

2015 Nebraska Dry Edible Bean Variety Trials

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The 2015 dry bean variety trials were planted at two locations this past year. A Great Northern, Kidney, and Pinto trial was planted at the Mitchell Ag Lab. All market classes and the Cooperative Dry Bean Nursery were planted at the Scottsbluff Ag Lab.

The Mitchell Pinto, Kidney and Great Northern trials were planted with a Hege cone planter on June 3. The Scottsbluff trial was planted on June 5. Seeding rates of 85,000 seeds per acre were used for all market classes except the kidneys, which were planted at the rate of 100,000 seeds per acre. The herbicides Sonalan and Eptam were incorporated prior to planting. Treatments were replicated 4 times. Fertilizer was applied according to soil test recommendations. Row width was 22 inches. Plot size was 4 rows wide by 25 feet long. Stands were good at all sites. The Scottsbluff site was furrow irrigated and the Mitchell site was sprinkler irrigated. Fields were irrigated every 7 to 9 days from late June to late August. The Mitchell site was hailed on 6/17/2015 with some stand loss. The Scottsbluff site was also hailed on 6/17 and also on 7/27. The site was treated with copper on 8/3, disease pressure was heavy on rep 4 and lighter in reps 3 and 2 and non-existent in rep 1.

The Mitchell Pinto, Kidney, Great Northern site was undercut on Sept. 14 and harvested Sept 17 and 18. The Scottsbluff site was undercut on Sept. 21 and the center two rows of each plot were harvested with a Wintersteiger plot combine with a finger pickup attachment on Sept. 23, 24 and 25.

Yield- lbs per acre corrected to 14% moisture

DTF- Days to Flower

DTM – Days to Maturity

Test WT – lbs/bu

Plant Type – 1A Determinate upright, 2b indeterminate upright, 3a indeterminate prostrate short vine, 3b indeterminate prostrate long vine.

| 2015 | GN Scottsbluff | | | | | | |
|---------------|---------------------------|-------------|-------------|---------------------|---------------------|---------------|-----------------------|
| Var. # | Variety | DTF | DTM | Moist. % | Test Wt. | Yield | Plant Type |
| 23 | NE1-12-15 | 40 | 82 | 10.1 | 60.8 | 2845 | 2b |
| 14 | PV 13172 | 40 | 85 | 10.4 | 60.1 | 2660 | 3a/3b |
| 24 | NE3-14-15 | 40 | 83 | 10.4 | 60.2 | 2596 | 2b |
| 8 | PV 8165 | 40 | 85 | 10.8 | 60.3 | 2317 | 2b |
| 3 | Taurus (03138) | 41 | 89 | 10.7 | 62.3 | 2285 | 3b |
| 4 | Aries (905106) | 41 | 83 | 10.5 | 61.8 | 2280 | 2b |
| 6 | Draco 6107 | 40 | 85 | 10.4 | 61.4 | 2251 | 3a |
| 12 | PV 11114 | 40 | 88 | 11.0 | 58.3 | 2249 | 2b/3a |
| 11 | PV 8159 | 40 | 82 | 10.5 | 62.6 | 2203 | 3a |
| 18 | Marquis | 40 | 86 | 10.2 | 61.9 | 2173 | 3b |
| 13 | PV 11117 | 40 | 83 | 10.4 | 63.2 | 2162 | 2b |
| 15 | PV 13150 | 40 | 87 | 10.7 | 61.7 | 2157 | 2b |
| 25 | NE1-15-5 | 40 | 86 | 10.6 | 61.8 | 2155 | 3a |
| 17 | Beryl R | 40 | 81 | 10.1 | 62.0 | 2155 | 3b |
| 5 | Hydra 7111 | 40 | 84 | 10.6 | 61.5 | 2128 | 3b |
| 7 | PV 8162 | 40 | 86 | 10.4 | 60.0 | 2109 | 3a/3b |
| 22 | NE 1-14-13 | 40 | 82 | 10.1 | 62.4 | 2102 | 3a/3b |
| 10 | PV 8166 | 40 | 84 | 10.5 | 60.4 | 2086 | 2b/3a |
| 16 | PV 6039057 | 40 | 81 | 10.0 | 59.4 | 2046 | 2b |
| 2 | Gemini | 39 | 79 | 10.3 | 61.8 | 1977 | 3b |
| 1 | Orion | 40 | 87 | 10.4 | 61.3 | 1973 | 3a/3b |
| 20 | Powderhorn | 40 | 80 | 10.3 | 58.4 | 1942 | 2b |
| 19 | Coyne | 40 | 84 | 10.5 | 61.4 | 1936 | 3a |
| 21 | Ivory | 40 | 78 | 10.2 | 60.0 | 1856 | 3b |
| 9 | PV 8148 | 40 | 81 | 10.5 | 62.1 | 1693 | 3a |
| | Mean | 39.9 | 83.4 | 10.4 | 61.1 | 2173.0 | |
| | CV % | 1.9 | 2.7 | 1.5 | 0.8 | 9.8 | |
| | LSD 5% | 1.1 | 3.2 | 0.2 | 0.7 | 300.0 | |

| 2015 | GN Mitchell | | | | | | |
|-------------------|-------------------|-------------|-------------|-------------|-------------|-------------|------------|
| Var # | Variety | DTF | DTM | Moist % | Test Wt. | Yield | Plant Type |
| 6 | Draco 6107 | 40 | 90 | 10.2 | 61.5 | 3326 | 3a |
| 8 | PV 8165 | 45 | 90 | 10.4 | 61.5 | 3087 | 2b |
| 14 | PV 13172 | 44 | 91 | 10.1 | 60.9 | 3079 | 3a |
| 12 | PV 11114 | 44 | 93 | 10.1 | 59.8 | 2917 | 3a |
| 7 | PV 8162 | 43 | 91 | 10.2 | 61.4 | 2822 | 3a/3b |
| 4 | Aries (905106) | 41 | 88 | 10.1 | 61.7 | 2813 | 2b |
| 18 | Marquis | 43 | 90 | 10.0 | 62.3 | 2792 | 3b |
| 5 | Hydra 7111 | 42 | 86 | 10.1 | 61.8 | 2764 | 3a/3b |
| 15 | PV 13150 | 42 | 92 | 10.2 | 62.1 | 2742 | 2b |
| 25 | NE1-15-5 | 41 | 86 | 10.3 | 62.5 | 2721 | 2b/3a |
| 23 | NE1-12-15 | 42 | 87 | 9.8 | 60.7 | 2708 | 2b/3a |
| 3 | Taurus (03138) | 46 | 92 | 10.3 | 63.3 | 2658 | 3a/3b |
| 9 | PV 8148 | 41 | 81 | 10.0 | 62.7 | 2647 | 3a |
| 17 | Beryl R | 41 | 86 | 9.8 | 62.7 | 2593 | 3b |
| 1 | Orion | 42 | 88 | 9.9 | 61.1 | 2579 | 3a |
| 10 | PV 8166 | 42 | 89 | 10.1 | 61.3 | 2568 | 2b |
| 13 | PV 11117 | 42 | 90 | 10.0 | 63.3 | 2552 | 2b |
| 22 | NE 1-14-13 | 42 | 87 | 9.9 | 63.1 | 2502 | 3a |
| 21 | Ivory | 40 | 76 | 9.7 | 60.7 | 2479 | 3b |
| 11 | PV 8159 | 41 | 85 | 10.1 | 63.0 | 2410 | 3a |
| 16 | PV 6039057 | 41 | 85 | 9.8 | 61.0 | 2400 | 2b/3a |
| 19 | Coyne | 41 | 87 | 10.1 | 62.4 | 2323 | 2b/3a |
| 20 | Powderhorn | 41 | 82 | 9.6 | 60.0 | 2305 | 2b |
| 2 | Gemini | 40 | 79 | 9.8 | 61.6 | 2254 | 3a |
| 24 | NE3-14-15 | 43 | 89 | 9.9 | 60.8 | 2111 | 2b |
| Means | | 41.8 | 87.1 | 10 | 61.7 | 2646 | |
| CV % | | 3.1 | 2.7 | 1.5 | 0.8 | 10.1 | |
| LSD 5% | | 1.8 | 3.2 | 0.21 | 0.71 | 376 | |

| 2015 Pinto SB | | | | | | | |
|----------------------|--------------------|-------------|-------------|-----------------|-----------------|--------------|-------------------|
| Var. # | Variety | DTF | DTM | Moist. % | Test Wt. | Yield | Plant Type |
| 51 | NE 4-14-42 | 40 | 86 | 10.2 | 57.0 | 2602 | 3a |
| 26 | La Paz | 43 | 86 | 10.5 | 61.8 | 2600 | 2b |
| 32 | PV 11278 | 42 | 89 | 10.4 | 61.2 | 2526 | 2b |
| 33 | PV 11299 | 42 | 86 | 10.5 | 61.4 | 2510 | 2b |
| 34 | PV 11303 | 42 | 86 | 10.6 | 61.8 | 2454 | 3a |
| 27 | Sinaloa (06203) | 42 | 86 | 10.5 | 61.4 | 2420 | 2b |
| 39 | CROISSANT | 42 | 84 | 9.8 | 60.6 | 2417 | 3b |
| 53 | NE2-14-7 | 39 | 83 | 10.1 | 58.3 | 2381 | 3a/3b |
| 41 | Centennial | 43 | 87 | 10.5 | 61.1 | 2367 | 2b |
| 50 | NE 4-14-14 | 42 | 89 | 11.1 | 57.0 | 2357 | 3b |
| 52 | NE 4-19-53 | 42 | 87 | 10.3 | 57.8 | 2344 | 3a |
| 28 | Monterrey (06185) | 42 | 86 | 10.4 | 62.0 | 2327 | 2b |
| 47 | Galeena | 41 | 87 | 10.7 | 60.5 | 2322 | 3b |
| 29 | Santa Cruz (06189) | 41 | 85 | 10.7 | 61.1 | 2302 | 2b |
| 43 | SV6139GR | 41 | 82 | 10.1 | 61.4 | 2253 | 2b |
| 42 | Windbreaker | 42 | 83 | 10.1 | 58.7 | 2175 | 3a |
| 38 | El Diablo Fu | 42 | 83 | 11.2 | 57.5 | 1973 | 3a |
| 31 | Torreón (06206) | 40 | 82 | 10.2 | 62.1 | 1967 | 2b |
| 46 | ND 307 | 40 | 86 | 10.1 | 57.2 | 1964 | 3a |
| 35 | PV 10305 | 40 | 87 | 10.7 | 61.6 | 1947 | 2b |
| 40 | LONG'S PEAK | 41 | 85 | 10.1 | 58.8 | 1930 | 2b/3a |
| 44 | SV6533GR | 40 | 81 | 10.0 | 61.3 | 1929 | 2b |
| 48 | Montrose | 40 | 81 | 9.9 | 59.3 | 1853 | 3b |
| 45 | Poncho | 40 | 81 | 10.0 | 59.9 | 1732 | 3b |
| 30 | PV 8257 | 39 | 82 | 10.2 | 60.2 | 1512 | 2b |
| 36 | GTS 904 | 42 | 84 | 10.4 | 58.9 | 1405 | 2b/3a |
| 37 | GTS 907 | 43 | 83 | 10.4 | 58.9 | 1404 | 2b |
| 49 | Medicine Hat | 41 | 81 | 10.1 | 59.4 | 1101 | 2b |
| | Means | 41.1 | 84.4 | 10.3 | 59.9 | 2110 | |
| | CV % | 4 | 4.1 | 2.2 | 0.78 | 125 | |
| | LSD 5% | 2.3 | 4.9 | 0.31 | 0.66 | 372 | |

| 2015 | Pinto MT | | | | | | |
|--------|--------------------|------------|------------|-------------|-------------|--------------|------------|
| Var. # | Variety | DTF | DTM | Moist. % | Test Wt. | Yield | Plant Type |
| 47 | Galeena | 46 | 93 | 10.3 | 61.0 | 3330 | 3b |
| 48 | Montrose | 43 | 85 | 9.7 | 60.6 | 3323 | 3b |
| 50 | NE 4-14-14 | 44 | 93 | 10.1 | 58.2 | 3234 | 3b |
| 28 | Monterrey (06185) | 45 | 91 | 10.5 | 62.4 | 3170 | 2b |
| 45 | Poncho | 40 | 80 | 9.9 | 61.5 | 3146 | 3b |
| 36 | GTS 904 | 44 | 88 | 10.1 | 60.0 | 3137 | 3b |
| 27 | Sinaloa (06203) | 42 | 89 | 10.2 | 61.9 | 3133 | 2b |
| 26 | La Paz | 44 | 90 | 10.4 | 61.9 | 3117 | 2b |
| 33 | PV 11299 | 44 | 90 | 10.5 | 61.8 | 3050 | 2b |
| 31 | Torreon (06206) | 44 | 88 | 10.1 | 62.2 | 3037 | 2b |
| 42 | Windbreaker | 43 | 87 | 10.0 | 58.7 | 3022 | 3a/3b |
| 29 | Santa Cruz (06189) | 44 | 89 | 10.6 | 61.3 | 2978 | 2b/3a |
| 46 | ND 307 | 44 | 88 | 10.3 | 59.0 | 2941 | 3a |
| 34 | PV 11303 | 45 | 89 | 10.4 | 61.9 | 2920 | 2b/3a |
| 32 | PV 11278 | 43 | 86 | 10.2 | 61.1 | 2882 | 2b |
| 37 | GTS 907 | 43 | 88 | 10.1 | 59.8 | 2879 | 2b |
| 51 | NE 4-14-42 | 42 | 88 | 10.1 | 57.4 | 2877 | 3a |
| 35 | PV 10305 | 45 | 90 | 10.3 | 61.6 | 2844 | 3a |
| 52 | NE 4-19-53 | 42 | 88 | 9.9 | 57.9 | 2814 | 3a |
| 30 | PV 8257 | 42 | 85 | 10.0 | 60.8 | 2713 | 2b |
| 43 | SV6139GR | 42 | 86 | 10.1 | 61.7 | 2712 | 2b |
| 53 | NE2-14-7 | 41 | 89 | 10.2 | 59.4 | 2678 | 3b |
| 41 | Centennial | 44 | 91 | 10.4 | 61.8 | 2676 | 3a |
| 38 | El Diablo Fu | 45 | 86 | 10.0 | 58.6 | 2657 | 3a |
| 39 | CROISSANT | 45 | 90 | 9.8 | 61.1 | 2628 | 3a/3b |
| 49 | Medicine Hat | 43 | 87 | 9.9 | 60.5 | 2496 | 2b/3a |
| 40 | LONG'S PEAK | 45 | 90 | 10.5 | 60.4 | 2480 | 3a |
| 44 | SV6533GR | 40 | 81 | 9.9 | 60.9 | 1918 | 2b |
| | Means | 43 | 88 | 10.1 | 60.5 | 2885 | |
| | CV % | 3.5 | 2.3 | 1.90 | 0.80 | 12.5 | |
| | LSD 5% | 2.1 | 2.9 | 0.28 | 0.68 | 507.0 | |

| 2015 Kidney SB | | | | | | | |
|-----------------------|-----------------|-----------|-------------|-------------|-----------------|-----------------|--------------|
| Var. # | Variety | MC | DTF | DTM | Moist. % | Test Wt. | Yield |
| 97 | PV 7323 | DRK | 40 | 86 | 10.4 | 56.3 | 1117 |
| 96 | PV 9424 | DRK | 40 | 92 | 10.6 | 56.5 | 1040 |
| 94 | NE 10-14-12 | LRK | 39 | 80 | 10.3 | 55.0 | 1011 |
| 98 | PV 9431 | DRK | 40 | 86 | 10.1 | 56.1 | 1009 |
| 84 | PV 9378 | LRK | 39 | 82 | 10.1 | 55.7 | 983 |
| 102 | PV 9426 | DRK | 39 | 88 | 10.2 | 56.3 | 928 |
| 79 | PV 6269 | LRK | 41 | 85 | 10.1 | 56.1 | 918 |
| 80 | Big Red (09351) | LRK | 39 | 80 | 10.2 | 55.3 | 825 |
| 83 | PV 9356 | LRK | 41 | 87 | 10.2 | 55.4 | 816 |
| 92 | Pink Panther | LRK | 39 | 80 | 10.2 | 54.4 | 811 |
| 100 | Montcalm | DRK | 39 | 84 | 9.9 | 53.3 | 757 |
| 85 | PV 9357 | LRK | 39 | 78 | 10.0 | 54.6 | 723 |
| 87 | PV 9360 | LRK | 40 | 85 | 10.3 | 55.8 | 716 |
| 88 | PV 9363 | LRK | 39 | 79 | 10.0 | 53.6 | 692 |
| 99 | PV 9430 | DRK | 39 | 84 | 10.3 | 56.3 | 601 |
| 90 | PV 9384 | LRK | 42 | 88 | 10.3 | 56.1 | 563 |
| 101 | Redhawk | DRK | 39 | 84 | 10.3 | 53.4 | 542 |
| 81 | PV 9353 | LRK | 40 | 86 | 10.0 | 56.0 | 541 |
| 91 | Pink Panther | LRK | 39 | 80 | 10.4 | 54.3 | 519 |
| 95 | NE 10-14-29 | LRK | 41 | 82 | 10.1 | 53.9 | 502 |
| 86 | PV 7302 | LRK | 39 | 85 | 10.0 | 54.4 | 502 |
| 89 | PV 9394 | LRK | 40 | 87 | 10.4 | 54.4 | 470 |
| 82 | PV 9354 | LRK | 40 | 87 | 10.2 | 55.5 | 444 |
| 93 | CELRK | LRK | 40 | 81 | 10.1 | 51.2 | 211 |
| | Means | | 39.6 | 83.9 | 10.2 | 55 | 718 |
| | CV % | | 2.2 | 2.6 | 1.9 | 2.9 | 28 |
| | LSD 5% | | 1.2 | 3.2 | 0.28 | 2.3 | 287 |

| 2015 | Kidney MT | | | | | | |
|--------|--------------------|-----|-------------|-------------|------------|-------------|--------------|
| Var. # | Variety | MC | DTF | DTM | Moist. % | Test Wt. | Yield |
| 96 | PV 9424 | DRK | 44 | 94 | 10.1 | 57.8 | 2361 |
| 87 | PV 9360 | LRK | 41 | 90 | 9.6 | 58.6 | 2303 |
| 86 | PV 7302 | LRK | 41 | 90 | 9.2 | 57.5 | 2276 |
| 89 | PV 9394 | LRK | 43 | 93 | 9.7 | 57.4 | 2245 |
| 83 | PV 9356 | LRK | 45 | 92 | 9.6 | 57.7 | 2184 |
| 102 | PV 9426 | DRK | 41 | 93 | 9.3 | 59.3 | 2164 |
| 80 | Big Red (09351) | LRK | 40 | 86 | 9.5 | 58.8 | 2061 |
| 82 | PV 9354 | LRK | 43 | 91 | 9.6 | 57.8 | 2058 |
| 98 | PV 9431 | DRK | 43 | 92 | 9.8 | 58.5 | 1989 |
| 97 | PV 7323 | DRK | 41 | 90 | 9.6 | 58.5 | 1984 |
| 84 | PV 9378 | LRK | 40 | 83 | 9.4 | 58.3 | 1942 |
| 85 | PV 9357 | LRK | 39 | 79 | 9.4 | 58.2 | 1929 |
| 90 | PV 9384 | LRK | 43 | 91 | 9.6 | 58.4 | 1869 |
| 100 | Montcalm | DRK | 40 | 91 | 9.1 | 58.3 | 1824 |
| 99 | PV 9430 | DRK | 40 | 91 | 9.5 | 59.3 | 1806 |
| 79 | PV 6269 | LRK | 43 | 89 | 9.4 | 57.3 | 1639 |
| 88 | PV 9363 | LRK | 39 | 78 | 9.1 | 56.8 | 1581 |
| 101 | Redhawk | DRK | 40 | 85 | 9.2 | 56.4 | 1556 |
| 81 | PV 9353 | LRK | 43 | 91 | 9.4 | 58.9 | 1394 |
| 93 | CELRK | LRK | 41 | 85 | 9.4 | 57.2 | 1298 |
| 92 | Pink Panther | LRK | 40 | 90 | 9.6 | 57.7 | 1151 |
| 91 | Pink Panther | LRK | 40 | 86 | 9.6 | 57.8 | 781 |
| | Means | | 41.2 | 88.5 | 9.5 | 58.0 | 1836 |
| | CV % | | 3.5 | 2.1 | 1.5 | 1.2 | 8.4 |
| | LSD 5% | | 2.1 | 2.7 | 0.2 | 1.0 | 218.0 |

| 2015 | Small MC | | | | | | |
|--------|-------------------|----|------------|------------|-------------|-------------|-------------|
| Var. # | Variety | MC | DTF | DTM | Moist. % | Test Wt. | Yield |
| 60 | B00442613 | BL | 43 | 89 | 10.9 | 62.4 | 2483 |
| 56 | PV 4352 | BL | 43 | 91 | 11.2 | 62.8 | 2434 |
| 62 | NE 14-14-3 | BL | 43 | 87 | 10.7 | 60.7 | 2243 |
| 63 | NE 14-14-22 | BL | 42 | 84 | 10.6 | 60.5 | 2004 |
| 55 | Black Cat (06252) | BL | 43 | 86 | 9.9 | 62.1 | 1988 |
| 61 | B8006282 | BL | 43 | 86 | 10.0 | 62.2 | 1975 |
| 59 | Shania | BL | 44 | 90 | 10.8 | 62.5 | 1919 |
| 54 | Loreto | BL | 43 | 88 | 11.2 | 62.1 | 1788 |
| 58 | PV 13489 | BL | 44 | 84 | 10.2 | 63.1 | 1780 |
| 57 | PV 12576 | BL | 43 | 86 | 11.0 | 62.8 | 1579 |
| 64 | HMS Medalist | NA | 43 | 90 | 11.6 | 61.8 | 1932 |
| 67 | PV 7073 | NA | 43 | 87 | 11.3 | 62.1 | 1874 |
| 69 | PV 8072 | NA | 43 | 88 | 11.6 | 61.5 | 1862 |
| 73 | Ensign | NA | 42 | 82 | 11.2 | 61.3 | 1828 |
| 70 | PV 6063 | NA | 43 | 87 | 11.4 | 61.0 | 1650 |
| 71 | PV 12047 | NA | 44 | 91 | 11.6 | 62.5 | 1614 |
| 68 | PV 8070 | NA | 41 | 86 | 11.2 | 63.2 | 1586 |
| 72 | PV 12051 | NA | 43 | 85 | 11.5 | 62.0 | 1500 |
| 65 | Vigilant (02084) | NA | 44 | 87 | 11.4 | 61.8 | 1384 |
| 66 | Merlin (03019) | NA | 44 | 89 | 11.3 | 61.6 | 1055 |
| 77 | NE 13-14-10 | SR | 42 | 90 | 10.9 | 62.2 | 2482 |
| 75 | Ruby (09304) | SR | 43 | 88 | 10.8 | 61.7 | 2402 |
| 78 | NE 13-14-3 | SR | 42 | 80 | 10.5 | 60.5 | 2209 |
| 74 | Viper (09303) | SR | 44 | 87 | 10.9 | 62.0 | 2139 |
| 76 | PV 11511 | SR | 44 | 90 | 11.1 | 61.7 | 2028 |
| | Means | | 43 | 87 | 11 | 61.9 | 1909 |
| | CV % | | 2.7 | 2.5 | 1.8 | 0.65 | 126 |
| | LSD 5% | | 1.6 | 3.1 | 0.28 | 0.57 | 338 |