety	Market Class	Plant Height (inch)	Days to Maturity (DAP) <sup>1</sup>	100 Seed Weight (gram)	Seed Yield (lb/a)
<b>Perham, Minn.</b>					
Eclipse	Black	20	97	17.6	2,000
GTS-1103	Black	20	102	18.4	2,400
Loreto	Black	20	105	18.3	2,250
Zorro	Black	23	97	16.7	1,660
Bolt	Navy	22	98	21.7	2,360
Fathon	Navy	21	101	20.0	1,970
HMS Medalist	Navy	19	103	16.7	2,140
IG-10M	Navy	21	100	22.5	2,530
Mist	Navy	21	105	19.8	2,270
Nautica	Navy	22	102	16.1	2,060
OB-1723-03	Navy	20	102	14.8	1,910
OB-3739-03	Navy	17	104	16.8	1,520
OB-3970-03	Navy	20	104	16.9	1,880
Rexeter	Navy	24	105	19.5	2,100
T9905	Navy	20	102	20.4	2,170
El Diablo Fu	Pinto	17	96	31.6	2,050
GTS-904	Pinto	19	100	34.1	1,800
GTS-907	Pinto	18	97	32.1	1,970
La Paz	Pinto	20	101	30.0	2,140
Lariat	Pinto	20	98	31.7	1,730
Monterrey	Pinto	21	101	29.2	2,000
Sinaloa	Pinto	20	98	31.6	2,210
Stampede	Pinto	21	97	33.3	1,670
Windbreaker	Pinto	16	97	36.1	2,350
Mean		20	101	23.6	2,048
CV %		12.0	1.0	5.1	9.1
LSD 0.05		3.1	2	1.8	260
LSD 0.10		2.6	2	1.5	220

Perham - Planted: June 1. Previous crop: potato.

<sup>1</sup>Days after planting.

**Table 14. 2015 Dry Bean Variety Trial - Dryland - Carrington - Authors, M. Ostlie, B. Schatz and G. Endres.**

Variety	Market		Maturity (DAP) <sup>1</sup>	Growth Habit <sup>2</sup> (1-9)	Direct Harvest <sup>3</sup> (%)	Seeds/ Pound (seeds)	100 Seed Weight (gram)	Seed Yield	
	Class	Maturity						2015	3-yr. Avg. <sup>4</sup> .
Eclipse	Black	93	6.8	85	1,903	23.9	1,629	2,498	
Loreto	Black	98	8.0	95	1,935	23.5	1,548	2,108	
Zorro	Black	94	7.8	90	1,802	25.2	2,093	2,653	
Montcalm	Dark Red Kidney	98	7.0	81	793	57.3	1,515	--	
Talon	Dark Red Kidney	94	6.5	75	848	53.6	1,693	--	
Pink Panther	Light Red Kidney	83	7.3	90	831	55.8	1,398	--	
Rosie	Light Red Kidney	99	7.0	83	833	54.5	1,778	--	
Avalanche	Navy	94	5.3	80	1,979	22.9	1,804	2,213	
Ensign	Navy	95	6.3	69	1,791	25.3	1,717	2,442	
HMS Medalist	Navy	97	6.5	88	2,097	21.7	1,813	2,353	
T9905	Navy	97	6.3	84	1,807	25.1	2,104	2,564	
Vista	Navy	97	6.5	79	2,074	21.9	1,860	2,360	
La Paz	Pinto	91	6.0	85	1,002	45.4	2,297	2,858	
Lariat	Pinto	91	4.8	90	996	45.7	2,380	2,774	
Maverick	Pinto	86	4.5	80	1,020	44.6	2,075	2,561	
ND-307	Pinto	89	5.3	80	984	46.2	1,805	2,579	
Stampede	Pinto	88	5.8	83	976	46.6	2,273	2,678	
Windbreaker	Pinto	88	4.0	80	918	49.5	2,321	2,661	
Merlot	Small Red	94	5.8	90	1,007	45.1	1,922	2,268	
Rio Rojo	Small Red	92	6.0	94	1,284	35.4	1,857	--	
Mean		93	6.2	84	1,344	38.5	1,894	2,505	
CV %		2.3	15.6	4.9	4.0	5.9	11.9	--	
LSD 0.05		3	1.3	6	73	3.3	321	--	
LSD 0.10		3	1.1	4.8	61	2.7	268	--	

Planted: May 27. Harvested: Sept. 9. Previous crop: spring wheat.

<sup>1</sup>Days after planting.

<sup>2</sup>Growth Habit: Scored on scale of 1 to 9; 1 = longer vine, low-stature plant, pods lower to ground; 9 = very upright plant stature, pods held well off ground.

<sup>3</sup>Direct Harvest: A relative score to estimate the percent of beans that would be harvested successfully in a direct/straight harvest system.

<sup>4</sup>Three-year average is for 2012, 2013 and 2015 because no data is available for 2014.

**Table 15. 2015 Dry Bean Variety Trial - Irrigated - Carrington - Authors, M. Ostlie, B. Schatz, and G. Endres.**

Variety	Market		Growth	Direct	White	Seeds/Pound	100 Seed Weight	Seed Yield	
	Class	Maturity	Habit <sup>2</sup>	Harvest <sup>3</sup>	Mold <sup>4</sup>	(seeds)	(gram)	2015	3-yr. Avg. <sup>5</sup>
		(DAP) <sup>1</sup>	(1-9)	(%)	(%)			-----(lb/a)-----	
Eclipse	Black	88	8.5	91	14	2,366	19.2	1,818	2,812
Loreto	Black	90	4.5	91	5	2,140	21.2	2,095	2,693
Zorro	Black	89	7.0	95	8	2,294	19.8	2,039	2,822
Montcalm	Dark Red Kidney	94	4.3	76	4	847	53.7	2,062	--
Talon	Dark Red Kidney	93	3.8	73	6	913	49.8	2,069	--
Pink Panther	Light Red Kidney	83	4.5	74	10	756	60.4	2,151	--
Rosie	Light Red Kidney	98	4.3	83	5	864	52.6	1,716	--
Avalanche	Navy	90	5.3	88	10	2,246	20.2	2,235	2,770
Ensign	Navy	90	4.0	83	9	2,075	21.9	2,246	3,112
HMS Medalist	Navy	91	6.3	88	9	2,415	18.8	1,792	3,238
T9905	Navy	92	5.0	89	6	2,139	21.2	2,072	3,305
Vista	Navy	93	5.5	85	8	2,437	18.6	2,064	2,853
La Paz	Pinto	89	4.0	81	15	1,252	36.3	2,775	3,471
Lariat	Pinto	90	2.8	73	8	1,209	37.7	2,990	3,659
Maverick	Pinto	84	1.0	53	19	1,117	40.7	3,101	3,091
ND-307	Pinto	89	2.8	78	45	1,053	43.2	2,801	2,926
Stampede	Pinto	84	2.5	74	14	1,187	38.4	2,813	3,408
Windbreaker	Pinto	84	3.0	80	13	1,109	41.0	3,135	3,615
Merlot	Small Red	89	2.0	73	30	1,144	39.7	2,421	2,661
Rio Rojo	Small Red	86	4.3	91	8	1,588	28.6	2,530	--
Mean		89	4.3	81	12.1	1,557	34.2	2,346	3,096
CV %		1.1	14.8	5.3	68.3	3.6	4.7	8.8	--
LSD 0.05		1	0.8	6	12	75	2.3	299	--
LSD 0.10		1	0.7	5	10	63	2.0	250	--

Planted: June 1. Harvested: Sept. 9. Previous crop: spring wheat.

<sup>1</sup>Days after planting.<sup>2</sup>Growth Habit: Scored on scale of 1 to 9; 1 = longer vine, low-stature plant, pods lower to ground; 9 = very upright plant stature, pods held well off ground.<sup>3</sup>Direct Harvest: A relative score to estimate the percent of beans that would be harvested successfully in a direct/straight harvest system.<sup>4</sup>White Mold: An assessment of the incidence of plants that expressed some level of white mold (sclerotinia).<sup>5</sup>Three-year average is for 2012, 2013, and 2015 because no data is available for 2014.

**Table 16. 2015 Dry Bean Variety Trial - Irrigated - Oakes (Carrington REC) - Authors, L. Besemann and H. Eslinger.**

Variety	Market		Seeds/ Pound	100 Seed	Test	Seed Yield	
	Class	Maturity		Weight (gram)	Weight (lb/bu)	-----(lb/a)-----	2015
		(DAP) <sup>1</sup>	(seeds)				3-yr. Avg.
La Paz	Pinto	83	1,227	37.1	61.8	3,198	3,251
Lariat	Pinto	89	1,068	42.6	59.1	3,982	3,617
Maverick	Pinto	85	1,094	41.6	59.0	3,104	3,088
ND-307	Pinto	86	995	45.7	56.7	4,147	--
Stampede	Pinto	79	1,081	42.0	58.5	3,582	3,216
Windbreaker	Pinto	81	1,020	44.5	58.4	3,666	3,488
Mean		84	1,081	42.2	58.9	3,613	3,332
CV %		1.5	4.1	4.2	1.4	9.4	--
LSD 0.05		2	63	2.6	1.2	501	--
LSD 0.10		2	52	2.2	1.0	415	--
HMS Medalist	Navy	89	2,251	20.2	63.2	3,615	3,270
Avalanche	Navy	87	2,012	22.6	64.3	3,346	2,774
Ensign	Navy	82	2,002	22.7	64.4	3,345	3,139
Vista	Navy	87	2,270	20.0	64.6	3,365	3,159
T9905	Navy	87	2,095	21.8	64.1	3,446	3,550
Mean		86	2,126	21.5	64.1	3,423	3,178
CV %		1.2	3.1	3.0	0.8	5.4	--
LSD 0.05		2	102	1.0	0.8	287	--
LSD 0.10		1	83	0.8	0.7	235	--
Eclipse	Black	83	2,113	21.5	62.4	3,529	3,113
Loreto	Black	89	2,156	21.1	61.8	3,844	3,100
Zorro	Black	85	2,037	22.3	63.3	3,834	--
Montcalm	Dark Red Kidney	94	802	56.6	57.6	3,393	--
Talon	Dark Red Kidney	86	870	52.2	58.2	3,355	--
Pink Panther	Light Red Kidney	84	714	63.5	55.1	3,903	--
Rosie	Light Red Kidney	98	887	51.2	57.2	3,005	--
Merlot	Small Red	94	1,113	40.8	59.9	3,687	3,042
Rio Rojo	Small Red	86	1,288	35.2	63.5	3,897	3,456
Mean		89	1,331	40.5	59.9	3,605	3,178
CV %		1.45	3.13	2.3	1.0	8.0	--
LSD 0.05		2	61	1.4	0.9	423	--
LSD 0.10		2	50	1.1	0.7	351	--

Planted: May 27. Harvested: Sept. 2-8. Previous crop: sugarbeet or spring wheat.

<sup>1</sup>Days after planting.

**Table 17. 2015 Dry Bean Variety Trial - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry.**

Variety	Market Class	Maturity	100 Seed	Seed Yield				
			Weight (gram)	2013	2014	2015	2-yr. Avg.	3-yr. Avg.
(DAP) <sup>1</sup>						(lb/a)		
Eclipse	Black	94	17.4	2,568	2,415	1,932	2,173	2,305
Loreto	Black	97	15.7	2,332	1,944	1,607	1,776	1,961
Zorro	Black	96	18.7	2,580	2,275	1,933	2,104	2,263
Dynasty	Dark Red Kidney	99	50.1	--	--	1,670	--	--
Montcalm	Dark Red Kidney	100	44.2	--	1,672	1,529	1,601	--
Talon	Dark Red Kidney	96	42.3	--	1,754	1,681	1,717	--
Inferno	Light Red Kidney	102	47.3	--	--	1,927	--	--
Pink Panther <sup>2</sup>	Light Red Kidney	98	50.5	--	1,849	1,532	1,690	--
Rosie	Light Red Kidney	100	41.6	--	1,607	1,823	1,715	--
Avalanche	Navy	96	20.0	1,952	2,101	1,923	2,012	1,992
Bolt	Navy	95	21.3	2,008	--	1,857	--	--
Ensign	Navy	96	20.4	2,852	2,703	2,087	2,395	2,547
Fathom	Navy	98	20.9	--	--	1,851	--	--
HMS Medalist	Navy	96	16.1	2,292	2,286	1,724	2,005	2,101
Mist	Navy	99	18.3	2,192	--	1,606	--	--
Nautica	Navy	96	14.5	2,372	1,944	1,660	1,802	1,992
Rexeter	Navy	98	16.2	2,424	1,995	1,904	1,950	2,108
T9905	Navy	99	21.0	2,616	2,571	2,168	2,369	2,452
Vista	Navy	94	16.3	2,584	2,513	2,129	2,321	2,409
La Paz	Pinto	94	29.4	3,324	2,900	2,151	2,525	2,792
Lariat	Pinto	92	31.2	2,832	2,445	2,133	2,289	2,470
Maverick	Pinto	91	36.9	2,860	2,848	2,090	2,469	2,599
ND-307	Pinto	95	35.6	2,792	3,113	2,029	2,571	2,645
Stampede	Pinto	94	27.1	2,720	3,020	1,877	2,449	2,539
Windbreaker	Pinto	94	33.0	2,328	2,822	1,930	2,376	2,360
Merlot	Small Red	97	34.0	2,224	2,180	1,544	1,862	1,983
Rio Rojo	Small Red	96	26.0	2,252	2,656	1,406	2,031	2,105
Mean		96	28.4	2,505	2,346	1,841	2,100	2,312
C.V. %		2.6	--	11.9	9.3	10.4	--	--
LSD 0.05		4.2	--	477	470	320	--	--
LSD 0.10		3.5	--	398	388	266	--	--

Planted: May 22. Harvested: Sept. 16. Previous crop: spring wheat.

<sup>1</sup>Days after planting.

<sup>2</sup>Pink Pather had some preharvest shatter in 2015.

**Table 18. 2015 Dry Bean Variety Trial - Cavalier - (Langdon REC) - Authors, B. Hanson, T. Hakanson and L. Henry.**

Variety	Market Class	100 Seed Weight (gram)	Seed Yield (lb/a)				
			2013	2014	2015	2-yr. Avg.	3-yr. Avg.
Eclipse	Black	17.0	3,436	1,655	2,077	1,866	2,389
Loreto	Black	17.8	3,392	1,472	1,841	1,657	2,235
Zorro	Black	19.3	3,576	1,131	1,876	1,504	2,194
Dynasty	Dark Red Kidney	49.1	--	--	1,994	--	--
Montcalm	Dark Red Kidney	43.7	--	795	1,732	1,263	--
Talon	Dark Red Kidney	39.4	--	726	1,470	1,098	--
Inferno	Light Red Kidney	47.8	--	--	2,101	--	--
Pink Panther <sup>1</sup>	Light Red Kidney	44.9	--	646	1,655	1,151	--
Rosie	Light Red Kidney	42.9	--	976	2,018	1,497	--
Avalanche	Navy	17.6	3,440	1,493	2,345	1,919	2,426
Bolt	Navy	21.6	3,208	--	2,185	--	--
Ensign	Navy	20.5	3,728	1,426	1,964	1,695	2,373
Fathom	Navy	16.9	--	--	1,945	--	--
HMS Medalist	Navy	16.7	3,420	1,793	1,452	1,622	2,222
Mist	Navy	19.2	3,492	--	1,963	--	--
Nautica	Navy	15.5	3,204	1,419	2,038	1,729	2,220
Rexeter	Navy	17.8	3,516	1,655	2,118	1,887	2,430
T9905	Navy	19.8	3,484	1,697	2,001	1,849	2,394
Vista	Navy	20.2	3,432	1,773	1,950	1,861	2,385
La Paz	Pinto	32.8	3,820	2,039	2,961	2,500	2,940
Lariat	Pinto	35.9	3,460	1,790	2,725	2,257	2,658
Maverick	Pinto	37.6	3,456	1,783	2,185	1,984	2,475
ND-307	Pinto	38.1	3,540	1,947	2,833	2,390	2,773
Stampede	Pinto	34.5	3,348	1,579	2,519	2,049	2,482
Windbreaker	Pinto	42.2	3,392	1,812	3,130	2,471	2,778
Merlot	Small Red	36.0	2,968	1,558	2,106	1,832	2,211
Rio Rojo	Small Red	27.8	2,972	1,890	1,771	1,830	2,211
Mean		29.4	3,414	1,503	2,109	1,814	2,433
CV %		--	6.9	12.3	14.0	--	--
LSD 0.05		--	382	315	496	--	--
LSD 0.10		--	319	262	413	--	--

Planted: May 28. Harvested: Sept. 22. Previous crop: spring wheat.

<sup>1</sup>Pink Pather had some preharvest shatter in 2015.

**Table 19. 2015 Dry Bean Variety Trial - Hettinger - Authors, J. Rickertsen and R. Olson.**

Variety	Type	Plant	Plant	Test	Yield	
		Height (inch)	Lodge <sup>2</sup> (0-9)	Weight (lb/bu)	2015	3-yr. Avg.
Eclipse	Black	24	0	60.0	1,791	2,045
Loreto	Black	23	0	57.5	1,618	1,888
Zorro	Black	22	0	59.9	1,986	--
Montcalm	Dark Red Kidney	21	3	51.4	1,404	--
Talon	Dark Red Kidney	23	3	51.1	1,505	--
Pink Panther	Light Red Kidney	23	1	51.2	1,705	--
Rosie	Light Red Kidney	22	2	52.8	1,586	--
Avalanche	Navy	24	0	56.3	1,614	1,923
Ensign	Navy	24	3	56.9	1,710	2,057
HMS Medalist	Navy	23	0	57.3	1,597	1,939
T9905	Navy	22	1	55.9	1,744	2,246
Vista	Navy	23	0	57.0	1,619	1,807
La Paz	Pinto	22	0	57.2	2,024	2,314
Lariat	Pinto	21	3	54.9	2,021	2,224
Maverick	Pinto	27	5	54.8	1,714	1,897
ND-307	Pinto	24	2	52.9	1,735	2,147
Stampede	Pinto	24	2	54.3	2,028	2,167
Windbreaker	Pinto	26	3	53.1	1,699	1,916
Merlot	Small Red	25	2	56.9	1,802	1,838
Rio Rojo	Small Red	26	1	59.3	1,823	2,149
Mean		23	2	55.5	1,736	2,037
C.V. %		8.9	48	1.7	7.3	--
LSD 0.05		3	1	1.3	181	--
LSD 0.10		3	1	1.1	151	--

Planted: May 19. Harvested: Aug. 31. Previous crop: oat.

<sup>1</sup>Days after planting.

<sup>2</sup>0 = no lodging, 9 = lying flat on ground.

**Table 20. 2015 Pinto Bean Variety Trial - Minot - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz.**

Variety	Plant		100 Seed Weight (gram)	Yield		
	Height (inch)	Lodging <sup>1</sup> (0-9)		2015	2-yr. Avg.	3-yr. Avg.
La Paz	17.1	5.3	36.5	2,940	2,257	2,507
Lariat	16.5	6.0	38.3	3,293	2,366	2,520
Maverick	16.1	6.8	38.2	2,474	1,780	2,015
Stampede	17.3	6.3	38.0	2,222	1,819	2,090
Windbreaker	15.8	5.8	42.2	3,002	2,219	2,338
Mean	16.6	6.0	38.6	2,786	2,088	2,294
C.V. %	11.2	15.3	5.1	7.4	--	--
LSD 0.05	NS	1.0	2.9	287.0	--	--
LSD 0.10	NS	1.0	2.4	238	--	--

Planted: May 26. Harvested: Sept. 30. Previous crop: spring wheat.

<sup>1</sup>Lodging: 0 = no lodging, 9 = lying flat on ground.**Table 21. 2015 Dry Bean Variety Trial - Minot - Authors, E. Eriksmoen, J. Tarasenko and J. Effertz.**

Variety	Plant		100 Seed Weight (gram)	Yield		
	Height (inch)	Lodging <sup>1</sup> (0-9)		2015	2-yr. Avg.	-----(lb/a)-----
<b>Black</b>						
Eclipse	18.2	2.0	20.4	2,430	2,460	
Loreto	18.1	3.3	19.0	2,239	2,622	
Zorro	17.3	2.0	21.1	2,443	2,553	
<b>Small Red</b>						
Merlot	16.9	6.3	38.5	2,109	2,243	
Rio Rojo	17.4	4.8	30.8	1,950	--	
<b>Light Red Kidney</b>						
Pink Panther	13.7	3.5	54.4	1,442	--	
Rosie	15.0	5.8	47.3	2,057	--	
<b>Dark Red Kidney</b>						
Montcalm	12.2	4.0	52.1	1,302	--	
Talon	16.2	6.0	46.1	1,940	--	
Mean	16.0	4.0	36.6	1,990	2,470	
C.V. %	6.5	29.0	2.9	8.1	--	
LSD 0.05	2.0	2.0	1.5	234	--	
LSD 0.10	1.0	1.0	1.3	194	--	

Planted: May 26. Harvested: Sept. 30. Previous crop: spring wheat.

<sup>1</sup>Lodging: 0 = no lodging, 9 = lying flat on ground.

**Table 22. 2015 Pinto Bean Variety Trial - Irrigated - Williston - Authors, J. Jacobs and T. Tjelde.**

Variety	Maturity	Canopy Height	Test Weight	100 Seed Weight	Seeds/Pound	Seed Yield
	(DAP) <sup>1</sup>	(inch)	(lb/bu)	(gram)	(seeds)	(lb/a)
La Paz	95	18.2	62.9	31.4	1,447	3,457
Lariat	97	12.1	60.7	36.8	1,233	3,903
Maverick	93	13.5	60.5	37.1	1,223	3,381
ND-307	93	18.2	57.4	38.1	1,194	2,549
Stampede	91	17.3	60.0	34.9	1,301	3,421
Windbreaker	88	11.2	58.3	35.1	1,294	2,664
Mean	93	15.1	60.0	35.6	1,282	3,229
C.V. %	3.9	16.7	1.1	3.7	3.7	17.8
LSD 0.05	6	3.6	0.9	1.9	69.2	835
LSD 0.10	5	3.0	0.8	1.6	57.4	692

**Table 23. 2015 Navy Bean Variety Trial - Irrigated - Williston - Authors, J. Jacobs and T. Tjelde.**

Variety	Maturity	Canopy Height	Test Weight	100 Seed Weight	Seeds/Pound	Yield
	(DAP) <sup>1</sup>	(inch)	(lb/bu)	(gram)	(seeds)	(lb/a)
Avalanche	95	16.1	65.1	18.2	2,490	2,821
Ensign	102	12.8	64.8	20.3	2,235	2,744
HMS Medalist	102	15.8	64.7	19.4	2,340	2,851
T9905	99	14.2	65.6	20.7	2,191	3,302
Vista	100	16.4	64.9	18.6	2,445	2,783
Mean	99	15.1	65.0	19.5	2,340	2,900
C.V. %	3.0	12.6	0.8	2.6	2.7	20.4
LSD 0.05	2	1.1	0.3	0.3	35.0	327
LSD 0.10	1	0.9	0.2	0.2	28.6	267

**Table 24. 2015 Dry Bean Variety Trial - Irrigated - Williston - Authors, J. Jacobs and T. Tjelde.**

Variety	Market Class	Maturity	Canopy Height	Test Weight	100 Seed Weight	Seeds/Pound	Yield
		(DAP) <sup>1</sup>	(inch)	(lb/bu)	(gram)	(seeds)	(lb/a)
Eclipse	Black	93	19.5	63.6	17.9	2,533	2,803
Loreto	Black	97	17.3	65.0	19.3	2,348	3,172
Zorro	Black	95	21.4	65.0	19.2	2,368	2,781
Montcalm	Kidney Bean	104	15.9	59.2	50.6	897	2,342
Pink Panther	Kidney Bean	97	15.3	58.0	56.2	808	2,312
Rosie	Kidney Bean	104	16.7	61.8	44.6	1,016	3,364
Talon	Kidney Bean	103	13.8	59.8	48.0	945	2,309
Merlot	Small Red	96	20.4	62.0	34.0	1,337	3,051
Rio Rojo	Small Red	92	18.9	63.6	26.9	1,691	3,323
Mean		98	17.7	62.0	35.2	1,549	2,829
C.V. %		2.2	10.3	0.6	2.8	3.5	18.4
LSD 0.05		3	2.7	0.6	1.5	78.4	652
LSD 0.10		3	2.2	0.5	1.2	65.0	541

Planted: June 8. Harvested: Oct. 16. Previous crop: barley.

<sup>1</sup>Days after planting.

**Table 25. Pinto Bean Variety Descriptions.**

Class and Cultivar	Origin	RM <sup>1</sup>	Plant Type <sup>2</sup>
<b>PINTO</b>			
Buster	Seminis	ME	UV
Croissant	CSU	L	V
Durango	Provita	E	V
El Diablo Fu	GenTec	--	--
El Dorado	MSU	L	USV
Galeena	Provita	L	V
GTS-904	GenTec	L	UV
GTS-907	GenTec	M	UV
La Paz	Provita	L	USV
Lariat	NDSU	L	USV
Long's Peak	CSU	L	USV
Marmot	Meridian Seeds	--	--
Maverick	NDSU	ME	V
Monterrey	Provita	ME	USV
ND-307	NDSU	M	UV
Odyssey	Idaho Seed Bean	ME	V
PIN 1012	Seminis	ME	--
PIN 1314	Seminis	ME	--
Santa Cruz	Provita	M	USV
Santa Fe	MSU	M	USV
Sequoia	Idaho Seed Bean	ML	USV
Sinaloa	Provita	ML	USV
Sonora	Provita	E	V
Stampede	NDSU	M	USV
SV6139GR	Seminis	--	--
SV6533GR	Seminis	--	--
Windbreaker	Seminis	M	UV

Not all entries appear in the table due to lack of information.

<sup>1</sup>RM = Relative Maturity; E = Early; ME = Medium Early;

M = Medium; ML = Medium Late; L = Late.

<sup>2</sup>V = Vine; UV = Upright Vine; USV = Upright Short Vine;

B = Bush.

**Table 26. Navy Bean Variety Descriptions.**

Class and Cultivar	Origin	RM <sup>1</sup>	Plant Type <sup>2</sup>
<b>NAVY</b>			
Alpena	MSU	ME	USV
Avalanche	NDSU	ME	USV
Bolt	Ag. Can.	--	--
Cascade	Idaho Seed Bean	M	USV
CDC Whitecap	U. Sask	M	USV
DS105W0	Dow AgroSciences	--	--
Ensign	ADM-Seedwest	M	USV
Fathom	U of Guelph	--	--
GTS-544	GenTec	M	USV
GTS-564	GenTec	M	USV
HMS Medalist	Provita	M	UV
HY 4181	Hyland	E	USV
IG-10M	GenTec	--	--
Indi	ADM-Seedwest	M	USV
Lightning	U. of Guelph	M	UV
Merlin	Provita	M	USV
Mist	Ag. Can.	--	--
Nautica	Ag. Can.	ML	USV
Nav 1200	Seminis	ML	USV
Nav 1246	Seminis	ML	USV
Norstar	NDSU	ME	USV
OB-1723-03	GenTec	--	--
OB-1723-06	GenTec	M	UV
OB-3739-03	GenTec	--	--
OB-3970-03	GenTec	--	--
Portage	Ag. Can.	ME	USV
Regent	Ag. Can.	ME	UV
Reliant	GenTec	ME/M	--
Rexeter	U. of Guelph	--	USV
Seabiskit	ADM	ME	USV
SV1893GH	Seminis	--	--
T9905	Hyland	ME	USV
Vigilant	Provita	ME	USV
Viscount	GenTec	L	USV
Vista	Ag. Can.	ML	USV

Not all entries appear in the table due to lack of information.

<sup>1</sup>RM = Relative Maturity; E = Early; ME = Medium Early;

M = Medium; ML = Medium Late; L = Late.

<sup>2</sup>V = Vine; UV = Upright Vine; USV = Upright Short Vine;

B = Bush.

**Table 27. Small Red, Black, Pink and Yellow Bean Variety Descriptions.**

Class and Cultivar	Origin	RM <sup>1</sup>	Plant Type <sup>2</sup>
<b>SMALL RED</b>			
Merlot	MSU	ME	USV
Rio Rojo	NDSU	ME	USV
Ruby	Provita	M	USV
<b>BLACK</b>			
BKB 1312	Seminis	ME	USV
BKB 1313	Seminis	ME	USV
Black Cat	Provita	ME	USV
Blackhawk	MSU	L	USV
Carman Black	Ag. Can.	E	USV
COB-698-03	GenTec	ME	USV
Eclipse	NDSU	M	USV
GTS-1103	GenTec	M	USV
Loreto	Provita	M	USV
Super Jet	U. Sask.	ME	USV
SV6894GB	Seminis	--	--
T-39	U. Calif.	M	USV
Zenith	MSU	M	USV
Zorro	MSU	L	USV
<b>PINK</b>			
Floyd	Rogers	ML	V
Rosetta	MSU/ARS	M	USV
Sedona	MSU/ARS	M	USV
<b>YELLOW</b>			
Canario	U.C. Davis	L	V
<b>FLOR de JUNIO</b>			
Desert Song	MSU	--	--
<b>FLOR de MAYO</b>			
Gypsy Rose	MSU	ML	V

Not all entries appear in the table due to lack of information.

<sup>1</sup>RM = Relative Maturity; E = Early; ME = Medium Early;

M = Medium; ML = Medium Late; L = Late.

<sup>2</sup>V = Vine; UV = Upright Vine; USV = Upright Short Vine;

B = Bush.

**Table 28. Light Red, Dark Red and White Kidney, Great Northern, Cranberry and Otebo Bean Variety Descriptions.**

Class and Cultivar	Origin	RM <sup>1</sup>	Plant Type <sup>2</sup>
<b>LIGHT RED KIDNEY</b>			
Big Red	Provita	--	--
Blush	WSU/USDA	ML	B
California Early (CELRK)	U. Calif.	E	B
Chinook 2000	MSU	M	B
Clouseau	Seminis	M	B
Foxfire	Rogers	ME	B
OAC Inferno	U. of Guelph	ML	B
OAC Lyrik	U. of Guelph	ME	B
Pink Panther	Seminis	M	B
Rosie	NDSU	L	B
Sacramento	Agri-Sales	E	B
<b>DARK RED KIDNEY</b>			
Cabernet	Seminis	ML	B
Drake	Seminis	M	B
Dynasty	U. of Guelph	ML	B
GTS-104	GenTec	M	B
GTS-106	GenTec	M	B
KDD 1013	Seminis	M	B
KDD 1030	Seminis	ME	B
Majesty	Ag. Can.	ML	B
Montcalm	MSU	ML	B
Red Rover	Seminis	ME	B
Redhawk	MSU	M	B
Talon	NDSU	M	B
<b>WHITE KIDNEY</b>			
Beluga	MSU	M	B
Silver Cloud	WSU/USDA	E	B
Snowdon	MSU	ME	B
Yeti	U. of Guelph	ML	B
<b>GREAT NORTHERN</b>			
Aries	Provita	ME	USV
Beryl	Rogers	M	V
Coyne	U. Nebraska	ML	V
Draco	Provita	M	USV
Gemini	Provita	E	V
Matterhorn	MSU	ME	USV
Orion	Provita	E	V
Powderhorn	MSU	M	USV
Taurus	Kelly Bean Co.	L	USV
<b>CRANBERRY</b>			
Bellagio	MSU	ML	V
<b>OTEBO</b>			
Fuji	MSU	E	B

Not all entries appear in the table due to lack of information.

<sup>1</sup>RM = Relative Maturity; E = Early; ME = Medium Early; M = Medium; ML = Medium Late; L = Late.

<sup>2</sup>V = Vine; UV = Upright Vine; USV = Upright Short Vine; B = Bush.





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