

North Central Research Extension Center

Historic HRSW Variety Trial at Minot

| Variety | Year Released | Origin | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Avg. |
|--------------|---------------|---------|------------------|------------------|--------------|--------------|------------------|------------------|-------------|-------------|---------|---------|-------|---------|-------|---------|------|
| | | | Days to Head | Days to Head | Plant Height | Plant Height | Lodging | Lodging | Test Weight | Test Weight | Protein | Protein | Yield | Yield | Yield | Yield | |
| | | | DAP ¹ | DAP ¹ | inches | inches | 0-9 ² | 0-9 ² | lbs/bu | lbs/bu | % | % | Bu/A | Bu/A | Bu/A | Bu/A | |
| Marquis | 1910 | Ontario | 60 | 61 | 43 | 43 | 3 | 3 | 59.7 | 58.0 | 15.1 | 14.8 | 58.1 | 49.3 | 41.0 | 49.5 | |
| Ceres | 1926 | ND | 56 | 58 | 38 | 41 | 3 | 2 | 59.3 | 59.2 | 16.4 | 15.3 | 56.4 | 53.6 | 41.0 | 50.3 | |
| Thatcher | 1935 | MN | 55 | 58 | 38 | 41 | 2 | 3 | 58.4 | 57.3 | 16.1 | 14.6 | 63.2 | 54.9 | 40.5 | 52.9 | |
| Pilot | 1938 | ND | 57 | 59 | 38 | 41 | 3 | 3 | 58.7 | 58.3 | 16.1 | 14.3 | 59.7 | 52.4 | 40.1 | 50.7 | |
| Rushmore | 1940 | SD | 56 | 56 | 39 | 41 | 2 | 2 | 58.4 | 57.5 | 15.7 | 15.5 | 56.8 | 51.6 | 42.5 | 50.3 | |
| Renown | 1940 | MB | 65 | 65 | 44 | 45 | 2 | 1 | 55.3 | 52.9 | 15.2 | 14.3 | 49.8 | 39.5 | -- | -- | |
| Regent | 1940 | MB | 54 | 56 | 37 | 41 | 4 | 4 | 58.1 | 56.8 | 16.3 | 15.0 | 55.8 | 46.8 | 32.9 | 45.2 | |
| Rival | 1941 | ND | 60 | 60 | 42 | 44 | 2 | 2 | 58.2 | 58.5 | 15.5 | 14.7 | 52.4 | 48.3 | -- | -- | |
| Vesta | 1942 | ND | 56 | 57 | 38 | 41 | 4 | 5 | 59.2 | 57.8 | 15.8 | 14.9 | 63.6 | 52.7 | 41.8 | 52.7 | |
| Mida | 1945 | ND | 55 | 57 | 41 | 45 | 2 | 3 | 59.9 | 59.1 | 15.1 | 14.4 | 61.5 | 53.4 | 35.8 | 50.2 | |
| Lee | 1950 | MN | 55 | 55 | 34 | 37 | 3 | 4 | 58.4 | 57.2 | 15.9 | 15.4 | 56.7 | 55.0 | 43.1 | 51.6 | |
| Selkirk | 1953 | MB | 56 | 56 | 39 | 40 | 2 | 2 | 56.8 | 55.9 | 15.6 | 14.7 | 56.2 | 52.3 | 47.2 | 51.9 | |
| Conley | 1960 | ND | 59 | 60 | 40 | 42 | 1 | 1 | 57.6 | 56.6 | 16.4 | 15.3 | 49.6 | 44.1 | 34.1 | 42.6 | |
| Pembina | 1963 | MB | 57 | 59 | 36 | 40 | 3 | 3 | 57.2 | 55.7 | 14.9 | 14.3 | 58.0 | 47.3 | 45.5 | 50.3 | |
| Justin | 1963 | ND | 57 | 60 | 42 | 41 | 1 | 1 | 58.9 | 57.4 | 16.4 | 16.3 | 56.6 | 48.9 | 34.1 | 46.5 | |
| Chris | 1967 | MN | 55 | 58 | 40 | 40 | 3 | 4 | 59.2 | 58.6 | 15.6 | 15.7 | 59.6 | 55.3 | 40.8 | 51.9 | |
| Fortuna | 1967 | ND | 55 | 56 | 39 | 41 | 4 | 5 | 59.5 | 57.0 | 14.8 | 14.4 | 59.9 | 52.9 | 39.0 | 50.6 | |
| Red River 68 | 1968 | CA | 55 | 58 | 38 | 40 | 3 | 3 | 58.6 | 57.4 | 15.8 | 15.4 | 70.5 | 55.5 | -- | -- | |
| Waldron | 1969 | ND | 56 | 55 | 40 | 41 | 1 | 1 | 57.9 | 57.4 | 15.9 | 15.2 | 65.7 | 62.3 | 56.6 | 61.6 | |
| Polk | 1971 | MN | 56 | 55 | 39 | 40 | 2 | 4 | 60.4 | 60.1 | 15.0 | 14.2 | 64.2 | 65.5 | -- | -- | |
| Era | 1971 | MN | 57 | 58 | 31 | 31 | 0 | 0 | 59.7 | 57.5 | 13.2 | 12.8 | 77.9 | 65.8 | 69.7 | 71.1 | |
| Lark | 1971 | CA | 55 | 56 | 29 | 28 | 0 | 1 | 59.2 | 57.5 | 14.4 | 14.0 | 64.3 | 56.2 | 45.2 | 55.3 | |
| Olaf | 1973 | ND | 56 | 59 | 33 | 32 | 0 | 0 | 58.0 | 56.1 | 15.0 | 15.3 | 57.2 | 48.2 | 52.1 | 52.5 | |
| Wared | 1974 | WA | 60 | 61 | 33 | 33 | 0 | 0 | 59.3 | 57.3 | 13.1 | 13.0 | 70.5 | 62.9 | -- | -- | |
| Kitt | 1976 | MN | 57 | 59 | 31 | 30 | 0 | 0 | 56.5 | 55.9 | 15.3 | 14.9 | 70.3 | 62.4 | -- | -- | |
| Butte | 1977 | ND | 52 | 53 | 35 | 37 | 1 | 2 | 61.7 | 60.1 | 14.9 | 14.3 | 74.2 | 62.8 | 54.6 | 63.9 | |
| Coteau | 1978 | ND | 58 | 60 | 38 | 38 | 0 | 0 | 56.5 | 55.9 | 16.7 | 17.0 | 55.4 | 48.2 | 43.3 | 49.0 | |
| Len | 1979 | ND | 56 | 59 | 33 | 31 | 0 | 0 | 58.8 | 57.0 | 15.4 | 15.3 | 68.1 | 57.5 | 63.7 | 63.1 | |
| Solar | 1979 | NB | 60 | 61 | 31 | 31 | 0 | 0 | 57.9 | 56.4 | 13.4 | 13.4 | 72.3 | 58.9 | -- | -- | |
| Oslo | 1981 | CO | 53 | 55 | 30 | 30 | 0 | 0 | 57.0 | 53.9 | 13.5 | 13.6 | 64.7 | 53.3 | -- | -- | |

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Historic HRSW Variety Trial at Minot Continued

| Variety | Year Released | Origin | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | No fung | Fung* | Avg. |
|------------|---------------|---------|------------------|------------------|--------------|--------------|------------------|------------------|-------------|-------------|---------|---------|------------|------------|------------|-------|
| | | | Days to Head | Days to Head | Plant Height | Plant Height | Lodging | Lodging | Test Weight | Test Weight | Protein | Protein | 2016 Yield | 2016 Yield | 2015 Yield | Yield |
| | | | DAP ¹ | DAP ¹ | inches | inches | 0-9 ² | 0-9 ² | lbs/bu | lbs/bu | % | % | Bu/A | Bu/A | Bu/A | Bu/A |
| Alex | 1981 | ND | 57 | 59 | 37 | 39 | 1 | 1 | 58.7 | 57.8 | 15.2 | 14.8 | 61.4 | 55.2 | 49.3 | 55.3 |
| 2369 | 1982 | Pioneer | 54 | 54 | 31 | 31 | 0 | 0 | 60.0 | 58.5 | 14.8 | 14.6 | 69.6 | 65.2 | 60.0 | 64.9 |
| Wheaton | 1984 | MN | 55 | 54 | 29 | 30 | 0 | 0 | 56.9 | 54.9 | 13.3 | 13.4 | 67.6 | 62.0 | -- | -- |
| Stoa | 1984 | ND | 57 | 56 | 37 | 38 | 0 | 0 | 58.6 | 57.1 | 14.6 | 14.4 | 69.7 | 63.6 | 63.8 | 65.7 |
| Marshall | 1985 | MN | 56 | 58 | 30 | 31 | 0 | 0 | 59.4 | 58.2 | 14.4 | 13.8 | 69.5 | 64.6 | 54.5 | 62.9 |
| Amidon | 1988 | ND | 56 | 56 | 38 | 39 | 1 | 1 | 59.1 | 58.3 | 15.1 | 14.3 | 69.4 | 69.3 | 62.8 | 67.2 |
| 2375 | 1989 | Pioneer | 53 | 54 | 30 | 32 | 1 | 2 | 60.1 | 58.9 | 14.8 | 14.5 | 71.4 | 60.1 | 67.8 | 66.4 |
| AC Barrie | 1997 | SK | 57 | 56 | 38 | 36 | 1 | 1 | 60.0 | 58.9 | 15.9 | 14.9 | 78.1 | 73.5 | -- | -- |
| Reeder | 1999 | ND | 54 | 53 | 32 | 33 | 0 | 0 | 60.2 | 59.4 | 15.8 | 14.7 | 76.4 | 72.0 | 70.8 | 73.1 |
| Alsen | 2000 | ND | 54 | 55 | 33 | 33 | 0 | 0 | 61.3 | 61.1 | 15.5 | 15.6 | 67.9 | 64.5 | 66.0 | 66.1 |
| Glenn | 2005 | ND | 52 | 53 | 32 | 34 | 1 | 0 | 63.3 | 63.1 | 15.5 | 15.0 | 71.1 | 69.5 | 67.0 | 69.2 |
| Faller | 2007 | ND | 55 | 57 | 33 | 34 | 0 | 0 | 60.5 | 59.5 | 14.0 | 13.5 | 83.2 | 76.2 | 73.7 | 77.7 |
| Elgin ND | 2012 | ND | 55 | 55 | 35 | 36 | 0 | 0 | 60.9 | 60.3 | 15.3 | 14.9 | 80.2 | 78.4 | -- | -- |
| Trial Mean | | | 56 | 57 | 36 | 37 | 1 | 2 | 58.9 | 57.7 | 15.2 | 14.7 | 64.8 | 58.0 | 50.6 | -- |
| C.V.% | | | 2.2 | 2.6 | 5.8 | 5.0 | 49 | 41 | 1.2 | 1.1 | 2.9 | 2.7 | 9.2 | 7.2 | 6.9 | -- |
| LSD 5% | | | 2 | 2 | 3 | 3 | 1 | 1 | 1.1 | 1.0 | 0.7 | 0.6 | 9.7 | 6.8 | 4.9 | -- |
| LSD 10% | | | 2 | 2 | 3 | 3 | 1 | 1 | 0.9 | 0.9 | 0.6 | 0.5 | 8.1 | 5.6 | 4.1 | -- |

¹ DAP = Days after planting.

² Lodging: 0 = none, 9 = lying flat on the ground.

*Fungicide: 8 oz/A Headline SC with herb (May 30) and 8 oz/A Prosaro applied at flowering (July 3).

Planting Date: May 2

Planting Rate: 1.25 million PLS/A

Harvest Date: August 15

Previous Crop: 2014 = flax, 2015 = soybean

Tillage: No-till

Soil Type: Williams Loam