# RESULTS OF AMERICAN CRYSTAL'S 2014 OFFICIAL CODED VARIETY TRIALS

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**American Crystal's coded variety trials are designed to provide an unbiased evaluation of the genetic potential of sugarbeet variety entries under several different environments. The two-year average of these evaluations then are used to establish a list of approved varieties which ensures the use of high quality, productive varieties to maximize returns for growers and the cooperative as a whole.**

This report presents data from the 2014 American Crystal and Minn-Dak official trials and describes the procedures and cultural practices involved in the trials.

| Table | Area | Information in the Table |
|---|---|---|
| 1 | ACSC | ACSC approved varieties for 2015 |
| 2 | ACSC | Multi-year performance of approved varieties (all locations combined) |
| 3 | ACSC | Performance of ACSC Aph specialty varieties |
| 4 | ACSC & MD | Disease ratings for ACSC & MD tested varieties (multiple diseases) |
| 5 | ACSC & MD | Official trial sites, cooperators, plant and harvest dates, soil types and disease notes |
| 6 | ACSC & MD | Seed treatments applied to seed used in the official coded variety trials |
| 7-26 | ACSC | 2014 ACSC variety trials and combined |
| 27-30 | ACSC | Approval calculations for ACSC market |
| 31 | MD | Minn-Dak approved varieties for 2015 |
| 32 | MD | Multi-year performance of approved varieties in MDFC growing area |
| 33-35 | MD | 2014 Minn-Dak variety trials and combined |
| 36 | ACSC & MD | Aphanomyces disease nursery ratings |
| 37 | ACSC & MD | Cercospora disease nursery ratings |
| 38 | ACSC & MD | Rhizoctonia disease nursery ratings |
| 39 | ACSC & MD | Fusarium disease nursery ratings |
| 40 | ACSC & MD | Herbicides and fungicides applied to official trials |

## ***Procedures and Cultural Practices***

Sugarbeet official variety testing was conducted both in the Crystal and Minn-Dak areas of the Red River Valley by American Crystal Sugar Company personnel at the Technical Services Center.

All Crystal and Minn-Dak entries were coded by KayJay Ag Services. The seed then was sent to American Crystal Technical Services Center at Moorhead for official testing.

Soil type and disease pressure was observed for each of the trial sites (table 5). This information relates to the current year's results, not the multiple year summary results.

Eleven official yield trial sites were planted in the Crystal area with nine harvested. Three Minn-Dak official yield trial sites were planted with two harvested . A fourth Minn-Dak site was not planted due to wet soil conditions that persisted into June. We continued plant-to-stand trials (4.5 inch spacing) to evaluate the commercial and experimental varieties. Seed companies had the option of treating seed with Tachigaren, insecticide and a Rhizoctonia seed treatment fungicide. Aphanomyces yield trials were planted at two locations with the potential for disease development. Plots were planted crosswise (90°) to the cooperators' normal farming operations, where possible. Row spacing was 22 inches. Plot rows for all official trials were maintained at 44 feet with about 37 feet harvested. An alpha lattice plot design was used for all trials. Planting was performed with two 12-row vacuum planters, which included a SRES and a Hege. The SRES GPS controlled planter was used for all yield trial sites in 2014 and gave good single seed spacing (with proper seed size) which facilitated emergence counts. Emergence counts were taken on one 44 foot row of each plot to be harvested. Multiple seedlings were counted as a single plant if they emerged less than one inch apart. The stands in all of the plant-to-stand coded trials were refined by removing doubles (multiple seedlings less than 1.5 inches apart) by hand but were not further reduced.

Eight ACSC sites were used for variety approval calculations (Casselton, Ada, Climax, Crookston, Grand Forks, Alvarado, St Thomas, Stephen, Bathgate). Two sites were abandoned due to water damage (Averill, Buxton). The Climax site experienced moderate to severe Aphanomyces (data in table 3). The Climax site was harvested but not included in variety approval calculations and kept separate for consideration by growers for special growing conditions (tables 3). The two

Aphanomyces yield trials (Kindred, Georgetown) were abandoned due to minimal root scaring symptoms. Two RRV Rhizoctonia nurseries were abandoned due to lack of infection. One MDFC site was abandoned due to non-uniform growth (Breckenridge). Rhizomania was visually observed at the Breckenridge site in 2014. Rhizoctonia was less prevalent in 2014 following Rhizoctonia fungicide seed treatment on many varieties and an application of Quadris, band treatment at the 6-10 leaf stage. Based upon yield and sugar performance and demonstration plot observations, root aphids likely had minimal impact in 2014. Root aphids were observed at 5 of 11 ACSC yield sites and one MDFC yield site. ACSC does not run root aphid evaluation nurseries, but seed companies may know tolerance levels of their varieties.

Roundup Powermax with Event and full rates of fungicides were applied using a pickup sprayer driven down the alleys. Hand weeding was used where necessary. All yield trials were treated with Quadris banded in the 6 leaf stage for Rhizoctonia control. Proline/Agri Tin, Topsin/Agri Tin, and Headline were used for Cercospora control in 2014. Ground spraying was conducted by ACSC technical staff.

RR varieties with commercial seed were planted in four-row, six replication trials. The RR experimental entries were planted in smaller two-row, four replication trials. Two applications of Roundup were made in the 4-6 (32 oz) and 8-12 (22 oz) leaf stages.

All plot rows were measured for total length after approximately 2.5 feet at each end were removed at the end of August, with skips greater than 60 inches (including short rows) being measured for adjustment purposes. Harvest was performed with two modified four-row harvesters (4310 and 4310A John Deere). All harvested beets of each plot were used for yield determination while one sample (approx 25 lbs) for sugar and impurity analysis was obtained from each plot. Quality analysis was performed at the ACSC Technical Services quality lab in Moorhead.

Varieties were planted in disease nurseries in North Dakota, Minnesota and Michigan to evaluate varieties for disease tolerance.

ACSC adjusts the Cercospora, Aphanomyces, Rhizoctonia and Fusarium nursery data each year to provide a consistent target for variety approval criteria.

In January 2009, the ACSC Seed Committee exempted the currently approved conventional varieties from continued variety testing – 31 conventional varieties are approved for sale in 2014; many of these varieties were not tested since 2008. Conventional trials were discontinued in 2012. Data for conventional varieties tested in previous years can be found in the 2013 Sugarbeet Research and Extension Report.

***Acknowledgements***

Thanks to the beet seed companies for their participation in the official variety testing program and to all grower-cooperators, agricultural, and beet seed staffs for their assistance. Special thanks are extended to Dr. Mohamed Khan for CR nursery infection, Randy Nelson and Robert Dregseth for RRV disease ratings, USDA staff in Michigan for CR and Rhizoctonia nursery ratings. The Betaseed staff for Aphanomyces and Cercospora ratings in the Shakopee area, Germains Seed Technology for seed treatments and Kay Jay Ag Services for sampling and coding all variety entries.

## Table 1. Varieties Meeting ACSC Approval Criteria for the 2015 Sugarbeet Crop ++

| Roundup Ready ® | Full Market | Aph Spec | Rhc Spec | High Rzm |
|---|---|---|---|---|
| BTS 80RR32 | Yes | | | Hi Rzm |
| BTS 80RR52 | Yes | Aph | Rhc | Hi Rzm |
| BTS 81RR17 | Yes | Aph | | Hi Rzm |
| BTS 82RR22 | Yes | Aph | | Hi Rzm |
| BTS 82RR28 | Yes | | | Hi Rzm |
| BTS 82RR33 | Yes | | | Hi Rzm |
| BTS 82RR80 | Yes | | | Hi Rzm |
| BTS 8337 | New | Aph | | Hi Rzm |
| BTS 8354 | New | Aph | Rhc | Hi Rzm |
| BTS 8363 | New | | | Hi Rzm |
| BTS 8390 | New | | | Hi Rzm |
| BTS 83CN | New | Aph | Rhc | Hi Rzm |
| BTS 89RR83 | Yes | | Rhc | Hi Rzm |
| Crystal 093RR | Yes | | | Hi Rzm |
| Crystal 095RR | Yes | | | Hi Rzm |
| Crystal 101RR | Yes | Aph | | Hi Rzm |
| Crystal 246RR | Yes | Aph | | Hi Rzm |
| Crystal 247RR | Yes | | | Hi Rzm |
| Crystal 355RR | New | Aph | Rhc | Hi Rzm |
| Crystal 765RR | Yes | | | |
| Crystal 768RR | Yes | | | |
| Crystal 875RR | Yes | Aph | Rhc | |
| Crystal 981RR | Yes | Aph | | Hi Rzm |
| Crystal 985RR | Yes | | | |
| Crystal 986RR | Yes | | | |
| Hilleshög 4022RR | Yes | | Rhc | |
| Hilleshög 4094RR | Yes | | Rhc | |
| Hilleshög 4300RR (9300) | Yes | | | |
| Hilleshög 4302RR (9302) | Yes | | Rhc | |
| Hilleshög 4303RR (9303) | Yes | | | |
| Hilleshög 4448RR (9448) | Yes | | | |
| Hilleshög 9517RR | New | | | |
| Hilleshög 9528RR | New | | | |
| Maribo MA102RR | Yes | Aph | | |
| Maribo MA104RR | Yes | | Rhc | |
| Maribo 305RR | New | | | |
| Seedex RR0832 | New | | | |
| Seedex VictorRR | Yes | | | Hi Rzm |
| Seedex VisionRR | Yes | | | |
| Seedex Xavier RR (0816) | Yes | Aph | | |
| Seedex Yukon RR (0828N) | Yes | Aph | | |
| Seedex Zenith RR (0829N) | Yes | | | |
| SESVdh 36175RR | Yes | | | |
| SESVdh 36271RR | Yes | | | Hi Rzm |
| SESVdh 36272RR | Yes | | | |
| SESVdh 36273RR | Yes | | | |
| SESVdh 36918RR | Yes | | | |
| SESVdh RR333 | New | | | |
| SESVdh RR336 | New | | | |

| Conventional | Full Market | Aph Spec | Rhc Spec | High Rzm |
|---|---|---|---|---|
| Beta 1100R | Yes | | | |
| Beta 1115R | Yes | Aph | | |
| Beta 1125R | Yes | Aph | | |
| Beta 1135R | Yes | | Rhc | |
| Beta 1140R | Yes | | | |
| Beta 1301R | Yes | Aph | Rhc | |
| Beta 1305R | Yes | | | |
| Beta 1833R | No | | Rhc | |
| Crystal R308 | Yes | | | |
| Crystal R431 | Yes | | | |
| Crystal R434 | Yes | | | |
| Crystal R760 | Yes | | | |
| Crystal R761 | Yes | Aph | | Hi Rzm |
| Crystal R869 | Yes | | | |
| Hilleshög 3035Rz | Yes | | Rhc | |
| Hilleshög 3052Rz | Yes | | | |
| Holly 317 | Yes | | | |
| Holly 701 | Yes | | | |
| Seedex Sonic | Yes | | | |
| Seedex SX0873TT (Deuce) | Yes | | | Hi Rzm |
| Seedex Triton | Yes | | | |
| Seedex Vault (SX0842) | Yes | | | |
| SESVanderhave H46519 | Yes | | | |
| SESVanderhave H46531 | Yes | | | |
| SESVanderhave H46711 | Yes | | | |
| SESVanderhave H48607TT | Yes | | | Hi Rzm |
| SESVanderhave H46714 | No | | Rhc | |
| SESVanderhave H48716TT | Yes | | | Hi Rzm |
| SESVanderhave H48717TT | Yes | | | Hi Rzm |
| SESVanderhave H46801 | Yes | | | |
| SESVanderhave H48810TT | Yes | | | Hi Rzm |

**Conventional variety testing was voluntary since 2009.**
**Data for SOME conventional varieties are from 2008 only.**

**++Roundup Ready sugarbeets are subject to the ACSC RRSB Bolter Destruction Policy**

Roundup Ready ® is a registered trademark of Monsanto Company.

Aph Spec = variety meets Aphanomyces specialty requirements
Rhc Spec = variety meets Rhizoctonia specialty requirements
Hi Rzm = variety has high Rhizomania tolerance (Dual Rzm resistance) as submitted by seed company
New = newly approved

Created 10-30-2014.

Table 2. Performance Data of RR Varieties During 2012, 2013, 2014 Growing Seasons (All Locations Combined) +++

| | Yrs | Rev/Ton ++ | | | | | Rev/Acre ++ | | | | | Rec/Ton | | Rec/Acre | | Sugar | | Yield | | Molasses | | Emerg | | Bolter / Ac | | CR + | | Aph Root+ | | Rhizoc.+ | | Fusarium+ | | Rzm + |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Variety @ | Com | 14 | 2 Yr | 2Y% | 3Yr# | 3Y% | 14 | 2 Yr | 2Y% | 3Yr# | 3Y% | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | 14 | 2 Yr | |
| Previous Approved # locations | | 8 | 14 | | 20 | | 8 | 14 | | 20 | | 8 | 14 | 8 | 14 | 8 | 14 | 8 | 14 | 8 | 14 | 8 | 14 | 8 | 14 | 3 | 5 | 2 | 4 | 2 | 4 | 2 | 4 | |
| BTS 80RR32 | 3 | 52.05 | 53.64 | 100 | 56.49 | 101 | 1519 | 1532 | 107 | 1625 | 108 | 308 | 317 | 8965 | 9082 | 16.40 | 17.01 | 29.1 | 28.7 | 1.02 | 1.15 | 81 | 75 | 0 | 0 | 4.69 | 4.75 | 5.1 | 5.1 | 3.6 | 3.9 | 2.7 | 3.3 | HiRzm |
| BTS 80RR52 | 3 | 55.49 | 55.17 | 103 | 57.33 | 103 | 1530 | 1529 | 107 | 1610 | 107 | 318 | 322 | 8777 | 8947 | 16.97 | 17.33 | 27.6 | 27.9 | 1.05 | 1.24 | 78 | 74 | 0 | 0 | 4.22 | 4.37 | 4.0 | 4.0 | 4.4 | 4.1 | 2.8 | 3.2 | HiRzm |
| BTS 81RR17 | 2 | 54.39 | 53.72 | 100 | 55.81 | 100 | 1443 | 1407 | 98 | 1517 | 101 | 315 | 317 | 8381 | 8339 | 16.87 | 17.15 | 26.7 | 26.4 | 1.12 | 1.28 | 79 | 77 | 0 | 0 | 3.96 | 4.20 | 3.4 | 3.6 | 4.1 | 4.1 | 3.0 | 3.1 | HiRzm |
| BTS 82RR22 | 1 | 59.11 | 59.46 | 111 | 61.63 | 111 | 1515 | 1519 | 106 | 1617 | 108 | 330 | 336 | 8447 | 8597 | 17.52 | 17.96 | 25.6 | 25.6 | 1.03 | 1.15 | 78 | 79 | 5 | 27 | 4.55 | 4.66 | 4.2 | 4.3 | 4.9 | 5.0 | 4.8 | 5.1 | HiRzm |
| BTS 82RR28 | 1 | 54.27 | 54.34 | 101 | 55.75 | 100 | 1548 | 1550 | 108 | 1633 | 109 | 315 | 319 | 8970 | 9129 | 16.79 | 17.19 | 28.5 | 28.7 | 1.05 | 1.22 | 81 | 80 | 23 | 11 | 4.62 | 4.57 | 4.8 | 4.7 | 4.1 | 4.1 | 2.4 | 2.6 | HiRzm |
| BTS 82RR33 | 1 | 53.75 | 54.22 | 101 | 56.67 | 102 | 1596 | 1599 | 112 | 1752 | 117 | 313 | 319 | 9260 | 9431 | 16.66 | 17.10 | 29.5 | 29.7 | 1.00 | 1.14 | 78 | 77 | 5 | 2 | 4.70 | 4.69 | 5.6 | 5.5 | 4.2 | 4.3 | 2.9 | 3.0 | HiRzm |
| BTS 82RR80 | 1 | 56.81 | 56.62 | 106 | 58.44 | 105 | 1519 | 1457 | 102 | 1560 | 104 | 323 | 327 | 8610 | 8433 | 17.13 | 17.51 | 26.6 | 25.9 | 1.01 | 1.17 | 81 | 80 | 0 | 16 | 4.62 | 4.62 | 4.0 | 4.3 | 4.9 | 4.7 | 3.2 | 3.7 | HiRzm |
| BTS 89RR83 | 4 | 50.61 | 51.46 | 96 | 53.89 | 97 | 1474 | 1458 | 102 | 1564 | 104 | 303 | 310 | 8831 | 8819 | 16.14 | 16.64 | 29.1 | 28.6 | 0.98 | 1.13 | 78 | 76 | 0 | 0 | 4.61 | 4.76 | 5.1 | 4.6 | 4.0 | 3.7 | 3.8 | 4.1 | HiRzm |
| Crystal 093RR | 3 | 58.18 | 58.20 | 109 | 60.02 | 108 | 1565 | 1564 | 109 | 1627 | 109 | 327 | 332 | 8800 | 8946 | 17.36 | 17.74 | 27.0 | 27.1 | 1.02 | 1.15 | 83 | 81 | 18 | 11 | 4.88 | 5.04 | 4.7 | 4.6 | 4.5 | 4.4 | 3.6 | 3.8 | HiRzm |
| Crystal 095RR | 3 | 54.34 | 54.98 | 103 | 57.33 | 103 | 1488 | 1496 | 104 | 1571 | 105 | 315 | 321 | 8600 | 8759 | 16.81 | 17.27 | 27.2 | 27.3 | 1.07 | 1.20 | 79 | 75 | 0 | 0 | 4.60 | 4.68 | 4.6 | 4.8 | 4.5 | 4.5 | 4.4 | 4.8 | HiRzm |
| Crystal 101RR | 3 | 53.96 | 53.94 | 101 | 55.52 | 100 | 1566 | 1550 | 108 | 1617 | 108 | 314 | 318 | 9092 | 9153 | 16.79 | 17.18 | 29.0 | 28.9 | 1.11 | 1.27 | 80 | 79 | 0 | 0 | 4.26 | 4.44 | 3.4 | 3.6 | 4.8 | 4.8 | 2.7 | 3.0 | HiRzm |
| Crystal 246RR | 1 | 54.00 | 54.29 | 101 | 56.39 | 101 | 1529 | 1560 | 109 | 1712 | 114 | 314 | 319 | 8869 | 9201 | 16.68 | 17.11 | 28.2 | 28.9 | 0.99 | 1.15 | 80 | 75 | 14 | 7 | 4.52 | 4.50 | 4.5 | 4.7 | 4.0 | 4.3 | 3.0 | 3.6 | HiRzm |
| Crystal 247RR | 1 | 54.06 | 54.46 | 102 | 57.06 | 102 | 1613 | 1579 | 110 | 1697 | 113 | 314 | 320 | 9330 | 9282 | 16.67 | 17.12 | 29.6 | 29.1 | 0.97 | 1.13 | 74 | 70 | 5 | 2 | 4.20 | 4.39 | 5.0 | 5.1 | 4.4 | 4.5 | 2.8 | 3.3 | HiRzm |
| Crystal 765RR | 6 | 57.91 | 58.10 | 108 | 60.48 | 108 | 1507 | 1509 | 105 | 1622 | 108 | 326 | 331 | 8469 | 8616 | 17.34 | 17.73 | 25.9 | 26.0 | 1.04 | 1.16 | 79 | 76 | 0 | 0 | 4.73 | 4.77 | 6.0 | 5.9 | 4.5 | 4.7 | 4.1 | 4.4 | Rzm |
| Crystal 768RR | 6 | 54.66 | 55.20 | 103 | 57.38 | 103 | 1459 | 1469 | 102 | 1588 | 106 | 316 | 322 | 8449 | 8601 | 16.89 | 17.35 | 26.8 | 26.8 | 1.10 | 1.25 | 75 | 74 | 0 | 0 | 4.84 | 4.95 | 4.8 | 4.8 | 4.5 | 4.3 | 4.1 | 4.5 | Rzm |
| Crystal 875RR | 5 | 53.73 | 52.74 | 98 | 55.23 | 99 | 1452 | 1435 | 100 | 1504 | 100 | 313 | 314 | 8440 | 8557 | 16.79 | 16.95 | 26.9 | 27.3 | 1.14 | 1.25 | 77 | 75 | 0 | 14 | 4.12 | 4.45 | 3.1 | 3.4 | 4.0 | 4.3 | 4.5 | 4.6 | Rzm |
| Crystal 981RR | 1 | 54.16 | 53.31 | 100 | 54.71 | 98 | 1530 | 1500 | 105 | 1593 | 106 | 314 | 316 | 8865 | 8916 | 16.81 | 17.09 | 28.2 | 28.4 | 1.10 | 1.31 | 78 | 72 | 5 | 2 | 4.89 | 4.99 | 3.8 | 3.7 | 4.8 | 4.3 | 2.7 | 3.2 | HiRzm |
| Crystal 985RR | 4 | 53.14 | 53.95 | 101 | 56.49 | 101 | 1376 | 1399 | 98 | 1488 | 99 | 311 | 318 | 8046 | 8273 | 16.62 | 17.07 | 25.8 | 26.1 | 1.07 | 1.16 | 82 | 78 | 0 | 0 | 4.22 | 4.36 | 3.3 | 3.6 | 4.5 | 4.6 | 4.2 | 4.3 | Rzm |
| Crystal 986RR | 3 | 57.01 | 57.74 | 108 | 60.48 | 108 | 1561 | 1541 | 108 | 1641 | 109 | 323 | 330 | 8842 | 8843 | 17.10 | 17.59 | 27.3 | 26.9 | 0.94 | 1.07 | 79 | 75 | 0 | 0 | 4.61 | 4.70 | 4.6 | 4.6 | 4.1 | 4.3 | 4.2 | 4.7 | Rzm |
| Hilleshög 4022RR | 6 | 50.73 | 51.86 | 97 | 54.55 | 98 | 1256 | 1302 | 91 | 1412 | 94 | 304 | 311 | 7534 | 7844 | 16.35 | 16.83 | 24.9 | 25.3 | 1.17 | 1.26 | 78 | 75 | 0 | 0 | 4.54 | 4.43 | 4.6 | 4.6 | 3.8 | 3.6 | 4.8 | 4.7 | Rzm |
| Hilleshög 4094RR | 5 | 52.66 | 52.28 | 98 | 54.64 | 98 | 1345 | 1332 | 93 | 1425 | 95 | 310 | 313 | 7914 | 7972 | 16.61 | 16.88 | 25.6 | 25.5 | 1.13 | 1.25 | 79 | 75 | 0 | 0 | 4.46 | 4.47 | 4.5 | 4.6 | 3.5 | 3.5 | 4.8 | 4.7 | Rzm |
| Hilleshög 4300RR | 2 | 52.14 | 51.56 | 96 | 54.18 | 97 | 1373 | 1326 | 93 | 1451 | 97 | 308 | 310 | 8084 | 7978 | 16.48 | 16.68 | 26.2 | 25.7 | 1.08 | 1.17 | 65 | 71 | 0 | 0 | 4.20 | 4.47 | 4.9 | 4.6 | 3.8 | 4.0 | 4.1 | 3.9 | Rzm |
| Hilleshög 4302RR | 1 | 54.77 | 55.16 | 103 | 57.91 | 104 | 1435 | 1418 | 99 | 1490 | 99 | 316 | 322 | 8260 | 8278 | 16.81 | 17.22 | 26.1 | 25.7 | 0.99 | 1.10 | 76 | 71 | 0 | 0 | 4.52 | 4.38 | 4.2 | 4.5 | 3.6 | 3.4 | 5.0 | 5.1 | Rzm |
| Hilleshög 4303RR | 1 | 57.92 | 57.04 | 107 | 59.52 | 107 | 1499 | 1474 | 103 | 1538 | 103 | 326 | 328 | 8405 | 8471 | 17.30 | 17.54 | 25.7 | 25.8 | 0.99 | 1.13 | 72 | 72 | 0 | 0 | 4.82 | 4.83 | 4.6 | 4.7 | 5.4 | 5.3 | 6.3 | 6.0 | Rzm |
| Hilleshög 4448RR(9448) | 1 | 56.95 | 55.98 | 105 | 58.82 | 105 | 1685 | 1600 | 112 | 1645 | 110 | 323 | 325 | 9535 | 9289 | 17.10 | 17.32 | 29.4 | 28.7 | 0.95 | 1.08 | 75 | 72 | 0 | 0 | 5.28 | 5.25 | 4.8 | 4.8 | 4.7 | 5.1 | 4.7 | 5.0 | Rzm |
| Maribo MA102RR | NC | 57.51 | 56.14 | 105 | 58.69 | 105 | 1636 | 1600 | 112 | 1630 | 109 | 325 | 325 | 9247 | 9274 | 17.17 | 17.30 | 28.4 | 28.5 | 0.91 | 1.02 | 74 | 74 | 0 | 0 | 5.54 | 5.29 | 5.0 | 4.6 | 4.3 | 4.9 | 5.4 | 5.3 | Rzm |
| Maribo MA104RR | 1 | 57.57 | 57.71 | 108 | 59.64 | 107 | 1326 | 1299 | 91 | 1371 | 91 | 325 | 330 | 7487 | 7449 | 17.23 | 17.63 | 23.1 | 22.6 | 0.99 | 1.10 | 77 | 67 | 0 | 0 | 3.58 | 3.72 | 5.9 | 5.3 | 3.6 | 3.8 | 5.5 | 5.6 | Rzm |
| Seedex Victor RR | 4 | 50.91 | 50.86 | 95 | 54.92 | 98 | 1391 | 1358 | 95 | 1477 | 99 | 304 | 308 | 8275 | 8220 | 16.17 | 16.48 | 27.1 | 26.7 | 0.97 | 1.08 | 80 | 75 | 0 | 0 | 5.14 | 4.82 | 4.9 | 4.9 | 3.9 | 4.2 | 4.0 | 4.5 | HiRzm |
| Seedex Vision RR | 3 | 53.82 | 54.57 | 102 | 57.84 | 104 | 1436 | 1398 | 98 | 1524 | 102 | 313 | 320 | 8306 | 8189 | 16.62 | 17.07 | 26.3 | 25.6 | 0.96 | 1.06 | 76 | 70 | 0 | 2 | 5.50 | 5.34 | 5.5 | 5.5 | 4.4 | 4.6 | 4.0 | 4.6 | Rzm |
| Seedex Xavier RR | 2 | 55.35 | 54.51 | 102 | 57.26 | 103 | 1465 | 1386 | 97 | 1529 | 102 | 318 | 320 | 8388 | 8119 | 16.84 | 17.06 | 26.3 | 25.4 | 0.94 | 1.07 | 71 | 70 | 0 | 5 | 5.43 | 5.14 | 5.4 | 4.9 | 4.3 | 4.5 | 4.7 | 5.1 | Rzm |
| Seedex Yukon RR(828N) | 1 | 52.42 | 52.52 | 98 | 55.28 | 99 | 1344 | 1348 | 94 | 1471 | 98 | 309 | 313 | 7914 | 8071 | 16.44 | 16.79 | 25.6 | 25.9 | 1.00 | 1.11 | 79 | 75 | 0 | 0 | 4.85 | 4.77 | 2.8 | 3.6 | 4.3 | 4.6 | 2.9 | 3.2 | Rzm |
| Seedex Zenith RR(829N) | 1 | 50.31 | 51.51 | 96 | 54.94 | 99 | 1249 | 1278 | 89 | 1423 | 95 | 302 | 310 | 7487 | 7710 | 16.15 | 16.68 | 24.7 | 24.9 | 1.04 | 1.17 | 79 | 73 | 5 | 2 | 4.53 | 4.65 | 2.9 | 4.2 | 4.6 | -- | 3.0 | 3.6 | Rzm |
| SV 36175RR | 2 | 52.87 | 54.04 | 101 | 55.95 | 100 | 1342 | 1342 | 94 | 1468 | 98 | 310 | 318 | 7872 | 7931 | 16.50 | 17.01 | 25.4 | 25.0 | 0.99 | 1.09 | 81 | 77 | 5 | 2 | 4.54 | 4.57 | 3.4 | 3.8 | 4.2 | 4.3 | 3.5 | 4.0 | Rzm |
| SV 36271RR | 1 | 48.51 | 50.74 | 95 | 54.32 | 97 | 1179 | 1258 | 88 | 1414 | 94 | 297 | 308 | 7189 | 7641 | 15.87 | 16.55 | 24.2 | 24.8 | 1.04 | 1.15 | 79 | 68 | 0 | 9 | 4.21 | 4.33 | 3.4 | 4.5 | 4.3 | 4.1 | 3.3 | -- | HiRzm |
| SV 36272RR | 1 | 56.08 | 56.44 | 105 | 58.63 | 105 | 1382 | 1418 | 99 | 1574 | 105 | 320 | 326 | 7876 | 8215 | 16.93 | 17.35 | 24.5 | 25.2 | 0.92 | 1.03 | 78 | 75 | 0 | 0 | 4.61 | 4.55 | 5.0 | 5.0 | 4.3 | 4.5 | 4.1 | -- | Rzm |
| SV 36273RR | 1 | 52.63 | 53.60 | 100 | 56.19 | 101 | 1454 | 1415 | 99 | 1505 | 100 | 310 | 317 | 8525 | 8366 | 16.44 | 16.96 | 27.5 | 26.4 | 0.97 | 1.10 | 73 | 64 | 0 | 0 | 5.05 | 4.86 | 5.6 | 5.5 | 3.9 | 4.3 | 4.6 | -- | Rzm |
| SV 36918RR | 3 | 54.45 | 54.28 | 101 | 57.37 | 103 | 1361 | 1334 | 93 | 1472 | 98 | 315 | 319 | 7846 | 7832 | 16.76 | 17.07 | 24.8 | 24.5 | 1.00 | 1.12 | 69 | 69 | 0 | 11 | 4.84 | 4.73 | 4.7 | 4.9 | 4.8 | 4.8 | 5.5 | 5.5 | Rzm |
| **Newly Approved** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTS 8337 | NC | 58.93 | 58.57 | 109 | -- | -- | 1468 | 1501 | 105 | -- | -- | 330 | 333 | 8220 | 8581 | 17.46 | 17.82 | 25.0 | 25.9 | 0.97 | 1.14 | 77 | 75 | 14 | 16 | 4.52 | 4.63 | 3.7 | 3.7 | 4.1 | 4.3 | 3.8 | 4.1 | HiRzm |
| BTS 8354 | NC | 55.23 | 55.34 | 103 | -- | -- | 1393 | 1390 | 97 | -- | -- | 318 | 323 | 8027 | 8135 | 17.00 | 17.42 | 25.3 | 25.3 | 1.11 | 1.29 | 77 | 75 | 0 | 0 | 4.39 | 4.59 | 4.4 | 4.4 | 4.0 | 3.8 | 3.2 | 3.4 | HiRzm |
| BTS 8363 | NC | 53.37 | 53.52 | 100 | -- | -- | 1539 | 1555 | 108 | -- | -- | 312 | 317 | 8978 | 9222 | 16.55 | 16.94 | 28.8 | 29.2 | 0.96 | 1.10 | 78 | 77 | 95 | 47 | 3.85 | 3.88 | 5.0 | 5.0 | 4.2 | 4.1 | 3.4 | 3.9 | HiRzm |
| BTS 8390 | NC | 51.08 | 51.11 | 95 | -- | -- | 1546 | 1555 | 108 | -- | -- | 304 | 309 | 9209 | 9417 | 16.25 | 16.61 | 30.3 | 30.6 | 1.03 | 1.18 | 78 | 77 | 0 | 16 | 4.28 | 4.36 | 5.0 | 4.9 | 4.3 | 4.3 | 3.0 | 3.1 | HiRzm |
| BTS 83CN | NC | 53.99 | 54.92 | 103 | -- | -- | 1481 | 1463 | 102 | -- | -- | 314 | 321 | 8618 | 8605 | 16.64 | 17.15 | 27.5 | 27.0 | 0.95 | 1.07 | 77 | 80 | 0 | 0 | 4.60 | 4.48 | 4.2 | 4.2 | 4.0 | 3.6 | 3.1 | 3.2 | HiRzm |
| Crystal 355RR | NC | 56.28 | 56.43 | 105 | -- | -- | 1447 | 1457 | 102 | -- | -- | 321 | 326 | 8272 | 8464 | 17.13 | 17.56 | 25.8 | 26.1 | 1.08 | 1.25 | 78 | 74 | 0 | 0 | 4.58 | 4.73 | 4.2 | 4.3 | 4.1 | 3.8 | 3.1 | 3.3 | HiRzm |
| Hilleshög 9517RR | NC | 57.11 | 57.17 | 107 | -- | -- | 1339 | 1337 | 93 | -- | -- | 324 | 329 | 7589 | 7707 | 17.27 | 17.64 | 23.4 | 23.5 | 1.07 | 1.19 | 71 | 69 | 0 | 0 | 4.39 | 4.53 | 3.9 | 3.8 | 4.0 | 3.8 | 3.4 | 3.6 | Rzm |
| Hilleshög 9528RR | NC | 57.69 | 56.47 | 105 | -- | -- | 1577 | 1516 | 106 | -- | -- | 326 | 326 | 8908 | 8769 | 17.22 | 17.37 | 27.4 | 26.9 | 0.93 | 1.04 | 78 | 75 | 0 | 0 | 4.97 | 4.84 | 5.4 | 5.0 | 3.8 | 4.0 | 4.8 | -- | Rzm |
| Maribo 305 | NC | 54.51 | 54.42 | 102 | -- | -- | 1541 | 1535 | 107 | -- | -- | 315 | 320 | 8914 | 9034 | 16.66 | 17.01 | 28.3 | 28.3 | 0.88 | 1.02 | 82 | 79 | 0 | 0 | 4.83 | 4.73 | 5.0 | 5.0 | 4.6 | -- | 5.1 | -- | Rzm |
| Seedex RR0832 | NC | 55.58 | 55.12 | 103 | -- | -- | 1513 | 1481 | 103 | -- | -- | 319 | 322 | 8672 | 8653 | 16.93 | 17.20 | 27.2 | 26.9 | 0.98 | 1.09 | 77 | 72 | 0 | 0 | 4.89 | 4.83 | 5.1 | 4.8 | 4.3 | 4.4 | 5.0 | -- | Rzm |
| SV RR333 | NC | 54.99 | 54.75 | 102 | -- | -- | 1485 | 1461 | 102 | -- | -- | 317 | 321 | 8551 | 8576 | 16.83 | 17.13 | 27.0 | 26.8 | 0.98 | 1.08 | 76 | 71 | 0 | 0 | 4.81 | 4.83 | 5.3 | 5.4 | 4.4 | 4.4 | 4.1 | -- | Rzm |
| SV RR336 | NC | 54.71 | 52.92 | 99 | -- | -- | 1493 | 1476 | 103 | -- | -- | 316 | 314 | 8627 | 8809 | 16.75 | 16.79 | 27.3 | 28.1 | 0.95 | 1.05 | 77 | 71 | 0 | 9 | 4.53 | 4.64 | 5.5 | 5.0 | 4.3 | 4.1 | 4.3 | -- | Rzm |
| Mean of benchmark varieties | | 54.40 | 53.55 | | 55.75 | | 1461 | 1433 | | 1499 | | 315 | 317 | 8459 | 8498 | 16.84 | 17.04 | 26.8 | 26.9 | 1.08 | 1.20 | 79 | 76 | | | | | | | | | | | |

# 3 Yr is mean of 3 years data, 3 Y% is 3-Yr mean as % of benchmark varieties. 2 Yr is mean of 2 years data, 2 Y% is 2-Yr mean as % of benchmark varieties. Emergence is % of planted seeds producing a 4 leaf beet.

++ 2014 Revenue estimates based on a $55.98 beet payment (5-yr ave) at 17.5% sugar and 1.5% loss to molasses. 2013 Revenue estimates based on $53.20 and 2012 based on $51.53. Revenue does not consider hauling or production costs.

+ Aph Ratings from Shakopee & RRV (resist = 4.4, susc = 5.5). CR from Rosemount, Michigan & Foxhome (resist = 4.5, susc = 5.2). Fusarium from RRV (resist = 3.0, susc = 5.0). Rhizoc. From Ft Collins, Mhd & Mich (resist = 3.8, susc = 5). HiRzm = multi source or double tolerant.

Bolters /Ac are based upon a plant stand of 45,000.

+++ Sites include Casselton, Ada, Hillsboro, Crookston, Grand Forks, St Thomas in 2012.

NE indicates variety not entered into disease nursery.

+++ Sites include Casselton, Reynolds, Alvarado, Grafton, St Thomas, Hallock in 2013.

Created 10-28-2014.

-- indicates data not available.

+++ Sites include Casselton, Ada, Crookston, Grand Forks, Alvarado, St Thomas, Stephen, Bathgate in 2014.

Table 3. Performance Data of RR Aphanomyces Specialty Varieties - Under Aphanomyces Conditions (Relative to Susceptible Checks) approved for 2015 Growing Season +++

| | Years | Rev/Ton | | | Rev/Acre | | | Rec/Ton | | Rec/Acre | | Sugar | | Yield | | CR Rating + | | Aph Root + | | | Fusarium + | | Rhizoctonia + | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Comm | 2014 | 2 Yr | %Sus | 2014 | 2 Yr | %Sus | 2014 | 2 Yr | 2014 | 2 Yr | 2014 | 2 Yr | 2014 | 2 Yr | 14 | 13 | 14 | 13 | 2 Yr | 14 | 13 | 14 | 13 |
| BTS 80RR52 | 3 | 48.75 | 46.10 | 104 | 1454 | 1275 | 159 | 297.3 | 292.4 | 8876 | 8074 | 15.98 | 15.85 | 29.9 | 27.6 | 4.22 | 4.52 | 4.0 | 4.0 | 4.0 | 2.8 | 3.6 | 4.4 | 3.8 |
| BTS 81RR17 | 2 | 48.14 | 43.90 | 99 | 1462 | 1247 | 155 | 295.4 | 285.2 | 8969 | 8062 | 15.96 | 15.59 | 30.4 | 28.2 | 3.96 | 4.45 | 3.4 | 3.9 | 3.6 | 3.0 | 3.2 | 4.1 | 4.1 |
| BTS 82RR22 | 1 | 54.92 | 52.28 | 118 | 1544 | 1343 | 167 | 316.7 | 312.7 | 8904 | 7971 | 16.91 | 16.79 | 28.1 | 25.3 | 4.55 | 4.77 | 4.2 | 4.4 | 4.3 | 4.8 | 5.5 | 4.9 | 5.2 |
| BTS 8337 | NC | 53.35 | 50.02 | 113 | 1664 | 1464 | 182 | 312.9 | 305.8 | 9762 | 8910 | 16.72 | 16.49 | 31.3 | 29.1 | 4.52 | 4.75 | 3.7 | 3.7 | 3.7 | 3.8 | 4.4 | 4.1 | 4.5 |
| BTS 8354 | NC | 50.12 | 47.09 | 106 | 1464 | 1307 | 163 | 302.2 | 296.0 | 8825 | 8181 | 16.32 | 16.07 | 29.2 | 27.6 | 4.39 | 4.80 | 4.4 | 4.3 | 4.4 | 3.2 | 3.6 | 4.0 | 3.5 |
| BTS 83CN | NC | 45.27 | 43.36 | 98 | 1356 | 1249 | 156 | 286.3 | 283.6 | 8557 | 8131 | 15.40 | 15.34 | 29.9 | 28.6 | 4.60 | 4.36 | 4.2 | 4.3 | 4.2 | 3.1 | 3.2 | 4.0 | 3.3 |
| Crystal 101RR | 3 | 50.52 | 45.47 | 103 | 1621 | 1401 | 175 | 302.9 | 290.2 | 9727 | 8906 | 16.28 | 15.79 | 32.1 | 30.6 | 4.26 | 4.63 | 3.4 | 3.8 | 3.6 | 2.7 | 3.3 | 4.8 | 4.7 |
| Crystal 246RR | 1 | 48.65 | 45.48 | 103 | 1438 | 1242 | 155 | 297.0 | 290.4 | 8778 | 7885 | 15.86 | 15.64 | 29.6 | 27.1 | 4.52 | 4.48 | 4.5 | 4.9 | 4.7 | 3.0 | 4.2 | 4.0 | 4.6 |
| Crystal 355RR | NC | 51.84 | 48.10 | 108 | 1653 | 1395 | 174 | 307.9 | 299.3 | 9811 | 8589 | 16.54 | 16.22 | 31.8 | 28.4 | 4.58 | 4.89 | 4.2 | 4.5 | 4.3 | 3.1 | 3.4 | 4.1 | 3.5 |
| Crystal 875RR | 5 | 41.72 | 40.85 | 92 | 1119 | 1148 | 143 | 275.3 | 275.7 | 7394 | 7750 | 14.85 | 15.03 | 26.9 | 28.1 | 4.12 | 4.77 | 3.1 | 3.8 | 3.4 | 4.5 | 4.8 | 4.0 | 4.5 |
| Crystal 981RR | 1 | 49.60 | 44.28 | 100 | 1545 | 1325 | 165 | 300.0 | 286.3 | 9345 | 8479 | 16.09 | 15.59 | 31.2 | 29.4 | 4.89 | 5.09 | 3.8 | 3.5 | 3.7 | 2.7 | 3.8 | 4.8 | 3.7 |
| Maribo MA102RR | NC | 48.02 | 45.90 | 103 | 1372 | 1146 | 143 | 295.3 | 292.1 | 8437 | 7220 | 15.67 | 15.67 | 28.6 | 24.6 | 5.54 | 5.03 | 5.0 | 4.3 | 4.6 | 5.4 | 5.2 | 4.3 | 5.5 |
| Seedex Xavier RR | 2 | 45.38 | 43.69 | 98 | 1127 | 1045 | 130 | 286.7 | 284.7 | 7124 | 6798 | 15.26 | 15.32 | 24.9 | 23.8 | 5.43 | 4.85 | 5.4 | 4.4 | 4.9 | 4.7 | 5.5 | 4.3 | 4.6 |
| Seedex Yukon RR(828N) | 1 | 41.95 | 40.38 | 91 | 1177 | 1081 | 135 | 276.0 | 274.1 | 7762 | 7297 | 14.79 | 14.82 | 28.2 | 26.5 | 4.85 | 4.69 | 2.8 | 4.3 | 3.6 | 2.9 | 3.5 | 4.3 | 4.8 |
| Aph Susc Checks | | 46.60 | 44.36 | | 825 | 803 | | 290.6 | 286.8 | 5128 | 5111 | 15.61 | 15.54 | 17.6 | 17.6 | | | | | | | | | |
| Mean of Aph Specialty Varieties | | 48.45 | 45.49 | | 1428 | 1262 | | 296.6 | 290.6 | 8734 | 8018 | 15.90 | 15.73 | 29.4 | 27.5 | | | | | | | | | |

%Susc = % of susceptible varieties.

+ Aph ratings are from Shakopee & Kindred (res=4.4, susc=5.5). CR ratings are from Rosemount, Michigan & Foxhome (res=4.5, susc=5.2).

Created 11-3-2014.

+ Fusarium ratings from Mhd (mod res=4.5, mod susc=5.7). Rhizoctonia ratings from Ft Collins, Mhd and Michigan (res=3, susc=5+).

+++ 2014 Data from Climax. 2013 Data from Kindred and Climax.

++ 2014 Revenue estimates based on a $55.98 beet payment at 17.5% sugar and 1.5% loss to molasses. 2013 estimates based on a $53.20 beet payment. Revenue does not consider hauling or production costs.

Table 4. Official Trial Disease Nurseries 2012 - 2014 (Varieties tested in 2014)
Cercospora, Aphanomyces, Rhizoctonia & Fusarium

| | < 4.5 CR > 5.2 | | | | | < 4.4 Aph > 5.5 | | | | | < 3.8 Rhizoctonia > 5.0 | | | | | < 3.0 Fusarium > 5.0 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr |
| Code Description + | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean |
| ACSC Commercial | | | | | | | | | | | | | | | | | | | | |
| 527 BTS 80RR32 | 4.69 | 4.81 | 4.66 | 4.75 | 4.72 | 5.06 | 5.04 | 4.43 | 5.05 | 4.85 | 3.56 | 4.28 | 3.88 | 3.92 | 3.91 | 2.71 | 3.87 | 2.46 | 3.29 | 3.01 |
| 573 BTS 80RR52 | 4.22 | 4.52 | 4.40 | 4.37 | 4.38 | 4.01 | 4.01 | 4.04 | 4.01 | 4.02 | 4.36 | 3.77 | 3.73 | 4.07 | 3.96 | 2.84 | 3.64 | 2.77 | 3.24 | 3.08 |
| 506 BTS 81RR17 | 3.96 | 4.45 | 4.36 | 4.20 | 4.26 | 3.36 | 3.87 | 3.25 | 3.62 | 3.50 | 4.06 | 4.10 | 4.00 | 4.08 | 4.06 | 3.01 | 3.23 | 2.50 | 3.12 | 2.91 |
| 508 BTS 82RR22 | 4.55 | 4.77 | 4.65 | 4.66 | 4.66 | 4.25 | 4.41 | 3.95 | 4.33 | 4.20 | 4.85 | 5.19 | 4.61 | 5.02 | 4.89 | 4.76 | 5.52 | 4.79 | 5.14 | 5.02 |
| 517 BTS 82RR28 | 4.62 | 4.52 | 4.66 | 4.57 | 4.60 | 4.84 | 4.62 | 4.51 | 4.73 | 4.65 | 4.11 | 4.17 | 3.94 | 4.14 | 4.08 | 2.44 | 2.85 | 2.00 | 2.64 | 2.43 |
| 515 BTS 82RR33 | 4.70 | 4.68 | 4.74 | 4.69 | 4.71 | 5.59 | 5.40 | 5.11 | 5.49 | 5.36 | 4.20 | 4.36 | 4.09 | 4.28 | 4.22 | 2.86 | 3.05 | 2.27 | 2.95 | 2.73 |
| 578 BTS 82RR80 | 4.62 | 4.62 | 4.77 | 4.62 | 4.67 | 4.02 | 4.56 | 3.37 | 4.29 | 3.98 | 4.95 | 4.54 | 4.63 | 4.75 | 4.71 | 3.18 | 4.29 | 3.12 | 3.74 | 3.53 |
| 593 BTS 89RR83 | 4.61 | 4.91 | 4.89 | 4.76 | 4.81 | 5.12 | 4.04 | 3.62 | 4.58 | 4.26 | 4.03 | 3.45 | 3.58 | 3.74 | 3.69 | 3.77 | 4.39 | 3.39 | 4.08 | 3.85 |
| 531 Crystal 093RR | 4.88 | 5.20 | 4.82 | 5.04 | 4.97 | 4.69 | 4.54 | 4.19 | 4.61 | 4.47 | 4.46 | 4.39 | 4.43 | 4.42 | 4.43 | 3.59 | 4.01 | 3.45 | 3.80 | 3.69 |
| 585 Crystal 095RR | 4.60 | 4.75 | 4.83 | 4.68 | 4.73 | 4.60 | 5.05 | 4.63 | 4.83 | 4.76 | 4.49 | 4.59 | 4.57 | 4.54 | 4.55 | 4.39 | 5.20 | 4.06 | 4.79 | 4.55 |
| 588 Crystal 101RR | 4.26 | 4.63 | 4.71 | 4.44 | 4.53 | 3.45 | 3.80 | 2.97 | 3.62 | 3.40 | 4.84 | 4.74 | 4.75 | 4.79 | 4.78 | 2.73 | 3.27 | 2.95 | 3.00 | 2.99 |
| 564 Crystal 246RR | 4.52 | 4.48 | 4.49 | 4.50 | 4.49 | 4.51 | 4.90 | 3.85 | 4.71 | 4.42 | 4.01 | 4.62 | 4.31 | 4.32 | 4.31 | 2.99 | 4.17 | 3.30 | 3.58 | 3.49 |
| 505 Crystal 247RR | 4.20 | 4.57 | 4.68 | 4.39 | 4.48 | 5.05 | 5.21 | 3.68 | 5.13 | 4.65 | 4.41 | 4.58 | 4.48 | 4.50 | 4.49 | 2.84 | 3.79 | 2.32 | 3.31 | 2.98 |
| 512 Crystal 765RR | 4.73 | 4.82 | 4.70 | 4.77 | 4.75 | 6.01 | 5.79 | 5.69 | 5.90 | 5.83 | 4.50 | 4.88 | 3.87 | 4.69 | 4.42 | 4.15 | 4.75 | 4.10 | 4.45 | 4.33 |
| 572 Crystal 768RR | 4.84 | 5.05 | 5.37 | 4.95 | 5.09 | 4.76 | 4.80 | 3.91 | 4.78 | 4.49 | 4.51 | 4.10 | 4.39 | 4.31 | 4.33 | 4.14 | 4.84 | 4.20 | 4.49 | 4.40 |
| 502 Crystal 875RR | 4.12 | 4.77 | 4.26 | 4.45 | 4.39 | 3.11 | 3.76 | 2.71 | 3.43 | 3.19 | 4.04 | 4.53 | 4.00 | 4.29 | 4.19 | 4.51 | 4.79 | 4.45 | 4.65 | 4.58 |
| 548 Crystal 981RR | 4.89 | 5.09 | 5.15 | 4.99 | 5.05 | 3.79 | 3.55 | 3.08 | 3.67 | 3.47 | 4.85 | 3.75 | 4.45 | 4.30 | 4.35 | 2.70 | 3.80 | 2.87 | 3.25 | 3.12 |
| 521 Crystal 985RR | 4.22 | 4.49 | 4.41 | 4.36 | 4.37 | 3.29 | 3.89 | 3.15 | 3.59 | 3.44 | 4.50 | 4.61 | 4.40 | 4.55 | 4.50 | 4.21 | 4.42 | 3.51 | 4.31 | 4.05 |
| 554 Crystal 986RR | 4.61 | 4.80 | 4.78 | 4.70 | 4.73 | 4.63 | 4.67 | 4.41 | 4.65 | 4.57 | 4.12 | 4.54 | 4.31 | 4.33 | 4.32 | 4.16 | 5.20 | 4.30 | 4.68 | 4.55 |
| 501 Hilleshög 4022RR | 4.54 | 4.33 | 4.36 | 4.43 | 4.41 | 4.59 | 4.65 | 4.11 | 4.62 | 4.45 | 3.82 | 3.39 | 3.29 | 3.60 | 3.50 | 4.79 | 4.67 | 4.71 | 4.73 | 4.73 |
| 504 Hilleshög 4094RR | 4.46 | 4.47 | 4.34 | 4.47 | 4.42 | 4.47 | 4.73 | 3.72 | 4.60 | 4.30 | 3.52 | 3.42 | 3.28 | 3.47 | 3.41 | 4.83 | 4.57 | 4.47 | 4.70 | 4.62 |
| 543 Hilleshög 4300RR | 4.20 | 4.74 | 4.82 | 4.47 | 4.59 | 4.94 | 4.23 | 4.16 | 4.58 | 4.44 | 3.79 | 4.12 | 4.56 | 3.95 | 4.16 | 4.13 | 3.76 | 3.59 | 3.94 | 3.83 |
| 591 Hilleshög 4302RR | 4.52 | 4.23 | 4.34 | 4.38 | 4.36 | 4.20 | 4.82 | 4.20 | 4.51 | 4.41 | 3.58 | 3.32 | 3.63 | 3.45 | 3.51 | 5.05 | 5.11 | 4.33 | 5.08 | 4.83 |
| 618 Hilleshög 4303RR | 4.82 | 4.85 | 4.62 | 4.83 | 4.76 | 4.65 | 4.75 | 4.00 | 4.70 | 4.47 | 5.38 | 5.24 | 5.20 | 5.31 | 5.27 | 6.29 | 5.70 | 5.44 | 5.99 | 5.81 |
| 528 Hilleshög 4448RR(9448) | 5.28 | 5.21 | 4.82 | 5.25 | 5.11 | 4.78 | 4.73 | 5.66 | 4.76 | 5.06 | 4.73 | 5.42 | -- | 5.07 | -- | 4.71 | 5.22 | -- | 4.97 | -- |
| 603 Maribo MA104RR | 3.58 | 3.87 | 3.82 | 3.72 | 3.76 | 5.90 | 4.71 | 4.46 | 5.31 | 5.02 | 3.56 | 3.99 | 3.98 | 3.77 | 3.84 | 5.50 | 5.60 | 4.75 | 5.55 | 5.29 |
| 526 Seedex Victor RR | 5.14 | 4.51 | 4.41 | 4.82 | 4.69 | 4.86 | 4.90 | 4.68 | 4.88 | 4.81 | 3.94 | 4.51 | 4.57 | 4.22 | 4.34 | 4.01 | 4.94 | 4.21 | 4.48 | 4.39 |
| 586 Seedex Vision RR | 5.50 | 5.17 | 4.49 | 5.34 | 5.06 | 5.54 | 5.41 | 5.17 | 5.47 | 5.37 | 4.44 | 4.71 | 4.61 | 4.57 | 4.59 | 4.01 | 5.21 | 5.05 | 4.61 | 4.76 |
| 587 Seedex Xavier RR | 5.43 | 4.85 | 4.43 | 5.14 | 4.90 | 5.41 | 4.42 | 4.19 | 4.91 | 4.67 | 4.34 | 4.60 | 4.71 | 4.47 | 4.55 | 4.73 | 5.52 | 5.27 | 5.13 | 5.17 |
| 541 Seedex Yukon RR(828N) | 4.85 | 4.69 | 4.72 | 4.77 | 4.75 | 2.77 | 4.35 | 4.06 | 3.56 | 3.73 | 4.33 | 4.84 | 4.25 | 4.59 | 4.48 | 2.88 | 3.54 | 4.14 | 3.21 | 3.52 |
| 557 Seedex Zenith RR(829N) | 4.53 | 4.76 | 4.84 | 4.65 | 4.71 | 2.93 | 5.42 | 3.90 | 4.18 | 4.09 | 4.57 | -- | -- | -- | -- | 2.98 | 4.27 | 3.38 | 3.62 | 3.54 |
| 523 SV 36175RR | 4.54 | 4.60 | 4.22 | 4.57 | 4.45 | 3.40 | 4.29 | 4.10 | 3.85 | 3.93 | 4.20 | 4.50 | 4.32 | 4.35 | 4.34 | 3.50 | 4.45 | 4.65 | 3.98 | 4.20 |
| 583 SV 36271RR | 4.21 | 4.45 | 4.65 | 4.33 | 4.44 | 3.36 | 5.55 | 4.85 | 4.46 | 4.59 | 4.32 | 3.95 | 4.40 | 4.14 | 4.23 | 3.35 | NE | -- | -- | -- |
| 546 SV 36272RR | 4.61 | 4.49 | 4.17 | 4.55 | 4.43 | 4.98 | 5.01 | 5.15 | 4.99 | 5.04 | 4.31 | 4.61 | -- | 4.46 | -- | 4.10 | NE | -- | -- | -- |
| 599 SV 36273RR | 5.05 | 4.68 | 4.19 | 4.86 | 4.64 | 5.59 | 5.31 | 3.10 | 5.45 | 4.67 | 3.94 | 4.70 | 4.47 | 4.32 | 4.37 | 4.60 | NE | -- | -- | -- |
| 552 SV 36918RR | 4.84 | 4.61 | 4.28 | 4.73 | 4.58 | 4.72 | 5.00 | 4.69 | 4.86 | 4.81 | 4.77 | 4.82 | 4.66 | 4.80 | 4.75 | 5.52 | 5.56 | 5.00 | 5.54 | 5.36 |
| ACSC Experimental | | | | | | | | | | | | | | | | | | | | |
| 606 BTS 8337 | 4.52 | 4.75 | -- | 4.63 | -- | 3.68 | 3.69 | -- | 3.68 | -- | 4.06 | 4.55 | -- | 4.30 | -- | 3.78 | 4.38 | -- | 4.08 | -- |
| 549 BTS 8354 | 4.39 | 4.80 | -- | 4.59 | -- | 4.44 | 4.30 | -- | 4.37 | -- | 4.04 | 3.49 | -- | 3.77 | -- | 3.25 | 3.58 | -- | 3.42 | -- |
| 510 BTS 8363 | 3.85 | 3.92 | -- | 3.88 | -- | 5.03 | 4.91 | -- | 4.97 | -- | 4.24 | 3.88 | -- | 4.06 | -- | 3.39 | 4.34 | -- | 3.87 | -- |
| 569 BTS 8390 | 4.28 | 4.43 | -- | 4.36 | -- | 5.03 | 4.75 | -- | 4.89 | -- | 4.30 | 4.38 | -- | 4.34 | -- | 3.03 | 3.14 | -- | 3.08 | -- |
| 597 BTS 83CN | 4.60 | 4.36 | -- | 4.48 | -- | 4.16 | 4.34 | -- | 4.25 | -- | 4.01 | 3.29 | -- | 3.65 | -- | 3.13 | 3.21 | -- | 3.17 | -- |
| 613 BTS 8402 | 4.54 | -- | -- | -- | -- | 5.05 | -- | -- | -- | -- | 4.98 | -- | -- | -- | -- | 2.23 | -- | -- | -- | -- |
| 503 BTS 8404 | 4.48 | -- | -- | -- | -- | 4.82 | -- | -- | -- | -- | 4.58 | -- | -- | -- | -- | 3.14 | -- | -- | -- | -- |
| 602 BTS 8405 | 4.14 | -- | -- | -- | -- | 4.93 | -- | -- | -- | -- | 4.75 | -- | -- | -- | -- | 2.87 | -- | -- | -- | -- |
| 605 BTS 8406 | 4.03 | -- | -- | -- | -- | 6.15 | -- | -- | -- | -- | 4.43 | -- | -- | -- | -- | 3.07 | -- | -- | -- | -- |
| 584 BTS 8408 | 5.00 | -- | -- | -- | -- | 4.33 | -- | -- | -- | -- | 4.25 | -- | -- | -- | -- | 3.22 | -- | -- | -- | -- |
| 525 BTS 840N | 3.99 | -- | -- | -- | -- | 4.61 | -- | -- | -- | -- | 4.31 | -- | -- | -- | -- | 3.12 | -- | -- | -- | -- |
| 566 Crystal 355RR | 4.58 | 4.89 | -- | 4.73 | -- | 4.15 | 4.51 | -- | 4.33 | -- | 4.07 | 3.55 | -- | 3.81 | -- | 3.14 | 3.43 | -- | 3.29 | -- |
| 550 Crystal 359RR | 5.16 | 5.32 | -- | 5.24 | -- | 4.92 | 4.44 | -- | 4.68 | -- | 4.18 | 4.04 | -- | 4.11 | -- | 2.21 | 2.60 | -- | 2.40 | -- |
| 545 Crystal 464RR | 4.01 | -- | -- | -- | -- | 3.01 | -- | -- | -- | -- | 4.67 | -- | -- | -- | -- | 3.85 | -- | -- | -- | -- |
| 539 Crystal 465RR | 5.01 | -- | -- | -- | -- | 4.86 | -- | -- | -- | -- | 4.81 | -- | -- | -- | -- | 2.16 | -- | -- | -- | -- |
| 607 Crystal 466RR | 4.64 | -- | -- | -- | -- | 5.30 | -- | -- | -- | -- | 4.36 | -- | -- | -- | -- | 3.42 | -- | -- | -- | -- |
| 518 Crystal 467RR | 4.40 | -- | -- | -- | -- | 4.33 | -- | -- | -- | -- | 4.03 | -- | -- | -- | -- | 2.61 | -- | -- | -- | -- |
| 611 Crystal 468RR | 4.49 | -- | -- | -- | -- | 4.31 | -- | -- | -- | -- | 4.05 | -- | -- | -- | -- | 2.77 | -- | -- | -- | -- |
| 530 Crystal 469RR | 5.28 | -- | -- | -- | -- | 5.06 | -- | -- | -- | -- | 4.32 | -- | -- | -- | -- | 2.40 | -- | -- | -- | -- |
| 537 Hilleshög 9517RR | 4.39 | 4.67 | -- | 4.53 | -- | 3.89 | 3.66 | -- | 3.78 | -- | 4.04 | 3.62 | -- | 3.83 | -- | 3.40 | 3.77 | -- | 3.59 | -- |
| 574 Hilleshög 9528RR | 4.97 | 4.72 | -- | 4.84 | -- | 5.44 | 4.51 | -- | 4.98 | -- | 3.83 | 4.17 | -- | 4.00 | -- | 4.80 | -- | -- | -- | -- |
| 577 Hilleshög 9601RR | 4.77 | -- | -- | -- | -- | 6.12 | -- | -- | -- | -- | 3.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 619 Hilleshög 9602RR | 4.67 | -- | -- | -- | -- | 4.55 | -- | -- | -- | -- | 4.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 568 Hilleshög 9604RR | 5.47 | -- | -- | -- | -- | 4.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 522 Hilleshög 9610RR | 4.46 | -- | -- | -- | -- | 5.04 | -- | -- | -- | -- | 3.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 533 Hilleshög 9613RR | 4.97 | -- | -- | -- | -- | 5.66 | -- | -- | -- | -- | 3.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 565 Hilleshög 9615RR | 4.33 | -- | -- | -- | -- | 5.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.35 | -- | -- | -- | -- |
| 547 Hilleshög 9620RR | 5.79 | -- | -- | -- | -- | 2.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.88 | -- | -- | -- | -- |
| 589 Maribo MA102RR | 5.54 | 5.03 | 4.88 | 5.29 | 5.15 | 4.99 | 4.30 | 4.33 | 4.64 | 4.54 | 4.30 | 5.53 | 4.70 | 4.91 | 4.84 | 5.37 | 5.21 | 5.19 | 5.29 | 5.26 |
| 594 Maribo 109RR | 4.68 | -- | -- | -- | -- | 5.00 | -- | -- | -- | -- | 3.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 551 Maribo 301 | 4.92 | -- | -- | -- | -- | 3.16 | -- | -- | -- | -- | 4.66 | -- | -- | -- | -- | 2.65 | -- | -- | -- | -- |
| 608 Maribo 305 | 4.83 | 4.63 | -- | 4.73 | -- | 4.99 | 4.93 | -- | 4.96 | -- | 4.62 | -- | -- | -- | -- | 5.12 | -- | -- | -- | -- |
| 535 Maribo 402 | 4.76 | -- | -- | -- | -- | 4.31 | -- | -- | -- | -- | 3.86 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 534 Maribo 403 | 5.23 | -- | -- | -- | -- | 6.07 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 575 Seedex RR0832 | 4.89 | 4.78 | -- | 4.83 | -- | 5.06 | 4.54 | -- | 4.80 | -- | 4.35 | 4.43 | -- | 4.39 | -- | 4.97 | -- | -- | -- | -- |
| 520 Seedex RR842 | 4.90 | -- | -- | -- | -- | 5.82 | -- | -- | -- | -- | 4.23 | -- | -- | -- | -- | 4.24 | -- | -- | -- | -- |
| 571 Seedex RR844TT | 5.46 | -- | -- | -- | -- | 5.84 | -- | -- | -- | -- | 4.15 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 590 Seedex RR846 | 4.83 | -- | -- | -- | -- | 5.77 | -- | -- | -- | -- | 4.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 513 Seedex RR848 | 4.71 | -- | -- | -- | -- | 5.58 | -- | -- | -- | -- | 4.43 | -- | -- | -- | -- | 3.95 | -- | -- | -- | -- |
| 595 SV RR241 | 4.35 | -- | -- | -- | -- | 5.42 | -- | -- | -- | -- | 4.43 | -- | -- | -- | -- | 4.26 | -- | -- | -- | -- |
| 562 SV RR242TT | 5.69 | -- | -- | -- | -- | 6.59 | -- | -- | -- | -- | 3.93 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table 4. Official Trial Disease Nurseries 2012 - 2014 (Varieties tested in 2014)

Cercospora, Aphanomyces, Rhizoctonia & Fusarium

| | | < 4.5 CR > 5.2 | | | | | < 4.4 Aph > 5.5 | | | | | < 3.8 Rhizoctonia > 5.0 | | | | | < 3.0 Fusarium > 5.0 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr | 14 | 13 | 12 | 2 Yr | 3 Yr |
| Code | Description + | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean | Mean |
| 514 | SV RR243 | 4.79 | -- | -- | -- | -- | 5.71 | -- | -- | -- | -- | 4.79 | -- | -- | -- | -- | 5.05 | -- | -- | -- | -- |
| 553 | SV RR244TT | 5.51 | -- | -- | -- | -- | 5.67 | -- | -- | -- | -- | 3.84 | -- | -- | -- | -- | 4.56 | -- | -- | -- | -- |
| 511 | SV RR245N | 4.59 | -- | -- | -- | -- | 4.38 | -- | -- | -- | -- | 4.21 | -- | -- | -- | -- | 3.51 | -- | -- | -- | -- |
| 542 | SV RR246 | 4.54 | -- | -- | -- | -- | 5.67 | -- | -- | -- | -- | 3.63 | -- | -- | -- | -- | 4.28 | -- | -- | -- | -- |
| 576 | SV RR247 | 4.14 | -- | -- | -- | -- | 5.95 | -- | -- | -- | -- | 3.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 509 | SV RR248 | 4.41 | -- | -- | -- | -- | 6.05 | -- | -- | -- | -- | 4.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 609 | SV RR333 | 4.81 | 4.86 | -- | 4.83 | -- | 5.33 | 5.48 | -- | 5.41 | -- | 4.39 | 4.32 | -- | 4.36 | -- | 4.10 | -- | -- | -- | -- |
| 529 | SV RR336 | 4.53 | 4.75 | -- | 4.64 | -- | 5.50 | 4.53 | -- | 5.01 | -- | 4.29 | 3.93 | -- | 4.11 | -- | 4.29 | -- | -- | -- | -- |
| | MDFC Commercial | | | | | | | | | | | | | | | | | | | | |
| 616 | BTS 70RR99 | 4.20 | 4.72 | 4.33 | 4.46 | 4.42 | 3.57 | 4.52 | NR | 4.04 | NA | 3.90 | 4.38 | 3.85 | 4.14 | 4.04 | 3.46 | 3.58 | 2.78 | 3.52 | 3.27 |
| 532 | BTS 72RR22 | 3.91 | 4.18 | 4.31 | 4.04 | 4.13 | 2.33 | 3.21 | 3.19 | 2.77 | 2.91 | 5.18 | 4.72 | 4.50 | 4.95 | 4.80 | 4.10 | 4.26 | -- | 4.18 | -- |
| 555 | BTS 72RR95 | 4.34 | 4.37 | 4.57 | 4.35 | 4.43 | 4.17 | 3.80 | 3.93 | 3.98 | 3.96 | 4.56 | 3.77 | 3.02 | 4.17 | 3.78 | 3.02 | 2.67 | -- | 2.85 | -- |
| 615 | Crystal RR012 | 4.59 | 4.76 | 4.54 | 4.68 | 4.63 | 3.83 | 4.78 | NR | 4.31 | NA | 4.09 | 3.69 | 3.27 | 3.89 | 3.68 | 3.38 | 3.63 | 2.85 | 3.50 | 3.28 |
| 561 | Crystal RR228 | 4.19 | 4.39 | 4.33 | 4.29 | 4.30 | 2.35 | 3.36 | 3.49 | 2.85 | 3.06 | 4.48 | 4.40 | 4.41 | 4.44 | 4.43 | 4.40 | 4.69 | -- | 4.55 | -- |
| 559 | Crystal RR260 | 4.34 | 4.34 | 4.58 | 4.34 | 4.42 | 4.67 | 4.28 | 4.37 | 4.48 | 4.44 | 4.51 | 3.71 | 4.60 | 4.11 | 4.27 | 2.75 | 3.27 | -- | 3.01 | -- |
| 612 | Crystal RR299 | 4.51 | 4.35 | 4.48 | 4.43 | 4.45 | 4.70 | 4.96 | 4.04 | 4.83 | 4.57 | 4.03 | 3.85 | 4.22 | 3.94 | 4.04 | 3.88 | 4.06 | -- | 3.97 | -- |
| 556 | Crystal RR830 | 4.69 | 4.57 | 4.60 | 4.63 | 4.62 | 3.92 | 4.62 | NR | 4.27 | NA | 3.72 | 3.66 | 3.91 | 3.69 | 3.76 | 4.10 | 4.23 | 3.45 | 4.17 | 3.93 |
| 501 | Hilleshög 4022RR | 4.54 | 4.33 | 4.36 | 4.43 | 4.41 | 4.59 | 4.65 | 4.11 | 4.62 | 4.45 | 3.82 | 3.39 | 3.29 | 3.60 | 3.50 | 4.79 | 4.67 | 4.71 | 4.73 | 4.73 |
| 538 | Hilleshög 4062RR | 4.58 | 4.54 | 4.38 | 4.56 | 4.50 | 3.83 | 4.46 | NR | 4.14 | NA | 3.40 | 3.63 | 3.54 | 3.52 | 3.52 | 4.97 | 4.64 | 4.73 | 4.81 | 4.78 |
| 528 | Hilleshög 4448RR(9449 MD) | 5.28 | 5.05 | 4.66 | 5.17 | 5.00 | 4.78 | 4.70 | 4.46 | 4.74 | 4.65 | 4.73 | 4.81 | -- | 4.77 | -- | 4.71 | 4.98 | -- | 4.85 | -- |
| 579 | Seedex Vapor RR(995) | 4.94 | 4.87 | 4.48 | 4.91 | 4.77 | 5.50 | 4.64 | NR | 5.07 | NA | 4.48 | 4.65 | 4.25 | 4.57 | 4.46 | 4.70 | 5.19 | 4.68 | 4.95 | 4.86 |
| 563 | Seedex Yuma RR(924) | 5.11 | 4.46 | 4.74 | 4.78 | 4.77 | 5.41 | 4.46 | 4.63 | 4.94 | 4.83 | 4.19 | 4.63 | 4.16 | 4.41 | 4.33 | 4.53 | NR | -- | NA | -- |
| | MDFC Experimental | | | | | | | | | | | | | | | | | | | | |
| 598 | BTS 7373 | 4.58 | 4.75 | -- | 4.66 | -- | 2.72 | 3.53 | -- | 3.12 | -- | 4.50 | 3.88 | -- | 4.19 | -- | 3.87 | -- | -- | -- | -- |
| 544 | BTS 73MN | 4.37 | 4.63 | -- | 4.50 | -- | 3.93 | 3.96 | -- | 3.94 | -- | 4.06 | 3.53 | -- | 3.79 | -- | 3.16 | -- | -- | -- | -- |
| 604 | BTS 7438 | 4.45 | -- | -- | -- | -- | 3.85 | -- | -- | -- | -- | 4.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 614 | BTS 7447 | 4.58 | -- | -- | -- | -- | 4.52 | -- | -- | -- | -- | 5.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 582 | BTS 7481 | 4.41 | -- | -- | -- | -- | 4.80 | -- | -- | -- | -- | 4.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 600 | Crystal D352NT | 4.67 | 4.53 | -- | 4.60 | -- | 3.80 | 4.12 | -- | 3.96 | -- | 3.91 | 3.17 | -- | 3.54 | -- | 2.49 | -- | -- | -- | -- |
| 516 | Crystal D425NT | 4.06 | -- | -- | -- | -- | 4.47 | -- | -- | -- | -- | 3.96 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 560 | Crystal D488 | 4.99 | -- | -- | -- | -- | 4.23 | -- | -- | -- | -- | 4.44 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 591 | Hilleshög 4302RR | 4.52 | 4.23 | 4.34 | 4.38 | 4.36 | 4.20 | 4.82 | 4.20 | 4.51 | 4.41 | 3.58 | 3.32 | 3.63 | 3.45 | 3.51 | 5.05 | 5.11 | 4.33 | 5.08 | 4.83 |
| 537 | Hilleshög 9517RR | 4.39 | 4.67 | -- | 4.53 | -- | 3.89 | 3.66 | -- | 3.78 | -- | 4.04 | 3.62 | -- | 3.83 | -- | 3.40 | 3.77 | -- | 3.59 | -- |
| 574 | Hilleshög 9528RR | 4.97 | 4.72 | -- | 4.84 | -- | 5.44 | 4.51 | -- | 4.98 | -- | 3.83 | 4.17 | -- | 4.00 | -- | 4.80 | -- | -- | -- | -- |
| 577 | Hilleshög 9601RR | 4.77 | -- | -- | -- | -- | 6.12 | -- | -- | -- | -- | 3.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 619 | Hilleshög 9602RR | 4.67 | -- | -- | -- | -- | 4.55 | -- | -- | -- | -- | 4.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 522 | Hilleshög 9610RR | 4.46 | -- | -- | -- | -- | 5.04 | -- | -- | -- | -- | 3.41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 533 | Hilleshög 9613RR | 4.97 | -- | -- | -- | -- | 5.66 | -- | -- | -- | -- | 3.95 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 565 | Hilleshög 9615RR | 4.33 | -- | -- | -- | -- | 5.87 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.35 | -- | -- | -- | -- |
| 547 | Hilleshög 9620RR | 5.79 | -- | -- | -- | -- | 2.94 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.88 | -- | -- | -- | -- |
| 589 | Maribo MA102RR(108) | 5.54 | 5.48 | 5.12 | 5.51 | 5.38 | 4.99 | 4.44 | 3.18 | 4.71 | 4.20 | 4.30 | 5.53 | 4.86 | 4.91 | 4.90 | 5.37 | 5.10 | 5.05 | 5.23 | 5.17 |
| 594 | Maribo 109RR | 4.68 | -- | -- | -- | -- | 5.00 | -- | -- | -- | -- | 3.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 551 | Maribo 301 | 4.92 | -- | -- | -- | -- | 3.16 | -- | -- | -- | -- | 4.66 | -- | -- | -- | -- | 2.65 | -- | -- | -- | -- |
| 524 | Maribo 408 | 5.29 | -- | -- | -- | -- | 4.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 596 | Maribo 409 | 5.28 | -- | -- | -- | -- | 5.06 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 558 | Seedex SX0929RR | 4.81 | 4.58 | 4.02 | 4.70 | 4.47 | 4.38 | 5.46 | 3.80 | 4.92 | 4.54 | 4.41 | 4.65 | 3.82 | 4.53 | 4.29 | 4.82 | 5.73 | 4.09 | 5.28 | 4.88 |
| 601 | Seedex RR0941 | 4.67 | -- | -- | -- | -- | 3.93 | -- | -- | -- | -- | 4.19 | -- | -- | -- | -- | 4.86 | -- | -- | -- | -- |
| 507 | Seedex RR0942 | 4.61 | -- | -- | -- | -- | 5.64 | -- | -- | -- | -- | 4.08 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 536 | Seedex RR0943TT | 5.53 | -- | -- | -- | -- | 5.45 | -- | -- | -- | -- | 3.67 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 617 | Seedex RR0944 | 4.00 | -- | -- | -- | -- | 3.95 | -- | -- | -- | -- | 4.38 | -- | -- | -- | -- | 4.18 | -- | -- | -- | -- |
| 580 | Seedex RR0945 | 4.17 | -- | -- | -- | -- | 4.95 | -- | -- | -- | -- | 4.62 | -- | -- | -- | -- | 4.83 | -- | -- | -- | -- |
| 567 | Seedex RR0946 | 4.14 | -- | -- | -- | -- | 4.96 | -- | -- | -- | -- | 4.26 | -- | -- | -- | -- | 4.07 | -- | -- | -- | -- |
| 620 | SV RR631 | 4.88 | 4.78 | -- | 4.83 | -- | 4.98 | 5.04 | -- | 5.01 | -- | 4.36 | 4.37 | -- | 4.37 | -- | 4.04 | -- | -- | -- | -- |
| 540 | SV RR632N | 4.56 | 4.79 | -- | 4.68 | -- | 4.79 | 4.69 | -- | 4.74 | -- | 4.31 | 4.60 | -- | 4.46 | -- | 5.29 | 4.28 | -- | 4.78 | -- |
| 519 | SV RR633 | 5.39 | 4.83 | -- | 5.11 | -- | 3.72 | 4.69 | -- | 4.21 | -- | 4.15 | 3.44 | -- | 3.80 | -- | 3.22 | -- | -- | -- | -- |
| 592 | SV RR744 | 4.25 | -- | -- | -- | -- | 5.41 | -- | -- | -- | -- | 3.85 | -- | -- | -- | -- | 4.03 | -- | -- | -- | -- |
| 610 | SV RR745 | 5.10 | -- | -- | -- | -- | 6.14 | -- | -- | -- | -- | 4.34 | -- | -- | -- | -- | 4.71 | -- | -- | -- | -- |
| 581 | SV RR746 | 4.87 | -- | -- | -- | -- | 4.62 | -- | -- | -- | -- | 4.20 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 570 | SV RR747 | 4.73 | -- | -- | -- | -- | 4.67 | -- | -- | -- | -- | 4.10 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

CR ratings on a scale of 1-9. Good < 4.5, Poor > 5.2

Aph root ratings on a scale of 1-9. Good < 4.4, Poor > 5.5. Specialty level is 4.4.

Rhizoctonia ratings on a scale of 1-7. Good < 3.8, Poor > 5.0. Specialty level is 3.82.

Fusarium ratings on a scale of 1-9. Good < 3.0, Poor > 5.0

NE indicates variety was not entered into disease nursery.

NR indicates variety was not rated due to lack of Tach seed trt.

NA indicates average rating could not be determined.

Green highlighted ratings indicate specialty or good resistance.

Red highlighted ratings indicate level of concern for some fields.

+ Rhizoctonia and Fusarium ratings are optional in first year of testing.

Created 11-3-2014.

Table 5. Planting & Harvest Dates, Previous Crop and Disease Levels for 2014 ACSC Official Trial Sites *

| Location | District / Trial Type | Cooperator | Planting Date | Harvest Date | Preceeding Crop | Soil Type | Diseases Present @ | | | | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Aph | Rhc | Rzm | Fus | Maggot | Rt Aphid | |
| Casselton | Mhd/Hlb | Howe Seed Farm | 5/22 | 9/12 | Soybeans | Medium Light | L-M | M | N | N | N | N | |
| Averill | Mhd/Hlb | Oberg Farms | 5/24 | Abandoned | Corn | Medium Light | NA | NA | NA | NA | NA | NA | Water damage |
| Ada | Mhd/Hlb | Corey Jacobson | 5/4 | 10/27 | Wheat | Medium Heavy | N | L-M | N | N | N | N | Rhc spots |
| Buxton | Mhd/Hlb | Mark Osland | 5/24 | Abandoned | Wheat | Medium | N | M | N | N | N | N | Water damage |
| Crookston | EGF/Crk | Dennis Deboer | 5/21 | 10/16 | Wheat | Medium Light | N | N | N | L | N | N | Fus in demos |
| Climax | EGF/Crk | Curt & Scott Knutson | 5/23 | 10/8 | Wheat | Medium Light | M-V | L | N | N | N | N | |
| Grand Forks | EGF/Crk | Drees Farming Assc. | 5/16 | 9/19 | Wheat | Medium | N | M | N | N | M | L | Some large Rhc spots |
| Alvarado | EGF/Crk | Jared Sands | 5/18 | 10/11 | Wheat | Medium Heavy | N-L | L | N | N | N | L | |
| St Thomas | Dtn | Kennelly Farms | 5/27 | 9/25 | Wheat | Medium Light | N | N | N | L | L-M | L | |
| Stephen | Dtn | Hvidsten Farms | 5/17 | 10/10 | Wheat | Heavy | N | N | N | N | N | L | |
| Bathgate | Dtn | Troy Demars | 5/29 | 9/27 | Wheat | Heavy | L-M | N | N | N | N | L | |
| Kindred Aph | Specialty Aph | Nipstad Farms | 5/30 | Abandoned | Wheat | Medium Heavy | L | L | N | N | N | N | Water damage, sprangled beets |
| Georgetown Aph | Specialty Aph | Hoff Farms | 5/23 | Abandoned | Soybeans | Medium | L | N | N | N | N | N | Water damage, sprangled beets |
| Mhd Fus | Fusarium | Nelson Farms | 6/4 | NA | Wheat | Medium | NA | N | N | V | N | NA | |
| Mhd So. Fus | Fusarium | Oberg Farms | 5/30 | NA | Soybeans | Medium | NA | L | N | V | N | NA | |
| Mhd Rhc-E | Rhc Nurs | ACSC Tech Services Ctr | 6/3 | Abandoned | Soybeans | Heavy | L | M | N | N | N | L | Light disease pressure |
| Mhd Rhc-W | Rhc Nurs | ACSC Tech Services Ctr | 6/3 | 9/16 | Soybeans | Heavy | L | M-V | N | N | N | N | |
| NWROC Rhc | Rhc Nurs | Albert Sims | 5/22 | Abandoned | Corn | Medium Heavy | NA | L-M | N | N | N | N | Light disease pressure |
| Foxhome CR | Cercospora | Kevin Etzler | 6/9 | NA | Soybeans | Medium | NA | N | N | N | N | N | Some water damage |
| Barnesville | Minn-Dak | Maier Farms | 5/28 | 10/4 | Wheat | Medium | L | L | L-M | N | N | L | |
| Breckenridge | Minn-Dak | Jeremy Tischer | 5/28 | Abandoned | Wheat | Medium Light | NA | NA | NA | NA | NA | NA | Water damage |
| Fairmount | Minn-Dak | Wayne Miller | 5/28 | 10/5 | Wheat | Medium Light | L | N | N | N | N | L | Some weak stands |
| Norcross | Minn-Dak | Vipond Grain Farms | Not Planted | NA | Corn | Medium | NA | NA | NA | NA | NA | NA | Very wet in spring |

* Fertilizer applied in accordance to cooperative recommendations.

@ Disease notes for Aph., Rhizoc., Rhizomania, Fusarium, Root Maggot and Root Aphids were based upon visual evaluations (N=none, L=light, M=moderate, V=severe, NA=not observed)

Created 10-31-2014

Table 6. Seed Treatments Used on Approved Varieties in Official Variety Trials in 2014

| Description | Years in Trial | Years ** Comm. | Fungicide (Rhizoctonia) | Insecticide (Spring Tails & Maggots) | Tachigaren Rate (Aphanomyces) | Priming (Emergence) | Fungicide (Damping Off) |
|---|---|---|---|---|---|---|---|
| **ACSC Commercial** | | | | | | | |
| BTS 80RR32 | 5 | 3 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 80RR52 | 5 | 3 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 81RR17 | 4 | 2 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 82RR22 | 3 | 1 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 82RR28 | 3 | 1 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 82RR33 | 3 | 1 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 82RR80 | 3 | 1 | Kabina 12g | Poncho Beta | 20 | Ultipro | Allegiance Thiram |
| BTS 89RR83 | 6 | 4 | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| Crystal 093RR | 5 | 3 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 095RR | 5 | 3 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 101RR | 4 | 3 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 246RR | 3 | 1 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 247RR | 3 | 1 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 765RR | 8 | 6 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 768RR | 8 | 6 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 875RR | 7 | 5 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 981RR | 6 | 1 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 985RR | 6 | 4 | NA | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 986RR | 6 | 3 | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Hilleshög 4022RR | 9 | 6 | NA | NA | 45 | XBEET | Apron XL Maxim |
| Hilleshög 4094RR | 7 | 5 | NA | Cruiser Maxx | NA | NA | Apron XL Maxim |
| Hilleshög 4300RR | 4 | 2 | NA | Cruiser Maxx | 45 | NA | Apron XL Maxim |
| Hilleshög 4302RR | 4 | 1 | NA | NA | 45 | NA | Apron XL Maxim |
| Hilleshög 4303RR | 4 | 1 | NA | Cruiser Maxx | 45 | NA | Apron XL Maxim |
| Hilleshög 4448RR(9448) | 3 | 1 | NA | Cruiser Maxx | NA | XBEET | Apron XL Maxim |
| Maribo MA104RR | 4 | 1 | NA | Cruiser Maxx | 20 | XBEET | Apron XL Maxim |
| Seedex Victor RR | 6 | 4 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| Seedex Vision RR | 6 | 3 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| Seedex Xavier RR | 4 | 2 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| Seedex Yukon RR(828N) | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| Seedex Zenith RR(829N) | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| SV 36175RR | 4 | 2 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| SV 36271RR | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| SV 36272RR | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| SV 36273RR | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| SV 36918RR | 6 | 3 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| **ACSC Experimental** | | | | | | | |
| BTS 8337 | 2 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8354 | 2 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8363 | 2 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8390 | 2 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 83CN | 2 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8402 | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8404 | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8405 | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8406 | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 8408 | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| BTS 840N | 1 | NC | Kabina 12g | Poncho Beta | 20 | NA | Allegiance Thiram |
| Crystal 355RR | 2 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 359RR | 2 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 464RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 465RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 466RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 467RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 468RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Crystal 469RR | 1 | NC | Kabina 12g | Poncho Beta | 45 | XBEET | Allegiance Thiram |
| Hilleshög 9517RR | 2 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9528RR | 2 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9601RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9602RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9604RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9610RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9613RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9615RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9620RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo MA102RR | 4 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 109RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 301 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 305 | 2 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 402 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 403 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Seedex RR0832 | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| Seedex RR842 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |

Table 6. Seed Treatments Used on Approved Varieties in Official Variety Trials in 2014

| Description | Years in Trial | Years ** Comm. | Fungicide (Rhizoctonia) | Insecticide (Spring Tails & Maggots) | Tachigaren Rate (Aphanomyces) | Priming (Emergence) | Fungicide (Damping Off) |
|---|---|---|---|---|---|---|---|
| Seedex RR844TT | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| Seedex RR846 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| Seedex RR848 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR241 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR242TT | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR243 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR244TT | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR245N | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR246 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR247 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR248 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR333 | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| SV RR336 | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 20 | NA | Seabring Thiram |
| **MDFC Commercial** | | | | | | | |
| BTS 70RR99 | 5 | 3 | Kabina 12g | NA | NA | NA | Allegiance Thiram |
| BTS 72RR22 | 3 | 1 | Kabina 12g | NA | NA | NA | Allegiance Thiram |
| BTS 72RR95 | 3 | 1 | Kabina 12g | NA | NA | NA | Allegiance Thiram |
| Crystal RR012 | 5 | 3 | NA | NA | NA | Prime | Allegiance Thiram |
| Crystal RR228 | 3 | 1 | NA | NA | NA | Prime | Allegiance Thiram |
| Crystal RR260 | 3 | 1 | NA | NA | NA | Prime | Allegiance Thiram |
| Crystal RR299 | 3 | 1 | NA | NA | NA | Prime | Allegiance Thiram |
| Crystal RR830 | 7 | 5 | NA | NA | NA | Prime | Allegiance Thiram |
| Hilleshög 4022RR | 9 | 6 | NA | NA | NA | XBEET | Apron XL Maxim |
| Hilleshög 4062RR | 7 | 5 | NA | NA | NA | NA | Apron XL Maxim |
| Hilleshög 4448RR(9449 MD) | 3 | 1 | NA | Cruiser Maxx | NA | XBEET | Apron XL Maxim |
| Seedex Vapor RR(995) | 6 | 3 | Metlock/Rizolex/Kabina 7g | NipsIt | NA | XBEET | Seabring Thiram |
| Seedex Yuma RR(924) | 3 | 1 | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | XBEET | Seabring Thiram |
| **MDFC Experimental** | | | | | | | |
| BTS 7373 | 2 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| BTS 73MN | 2 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| BTS 7438 | 1 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| BTS 7447 | 1 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| BTS 7481 | 1 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| Crystal D352NT | 2 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| Crystal D425NT | 1 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| Crystal D488 | 1 | NC | Kabina 12g | Poncho Beta | 45 | NA | Allegiance Thiram |
| Hilleshög 4302RR | 4 | 1 | NA | NA | 45 | NA | Apron XL Maxim |
| Hilleshög 9517RR | 2 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9528RR | 2 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9601RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9602RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9610RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9613RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9615RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Hilleshög 9620RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo MA102RR(108) | 4 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 109RR | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 301 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 408 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Maribo 409 | 1 | NC | NA | Cruiser Maxx | 20 | NA | Apron XL Maxim |
| Seedex SX0929RR | 3 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0941 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0942 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0943TT | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0944 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0945 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| Seedex RR0946 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR631 | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR632N | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR633 | 2 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR744 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR745 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR746 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |
| SV RR747 | 1 | NC | Metlock/Rizolex/Kabina 7g | NipsIt | 45 | NA | Seabring Thiram |

Seed received by ACSC without Tachigaren was treated with Tachigaren for the Aphanomyces nurseries.
NA indicates no treatment applied in this category.

Table 7.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

8 sites - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 307.7 | 98 | 8965 | 107 | 1.02 | 52.05 | 96 | 1519 | 105 | 16.40 | 29.08 | 278 | 1485 | 296 | 0 | 81.3 | 7.6 |
| BTS 80RR52 | 107 | 318.4 | 101 | 8777 | 104 | 1.05 | 55.49 | 102 | 1530 | 105 | 16.97 | 27.56 | 224 | 1530 | 322 | 0 | 78.1 | 6.8 |
| BTS 81RR17 | 101 | 315.0 | 100 | 8381 | 100 | 1.12 | 54.39 | 100 | 1443 | 99 | 16.87 | 26.69 | 233 | 1625 | 352 | 0 | 79.5 | 7.0 |
| BTS 82RR22 | 135 | 329.8 | 105 | 8447 | 100 | 1.03 | 59.11 | 109 | 1515 | 104 | 17.52 | 25.59 | 235 | 1491 | 313 | 5 | 78.4 | 6.8 |
| BTS 82RR28 | 106 | 314.6 | 100 | 8970 | 107 | 1.05 | 54.27 | 100 | 1548 | 107 | 16.79 | 28.49 | 251 | 1577 | 307 | 23 | 80.7 | 6.4 |
| BTS 82RR33 | 109 | 313.0 | 100 | 9260 | 110 | 1.00 | 53.75 | 99 | 1596 | 110 | 16.66 | 29.47 | 279 | 1513 | 274 | 5 | 77.6 | 6.7 |
| BTS 82RR80 | 114 | 322.6 | 103 | 8610 | 102 | 1.01 | 56.81 | 105 | 1519 | 105 | 17.13 | 26.63 | 212 | 1481 | 309 | 0 | 81.4 | 8.9 |
| BTS 89RR83 | 121 | 303.1 | 96 | 8831 | 105 | 0.98 | 50.61 | 93 | 1474 | 101 | 16.14 | 29.14 | 246 | 1489 | 272 | 0 | 78.2 | 6.7 |
| Crystal 093RR | 104 | 326.9 | 104 | 8800 | 105 | 1.02 | 58.18 | 107 | 1565 | 108 | 17.36 | 26.95 | 204 | 1498 | 318 | 18 | 82.9 | 7.2 |
| Crystal 095RR | 134 | 314.8 | 100 | 8600 | 102 | 1.07 | 54.34 | 100 | 1488 | 102 | 16.81 | 27.22 | 260 | 1547 | 321 | 0 | 78.5 | 6.5 |
| Crystal 101RR | 122 | 313.7 | 100 | 9092 | 108 | 1.11 | 53.96 | 100 | 1566 | 108 | 16.79 | 28.95 | 291 | 1678 | 308 | 0 | 80.4 | 6.7 |
| Crystal 246RR | 136 | 313.8 | 100 | 8869 | 105 | 0.99 | 54.00 | 100 | 1529 | 105 | 16.68 | 28.22 | 247 | 1482 | 280 | 14 | 79.7 | 7.3 |
| Crystal 247RR | 120 | 314.0 | 100 | 9330 | 111 | 0.97 | 54.06 | 100 | 1613 | 111 | 16.67 | 29.58 | 249 | 1510 | 260 | 5 | 73.9 | 6.2 |
| Crystal 765RR | 108 | 326.0 | 104 | 8469 | 101 | 1.04 | 57.91 | 107 | 1507 | 104 | 17.34 | 25.92 | 290 | 1472 | 307 | 0 | 78.7 | 6.7 |
| Crystal 768RR | 102 | 315.8 | 100 | 8449 | 100 | 1.10 | 54.66 | 101 | 1459 | 100 | 16.89 | 26.82 | 272 | 1590 | 327 | 0 | 75.2 | 7.6 |
| Crystal 875RR | 103 | 312.9 | 99 | 8440 | 100 | 1.14 | 53.73 | 99 | 1452 | 100 | 16.79 | 26.90 | 295 | 1594 | 352 | 0 | 77.4 | 7.8 |
| Crystal 981RR | 113 | 314.3 | 100 | 8865 | 105 | 1.10 | 54.16 | 100 | 1530 | 105 | 16.81 | 28.17 | 313 | 1646 | 298 | 5 | 78.2 | 7.2 |
| Crystal 985RR | 127 | 311.1 | 99 | 8046 | 96 | 1.07 | 53.14 | 98 | 1376 | 95 | 16.62 | 25.83 | 269 | 1533 | 322 | 0 | 82.4 | 7.2 |
| Crystal 986RR | 115 | 323.2 | 103 | 8842 | 105 | 0.94 | 57.01 | 105 | 1561 | 107 | 17.10 | 27.33 | 259 | 1373 | 273 | 0 | 79.4 | 8.3 |
| Hilleshög 4022RR | 125 | 303.5 | 97 | 7534 | 90 | 1.17 | 50.73 | 94 | 1256 | 86 | 16.35 | 24.88 | 313 | 1592 | 371 | 0 | 78.2 | 6.5 |
| Hilleshög 4094RR | 117 | 309.6 | 98 | 7914 | 94 | 1.13 | 52.66 | 97 | 1345 | 93 | 16.61 | 25.59 | 280 | 1588 | 349 | 0 | 79.0 | 6.5 |
| Hilleshög 4300RR | 105 | 307.9 | 98 | 8084 | 96 | 1.08 | 52.14 | 96 | 1373 | 94 | 16.48 | 26.17 | 320 | 1564 | 307 | 0 | 64.7 | 7.2 |
| Hilleshög 4302RR | 132 | 316.2 | 101 | 8260 | 98 | 0.99 | 54.77 | 101 | 1435 | 99 | 16.81 | 26.05 | 273 | 1470 | 279 | 0 | 75.8 | 6.1 |
| Hilleshög 4303RR | 118 | 326.1 | 104 | 8405 | 100 | 0.99 | 57.92 | 107 | 1499 | 103 | 17.30 | 25.66 | 233 | 1490 | 289 | 0 | 72.0 | 6.1 |
| Hilleshög 4448RR(9448) | 110 | 323.0 | 103 | 9535 | 113 | 0.95 | 56.95 | 105 | 1685 | 116 | 17.10 | 29.43 | 219 | 1391 | 283 | 0 | 74.6 | 4.5 |
| Maribo MA104RR | 124 | 325.0 | 103 | 7487 | 89 | 0.99 | 57.57 | 106 | 1326 | 91 | 17.23 | 23.05 | 247 | 1437 | 292 | 0 | 76.6 | 7.7 |
| Seedex Victor RR | 112 | 304.1 | 97 | 8275 | 98 | 0.97 | 50.91 | 94 | 1391 | 96 | 16.17 | 27.08 | 253 | 1455 | 271 | 0 | 79.5 | 6.8 |
| Seedex Vision RR | 133 | 313.2 | 100 | 8306 | 99 | 0.96 | 53.82 | 99 | 1436 | 99 | 16.62 | 26.32 | 235 | 1426 | 279 | 0 | 76.1 | 6.9 |
| Seedex Xavier RR | 130 | 318.0 | 101 | 8388 | 100 | 0.94 | 55.35 | 102 | 1465 | 101 | 16.84 | 26.27 | 216 | 1417 | 272 | 0 | 70.9 | 8.2 |
| Seedex Yukon RR(828N) | 129 | 308.8 | 98 | 7914 | 94 | 1.00 | 52.42 | 97 | 1344 | 92 | 16.44 | 25.63 | 238 | 1440 | 307 | 0 | 79.2 | 6.7 |
| Seedex Zenith RR(829N) | 116 | 302.2 | 96 | 7487 | 89 | 1.04 | 50.31 | 93 | 1249 | 86 | 16.15 | 24.73 | 242 | 1488 | 318 | 5 | 78.9 | 9.0 |
| SV 36175RR | 128 | 310.2 | 99 | 7872 | 94 | 0.99 | 52.87 | 98 | 1342 | 92 | 16.50 | 25.36 | 241 | 1455 | 293 | 5 | 80.5 | 7.4 |
| SV 36271RR | 126 | 296.6 | 94 | 7189 | 85 | 1.04 | 48.51 | 89 | 1179 | 81 | 15.87 | 24.17 | 251 | 1541 | 308 | 0 | 78.6 | 9.7 |
| SV 36272RR | 131 | 320.3 | 102 | 7876 | 94 | 0.92 | 56.08 | 103 | 1382 | 95 | 16.93 | 24.52 | 190 | 1421 | 267 | 0 | 77.8 | 7.6 |
| SV 36273RR | 119 | 309.5 | 98 | 8525 | 101 | 0.97 | 52.63 | 97 | 1454 | 100 | 16.44 | 27.45 | 255 | 1456 | 271 | 0 | 72.5 | 5.3 |
| SV 36918RR | 123 | 315.2 | 100 | 7846 | 93 | 1.00 | 54.45 | 100 | 1361 | 94 | 16.76 | 24.76 | 219 | 1501 | 295 | 0 | 69.2 | 7.8 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 329.6 | 105 | 8220 | 98 | 0.97 | 58.93 | 109 | 1468 | 101 | 17.46 | 24.98 | 230 | 1470 | 281 | 14 | 76.6 | 5.4 |
| BTS 8354 | 241 | 317.7 | 101 | 8027 | 95 | 1.11 | 55.23 | 102 | 1393 | 96 | 17.00 | 25.31 | 243 | 1593 | 350 | 0 | 76.8 | 4.9 |
| BTS 8363 | 233 | 311.8 | 99 | 8978 | 107 | 0.96 | 53.37 | 98 | 1539 | 106 | 16.55 | 28.77 | 217 | 1465 | 276 | 95 | 77.5 | 4.5 |
| BTS 8390 | 208 | 304.3 | 97 | 9209 | 109 | 1.03 | 51.08 | 94 | 1546 | 106 | 16.25 | 30.25 | 290 | 1582 | 270 | 0 | 77.5 | 5.1 |
| BTS 83CN | 223 | 313.7 | 100 | 8618 | 102 | 0.95 | 53.99 | 100 | 1481 | 102 | 16.64 | 27.50 | 230 | 1448 | 266 | 0 | 76.9 | 3.8 |
| Crystal 355RR | 234 | 321.1 | 102 | 8272 | 98 | 1.08 | 56.28 | 104 | 1447 | 100 | 17.13 | 25.83 | 244 | 1570 | 331 | 0 | 78.5 | 4.8 |
| Hilleshög 9517RR | 247 | 323.8 | 103 | 7589 | 90 | 1.07 | 57.11 | 105 | 1339 | 92 | 17.27 | 23.44 | 294 | 1573 | 309 | 0 | 71.1 | 4.8 |
| Hilleshög 9528RR | 237 | 325.6 | 104 | 8908 | 106 | 0.93 | 57.69 | 106 | 1577 | 109 | 17.22 | 27.39 | 214 | 1414 | 270 | 0 | 77.5 | 4.2 |
| Maribo MA102RR | 216 | 325.0 | 103 | 9247 | 110 | 0.91 | 57.51 | 106 | 1636 | 113 | 17.17 | 28.43 | 203 | 1354 | 270 | 0 | 74.1 | 3.4 |
| Maribo 305 | 232 | 315.3 | 100 | 8914 | 106 | 0.88 | 54.51 | 101 | 1541 | 106 | 16.66 | 28.26 | 205 | 1283 | 263 | 0 | 81.7 | 3.3 |
| Seedex RR0832 | 227 | 318.8 | 101 | 8672 | 103 | 0.98 | 55.58 | 103 | 1513 | 104 | 16.93 | 27.16 | 234 | 1513 | 269 | 0 | 76.7 | 5.0 |
| SV RR333 | 212 | 316.9 | 101 | 8551 | 102 | 0.98 | 54.99 | 101 | 1485 | 102 | 16.83 | 26.97 | 214 | 1477 | 292 | 0 | 75.6 | 4.5 |
| SV RR336 | 226 | 316.0 | 100 | 8627 | 103 | 0.95 | 54.71 | 101 | 1493 | 103 | 16.75 | 27.29 | 206 | 1394 | 291 | 0 | 77.4 | 4.2 |
| Trial Mean | | 314.5 | | 8415 | | 1.03 | 54.21 | | 1453 | | 16.75 | 26.71 | 254 | 1507 | 302 | | 77.4 | 7.1 |
| Coeff. of Var. (%) | | 3.1 | | 6.1 | | 7.2 | 5.8 | | 7.8 | | 2.7 | 5.3 | 19.1 | 5.5 | 13.4 | | 8.9 | 35.8 |
| Mean LSD (0.05) | | 5.3 | | 359 | | 0.04 | 1.69 | | 75 | | 0.24 | 1.04 | 26 | 44 | 23 | | 3.4 | 1.2 |
| Mean LSD (0.01) | | 7.0 | | 473 | | 0.06 | 2.23 | | 99 | | 0.32 | 1.37 | 34 | 57 | 30 | | 4.5 | 1.5 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from 8 sites

Analyzed 10/24/2014 12:05

Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 14ACExp8

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 8.
2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials
Casselton ND - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 247.0 | 96 | 7658 | 105 | 1.20 | 32.71 | 91 | 1012 | 99 | 13.56 | 31.04 | 387 | 1738 | 329 | 0 | 79.8 | 13.2 |
| BTS 80RR52 | 107 | 269.1 | 105 | 8078 | 111 | 1.09 | 39.75 | 111 | 1195 | 117 | 14.56 | 29.55 | 261 | 1679 | 304 | 0 | 76.9 | 6.8 |
| BTS 81RR17 | 101 | 256.6 | 100 | 7405 | 102 | 1.21 | 35.77 | 100 | 1035 | 102 | 14.05 | 28.88 | 290 | 1820 | 350 | 0 | 80.6 | 8.3 |
| BTS 82RR22 | 135 | 274.0 | 107 | 7814 | 107 | 1.17 | 41.30 | 115 | 1177 | 116 | 14.87 | 28.70 | 312 | 1715 | 335 | 0 | 74.6 | 8.2 |
| BTS 82RR28 | 106 | 258.2 | 101 | 7646 | 105 | 1.19 | 36.28 | 101 | 1075 | 106 | 14.09 | 29.87 | 346 | 1767 | 330 | 0 | 77.0 | 11.5 |
| BTS 82RR33 | 109 | 255.7 | 100 | 7979 | 109 | 1.14 | 35.48 | 99 | 1099 | 108 | 13.93 | 31.52 | 379 | 1821 | 259 | 0 | 78.0 | 9.4 |
| BTS 82RR80 | 114 | 270.6 | 105 | 7681 | 105 | 1.05 | 40.24 | 112 | 1142 | 112 | 14.59 | 28.36 | 246 | 1662 | 282 | 0 | 80.0 | 13.2 |
| BTS 89RR83 | 121 | 239.0 | 93 | 7480 | 103 | 1.14 | 30.14 | 84 | 941 | 92 | 13.08 | 31.44 | 334 | 1697 | 306 | 0 | 77.9 | 9.5 |
| Crystal 093RR | 104 | 277.5 | 108 | 8268 | 113 | 1.04 | 42.42 | 119 | 1266 | 124 | 14.91 | 30.18 | 213 | 1681 | 280 | 0 | 82.7 | 10.9 |
| Crystal 095RR | 134 | 251.9 | 98 | 6979 | 96 | 1.21 | 34.26 | 96 | 944 | 93 | 13.80 | 28.10 | 366 | 1739 | 340 | 0 | 77.2 | 11.2 |
| Crystal 101RR | 122 | 254.4 | 99 | 7893 | 108 | 1.24 | 35.05 | 98 | 1091 | 107 | 13.96 | 30.99 | 352 | 1838 | 347 | 0 | 80.4 | 11.9 |
| Crystal 246RR | 136 | 254.0 | 99 | 7623 | 105 | 1.08 | 34.94 | 98 | 1055 | 104 | 13.79 | 29.55 | 334 | 1622 | 282 | 0 | 78.3 | 10.3 |
| Crystal 247RR | 120 | 245.2 | 96 | 7609 | 104 | 1.09 | 32.14 | 90 | 1007 | 99 | 13.36 | 30.92 | 350 | 1694 | 268 | 0 | 68.8 | 9.6 |
| Crystal 765RR | 108 | 260.6 | 102 | 6981 | 96 | 1.22 | 37.05 | 104 | 993 | 97 | 14.26 | 26.77 | 397 | 1726 | 344 | 0 | 75.9 | 9.5 |
| Crystal 768RR | 102 | 267.1 | 104 | 7814 | 107 | 1.16 | 39.13 | 109 | 1144 | 112 | 14.52 | 29.27 | 304 | 1762 | 320 | 0 | 74.7 | 9.4 |
| Crystal 875RR | 103 | 258.1 | 101 | 7428 | 102 | 1.24 | 36.24 | 101 | 1046 | 103 | 14.14 | 28.62 | 371 | 1727 | 367 | 0 | 78.6 | 10.9 |
| Crystal 981RR | 113 | 254.5 | 99 | 7833 | 107 | 1.26 | 35.11 | 98 | 1081 | 106 | 13.99 | 30.64 | 422 | 1850 | 329 | 0 | 73.4 | 10.1 |
| Crystal 985RR | 127 | 244.4 | 95 | 7090 | 97 | 1.18 | 31.88 | 89 | 931 | 91 | 13.41 | 28.72 | 331 | 1721 | 338 | 0 | 77.5 | 9.3 |
| Crystal 986RR | 115 | 275.6 | 107 | 8342 | 114 | 0.99 | 41.84 | 117 | 1268 | 125 | 14.76 | 30.28 | 299 | 1497 | 258 | 0 | 77.3 | 8.4 |
| Hilleshög 4022RR | 125 | 246.0 | 96 | 6879 | 94 | 1.30 | 32.38 | 90 | 900 | 88 | 13.59 | 28.29 | 407 | 1754 | 389 | 0 | 74.8 | 11.9 |
| Hilleshög 4094RR | 117 | 251.6 | 98 | 7366 | 101 | 1.29 | 34.16 | 95 | 989 | 97 | 13.86 | 29.52 | 436 | 1733 | 380 | 0 | 77.1 | 8.7 |
| Hilleshög 4300RR | 105 | 250.4 | 98 | 6885 | 94 | 1.16 | 33.80 | 94 | 925 | 91 | 13.69 | 27.48 | 458 | 1688 | 286 | 0 | 62.2 | 11.9 |
| Hilleshög 4302RR | 132 | 256.9 | 100 | 7069 | 97 | 1.08 | 35.87 | 100 | 986 | 97 | 13.94 | 27.35 | 399 | 1633 | 258 | 0 | 73.8 | 10.4 |
| Hilleshög 4303RR | 118 | 271.6 | 106 | 6807 | 93 | 1.02 | 40.55 | 113 | 1020 | 100 | 14.60 | 24.57 | 286 | 1587 | 261 | 0 | 64.9 | 9.1 |
| Hilleshög 4448RR(9448) | 110 | 263.7 | 103 | 7953 | 109 | 1.02 | 38.03 | 106 | 1143 | 112 | 14.22 | 30.19 | 293 | 1606 | 255 | 0 | 66.2 | 8.1 |
| Maribo MA104RR | 124 | 267.7 | 104 | 6630 | 91 | 1.05 | 39.32 | 110 | 974 | 96 | 14.42 | 25.01 | 333 | 1600 | 269 | 0 | 77.0 | 12.4 |
| Seedex Victor RR | 112 | 241.8 | 94 | 6468 | 89 | 1.07 | 31.05 | 87 | 844 | 83 | 13.17 | 26.27 | 325 | 1609 | 286 | 0 | 78.9 | 8.2 |
| Seedex Vision RR | 133 | 245.9 | 96 | 6317 | 87 | 1.09 | 32.35 | 90 | 845 | 83 | 13.38 | 25.46 | 320 | 1667 | 283 | 0 | 75.3 | 11.9 |
| Seedex Xavier RR | 130 | 262.7 | 102 | 6898 | 95 | 1.01 | 37.72 | 105 | 1001 | 98 | 14.13 | 26.31 | 271 | 1615 | 257 | 0 | 71.8 | 11.6 |
| Seedex Yukon RR(828N) | 129 | 260.9 | 102 | 7412 | 102 | 1.10 | 37.13 | 104 | 1055 | 104 | 14.16 | 28.23 | 307 | 1631 | 308 | 0 | 77.2 | 7.5 |
| Seedex Zenith RR(829N) | 116 | 238.0 | 93 | 6401 | 88 | 1.19 | 29.83 | 83 | 818 | 80 | 13.08 | 26.21 | 335 | 1680 | 353 | 0 | 78.6 | 11.0 |
| SV 36175RR | 128 | 258.2 | 101 | 7002 | 96 | 1.09 | 36.28 | 101 | 992 | 97 | 14.00 | 26.72 | 334 | 1670 | 285 | 0 | 76.4 | 8.8 |
| SV 36271RR | 126 | 238.2 | 93 | 5676 | 78 | 1.13 | 29.89 | 84 | 712 | 70 | 13.05 | 23.85 | 340 | 1714 | 300 | 0 | 79.0 | 13.6 |
| SV 36272RR | 131 | 267.2 | 104 | 7097 | 97 | 1.00 | 39.14 | 109 | 1041 | 102 | 14.35 | 26.66 | 250 | 1625 | 253 | 0 | 77.3 | 7.9 |
| SV 36273RR | 119 | 250.7 | 98 | 7187 | 99 | 1.15 | 33.88 | 95 | 973 | 96 | 13.66 | 28.85 | 392 | 1683 | 302 | 0 | 74.0 | 6.8 |
| SV 36918RR | 123 | 255.2 | 99 | 6681 | 92 | 1.14 | 35.33 | 99 | 932 | 92 | 13.90 | 26.09 | 256 | 1692 | 344 | 0 | 66.1 | 8.9 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 263.8 | 103 | 7358 | 101 | 1.18 | 37.98 | 106 | 1055 | 104 | 14.36 | 27.70 | 340 | 1716 | 339 | 0 | 73.2 | 6.2 |
| BTS 8354 | 241 | 255.3 | 99 | 7412 | 102 | 1.28 | 35.52 | 99 | 1037 | 102 | 14.03 | 28.86 | 313 | 1779 | 397 | 0 | 74.9 | 4.6 |
| BTS 8363 | 233 | 254.6 | 99 | 8152 | 112 | 1.03 | 35.34 | 99 | 1138 | 112 | 13.78 | 31.67 | 244 | 1603 | 282 | 0 | 74.6 | 4.8 |
| BTS 8390 | 208 | 249.3 | 97 | 8054 | 111 | 1.10 | 33.81 | 94 | 1095 | 108 | 13.58 | 32.12 | 330 | 1785 | 255 | 0 | 74.6 | 5.5 |
| BTS 83CN | 223 | 252.7 | 98 | 7731 | 106 | 1.08 | 34.80 | 97 | 1064 | 105 | 13.72 | 30.45 | 325 | 1647 | 283 | 0 | 72.4 | 3.7 |
| Crystal 355RR | 234 | 261.2 | 102 | 7621 | 105 | 1.18 | 37.23 | 104 | 1083 | 106 | 14.23 | 29.05 | 332 | 1731 | 335 | 0 | 80.7 | 3.3 |
| Hilleshög 9517RR | 247 | 273.1 | 106 | 7085 | 97 | 1.13 | 40.65 | 114 | 1055 | 104 | 14.80 | 25.85 | 341 | 1689 | 306 | 0 | 73.8 | 6.0 |
| Hilleshög 9528RR | 237 | 261.6 | 102 | 8134 | 112 | 1.05 | 37.35 | 104 | 1164 | 114 | 14.15 | 30.87 | 324 | 1604 | 268 | 0 | 74.6 | 4.2 |
| Maribo MA102RR | 216 | 267.9 | 104 | 8469 | 116 | 0.98 | 39.17 | 109 | 1243 | 122 | 14.41 | 31.45 | 310 | 1561 | 244 | 0 | 72.9 | 5.0 |
| Maribo 305 | 232 | 256.6 | 100 | 8403 | 115 | 1.02 | 35.92 | 100 | 1182 | 116 | 13.88 | 32.57 | 308 | 1480 | 300 | 0 | 78.4 | 2.5 |
| Seedex RR0832 | 227 | 261.4 | 102 | 7466 | 102 | 1.14 | 37.28 | 104 | 1072 | 105 | 14.23 | 28.28 | 316 | 1827 | 273 | 0 | 74.7 | 3.7 |
| SV RR333 | 212 | 261.5 | 102 | 7557 | 104 | 1.14 | 37.32 | 104 | 1080 | 106 | 14.22 | 28.72 | 289 | 1631 | 333 | 0 | 72.7 | 3.7 |
| SV RR336 | 226 | 256.5 | 100 | 7500 | 103 | 1.06 | 35.91 | 100 | 1044 | 103 | 13.89 | 29.10 | 297 | 1609 | 295 | 0 | 74.2 | 3.1 |
| Trial Mean | | 256.7 | | 7287 | | 1.13 | 35.79 | | 1018 | | 13.97 | 28.35 | 334 | 1693 | 307 | | 75.6 | 10.0 |
| Coeff. of Var. (%) | | 4.1 | | 8.1 | | 7.5 | 9.3 | | 11.7 | | 3.5 | 6.7 | 19.5 | 5.5 | 14.1 | | 6.1 | 36.7 |
| Mean LSD (0.05) | | 14.0 | | 768 | | 0.11 | 4.48 | | 159 | | 0.65 | 2.27 | 85 | 120 | 55 | | 5.7 | 4.6 |
| Mean LSD (0.01) | | 18.6 | | 1015 | | 0.14 | 5.91 | | 210 | | 0.86 | 3.00 | 112 | 158 | 72 | | 7.5 | 6.1 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ns |

* 2014 Data from Casselton ND  Analyzed 10/22/2014 08:53  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148301

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 9.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

Ada MN - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 306.2 | 97 | 11562 | 108 | 0.95 | 51.58 | 95 | 1950 | 106 | 16.26 | 37.63 | 148 | 1471 | 295 | 0 | 77.1 | 6.6 |
| BTS 80RR52 | 107 | 320.3 | 102 | 11621 | 109 | 1.01 | 56.08 | 103 | 2037 | 111 | 17.04 | 36.46 | 128 | 1505 | 335 | 0 | 72.3 | 6.1 |
| BTS 81RR17 | 101 | 309.4 | 98 | 10879 | 102 | 1.18 | 52.61 | 97 | 1855 | 101 | 16.65 | 34.94 | 144 | 1624 | 437 | 0 | 74.9 | 7.4 |
| BTS 82RR22 | 135 | 330.9 | 105 | 10538 | 99 | 1.05 | 59.46 | 110 | 1902 | 103 | 17.58 | 31.61 | 149 | 1476 | 373 | 0 | 73.2 | 8.2 |
| BTS 82RR28 | 106 | 309.9 | 99 | 11254 | 105 | 1.08 | 52.77 | 97 | 1911 | 104 | 16.59 | 36.72 | 147 | 1607 | 361 | 0 | 73.5 | 5.5 |
| BTS 82RR33 | 109 | 315.2 | 100 | 11254 | 105 | 1.00 | 54.45 | 100 | 1942 | 105 | 16.75 | 35.79 | 155 | 1617 | 289 | 32 | 65.1 | 5.4 |
| BTS 82RR80 | 114 | 318.0 | 101 | 10963 | 103 | 1.08 | 55.35 | 102 | 1911 | 104 | 16.97 | 34.24 | 138 | 1463 | 397 | 0 | 81.0 | 8.8 |
| BTS 89RR83 | 121 | 301.8 | 96 | 10589 | 99 | 0.94 | 50.19 | 93 | 1762 | 96 | 16.03 | 35.08 | 167 | 1517 | 263 | 0 | 67.8 | 7.6 |
| Crystal 093RR | 104 | 325.3 | 103 | 11237 | 105 | 1.06 | 57.69 | 106 | 1982 | 108 | 17.33 | 34.76 | 144 | 1492 | 372 | 0 | 82.5 | 8.5 |
| Crystal 095RR | 134 | 318.9 | 101 | 11511 | 108 | 1.04 | 55.62 | 103 | 2001 | 109 | 16.98 | 36.15 | 142 | 1489 | 362 | 0 | 70.4 | 5.8 |
| Crystal 101RR | 122 | 312.6 | 99 | 11820 | 111 | 1.09 | 53.62 | 99 | 2028 | 110 | 16.72 | 37.75 | 167 | 1713 | 330 | 0 | 74.0 | 5.6 |
| Crystal 246RR | 136 | 310.6 | 99 | 11161 | 104 | 1.02 | 52.98 | 98 | 1901 | 103 | 16.55 | 35.98 | 169 | 1514 | 326 | 0 | 73.4 | 7.6 |
| Crystal 247RR | 120 | 314.1 | 100 | 11026 | 103 | 0.98 | 54.09 | 100 | 1906 | 103 | 16.67 | 34.75 | 163 | 1503 | 302 | 32 | 69.6 | 7.0 |
| Crystal 765RR | 108 | 328.9 | 105 | 10864 | 102 | 1.08 | 58.84 | 109 | 1922 | 104 | 17.54 | 33.44 | 180 | 1519 | 368 | 0 | 72.1 | 4.9 |
| Crystal 768RR | 102 | 309.4 | 98 | 10326 | 97 | 1.12 | 52.61 | 97 | 1737 | 94 | 16.60 | 33.91 | 174 | 1591 | 385 | 0 | 69.7 | 8.2 |
| Crystal 875RR | 103 | 322.4 | 103 | 11158 | 104 | 1.13 | 56.76 | 105 | 1955 | 106 | 17.24 | 34.63 | 157 | 1592 | 392 | 0 | 71.9 | 6.6 |
| Crystal 981RR | 113 | 318.8 | 101 | 11902 | 111 | 1.07 | 55.61 | 103 | 2065 | 112 | 17.02 | 37.49 | 160 | 1717 | 318 | 0 | 77.0 | 5.3 |
| Crystal 985RR | 127 | 316.5 | 101 | 11398 | 107 | 1.07 | 54.88 | 101 | 1985 | 108 | 16.89 | 35.72 | 155 | 1491 | 371 | 0 | 80.5 | 6.9 |
| Crystal 986RR | 115 | 324.3 | 103 | 10324 | 97 | 0.95 | 57.36 | 106 | 1816 | 99 | 17.17 | 32.00 | 145 | 1384 | 318 | 0 | 68.5 | 13.1 |
| Hilleshög 4022RR | 125 | 296.2 | 94 | 10027 | 94 | 1.29 | 48.39 | 89 | 1645 | 89 | 16.09 | 33.60 | 222 | 1604 | 488 | 0 | 71.6 | 4.8 |
| Hilleshög 4094RR | 117 | 307.1 | 98 | 9766 | 91 | 1.12 | 51.88 | 96 | 1653 | 90 | 16.48 | 31.84 | 171 | 1619 | 376 | 0 | 78.4 | 5.9 |
| Hilleshög 4300RR | 105 | 305.4 | 97 | 10212 | 96 | 1.13 | 51.33 | 95 | 1723 | 94 | 16.39 | 33.08 | 224 | 1663 | 348 | 0 | 60.7 | 5.6 |
| Hilleshög 4302RR | 132 | 321.0 | 102 | 10419 | 97 | 0.96 | 56.29 | 104 | 1831 | 99 | 17.01 | 32.62 | 150 | 1473 | 297 | 0 | 74.1 | 5.6 |
| Hilleshög 4303RR | 118 | 327.3 | 104 | 11417 | 107 | 1.01 | 58.32 | 108 | 2033 | 110 | 17.38 | 34.86 | 136 | 1544 | 326 | 0 | 68.3 | 5.2 |
| Hilleshög 4448RR(9448) | 110 | 330.5 | 105 | 12202 | 114 | 0.88 | 59.33 | 109 | 2197 | 119 | 17.41 | 36.79 | 110 | 1366 | 283 | 0 | 73.8 | 4.3 |
| Maribo MA104RR | 124 | 327.0 | 104 | 9990 | 93 | 0.93 | 58.22 | 107 | 1787 | 97 | 17.28 | 30.31 | 139 | 1445 | 290 | 0 | 67.1 | 7.9 |
| Seedex Victor RR | 112 | 295.8 | 94 | 10173 | 95 | 1.01 | 48.28 | 89 | 1659 | 90 | 15.81 | 34.48 | 228 | 1513 | 295 | 0 | 72.6 | 5.3 |
| Seedex Vision RR | 133 | 314.5 | 100 | 10164 | 95 | 0.93 | 54.25 | 100 | 1747 | 95 | 16.66 | 32.59 | 124 | 1400 | 306 | 0 | 69.4 | 7.6 |
| Seedex Xavier RR | 130 | 314.4 | 100 | 10792 | 101 | 0.97 | 54.20 | 100 | 1861 | 101 | 16.68 | 34.46 | 131 | 1434 | 318 | 0 | 59.2 | 7.4 |
| Seedex Yukon RR(828N) | 129 | 307.6 | 98 | 9879 | 92 | 0.93 | 52.03 | 96 | 1666 | 90 | 16.31 | 32.32 | 132 | 1425 | 287 | 0 | 74.8 | 7.0 |
| Seedex Zenith RR(829N) | 116 | 303.9 | 97 | 9848 | 92 | 0.97 | 50.84 | 94 | 1647 | 89 | 16.16 | 32.41 | 137 | 1471 | 315 | 0 | 70.9 | 10.1 |
| SV 36175RR | 128 | 304.6 | 97 | 9975 | 93 | 0.96 | 51.07 | 94 | 1666 | 90 | 16.19 | 32.98 | 154 | 1428 | 305 | 0 | 78.5 | 7.7 |
| SV 36271RR | 126 | 297.3 | 95 | 9018 | 84 | 1.03 | 48.76 | 90 | 1462 | 79 | 15.91 | 30.83 | 170 | 1548 | 326 | 0 | 70.9 | 10.3 |
| SV 36272RR | 131 | 322.2 | 102 | 10128 | 95 | 0.87 | 56.70 | 105 | 1770 | 96 | 16.99 | 31.63 | 108 | 1362 | 278 | 0 | 61.6 | 6.6 |
| SV 36273RR | 119 | 310.6 | 99 | 9791 | 92 | 0.94 | 53.00 | 98 | 1676 | 91 | 16.47 | 31.50 | 139 | 1524 | 271 | 0 | 55.6 | 5.2 |
| SV 36918RR | 123 | 317.8 | 101 | 9690 | 91 | 0.97 | 55.28 | 102 | 1707 | 93 | 16.85 | 30.02 | 126 | 1498 | 309 | 0 | 66.8 | 9.9 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 338.5 | 108 | 11729 | 110 | 0.98 | 61.88 | 114 | 2144 | 116 | 17.87 | 34.78 | 134 | 1461 | 319 | 95 | 78.5 | 5.9 |
| BTS 8354 | 241 | 318.6 | 101 | 10585 | 99 | 1.15 | 55.55 | 103 | 1835 | 100 | 17.09 | 33.37 | 145 | 1588 | 426 | 0 | 81.2 | 5.9 |
| BTS 8363 | 233 | 314.5 | 100 | 12200 | 114 | 0.97 | 54.24 | 100 | 2116 | 115 | 16.67 | 38.43 | 129 | 1479 | 307 | 194 | 72.3 | 5.1 |
| BTS 8390 | 208 | 308.5 | 98 | 12732 | 119 | 1.00 | 52.35 | 97 | 2153 | 117 | 16.40 | 41.56 | 170 | 1592 | 293 | 0 | 76.0 | 6.3 |
| BTS 83CN | 223 | 315.6 | 100 | 11391 | 107 | 0.97 | 54.57 | 101 | 1967 | 107 | 16.72 | 36.28 | 157 | 1426 | 317 | 0 | 74.5 | 5.4 |
| Crystal 355RR | 234 | 322.7 | 103 | 11320 | 106 | 1.13 | 56.85 | 105 | 1985 | 108 | 17.24 | 35.40 | 141 | 1572 | 404 | 0 | 75.3 | 4.4 |
| Hilleshög 9517RR | 247 | 325.3 | 103 | 10346 | 97 | 1.12 | 57.67 | 106 | 1831 | 99 | 17.38 | 31.84 | 171 | 1642 | 366 | 0 | 67.8 | 5.2 |
| Hilleshög 9528RR | 237 | 329.2 | 105 | 12183 | 114 | 0.90 | 58.89 | 109 | 2172 | 118 | 17.34 | 37.28 | 119 | 1376 | 292 | 0 | 77.7 | 4.8 |
| Maribo MA102RR | 216 | 325.9 | 104 | 12236 | 114 | 0.95 | 57.85 | 107 | 2159 | 117 | 17.23 | 38.15 | 128 | 1385 | 328 | 0 | 71.5 | 3.9 |
| Maribo 305 | 232 | 315.5 | 100 | 12105 | 113 | 0.87 | 54.55 | 101 | 2088 | 113 | 16.63 | 38.58 | 147 | 1318 | 261 | 0 | 82.9 | 3.4 |
| Seedex RR0832 | 227 | 325.7 | 104 | 11577 | 108 | 0.92 | 57.79 | 107 | 2046 | 111 | 17.20 | 35.74 | 131 | 1485 | 280 | 0 | 73.3 | 7.8 |
| SV RR333 | 212 | 317.4 | 101 | 11682 | 109 | 0.98 | 55.14 | 102 | 2025 | 110 | 16.83 | 36.80 | 140 | 1559 | 293 | 0 | 63.6 | 4.5 |
| SV RR336 | 226 | 323.9 | 103 | 11479 | 107 | 0.89 | 57.23 | 106 | 2023 | 110 | 17.07 | 35.66 | 114 | 1342 | 298 | 0 | 72.8 | 4.0 |
| Trial Mean | | 314.4 | | 10691 | | 1.02 | 54.19 | | 1842 | | 16.74 | 34.04 | 154 | 1517 | 334 | | 71.4 | 7.0 |
| Coeff. of Var. (%) | | 3.7 | | 6.1 | | 10.1 | 6.9 | | 8.1 | | 3.1 | 5.4 | 30.3 | 6.2 | 18.2 | | 12.2 | 31.9 |
| Mean LSD (0.05) | | 14.8 | | 904 | | 0.13 | 4.72 | | 204 | | 0.66 | 2.54 | 58 | 117 | 80 | | 11.6 | 2.7 |
| Mean LSD (0.01) | | 19.6 | | 1194 | | 0.18 | 6.23 | | 270 | | 0.87 | 3.35 | 77 | 154 | 105 | | 15.4 | 3.6 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Ada MN  Analyzed 10/22/2014 09:22  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148303

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 10.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

Climax MN - Heavy Aphanomyces Pressure - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 279.1 | 96 | 7894 | 99 | 1.05 | 42.94 | 92 | 1213 | 94 | 15.00 | 28.33 | 232 | 1562 | 310 | 0 | 82.2 | 4.3 |
| BTS 80RR52 | 107 | 297.3 | 102 | 8876 | 111 | 1.11 | 48.75 | 104 | 1454 | 113 | 15.98 | 29.87 | 184 | 1593 | 372 | 0 | 80.6 | 6.0 |
| BTS 81RR17 | 101 | 295.4 | 101 | 8969 | 112 | 1.18 | 48.14 | 103 | 1462 | 114 | 15.96 | 30.37 | 172 | 1665 | 414 | 0 | 75.9 | 6.1 |
| BTS 82RR22 | 135 | 316.7 | 109 | 8904 | 111 | 1.07 | 54.92 | 117 | 1544 | 120 | 16.91 | 28.11 | 164 | 1595 | 349 | 0 | 75.7 | 6.7 |
| BTS 82RR28 | 106 | 293.3 | 101 | 8815 | 110 | 1.08 | 47.48 | 101 | 1426 | 111 | 15.75 | 30.13 | 192 | 1638 | 335 | 0 | 79.2 | 5.3 |
| BTS 82RR33 | 109 | 294.6 | 101 | 8440 | 106 | 1.05 | 47.88 | 102 | 1369 | 106 | 15.77 | 28.74 | 195 | 1747 | 275 | 0 | 81.4 | 5.2 |
| BTS 82RR80 | 114 | 303.0 | 104 | 9600 | 120 | 1.09 | 50.56 | 108 | 1601 | 124 | 16.24 | 31.69 | 147 | 1548 | 376 | 0 | 83.7 | 5.6 |
| BTS 89RR83 | 121 | 289.1 | 99 | 8444 | 106 | 1.03 | 46.13 | 99 | 1347 | 105 | 15.48 | 29.24 | 185 | 1645 | 293 | 0 | 78.3 | 5.5 |
| Crystal 093RR | 104 | 309.7 | 106 | 9490 | 119 | 0.94 | 52.71 | 113 | 1616 | 126 | 16.43 | 30.62 | 143 | 1472 | 287 | 32 | 81.7 | 4.8 |
| Crystal 095RR | 134 | 308.8 | 106 | 9363 | 117 | 1.06 | 52.40 | 112 | 1592 | 124 | 16.50 | 30.29 | 153 | 1537 | 356 | 0 | 77.1 | 5.1 |
| Crystal 101RR | 122 | 302.9 | 104 | 9727 | 122 | 1.14 | 50.52 | 108 | 1621 | 126 | 16.28 | 32.10 | 195 | 1678 | 363 | 0 | 82.6 | 6.7 |
| Crystal 246RR | 136 | 297.0 | 102 | 8778 | 110 | 1.01 | 48.65 | 104 | 1438 | 112 | 15.86 | 29.59 | 180 | 1611 | 288 | 0 | 77.8 | 5.9 |
| Crystal 247RR | 120 | 303.2 | 104 | 9298 | 116 | 0.98 | 50.62 | 108 | 1553 | 121 | 16.14 | 30.62 | 171 | 1583 | 278 | 0 | 75.6 | 5.8 |
| Crystal 765RR | 108 | 290.6 | 100 | 5128 | 64 | 1.08 | 46.60 | 100 | 825 | 64 | 15.61 | 17.60 | 236 | 1793 | 275 | 0 | 80.1 | 6.4 |
| Crystal 768RR | 102 | 283.6 | 97 | 7633 | 95 | 1.02 | 44.37 | 95 | 1192 | 93 | 15.20 | 26.96 | 219 | 1647 | 273 | 0 | 85.4 | 6.1 |
| Crystal 875RR | 103 | 275.3 | 95 | 7394 | 92 | 1.09 | 41.72 | 89 | 1119 | 87 | 14.85 | 26.92 | 235 | 1737 | 298 | 0 | 79.5 | 8.4 |
| Crystal 981RR | 113 | 300.0 | 103 | 9345 | 117 | 1.09 | 49.60 | 106 | 1545 | 120 | 16.09 | 31.19 | 208 | 1728 | 310 | 0 | 83.0 | 8.1 |
| Crystal 985RR | 127 | 299.4 | 103 | 9377 | 117 | 1.03 | 49.41 | 106 | 1549 | 120 | 16.00 | 31.31 | 161 | 1516 | 334 | 0 | 79.6 | 7.4 |
| Crystal 986RR | 115 | 272.0 | 93 | 7361 | 92 | 0.96 | 40.67 | 87 | 1102 | 86 | 14.56 | 27.01 | 240 | 1504 | 258 | 0 | 86.6 | 5.6 |
| Hilleshög 4022RR | 125 | 287.1 | 99 | 7684 | 96 | 1.08 | 45.49 | 97 | 1218 | 95 | 15.43 | 26.81 | 221 | 1619 | 326 | 0 | 64.6 | 6.1 |
| Hilleshög 4094RR | 117 | 280.6 | 96 | 7096 | 89 | 1.11 | 43.43 | 93 | 1097 | 85 | 15.14 | 25.35 | 242 | 1721 | 312 | 0 | 64.2 | 5.0 |
| Hilleshög 4300RR | 105 | 279.5 | 96 | 6946 | 87 | 1.00 | 43.06 | 92 | 1069 | 83 | 14.97 | 24.84 | 235 | 1580 | 267 | 0 | 79.9 | 7.5 |
| Hilleshög 4302RR | 132 | 302.7 | 104 | 8179 | 102 | 0.91 | 50.46 | 108 | 1364 | 106 | 16.05 | 26.99 | 186 | 1503 | 240 | 0 | 74.9 | 5.5 |
| Hilleshög 4303RR | 118 | 301.9 | 104 | 7706 | 96 | 0.93 | 50.21 | 107 | 1283 | 100 | 16.02 | 25.49 | 161 | 1518 | 254 | 0 | 74.2 | 6.0 |
| Hilleshög 4448RR(9448) | 110 | 302.2 | 104 | 6728 | 84 | 0.87 | 50.32 | 107 | 1119 | 87 | 15.98 | 22.30 | 162 | 1392 | 242 | 0 | 54.7 | 4.1 |
| Maribo MA104RR | 124 | 301.7 | 104 | 7351 | 92 | 0.93 | 50.15 | 107 | 1219 | 95 | 16.02 | 24.40 | 184 | 1491 | 261 | 0 | 75.7 | 6.6 |
| Seedex Victor RR | 112 | 290.5 | 100 | 7610 | 95 | 0.90 | 46.58 | 99 | 1222 | 95 | 15.42 | 26.16 | 176 | 1455 | 247 | 0 | 80.4 | 6.7 |
| Seedex Vision RR | 133 | 282.6 | 97 | 7121 | 89 | 0.91 | 44.07 | 94 | 1111 | 86 | 15.04 | 25.15 | 176 | 1535 | 229 | 0 | 85.4 | 6.6 |
| Seedex Xavier RR | 130 | 286.7 | 98 | 7124 | 89 | 0.92 | 45.38 | 97 | 1127 | 88 | 15.26 | 24.86 | 170 | 1541 | 243 | 0 | 74.6 | 6.9 |
| Seedex Yukon RR(828N) | 129 | 276.0 | 95 | 7762 | 97 | 0.99 | 41.95 | 90 | 1177 | 91 | 14.79 | 28.16 | 197 | 1545 | 290 | 0 | 87.8 | 6.9 |
| Seedex Zenith RR(829N) | 116 | 273.1 | 94 | 7341 | 92 | 1.00 | 41.04 | 88 | 1103 | 86 | 14.65 | 26.86 | 210 | 1558 | 283 | 0 | 83.5 | 7.8 |
| SV 36175RR | 128 | 283.9 | 97 | 7681 | 96 | 0.91 | 44.46 | 95 | 1204 | 94 | 15.11 | 26.98 | 182 | 1416 | 266 | 0 | 85.4 | 7.0 |
| SV 36271RR | 126 | 270.7 | 93 | 6811 | 85 | 1.06 | 40.26 | 86 | 1011 | 79 | 14.59 | 25.17 | 218 | 1700 | 290 | 0 | 87.3 | 9.0 |
| SV 36272RR | 131 | 280.9 | 96 | 7092 | 89 | 0.91 | 43.52 | 93 | 1096 | 85 | 14.95 | 25.36 | 175 | 1548 | 229 | 0 | 88.9 | 7.5 |
| SV 36273RR | 119 | 284.6 | 98 | 7491 | 94 | 0.90 | 44.70 | 95 | 1176 | 91 | 15.13 | 26.29 | 176 | 1514 | 229 | 0 | 79.4 | 6.0 |
| SV 36918RR | 123 | 291.1 | 100 | 7330 | 92 | 0.95 | 46.77 | 100 | 1177 | 91 | 15.51 | 25.19 | 173 | 1531 | 268 | 0 | 77.0 | 6.7 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 312.9 | 107 | 9762 | 122 | 1.06 | 53.35 | 114 | 1664 | 129 | 16.72 | 31.29 | 171 | 1507 | 364 | 0 | 72.8 | 4.7 |
| BTS 8354 | 241 | 302.2 | 104 | 8825 | 110 | 1.21 | 50.12 | 107 | 1464 | 114 | 16.32 | 29.19 | 171 | 1693 | 430 | 0 | 73.1 | 2.8 |
| BTS 8363 | 233 | 289.6 | 99 | 8604 | 108 | 1.08 | 46.31 | 99 | 1378 | 107 | 15.56 | 29.74 | 194 | 1605 | 347 | 0 | 69.9 | 3.4 |
| BTS 8390 | 208 | 290.0 | 100 | 9994 | 125 | 1.07 | 46.40 | 99 | 1604 | 125 | 15.57 | 34.42 | 220 | 1695 | 301 | 0 | 77.2 | 3.8 |
| BTS 83CN | 223 | 286.3 | 98 | 8557 | 107 | 1.10 | 45.27 | 97 | 1356 | 105 | 15.40 | 29.93 | 200 | 1580 | 358 | 0 | 76.3 | 3.1 |
| Crystal 355RR | 234 | 307.9 | 106 | 9811 | 123 | 1.14 | 51.84 | 111 | 1653 | 128 | 16.54 | 31.82 | 171 | 1556 | 412 | 0 | 81.0 | 3.1 |
| Hilleshög 9517RR | 247 | 291.2 | 100 | 8166 | 102 | 1.17 | 46.79 | 100 | 1309 | 102 | 15.74 | 28.15 | 267 | 1685 | 366 | 0 | 79.0 | 4.0 |
| Hilleshög 9528RR | 237 | 301.5 | 103 | 7577 | 95 | 0.83 | 49.89 | 107 | 1253 | 97 | 15.95 | 25.21 | 160 | 1301 | 243 | 0 | 66.4 | 3.0 |
| Maribo MA102RR | 216 | 295.3 | 101 | 8437 | 105 | 0.88 | 48.02 | 103 | 1372 | 107 | 15.67 | 28.63 | 140 | 1432 | 249 | 0 | 72.7 | 2.2 |
| Maribo 305 | 232 | 288.0 | 99 | 7332 | 92 | 0.86 | 45.80 | 98 | 1165 | 91 | 15.28 | 25.59 | 163 | 1391 | 241 | 0 | 71.0 | 2.5 |
| Seedex RR0832 | 227 | 291.0 | 100 | 8514 | 106 | 1.05 | 46.74 | 100 | 1366 | 106 | 15.61 | 29.37 | 205 | 1544 | 336 | 0 | 80.3 | 4.9 |
| SV RR333 | 212 | 275.5 | 95 | 7596 | 95 | 0.96 | 42.00 | 90 | 1155 | 90 | 14.73 | 27.69 | 188 | 1511 | 270 | 0 | 83.9 | 3.8 |
| SV RR336 | 226 | 282.6 | 97 | 8379 | 105 | 0.91 | 44.17 | 94 | 1313 | 102 | 15.05 | 29.56 | 163 | 1450 | 253 | 0 | 79.8 | 3.3 |
| Trial Mean | | 291.3 | | 7997 | | 1.01 | 46.83 | | 1287 | | 15.57 | 27.42 | 190 | 1582 | 292 | | 79.0 | 6.3 |
| Coeff. of Var. (%) | | 3.1 | | 5.5 | | 7.4 | 6.2 | | 7.1 | | 2.7 | 5.3 | 17.2 | 5.9 | 11.9 | | 10.1 | 31.6 |
| Mean LSD (0.05) | | 10.7 | | 536 | | 0.09 | 3.41 | | 112 | | 0.49 | 1.74 | 38 | 114 | 41 | | 9.2 | 2.4 |
| Mean LSD (0.01) | | 14.1 | | 707 | | 0.12 | 4.49 | | 147 | | 0.65 | 2.30 | 50 | 151 | 55 | | 12.2 | 3.1 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | * |

* 2014 Data from Climax MN

Analyzed 10/22/2014 12:20

Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.

Trial # = 148306

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 11.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

Crookston MN - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 316.2 | 99 | 10243 | 107 | 1.06 | 54.78 | 97 | 1773 | 105 | 16.87 | 32.30 | 271 | 1432 | 342 | 0 | 79.3 | 8.2 |
| BTS 80RR52 | 107 | 317.1 | 99 | 9370 | 98 | 1.20 | 55.07 | 98 | 1629 | 97 | 17.06 | 29.41 | 240 | 1564 | 424 | 0 | 82.1 | 7.9 |
| BTS 81RR17 | 101 | 318.9 | 99 | 9442 | 98 | 1.23 | 55.65 | 99 | 1647 | 98 | 17.17 | 29.56 | 224 | 1641 | 435 | 0 | 80.7 | 6.6 |
| BTS 82RR22 | 135 | 342.7 | 107 | 9862 | 103 | 1.05 | 63.24 | 112 | 1819 | 108 | 18.20 | 28.68 | 224 | 1474 | 342 | 0 | 79.7 | 6.8 |
| BTS 82RR28 | 106 | 319.5 | 100 | 10191 | 106 | 1.13 | 55.82 | 99 | 1776 | 106 | 17.10 | 31.85 | 269 | 1544 | 365 | 32 | 78.5 | 7.7 |
| BTS 82RR33 | 109 | 322.1 | 100 | 10697 | 111 | 1.08 | 56.64 | 101 | 1882 | 112 | 17.18 | 33.16 | 261 | 1537 | 329 | 0 | 73.5 | 6.4 |
| BTS 82RR80 | 114 | 327.1 | 102 | 9497 | 99 | 1.07 | 58.26 | 104 | 1694 | 101 | 17.43 | 29.02 | 219 | 1449 | 365 | 0 | 80.6 | 9.5 |
| BTS 89RR83 | 121 | 306.0 | 95 | 9948 | 104 | 1.06 | 51.51 | 92 | 1676 | 100 | 16.36 | 32.42 | 266 | 1487 | 331 | 0 | 81.0 | 7.7 |
| Crystal 093RR | 104 | 322.8 | 101 | 9759 | 102 | 1.16 | 56.88 | 101 | 1719 | 102 | 17.31 | 30.30 | 234 | 1564 | 402 | 0 | 83.4 | 8.0 |
| Crystal 095RR | 134 | 315.3 | 98 | 9572 | 100 | 1.23 | 54.47 | 97 | 1651 | 98 | 17.00 | 30.49 | 295 | 1578 | 427 | 0 | 78.8 | 5.9 |
| Crystal 101RR | 122 | 318.7 | 99 | 9951 | 104 | 1.23 | 55.55 | 99 | 1734 | 103 | 17.16 | 31.23 | 317 | 1683 | 387 | 0 | 81.3 | 7.7 |
| Crystal 246RR | 136 | 319.6 | 100 | 10392 | 108 | 1.08 | 55.85 | 99 | 1815 | 108 | 17.06 | 32.49 | 263 | 1497 | 344 | 0 | 78.2 | 7.0 |
| Crystal 247RR | 120 | 322.5 | 101 | 10814 | 113 | 1.07 | 56.77 | 101 | 1904 | 113 | 17.18 | 33.53 | 261 | 1555 | 316 | 0 | 70.9 | 6.2 |
| Crystal 765RR | 108 | 331.0 | 103 | 9374 | 98 | 1.10 | 59.49 | 106 | 1685 | 100 | 17.65 | 28.39 | 285 | 1451 | 361 | 0 | 73.2 | 6.4 |
| Crystal 768RR | 102 | 325.7 | 102 | 9583 | 100 | 1.21 | 57.81 | 103 | 1703 | 101 | 17.50 | 29.48 | 297 | 1585 | 407 | 0 | 75.4 | 6.0 |
| Crystal 875RR | 103 | 320.3 | 100 | 9653 | 101 | 1.29 | 56.09 | 100 | 1690 | 100 | 17.30 | 30.20 | 268 | 1630 | 466 | 0 | 76.0 | 6.2 |
| Crystal 981RR | 113 | 316.7 | 99 | 10114 | 105 | 1.17 | 54.94 | 98 | 1752 | 104 | 17.01 | 31.87 | 334 | 1641 | 349 | 0 | 77.8 | 5.5 |
| Crystal 985RR | 127 | 317.6 | 99 | 8895 | 93 | 1.13 | 55.22 | 98 | 1547 | 92 | 17.02 | 28.00 | 248 | 1572 | 372 | 0 | 76.4 | 6.1 |
| Crystal 986RR | 115 | 336.5 | 105 | 10008 | 104 | 0.94 | 61.25 | 109 | 1825 | 108 | 17.76 | 29.78 | 247 | 1277 | 298 | 0 | 78.5 | 7.1 |
| Hilleshög 4022RR | 125 | 309.0 | 96 | 8857 | 92 | 1.27 | 52.47 | 93 | 1500 | 89 | 16.72 | 28.72 | 332 | 1673 | 419 | 0 | 78.9 | 6.7 |
| Hilleshög 4094RR | 117 | 317.0 | 99 | 9196 | 96 | 1.24 | 55.03 | 98 | 1597 | 95 | 17.08 | 29.10 | 265 | 1648 | 423 | 0 | 76.8 | 8.2 |
| Hilleshög 4300RR | 105 | 311.7 | 97 | 8850 | 92 | 1.19 | 53.33 | 95 | 1510 | 90 | 16.77 | 28.45 | 352 | 1607 | 364 | 0 | 54.2 | 5.9 |
| Hilleshög 4302RR | 132 | 324.4 | 101 | 9778 | 102 | 1.08 | 57.37 | 102 | 1731 | 103 | 17.30 | 30.09 | 268 | 1540 | 332 | 0 | 67.6 | 6.8 |
| Hilleshög 4303RR | 118 | 334.7 | 104 | 9422 | 98 | 1.08 | 60.68 | 108 | 1707 | 101 | 17.82 | 28.01 | 246 | 1530 | 338 | 0 | 63.1 | 5.9 |
| Hilleshög 4448RR(9448) | 110 | 327.2 | 102 | 10538 | 110 | 1.10 | 58.29 | 104 | 1876 | 111 | 17.46 | 32.10 | 237 | 1409 | 389 | 0 | 66.8 | 4.6 |
| Maribo MA104RR | 124 | 324.4 | 101 | 8870 | 92 | 1.13 | 57.38 | 102 | 1570 | 93 | 17.34 | 27.31 | 282 | 1488 | 375 | 0 | 79.4 | 8.8 |
| Seedex Victor RR | 112 | 320.7 | 100 | 9627 | 100 | 1.00 | 56.19 | 100 | 1690 | 100 | 17.04 | 30.03 | 239 | 1405 | 320 | 0 | 80.4 | 6.5 |
| Seedex Vision RR | 133 | 326.0 | 102 | 9737 | 101 | 0.95 | 57.90 | 103 | 1731 | 103 | 17.25 | 29.90 | 213 | 1325 | 309 | 0 | 74.1 | 6.7 |
| Seedex Xavier RR | 130 | 325.6 | 101 | 9330 | 97 | 1.02 | 57.78 | 103 | 1655 | 98 | 17.31 | 28.75 | 226 | 1380 | 346 | 0 | 70.3 | 8.6 |
| Seedex Yukon RR(828N) | 129 | 309.7 | 97 | 9450 | 98 | 1.15 | 52.69 | 94 | 1606 | 95 | 16.64 | 30.71 | 263 | 1499 | 399 | 0 | 74.5 | 6.9 |
| Seedex Zenith RR(829N) | 116 | 307.7 | 96 | 8772 | 91 | 1.11 | 52.07 | 93 | 1486 | 88 | 16.49 | 28.44 | 252 | 1508 | 369 | 32 | 77.2 | 8.5 |
| SV 36175RR | 128 | 312.6 | 97 | 9218 | 96 | 1.09 | 53.61 | 95 | 1582 | 94 | 16.73 | 29.45 | 284 | 1388 | 372 | 0 | 77.8 | 7.0 |
| SV 36271RR | 126 | 302.0 | 94 | 8041 | 84 | 1.10 | 50.23 | 89 | 1339 | 80 | 16.20 | 26.58 | 255 | 1547 | 347 | 0 | 74.8 | 10.7 |
| SV 36272RR | 131 | 329.4 | 103 | 9314 | 97 | 0.95 | 59.00 | 105 | 1672 | 99 | 17.44 | 28.25 | 182 | 1409 | 304 | 0 | 74.6 | 7.1 |
| SV 36273RR | 119 | 328.4 | 102 | 10444 | 109 | 0.99 | 58.65 | 104 | 1868 | 111 | 17.41 | 31.81 | 217 | 1416 | 314 | 0 | 74.9 | 4.8 |
| SV 36918RR | 123 | 321.0 | 100 | 8710 | 91 | 1.04 | 56.29 | 100 | 1527 | 91 | 17.07 | 27.22 | 218 | 1516 | 319 | 0 | 60.0 | 8.5 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 330.6 | 103 | 8965 | 93 | 1.10 | 59.26 | 105 | 1604 | 95 | 17.64 | 27.08 | 236 | 1424 | 390 | 0 | 81.0 | 4.0 |
| BTS 8354 | 241 | 317.0 | 99 | 8940 | 93 | 1.22 | 55.07 | 98 | 1550 | 92 | 17.08 | 28.42 | 277 | 1562 | 428 | 0 | 71.7 | 4.6 |
| BTS 8363 | 233 | 319.5 | 100 | 10424 | 109 | 1.09 | 55.85 | 99 | 1818 | 108 | 17.08 | 32.56 | 213 | 1458 | 377 | 95 | 78.8 | 3.0 |
| BTS 8390 | 208 | 293.0 | 91 | 9707 | 101 | 1.24 | 47.60 | 85 | 1579 | 94 | 15.88 | 33.12 | 365 | 1611 | 384 | 0 | 80.0 | 4.6 |
| BTS 83CN | 223 | 322.0 | 100 | 9424 | 98 | 0.99 | 56.58 | 101 | 1648 | 98 | 17.11 | 29.45 | 201 | 1437 | 311 | 0 | 82.5 | 3.0 |
| Crystal 355RR | 234 | 324.2 | 101 | 9334 | 97 | 1.23 | 57.28 | 102 | 1649 | 98 | 17.43 | 28.77 | 232 | 1543 | 457 | 0 | 80.6 | 4.6 |
| Hilleshög 9517RR | 247 | 323.8 | 101 | 8481 | 88 | 1.26 | 57.17 | 102 | 1500 | 89 | 17.45 | 26.11 | 315 | 1613 | 422 | 0 | 70.7 | 4.7 |
| Hilleshög 9528RR | 237 | 331.6 | 103 | 9900 | 103 | 1.05 | 59.61 | 106 | 1774 | 105 | 17.63 | 30.07 | 191 | 1407 | 367 | 0 | 75.4 | 3.9 |
| Maribo MA102RR | 216 | 328.9 | 103 | 10652 | 111 | 1.00 | 58.76 | 104 | 1892 | 112 | 17.47 | 32.77 | 177 | 1367 | 347 | 0 | 78.4 | 3.4 |
| Maribo 305 | 232 | 314.8 | 98 | 10114 | 105 | 1.09 | 54.36 | 97 | 1749 | 104 | 16.83 | 31.96 | 204 | 1346 | 410 | 0 | 84.1 | 3.2 |
| Seedex RR0832 | 227 | 316.6 | 99 | 9157 | 95 | 1.09 | 54.92 | 98 | 1594 | 95 | 16.92 | 28.83 | 245 | 1517 | 344 | 0 | 81.7 | 3.1 |
| SV RR333 | 212 | 312.0 | 97 | 8957 | 93 | 1.15 | 53.51 | 95 | 1539 | 91 | 16.75 | 28.71 | 218 | 1504 | 408 | 0 | 73.4 | 4.0 |
| SV RR336 | 226 | 314.6 | 98 | 9588 | 100 | 1.10 | 54.31 | 97 | 1650 | 98 | 16.84 | 30.66 | 226 | 1374 | 409 | 0 | 70.1 | 4.7 |
| Trial Mean | | 320.8 | | 9598 | | 1.11 | 56.23 | | 1683 | | 17.15 | 29.92 | 260 | 1512 | 364 | | 75.3 | 7.1 |
| Coeff. of Var. (%) | | 3.0 | | 5.7 | | 6.9 | 5.4 | | 7.4 | | 2.5 | 4.8 | 17.6 | 5.0 | 12.2 | | 8.3 | 40.4 |
| Mean LSD (0.05) | | 11.8 | | 654 | | 0.10 | 3.78 | | 150 | | 0.53 | 1.66 | 59 | 98 | 57 | | 7.4 | 3.4 |
| Mean LSD (0.01) | | 15.6 | | 863 | | 0.13 | 4.98 | | 199 | | 0.70 | 2.19 | 78 | 129 | 75 | | 9.8 | 4.4 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ns |

* 2014 Data from Crookston MN  Analyzed 10/22/2014 08:26  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148305

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 12.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

Grand Forks ND - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 295.9 | 97 | 7022 | 107 | 1.12 | 48.30 | 95 | 1143 | 104 | 15.93 | 23.64 | 375 | 1529 | 325 | 0 | 81.0 | 4.4 |
| BTS 80RR52 | 107 | 316.0 | 104 | 7397 | 112 | 1.03 | 54.70 | 107 | 1282 | 116 | 16.84 | 23.31 | 263 | 1538 | 296 | 0 | 78.8 | 5.1 |
| BTS 81RR17 | 101 | 304.5 | 100 | 7222 | 110 | 1.12 | 51.04 | 100 | 1209 | 110 | 16.34 | 23.69 | 301 | 1625 | 320 | 0 | 86.7 | 4.0 |
| BTS 82RR22 | 135 | 317.3 | 104 | 6894 | 105 | 1.10 | 55.13 | 108 | 1196 | 108 | 16.96 | 21.67 | 328 | 1475 | 335 | 0 | 77.5 | 4.6 |
| BTS 82RR28 | 106 | 307.0 | 101 | 7469 | 113 | 1.08 | 51.84 | 102 | 1260 | 114 | 16.43 | 24.42 | 306 | 1585 | 306 | 0 | 85.3 | 3.6 |
| BTS 82RR33 | 109 | 300.7 | 99 | 7695 | 117 | 1.03 | 49.84 | 98 | 1281 | 116 | 16.07 | 25.51 | 341 | 1484 | 273 | 0 | 83.0 | 3.5 |
| BTS 82RR80 | 114 | 298.6 | 98 | 6203 | 94 | 1.14 | 49.16 | 96 | 1011 | 92 | 16.05 | 21.05 | 309 | 1577 | 352 | 0 | 82.3 | 5.0 |
| BTS 89RR83 | 121 | 295.1 | 97 | 7694 | 117 | 1.04 | 48.05 | 94 | 1256 | 114 | 15.80 | 25.94 | 314 | 1503 | 288 | 0 | 81.4 | 2.6 |
| Crystal 093RR | 104 | 317.4 | 104 | 7139 | 108 | 1.06 | 55.17 | 108 | 1244 | 113 | 16.93 | 22.37 | 258 | 1505 | 321 | 32 | 80.9 | 4.5 |
| Crystal 095RR | 134 | 304.7 | 100 | 6613 | 100 | 1.08 | 51.10 | 100 | 1103 | 100 | 16.31 | 21.85 | 317 | 1570 | 307 | 0 | 78.6 | 4.2 |
| Crystal 101RR | 122 | 299.2 | 98 | 7155 | 109 | 1.19 | 49.34 | 97 | 1184 | 107 | 16.14 | 23.98 | 364 | 1702 | 333 | 0 | 79.1 | 3.8 |
| Crystal 246RR | 136 | 311.5 | 102 | 6901 | 105 | 1.00 | 53.28 | 105 | 1182 | 107 | 16.58 | 22.08 | 257 | 1490 | 285 | 63 | 82.2 | 4.8 |
| Crystal 247RR | 120 | 307.0 | 101 | 8222 | 125 | 1.02 | 51.84 | 102 | 1393 | 126 | 16.37 | 26.68 | 291 | 1561 | 265 | 0 | 77.1 | 3.6 |
| Crystal 765RR | 108 | 316.8 | 104 | 6922 | 105 | 1.08 | 54.96 | 108 | 1202 | 109 | 16.92 | 21.88 | 391 | 1461 | 302 | 0 | 81.7 | 3.8 |
| Crystal 768RR | 102 | 305.2 | 100 | 6584 | 100 | 1.14 | 51.27 | 101 | 1104 | 100 | 16.39 | 21.73 | 359 | 1647 | 317 | 0 | 75.3 | 5.3 |
| Crystal 875RR | 103 | 301.3 | 99 | 6466 | 98 | 1.16 | 50.02 | 98 | 1076 | 97 | 16.22 | 21.58 | 378 | 1601 | 334 | 0 | 78.9 | 5.3 |
| Crystal 981RR | 113 | 297.9 | 98 | 6369 | 97 | 1.14 | 48.93 | 96 | 1045 | 95 | 16.04 | 21.51 | 385 | 1662 | 298 | 0 | 80.6 | 4.4 |
| Crystal 985RR | 127 | 303.5 | 100 | 6123 | 93 | 1.14 | 50.73 | 100 | 1022 | 93 | 16.30 | 20.16 | 356 | 1565 | 342 | 0 | 82.4 | 4.1 |
| Crystal 986RR | 115 | 303.0 | 100 | 7282 | 110 | 1.05 | 50.56 | 99 | 1215 | 110 | 16.20 | 23.98 | 353 | 1459 | 297 | 0 | 85.1 | 5.5 |
| Hilleshög 4022RR | 125 | 300.9 | 99 | 5156 | 78 | 1.19 | 49.91 | 98 | 854 | 77 | 16.23 | 17.10 | 356 | 1631 | 358 | 0 | 83.2 | 3.4 |
| Hilleshög 4094RR | 117 | 303.1 | 100 | 5807 | 88 | 1.17 | 50.61 | 99 | 963 | 87 | 16.34 | 19.09 | 341 | 1607 | 360 | 0 | 84.8 | 3.3 |
| Hilleshög 4300RR | 105 | 293.3 | 96 | 6432 | 98 | 1.21 | 47.46 | 93 | 1037 | 94 | 15.87 | 21.98 | 402 | 1664 | 350 | 0 | 65.1 | 4.1 |
| Hilleshög 4302RR | 132 | 314.1 | 103 | 6284 | 95 | 1.03 | 54.11 | 106 | 1084 | 98 | 16.72 | 19.97 | 295 | 1463 | 296 | 0 | 82.2 | 3.4 |
| Hilleshög 4303RR | 118 | 309.0 | 102 | 6076 | 92 | 1.00 | 52.47 | 103 | 1033 | 94 | 16.46 | 19.51 | 306 | 1455 | 277 | 0 | 83.8 | 3.6 |
| Hilleshög 4448RR(9448) | 110 | 319.3 | 105 | 8295 | 126 | 0.93 | 55.76 | 109 | 1442 | 131 | 16.89 | 26.15 | 250 | 1375 | 271 | 0 | 78.0 | 2.4 |
| Maribo MA104RR | 124 | 320.9 | 105 | 5591 | 85 | 1.02 | 56.27 | 110 | 977 | 88 | 17.05 | 17.47 | 288 | 1452 | 297 | 0 | 80.2 | 4.5 |
| Seedex Victor RR | 112 | 286.7 | 94 | 6385 | 97 | 1.07 | 45.35 | 89 | 1011 | 92 | 15.41 | 22.20 | 323 | 1567 | 292 | 0 | 78.8 | 4.4 |
| Seedex Vision RR | 133 | 296.2 | 97 | 5899 | 89 | 1.03 | 48.39 | 95 | 961 | 87 | 15.84 | 20.05 | 323 | 1493 | 283 | 0 | 78.4 | 4.8 |
| Seedex Xavier RR | 130 | 314.3 | 103 | 7002 | 106 | 1.03 | 54.15 | 106 | 1212 | 110 | 16.75 | 22.17 | 283 | 1492 | 294 | 0 | 79.6 | 5.5 |
| Seedex Yukon RR(828N) | 129 | 302.2 | 99 | 5794 | 88 | 1.03 | 50.31 | 99 | 964 | 87 | 16.15 | 19.18 | 306 | 1423 | 306 | 0 | 84.7 | 4.5 |
| Seedex Zenith RR(829N) | 116 | 299.5 | 98 | 5368 | 81 | 1.07 | 49.46 | 97 | 886 | 80 | 16.05 | 18.03 | 303 | 1468 | 323 | 0 | 80.5 | 7.2 |
| SV 36175RR | 128 | 296.5 | 97 | 6023 | 91 | 1.07 | 48.50 | 95 | 982 | 89 | 15.90 | 20.45 | 314 | 1512 | 312 | 0 | 86.5 | 5.2 |
| SV 36271RR | 126 | 294.9 | 97 | 5657 | 86 | 1.11 | 47.97 | 94 | 911 | 83 | 15.83 | 19.43 | 256 | 1645 | 335 | 0 | 79.1 | 6.5 |
| SV 36272RR | 131 | 311.9 | 102 | 5517 | 84 | 0.91 | 53.40 | 105 | 940 | 85 | 16.49 | 17.88 | 218 | 1417 | 259 | 0 | 85.8 | 5.2 |
| SV 36273RR | 119 | 298.0 | 98 | 6768 | 103 | 1.02 | 48.98 | 96 | 1121 | 102 | 15.94 | 22.59 | 330 | 1432 | 286 | 0 | 74.0 | 4.0 |
| SV 36918RR | 123 | 290.4 | 95 | 5915 | 90 | 1.16 | 46.55 | 91 | 943 | 85 | 15.68 | 20.31 | 363 | 1609 | 344 | 0 | 72.7 | 5.1 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 325.5 | 107 | 5784 | 88 | 0.95 | 57.66 | 113 | 1029 | 93 | 17.22 | 17.71 | 283 | 1435 | 245 | 0 | 77.2 | 5.4 |
| BTS 8354 | 241 | 314.5 | 103 | 6298 | 96 | 1.09 | 54.21 | 106 | 1086 | 98 | 16.81 | 20.01 | 286 | 1652 | 292 | 0 | 79.0 | 4.5 |
| BTS 8363 | 233 | 304.3 | 100 | 6615 | 100 | 1.01 | 50.98 | 100 | 1114 | 101 | 16.21 | 21.60 | 279 | 1570 | 258 | 95 | 84.4 | 3.4 |
| BTS 8390 | 208 | 305.6 | 100 | 7458 | 113 | 1.03 | 51.36 | 101 | 1254 | 114 | 16.31 | 24.43 | 349 | 1576 | 254 | 0 | 81.7 | 3.5 |
| BTS 83CN | 223 | 308.3 | 101 | 7046 | 107 | 0.99 | 52.24 | 102 | 1196 | 108 | 16.40 | 22.81 | 296 | 1495 | 255 | 0 | 76.2 | 3.1 |
| Crystal 355RR | 234 | 317.3 | 104 | 6414 | 97 | 1.05 | 55.07 | 108 | 1118 | 101 | 16.91 | 20.11 | 322 | 1587 | 273 | 0 | 79.2 | 3.9 |
| Hilleshög 9517RR | 247 | 317.5 | 104 | 5416 | 82 | 1.10 | 55.14 | 108 | 942 | 85 | 16.97 | 17.02 | 372 | 1569 | 295 | 0 | 70.6 | 4.6 |
| Hilleshög 9528RR | 237 | 323.2 | 106 | 6959 | 106 | 0.87 | 56.94 | 112 | 1232 | 112 | 17.02 | 21.39 | 243 | 1364 | 221 | 0 | 89.9 | 3.9 |
| Maribo MA102RR | 216 | 324.4 | 107 | 7435 | 113 | 0.88 | 57.30 | 112 | 1315 | 119 | 17.09 | 22.88 | 227 | 1364 | 231 | 0 | 83.4 | 2.2 |
| Maribo 305 | 232 | 313.3 | 103 | 6568 | 100 | 0.84 | 53.84 | 106 | 1130 | 102 | 16.51 | 20.92 | 245 | 1284 | 221 | 0 | 89.6 | 2.7 |
| Seedex RR0832 | 227 | 320.6 | 105 | 7181 | 109 | 0.97 | 56.11 | 110 | 1259 | 114 | 16.99 | 22.34 | 248 | 1516 | 250 | 0 | 82.9 | 5.2 |
| SV RR333 | 212 | 316.1 | 104 | 6190 | 94 | 0.91 | 54.69 | 107 | 1076 | 97 | 16.70 | 19.42 | 252 | 1406 | 236 | 0 | 80.2 | 5.0 |
| SV RR336 | 226 | 313.4 | 103 | 6776 | 103 | 0.91 | 53.85 | 106 | 1166 | 106 | 16.58 | 21.57 | 240 | 1402 | 241 | 0 | 86.1 | 3.4 |
| Trial Mean | | 304.3 | | 6593 | | 1.08 | 50.97 | | 1104 | | 16.29 | 21.68 | 319 | 1535 | 309 | | 80.4 | 4.4 |
| Coeff. of Var. (%) | | 3.2 | | 7.3 | | 6.8 | 6.0 | | 9.3 | | 2.8 | 6.0 | 18.3 | 6.1 | 11.0 | | 8.6 | 29.5 |
| Mean LSD (0.05) | | 13.0 | | 624 | | 0.10 | 4.16 | | 134 | | 0.60 | 1.73 | 79 | 124 | 47 | | 8.4 | 1.5 |
| Mean LSD (0.01) | | 17.2 | | 824 | | 0.13 | 5.49 | | 177 | | 0.80 | 2.28 | 104 | 164 | 62 | | 11.1 | 2.0 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Grand Forks ND  Analyzed 10/22/2014 09:54  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148307

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 13.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials
Alvarado MN - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 341.7 | 101 | 9953 | 108 | 0.86 | 62.90 | 101 | 1838 | 109 | 17.95 | 29.07 | 195 | 1256 | 263 | 0 | 77.5 | 5.3 |
| BTS 80RR52 | 107 | 335.7 | 99 | 9162 | 99 | 1.05 | 60.98 | 98 | 1663 | 99 | 17.84 | 27.35 | 209 | 1375 | 371 | 0 | 76.9 | 5.0 |
| BTS 81RR17 | 101 | 342.9 | 101 | 8759 | 95 | 1.03 | 63.29 | 102 | 1617 | 96 | 18.19 | 25.59 | 193 | 1478 | 336 | 0 | 76.8 | 6.4 |
| BTS 82RR22 | 135 | 351.4 | 103 | 8868 | 96 | 1.03 | 66.01 | 106 | 1664 | 99 | 18.59 | 25.25 | 198 | 1377 | 354 | 32 | 77.7 | 4.7 |
| BTS 82RR28 | 106 | 334.1 | 98 | 9522 | 103 | 1.01 | 60.47 | 97 | 1725 | 102 | 17.70 | 28.42 | 209 | 1420 | 324 | 0 | 80.0 | 4.2 |
| BTS 82RR33 | 109 | 333.1 | 98 | 10423 | 113 | 0.92 | 60.16 | 97 | 1892 | 112 | 17.56 | 31.04 | 238 | 1282 | 285 | 0 | 77.2 | 5.3 |
| BTS 82RR80 | 114 | 350.9 | 103 | 9361 | 102 | 0.91 | 65.85 | 106 | 1750 | 104 | 18.45 | 26.70 | 158 | 1304 | 300 | 0 | 74.8 | 6.7 |
| BTS 89RR83 | 121 | 336.9 | 99 | 9995 | 109 | 0.88 | 61.39 | 99 | 1826 | 108 | 17.73 | 29.57 | 177 | 1334 | 263 | 0 | 76.2 | 3.2 |
| Crystal 093RR | 104 | 339.9 | 100 | 9051 | 98 | 1.01 | 62.33 | 100 | 1657 | 98 | 18.00 | 26.56 | 197 | 1377 | 342 | 32 | 80.7 | 3.4 |
| Crystal 095RR | 134 | 346.8 | 102 | 9456 | 103 | 0.92 | 64.53 | 104 | 1756 | 104 | 18.26 | 27.28 | 180 | 1345 | 292 | 0 | 76.2 | 4.5 |
| Crystal 101RR | 122 | 339.1 | 100 | 9671 | 105 | 1.00 | 62.07 | 100 | 1773 | 105 | 17.94 | 28.38 | 210 | 1528 | 290 | 0 | 81.5 | 4.5 |
| Crystal 246RR | 136 | 333.8 | 98 | 9777 | 106 | 0.93 | 60.38 | 97 | 1773 | 105 | 17.63 | 29.23 | 228 | 1321 | 290 | 32 | 79.2 | 5.3 |
| Crystal 247RR | 120 | 340.4 | 100 | 10393 | 113 | 0.85 | 62.47 | 100 | 1900 | 113 | 17.89 | 30.79 | 186 | 1306 | 252 | 0 | 72.7 | 4.8 |
| Crystal 765RR | 108 | 350.9 | 103 | 9422 | 102 | 0.93 | 65.85 | 106 | 1764 | 105 | 18.48 | 26.89 | 233 | 1284 | 296 | 0 | 77.6 | 5.9 |
| Crystal 768RR | 102 | 336.0 | 99 | 8601 | 93 | 1.03 | 61.10 | 98 | 1567 | 93 | 17.82 | 25.59 | 246 | 1407 | 336 | 0 | 75.6 | 6.4 |
| Crystal 875RR | 103 | 333.3 | 98 | 8900 | 97 | 1.09 | 60.24 | 97 | 1612 | 95 | 17.75 | 26.59 | 248 | 1451 | 368 | 0 | 76.1 | 5.8 |
| Crystal 981RR | 113 | 338.2 | 100 | 9385 | 102 | 1.02 | 61.78 | 99 | 1713 | 101 | 17.92 | 27.87 | 263 | 1515 | 288 | 0 | 80.1 | 6.2 |
| Crystal 985RR | 127 | 337.1 | 99 | 8254 | 90 | 0.97 | 61.42 | 99 | 1508 | 89 | 17.82 | 24.47 | 213 | 1335 | 312 | 0 | 82.8 | 4.4 |
| Crystal 986RR | 115 | 348.9 | 103 | 9549 | 104 | 0.84 | 65.20 | 105 | 1781 | 106 | 18.28 | 27.41 | 185 | 1202 | 263 | 0 | 81.7 | 5.7 |
| Hilleshög 4022RR | 125 | 326.9 | 96 | 8491 | 92 | 1.14 | 58.19 | 93 | 1509 | 89 | 17.49 | 26.19 | 278 | 1414 | 408 | 0 | 74.0 | 5.6 |
| Hilleshög 4094RR | 117 | 333.5 | 98 | 8978 | 97 | 1.04 | 60.29 | 97 | 1624 | 96 | 17.71 | 26.88 | 221 | 1439 | 344 | 0 | 74.7 | 4.7 |
| Hilleshög 4300RR | 105 | 334.1 | 98 | 8718 | 95 | 0.92 | 60.48 | 97 | 1578 | 93 | 17.62 | 26.03 | 218 | 1326 | 277 | 0 | 67.2 | 5.9 |
| Hilleshög 4302RR | 132 | 339.6 | 100 | 9452 | 103 | 0.92 | 62.25 | 100 | 1733 | 103 | 17.90 | 27.77 | 224 | 1314 | 278 | 0 | 75.8 | 3.5 |
| Hilleshög 4303RR | 118 | 350.4 | 103 | 9583 | 104 | 0.93 | 65.67 | 105 | 1793 | 106 | 18.46 | 27.42 | 202 | 1338 | 296 | 0 | 75.0 | 5.1 |
| Hilleshög 4448RR(9448) | 110 | 351.1 | 103 | 10569 | 115 | 0.85 | 65.91 | 106 | 1981 | 117 | 18.40 | 30.10 | 158 | 1191 | 279 | 0 | 73.8 | 2.9 |
| Maribo MA104RR | 124 | 352.2 | 104 | 8007 | 87 | 0.94 | 66.25 | 106 | 1504 | 89 | 18.55 | 22.73 | 213 | 1306 | 303 | 0 | 75.1 | 4.8 |
| Seedex Victor RR | 112 | 330.4 | 97 | 9225 | 100 | 0.88 | 59.29 | 95 | 1661 | 98 | 17.40 | 27.81 | 194 | 1290 | 269 | 0 | 79.5 | 4.5 |
| Seedex Vision RR | 133 | 345.5 | 102 | 9738 | 106 | 0.88 | 64.10 | 103 | 1808 | 107 | 18.16 | 28.21 | 176 | 1225 | 291 | 0 | 76.8 | 4.9 |
| Seedex Xavier RR | 130 | 344.2 | 101 | 9543 | 104 | 0.83 | 63.70 | 102 | 1764 | 105 | 18.03 | 27.69 | 174 | 1230 | 252 | 0 | 73.5 | 5.8 |
| Seedex Yukon RR(828N) | 129 | 330.6 | 97 | 8540 | 93 | 0.93 | 59.37 | 95 | 1533 | 91 | 17.48 | 25.89 | 195 | 1301 | 309 | 0 | 78.5 | 4.9 |
| Seedex Zenith RR(829N) | 116 | 327.1 | 96 | 8229 | 89 | 0.97 | 58.26 | 94 | 1467 | 87 | 17.31 | 25.13 | 184 | 1312 | 329 | 0 | 77.2 | 7.2 |
| SV 36175RR | 128 | 338.5 | 100 | 8541 | 93 | 0.89 | 61.89 | 99 | 1560 | 92 | 17.84 | 25.43 | 163 | 1310 | 281 | 0 | 77.6 | 5.9 |
| SV 36271RR | 126 | 317.0 | 93 | 8032 | 87 | 1.00 | 55.04 | 88 | 1394 | 83 | 16.84 | 25.35 | 209 | 1371 | 329 | 0 | 82.9 | 5.9 |
| SV 36272RR | 131 | 351.5 | 103 | 8833 | 96 | 0.88 | 66.03 | 106 | 1659 | 98 | 18.44 | 25.14 | 131 | 1357 | 273 | 0 | 78.2 | 5.8 |
| SV 36273RR | 119 | 336.2 | 99 | 9683 | 105 | 0.87 | 61.15 | 98 | 1754 | 104 | 17.68 | 28.88 | 169 | 1294 | 271 | 0 | 71.7 | 4.0 |
| SV 36918RR | 123 | 348.0 | 102 | 8913 | 97 | 0.83 | 64.91 | 104 | 1661 | 98 | 18.25 | 25.68 | 151 | 1301 | 248 | 0 | 67.1 | 5.3 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 356.0 | 105 | 8885 | 96 | 0.93 | 67.45 | 108 | 1683 | 100 | 18.74 | 25.00 | 161 | 1365 | 288 | 0 | 71.8 | 4.6 |
| BTS 8354 | 241 | 340.8 | 100 | 8578 | 93 | 1.06 | 62.64 | 101 | 1577 | 93 | 18.10 | 25.14 | 180 | 1456 | 368 | 0 | 71.2 | 2.8 |
| BTS 8363 | 233 | 338.1 | 100 | 10198 | 111 | 0.91 | 61.74 | 99 | 1862 | 110 | 17.82 | 30.29 | 179 | 1255 | 299 | 95 | 75.9 | 4.3 |
| BTS 8390 | 208 | 333.5 | 98 | 9875 | 107 | 0.95 | 60.32 | 97 | 1786 | 106 | 17.65 | 29.53 | 220 | 1388 | 287 | 0 | 73.6 | 4.2 |
| BTS 83CN | 223 | 338.4 | 100 | 8824 | 96 | 0.86 | 61.84 | 99 | 1613 | 96 | 17.77 | 26.10 | 177 | 1270 | 254 | 0 | 71.5 | 2.3 |
| Crystal 355RR | 234 | 345.7 | 102 | 8701 | 94 | 1.02 | 64.17 | 103 | 1615 | 96 | 18.31 | 25.16 | 177 | 1452 | 340 | 0 | 73.3 | 4.6 |
| Hilleshög 9517RR | 247 | 351.9 | 104 | 8412 | 91 | 0.95 | 66.14 | 106 | 1582 | 94 | 18.56 | 23.83 | 235 | 1365 | 292 | 0 | 72.7 | 3.6 |
| Hilleshög 9528RR | 237 | 350.4 | 103 | 10318 | 112 | 0.89 | 65.66 | 105 | 1934 | 115 | 18.41 | 29.45 | 176 | 1301 | 270 | 0 | 72.2 | 3.0 |
| Maribo MA102RR | 216 | 349.3 | 103 | 10429 | 113 | 0.85 | 65.29 | 105 | 1950 | 116 | 18.31 | 29.80 | 172 | 1156 | 284 | 0 | 67.9 | 2.6 |
| Maribo 305 | 232 | 341.0 | 100 | 9959 | 108 | 0.81 | 62.70 | 101 | 1831 | 108 | 17.87 | 29.24 | 169 | 1112 | 268 | 0 | 80.0 | 2.4 |
| Seedex RR0832 | 227 | 345.5 | 102 | 9309 | 101 | 0.90 | 64.10 | 103 | 1728 | 102 | 18.20 | 26.94 | 186 | 1359 | 265 | 0 | 72.0 | 3.1 |
| SV RR333 | 212 | 343.3 | 101 | 9523 | 103 | 0.90 | 63.42 | 102 | 1759 | 104 | 18.07 | 27.75 | 161 | 1266 | 300 | 0 | 73.9 | 4.4 |
| SV RR336 | 226 | 339.4 | 100 | 9288 | 101 | 0.89 | 62.18 | 100 | 1702 | 101 | 17.87 | 27.31 | 156 | 1212 | 310 | 0 | 72.9 | 3.9 |
| Trial Mean | | 339.7 | | 9210 | | 0.94 | 62.26 | | 1688 | | 17.93 | 27.12 | 201 | 1339 | 302 | | 76.7 | 5.1 |
| Coeff. of Var. (%) | | 2.9 | | 4.9 | | 7.8 | 5.1 | | 6.4 | | 2.5 | 4.2 | 18.3 | 4.1 | 15.1 | | 7.1 | 39.3 |
| Mean LSD (0.05) | | 12.9 | | 553 | | 0.09 | 4.10 | | 134 | | 0.59 | 1.38 | 45 | 74 | 56 | | 6.8 | 2.4 |
| Mean LSD (0.01) | | 17.0 | | 730 | | 0.12 | 5.41 | | 177 | | 0.78 | 1.83 | 59 | 97 | 74 | | 8.9 | 3.1 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ns |

* 2014 Data from Alvarado MN  Analyzed 10/22/2014 10:00  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148308

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 14.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

St Thomas ND - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 279.6 | 95 | 6384 | 106 | 0.99 | 43.10 | 90 | 985 | 100 | 14.97 | 22.81 | 376 | 1264 | 292 | 0 | 78.7 | 6.2 |
| BTS 80RR52 | 107 | 300.3 | 102 | 6378 | 105 | 0.99 | 49.71 | 103 | 1056 | 107 | 16.00 | 21.23 | 295 | 1287 | 315 | 0 | 73.8 | 8.5 |
| BTS 81RR17 | 101 | 302.9 | 103 | 6100 | 101 | 1.06 | 50.53 | 105 | 1018 | 103 | 16.20 | 20.15 | 320 | 1377 | 334 | 0 | 75.6 | 8.5 |
| BTS 82RR22 | 135 | 310.3 | 105 | 5985 | 99 | 0.95 | 52.90 | 110 | 1020 | 104 | 16.46 | 19.25 | 313 | 1286 | 277 | 0 | 73.1 | 5.9 |
| BTS 82RR28 | 106 | 299.9 | 102 | 6477 | 107 | 0.98 | 49.57 | 103 | 1077 | 109 | 15.98 | 21.45 | 311 | 1396 | 275 | 63 | 79.3 | 6.0 |
| BTS 82RR33 | 109 | 296.6 | 100 | 6691 | 111 | 0.95 | 48.51 | 101 | 1091 | 111 | 15.77 | 22.65 | 400 | 1208 | 265 | 0 | 76.6 | 9.3 |
| BTS 82RR80 | 114 | 310.2 | 105 | 6175 | 102 | 0.97 | 52.87 | 110 | 1058 | 107 | 16.48 | 19.84 | 298 | 1299 | 299 | 0 | 80.0 | 10.2 |
| BTS 89RR83 | 121 | 285.0 | 97 | 6319 | 104 | 0.91 | 44.83 | 93 | 997 | 101 | 15.16 | 22.11 | 319 | 1245 | 256 | 0 | 77.4 | 7.7 |
| Crystal 093RR | 104 | 306.5 | 104 | 6557 | 108 | 1.02 | 51.68 | 107 | 1106 | 112 | 16.34 | 21.38 | 280 | 1338 | 325 | 0 | 79.3 | 8.4 |
| Crystal 095RR | 134 | 296.3 | 100 | 6223 | 103 | 1.00 | 48.41 | 101 | 1014 | 103 | 15.82 | 21.02 | 363 | 1307 | 300 | 0 | 73.9 | 8.0 |
| Crystal 101RR | 122 | 294.9 | 100 | 6891 | 114 | 1.06 | 48.00 | 100 | 1123 | 114 | 15.81 | 23.30 | 394 | 1425 | 302 | 0 | 76.3 | 6.0 |
| Crystal 246RR | 136 | 296.9 | 101 | 6334 | 105 | 0.90 | 48.63 | 101 | 1038 | 105 | 15.75 | 21.43 | 314 | 1252 | 252 | 0 | 77.0 | 8.6 |
| Crystal 247RR | 120 | 288.3 | 98 | 6647 | 110 | 0.97 | 45.88 | 95 | 1054 | 107 | 15.38 | 23.17 | 392 | 1273 | 266 | 0 | 68.8 | 6.7 |
| Crystal 765RR | 108 | 303.6 | 103 | 6458 | 107 | 1.01 | 50.75 | 106 | 1083 | 110 | 16.19 | 21.18 | 437 | 1211 | 298 | 0 | 76.8 | 9.1 |
| Crystal 768RR | 102 | 297.0 | 101 | 6513 | 108 | 1.04 | 48.64 | 101 | 1068 | 108 | 15.89 | 21.95 | 363 | 1324 | 322 | 0 | 69.6 | 8.9 |
| Crystal 875RR | 103 | 288.8 | 98 | 5867 | 97 | 1.04 | 46.05 | 96 | 932 | 95 | 15.48 | 20.39 | 425 | 1234 | 319 | 0 | 72.1 | 10.7 |
| Crystal 981RR | 113 | 292.6 | 99 | 6443 | 107 | 1.05 | 47.25 | 98 | 1041 | 106 | 15.68 | 21.99 | 433 | 1291 | 309 | 0 | 73.8 | 9.2 |
| Crystal 985RR | 127 | 292.0 | 99 | 5668 | 94 | 1.04 | 47.06 | 98 | 915 | 93 | 15.64 | 19.39 | 369 | 1318 | 318 | 0 | 78.7 | 8.3 |
| Crystal 986RR | 115 | 298.0 | 101 | 6558 | 108 | 1.00 | 48.97 | 102 | 1075 | 109 | 15.90 | 22.09 | 421 | 1184 | 307 | 0 | 77.5 | 8.6 |
| Hilleshög 4022RR | 125 | 289.7 | 98 | 5522 | 91 | 1.05 | 46.33 | 96 | 886 | 90 | 15.54 | 18.94 | 373 | 1306 | 332 | 0 | 80.0 | 7.6 |
| Hilleshög 4094RR | 117 | 294.4 | 100 | 5320 | 88 | 1.05 | 47.81 | 99 | 862 | 88 | 15.77 | 18.13 | 334 | 1316 | 343 | 0 | 75.2 | 9.4 |
| Hilleshög 4300RR | 105 | 294.8 | 100 | 5921 | 98 | 1.01 | 47.96 | 100 | 961 | 98 | 15.76 | 20.11 | 387 | 1285 | 303 | 0 | 65.6 | 9.8 |
| Hilleshög 4302RR | 132 | 293.3 | 99 | 5630 | 93 | 0.94 | 47.47 | 99 | 908 | 92 | 15.61 | 19.29 | 353 | 1229 | 273 | 0 | 80.3 | 7.9 |
| Hilleshög 4303RR | 118 | 304.6 | 103 | 6004 | 99 | 1.03 | 51.07 | 106 | 1005 | 102 | 16.27 | 19.71 | 308 | 1343 | 331 | 0 | 67.0 | 7.7 |
| Hilleshög 4448RR(9448) | 110 | 306.2 | 104 | 6782 | 112 | 0.89 | 51.60 | 107 | 1141 | 116 | 16.20 | 22.15 | 289 | 1150 | 274 | 0 | 76.0 | 5.9 |
| Maribo MA104RR | 124 | 302.7 | 103 | 5166 | 85 | 0.95 | 50.45 | 105 | 853 | 87 | 16.07 | 17.31 | 305 | 1210 | 298 | 0 | 67.7 | 8.3 |
| Seedex Victor RR | 112 | 294.7 | 100 | 6419 | 106 | 0.88 | 47.91 | 100 | 1043 | 106 | 15.61 | 21.76 | 296 | 1181 | 252 | 0 | 76.5 | 9.0 |
| Seedex Vision RR | 133 | 291.7 | 99 | 6077 | 100 | 0.92 | 46.96 | 98 | 982 | 100 | 15.51 | 20.76 | 335 | 1217 | 267 | 0 | 71.5 | 8.4 |
| Seedex Xavier RR | 130 | 295.3 | 100 | 5891 | 97 | 0.91 | 48.10 | 100 | 957 | 97 | 15.68 | 20.01 | 288 | 1231 | 275 | 0 | 64.1 | 10.6 |
| Seedex Yukon RR(828N) | 129 | 290.2 | 98 | 5471 | 90 | 0.95 | 46.49 | 97 | 876 | 89 | 15.47 | 18.87 | 308 | 1253 | 293 | 0 | 78.5 | 9.2 |
| Seedex Zenith RR(829N) | 116 | 284.1 | 96 | 5215 | 86 | 0.98 | 44.53 | 93 | 816 | 83 | 15.18 | 18.36 | 342 | 1283 | 291 | 0 | 74.3 | 10.6 |
| SV 36175RR | 128 | 285.8 | 97 | 5262 | 87 | 0.97 | 45.08 | 94 | 836 | 85 | 15.27 | 18.17 | 307 | 1263 | 305 | 0 | 75.4 | 9.6 |
| SV 36271RR | 126 | 283.1 | 96 | 5058 | 84 | 0.98 | 44.23 | 92 | 790 | 80 | 15.14 | 17.88 | 358 | 1250 | 298 | 0 | 73.8 | 10.5 |
| SV 36272RR | 131 | 294.8 | 100 | 5324 | 88 | 0.93 | 47.94 | 100 | 873 | 89 | 15.67 | 17.92 | 297 | 1195 | 295 | 0 | 75.7 | 10.0 |
| SV 36273RR | 119 | 284.0 | 96 | 6160 | 102 | 0.95 | 44.51 | 93 | 967 | 98 | 15.16 | 21.66 | 360 | 1230 | 280 | 0 | 64.4 | 6.9 |
| SV 36918RR | 123 | 298.9 | 101 | 5808 | 96 | 0.95 | 49.25 | 102 | 957 | 97 | 15.89 | 19.46 | 277 | 1227 | 309 | 0 | 65.3 | 8.8 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 308.9 | 105 | 6181 | 102 | 0.89 | 52.34 | 109 | 1046 | 106 | 16.33 | 20.02 | 309 | 1178 | 257 | 0 | 72.0 | 7.4 |
| BTS 8354 | 241 | 302.6 | 103 | 5583 | 92 | 1.00 | 50.40 | 105 | 930 | 94 | 16.14 | 18.45 | 311 | 1278 | 319 | 0 | 74.8 | 8.6 |
| BTS 8363 | 233 | 290.6 | 98 | 6054 | 100 | 0.91 | 46.70 | 97 | 972 | 99 | 15.43 | 20.85 | 311 | 1198 | 269 | 95 | 75.5 | 7.1 |
| BTS 8390 | 208 | 289.5 | 98 | 6597 | 109 | 0.93 | 46.36 | 96 | 1056 | 107 | 15.40 | 22.79 | 355 | 1273 | 250 | 0 | 70.7 | 7.5 |
| BTS 83CN | 223 | 293.8 | 100 | 6366 | 105 | 0.88 | 47.66 | 99 | 1034 | 105 | 15.58 | 21.64 | 325 | 1219 | 239 | 0 | 72.6 | 4.8 |
| Crystal 355RR | 234 | 299.5 | 101 | 6063 | 100 | 1.01 | 49.45 | 103 | 1001 | 102 | 15.98 | 20.25 | 342 | 1350 | 291 | 0 | 68.7 | 7.4 |
| Hilleshög 9517RR | 247 | 303.9 | 103 | 5419 | 90 | 1.05 | 50.77 | 106 | 904 | 92 | 16.23 | 17.88 | 405 | 1379 | 300 | 0 | 71.1 | 7.4 |
| Hilleshög 9528RR | 237 | 311.6 | 106 | 5977 | 99 | 0.90 | 53.15 | 111 | 1021 | 104 | 16.46 | 19.16 | 307 | 1203 | 260 | 0 | 76.9 | 5.8 |
| Maribo MA102RR | 216 | 306.8 | 104 | 5783 | 96 | 0.84 | 51.69 | 108 | 973 | 99 | 16.18 | 18.87 | 287 | 1045 | 263 | 0 | 70.1 | 5.1 |
| Maribo 305 | 232 | 297.8 | 101 | 5684 | 94 | 0.76 | 48.92 | 102 | 932 | 95 | 15.67 | 19.12 | 257 | 981 | 234 | 0 | 86.5 | 6.3 |
| Seedex RR0832 | 227 | 308.5 | 105 | 6710 | 111 | 0.97 | 52.22 | 109 | 1135 | 115 | 16.39 | 21.77 | 316 | 1255 | 298 | 0 | 69.2 | 6.0 |
| SV RR333 | 212 | 298.6 | 101 | 6195 | 102 | 0.93 | 49.16 | 102 | 1019 | 103 | 15.85 | 20.77 | 296 | 1285 | 262 | 0 | 75.6 | 6.3 |
| SV RR336 | 226 | 291.8 | 99 | 6282 | 104 | 0.88 | 47.06 | 98 | 1013 | 103 | 15.47 | 21.53 | 284 | 1120 | 270 | 0 | 72.2 | 6.4 |
| Trial Mean | | 295.2 | | 6047 | | 0.98 | 48.08 | | 985 | | 15.74 | 20.48 | 343 | 1269 | 296 | | 74.2 | 8.5 |
| Coeff. of Var. (%) | | 2.9 | | 6.2 | | 6.1 | 5.7 | | 8.2 | | 2.6 | 5.2 | 15.3 | 6.7 | 10.4 | | 9.3 | 23.9 |
| Mean LSD (0.05) | | 10.7 | | 498 | | 0.07 | 3.40 | | 106 | | 0.51 | 1.42 | 67 | 107 | 37 | | 8.5 | 2.4 |
| Mean LSD (0.01) | | 14.1 | | 658 | | 0.10 | 4.49 | | 139 | | 0.67 | 1.88 | 88 | 141 | 49 | | 11.3 | 3.1 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from St Thomas ND  Analyzed 10/22/2014 11:25  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148309

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

# Table 15.

## 2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

## Stephen MN - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 356.5 | 100 | 11346 | 110 | 0.86 | 67.63 | 100 | 2151 | 110 | 18.69 | 31.78 | 165 | 1512 | 204 | 0 | 88.9 | 7.9 |
| BTS 80RR52 | 107 | 357.6 | 100 | 10286 | 100 | 0.92 | 67.99 | 101 | 1956 | 100 | 18.81 | 28.73 | 161 | 1599 | 234 | 0 | 76.4 | 10.1 |
| BTS 81RR17 | 101 | 350.7 | 99 | 9754 | 95 | 1.00 | 65.77 | 97 | 1829 | 94 | 18.53 | 27.84 | 162 | 1683 | 267 | 0 | 75.8 | 8.5 |
| BTS 82RR22 | 135 | 371.7 | 104 | 10260 | 100 | 0.85 | 72.46 | 107 | 1998 | 103 | 19.43 | 27.64 | 155 | 1501 | 204 | 0 | 85.0 | 9.7 |
| BTS 82RR28 | 106 | 364.4 | 102 | 11124 | 108 | 0.89 | 70.13 | 104 | 2141 | 110 | 19.11 | 30.54 | 159 | 1598 | 210 | 41 | 82.2 | 5.9 |
| BTS 82RR33 | 109 | 363.3 | 102 | 11365 | 111 | 0.85 | 69.78 | 103 | 2182 | 112 | 19.01 | 31.33 | 156 | 1520 | 199 | 0 | 82.4 | 8.9 |
| BTS 82RR80 | 114 | 362.7 | 102 | 10946 | 106 | 0.83 | 69.59 | 103 | 2103 | 108 | 18.97 | 30.10 | 132 | 1446 | 215 | 0 | 86.5 | 12.2 |
| BTS 89RR83 | 121 | 339.4 | 95 | 10636 | 103 | 0.86 | 62.16 | 92 | 1947 | 100 | 17.83 | 31.36 | 157 | 1529 | 206 | 0 | 83.0 | 8.3 |
| Crystal 093RR | 104 | 376.2 | 106 | 10369 | 101 | 0.85 | 73.89 | 110 | 2036 | 104 | 19.66 | 27.53 | 133 | 1477 | 216 | 77 | 89.5 | 8.2 |
| Crystal 095RR | 134 | 360.1 | 101 | 10912 | 106 | 0.94 | 68.77 | 102 | 2085 | 107 | 18.94 | 30.29 | 165 | 1660 | 229 | 0 | 88.7 | 7.3 |
| Crystal 101RR | 122 | 361.0 | 101 | 11240 | 109 | 0.95 | 69.05 | 102 | 2149 | 110 | 19.00 | 31.21 | 206 | 1710 | 208 | 0 | 84.4 | 7.0 |
| Crystal 246RR | 136 | 353.4 | 99 | 10909 | 106 | 0.85 | 66.63 | 99 | 2057 | 106 | 18.52 | 30.91 | 161 | 1527 | 192 | 0 | 76.8 | 8.4 |
| Crystal 247RR | 120 | 362.6 | 102 | 11574 | 113 | 0.83 | 69.55 | 103 | 2221 | 114 | 18.96 | 31.93 | 151 | 1553 | 181 | 0 | 75.1 | 5.9 |
| Crystal 765RR | 108 | 374.5 | 105 | 10824 | 105 | 0.88 | 73.38 | 109 | 2120 | 109 | 19.60 | 28.93 | 169 | 1516 | 217 | 0 | 84.6 | 7.8 |
| Crystal 768RR | 102 | 357.0 | 100 | 10125 | 98 | 0.94 | 67.77 | 100 | 1921 | 99 | 18.78 | 28.44 | 175 | 1617 | 232 | 0 | 70.3 | 9.6 |
| Crystal 875RR | 103 | 354.7 | 100 | 10132 | 99 | 1.03 | 67.05 | 99 | 1915 | 98 | 18.76 | 28.63 | 216 | 1748 | 255 | 0 | 84.2 | 9.0 |
| Crystal 981RR | 113 | 359.7 | 101 | 11047 | 107 | 0.93 | 68.63 | 102 | 2108 | 108 | 18.91 | 30.68 | 212 | 1629 | 209 | 0 | 83.0 | 7.9 |
| Crystal 985RR | 127 | 353.9 | 99 | 9933 | 97 | 0.90 | 66.80 | 99 | 1874 | 96 | 18.60 | 28.10 | 185 | 1562 | 216 | 0 | 86.3 | 9.7 |
| Crystal 986RR | 115 | 365.1 | 103 | 10636 | 103 | 0.83 | 70.38 | 104 | 2049 | 105 | 19.09 | 29.17 | 180 | 1417 | 204 | 0 | 83.4 | 8.9 |
| Hilleshög 4022RR | 125 | 345.7 | 97 | 8801 | 86 | 0.93 | 64.18 | 95 | 1635 | 84 | 18.21 | 25.43 | 184 | 1604 | 228 | 0 | 85.2 | 8.4 |
| Hilleshög 4094RR | 117 | 347.2 | 98 | 9288 | 90 | 0.94 | 64.66 | 96 | 1731 | 89 | 18.30 | 26.70 | 203 | 1605 | 228 | 0 | 77.6 | 7.1 |
| Hilleshög 4300RR | 105 | 354.1 | 99 | 10521 | 102 | 0.90 | 66.86 | 99 | 1987 | 102 | 18.60 | 29.72 | 195 | 1576 | 208 | 0 | 65.8 | 6.7 |
| Hilleshög 4302RR | 132 | 348.6 | 98 | 9743 | 95 | 0.89 | 65.11 | 97 | 1819 | 93 | 18.32 | 27.96 | 204 | 1488 | 219 | 0 | 78.4 | 6.1 |
| Hilleshög 4303RR | 118 | 365.6 | 103 | 10161 | 99 | 0.85 | 70.54 | 105 | 1959 | 101 | 19.13 | 27.84 | 170 | 1489 | 203 | 0 | 69.3 | 7.9 |
| Hilleshög 4448RR(9448) | 110 | 355.0 | 100 | 11463 | 111 | 0.87 | 67.15 | 100 | 2169 | 111 | 18.62 | 32.29 | 173 | 1473 | 220 | 0 | 77.0 | 4.2 |
| Maribo MA104RR | 124 | 364.3 | 102 | 9118 | 89 | 0.84 | 70.12 | 104 | 1757 | 90 | 19.06 | 24.95 | 169 | 1415 | 215 | 0 | 81.0 | 6.7 |
| Seedex Victor RR | 112 | 348.9 | 98 | 10279 | 100 | 0.83 | 65.21 | 97 | 1922 | 99 | 18.28 | 29.43 | 168 | 1464 | 197 | 0 | 85.2 | 10.1 |
| Seedex Vision RR | 133 | 354.1 | 99 | 10430 | 101 | 0.88 | 66.86 | 99 | 1968 | 101 | 18.59 | 29.49 | 165 | 1534 | 218 | 0 | 79.2 | 5.2 |
| Seedex Xavier RR | 130 | 362.3 | 102 | 10022 | 97 | 0.81 | 69.46 | 103 | 1921 | 99 | 18.92 | 27.66 | 144 | 1456 | 188 | 0 | 70.9 | 9.0 |
| Seedex Yukon RR(828N) | 129 | 338.5 | 95 | 9139 | 89 | 0.92 | 61.88 | 92 | 1669 | 86 | 17.84 | 27.02 | 164 | 1488 | 257 | 0 | 82.6 | 10.0 |
| Seedex Zenith RR(829N) | 116 | 339.5 | 95 | 9447 | 92 | 0.94 | 62.20 | 92 | 1732 | 89 | 17.91 | 27.78 | 162 | 1540 | 259 | 0 | 83.8 | 10.2 |
| SV 36175RR | 128 | 349.3 | 98 | 9583 | 93 | 0.91 | 65.33 | 97 | 1794 | 92 | 18.38 | 27.40 | 162 | 1505 | 247 | 41 | 84.2 | 7.7 |
| SV 36271RR | 126 | 331.5 | 93 | 9151 | 89 | 0.93 | 59.66 | 88 | 1648 | 85 | 17.50 | 27.60 | 175 | 1562 | 241 | 0 | 83.4 | 9.4 |
| SV 36272RR | 131 | 360.2 | 101 | 9181 | 89 | 0.81 | 68.80 | 102 | 1753 | 90 | 18.82 | 25.48 | 135 | 1408 | 205 | 0 | 83.0 | 10.9 |
| SV 36273RR | 119 | 344.0 | 97 | 10391 | 101 | 0.87 | 63.65 | 94 | 1921 | 99 | 18.07 | 30.25 | 183 | 1502 | 205 | 0 | 79.8 | 5.4 |
| SV 36918RR | 123 | 362.1 | 102 | 10095 | 98 | 0.85 | 69.39 | 103 | 1936 | 99 | 18.95 | 27.87 | 141 | 1485 | 211 | 0 | 74.5 | 6.8 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 369.5 | 104 | 9596 | 93 | 0.80 | 71.69 | 106 | 1860 | 95 | 19.29 | 25.91 | 143 | 1472 | 179 | 0 | 75.4 | 5.6 |
| BTS 8354 | 241 | 358.6 | 101 | 8948 | 87 | 0.95 | 68.30 | 101 | 1703 | 87 | 18.87 | 25.01 | 153 | 1672 | 232 | 0 | 73.5 | 4.7 |
| BTS 8363 | 233 | 348.8 | 98 | 10048 | 98 | 0.81 | 65.23 | 97 | 1876 | 96 | 18.26 | 28.93 | 144 | 1507 | 179 | 95 | 73.6 | 5.1 |
| BTS 8390 | 208 | 346.8 | 97 | 10904 | 106 | 0.89 | 64.59 | 96 | 2032 | 104 | 18.22 | 31.57 | 177 | 1636 | 187 | 0 | 75.5 | 4.0 |
| BTS 83CN | 223 | 348.6 | 98 | 9889 | 96 | 0.83 | 65.18 | 97 | 1847 | 95 | 18.27 | 28.45 | 139 | 1439 | 210 | 0 | 79.2 | 4.5 |
| Crystal 355RR | 234 | 356.7 | 100 | 9164 | 89 | 0.94 | 67.67 | 100 | 1734 | 89 | 18.76 | 25.82 | 155 | 1581 | 248 | 0 | 82.3 | 6.3 |
| Hilleshög 9517RR | 247 | 355.2 | 100 | 8324 | 81 | 0.95 | 67.21 | 100 | 1576 | 81 | 18.71 | 23.46 | 220 | 1627 | 219 | 0 | 71.5 | 4.1 |
| Hilleshög 9528RR | 237 | 365.6 | 103 | 10131 | 99 | 0.76 | 70.46 | 104 | 1949 | 100 | 19.05 | 27.84 | 135 | 1396 | 169 | 0 | 76.0 | 3.8 |
| Maribo MA102RR | 216 | 359.2 | 101 | 10949 | 106 | 0.79 | 68.47 | 101 | 2087 | 107 | 18.76 | 30.54 | 136 | 1421 | 193 | 0 | 73.1 | 2.6 |
| Maribo 305 | 232 | 351.4 | 99 | 10629 | 103 | 0.74 | 66.04 | 98 | 2000 | 103 | 18.32 | 30.19 | 149 | 1288 | 175 | 0 | 76.1 | 3.4 |
| Seedex RR0832 | 227 | 345.3 | 97 | 9956 | 97 | 0.86 | 64.13 | 95 | 1850 | 95 | 18.14 | 28.82 | 170 | 1556 | 194 | 0 | 74.4 | 5.2 |
| SV RR333 | 212 | 353.5 | 99 | 9858 | 96 | 0.86 | 66.69 | 99 | 1860 | 95 | 18.55 | 27.88 | 141 | 1520 | 214 | 0 | 77.8 | 4.4 |
| SV RR336 | 226 | 357.1 | 100 | 10148 | 99 | 0.87 | 67.82 | 101 | 1922 | 99 | 18.74 | 28.56 | 143 | 1517 | 223 | 0 | 81.6 | 4.2 |
| Trial Mean | | 356.0 | | 10284 | | 0.89 | 67.46 | | 1949 | | 18.69 | 28.89 | 169 | 1539 | 218 | | 80.8 | 8.1 |
| Coeff. of Var. (%) | | 2.4 | | 4.5 | | 4.7 | 4.0 | | 5.5 | | 2.2 | 3.9 | 13.4 | 3.9 | 8.8 | | 10.0 | 34.4 |
| Mean LSD (0.05) | | 11.4 | | 633 | | 0.06 | 3.62 | | 145 | | 0.54 | 1.57 | 31 | 82 | 27 | | 10.1 | 3.6 |
| Mean LSD (0.01) | | 15.0 | | 837 | | 0.08 | 4.79 | | 192 | | 0.72 | 2.07 | 41 | 109 | 35 | | 13.4 | 4.7 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Stephen MN  Analyzed 10/22/2014 11:28  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148310

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 16.

2014 Performance of Approved Varieties - ACSC Commercial & Experimental Official Trials

Bathgate ND - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Rev/T $ ++ | Rev/T %Mean | Rev/A $ ++ | Rev/A %Mean | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter /Ac ^ | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | | | | | |
| BTS 80RR32 | 111 | 319.5 | 97 | 7709 | 101 | 1.10 | 55.83 | 95 | 1339 | 99 | 17.07 | 24.24 | 309 | 1672 | 297 | 0 | 87.9 | 8.2 |
| BTS 80RR52 | 107 | 330.8 | 101 | 7737 | 102 | 1.09 | 59.42 | 101 | 1398 | 103 | 17.63 | 23.52 | 234 | 1699 | 298 | 0 | 88.9 | 4.5 |
| BTS 81RR17 | 101 | 332.7 | 101 | 7526 | 99 | 1.18 | 60.02 | 102 | 1360 | 100 | 17.81 | 22.49 | 239 | 1782 | 348 | 0 | 86.9 | 6.4 |
| BTS 82RR22 | 135 | 338.3 | 103 | 7507 | 99 | 1.05 | 61.81 | 105 | 1373 | 101 | 17.97 | 21.99 | 230 | 1637 | 295 | 0 | 86.4 | 6.2 |
| BTS 82RR28 | 106 | 329.3 | 100 | 7905 | 104 | 1.08 | 58.96 | 100 | 1414 | 104 | 17.54 | 24.27 | 252 | 1717 | 288 | 32 | 85.9 | 6.7 |
| BTS 82RR33 | 109 | 320.2 | 97 | 7869 | 103 | 1.08 | 56.03 | 95 | 1371 | 101 | 17.09 | 24.52 | 306 | 1667 | 277 | 0 | 84.4 | 6.3 |
| BTS 82RR80 | 114 | 341.8 | 104 | 8066 | 106 | 0.98 | 62.95 | 107 | 1481 | 109 | 18.07 | 23.98 | 194 | 1640 | 258 | 0 | 86.9 | 5.5 |
| BTS 89RR83 | 121 | 318.8 | 97 | 7864 | 103 | 1.01 | 55.61 | 95 | 1382 | 102 | 16.96 | 24.42 | 237 | 1615 | 264 | 0 | 82.3 | 7.4 |
| Crystal 093RR | 104 | 349.9 | 106 | 8075 | 106 | 0.97 | 65.52 | 111 | 1506 | 111 | 18.47 | 22.99 | 166 | 1535 | 282 | 0 | 84.2 | 5.7 |
| Crystal 095RR | 134 | 327.8 | 100 | 7904 | 104 | 1.09 | 58.47 | 99 | 1405 | 103 | 17.48 | 24.18 | 241 | 1683 | 309 | 0 | 86.7 | 5.6 |
| Crystal 101RR | 122 | 332.1 | 101 | 8282 | 109 | 1.14 | 59.83 | 102 | 1489 | 110 | 17.74 | 25.10 | 307 | 1832 | 281 | 0 | 86.2 | 6.2 |
| Crystal 246RR | 136 | 333.1 | 101 | 7866 | 103 | 1.01 | 60.17 | 102 | 1413 | 104 | 17.66 | 23.68 | 232 | 1630 | 266 | 0 | 92.2 | 7.1 |
| Crystal 247RR | 120 | 328.3 | 100 | 8494 | 112 | 0.99 | 58.63 | 100 | 1548 | 114 | 17.42 | 25.26 | 225 | 1671 | 238 | 0 | 86.5 | 6.0 |
| Crystal 765RR | 108 | 338.7 | 103 | 6982 | 92 | 1.05 | 61.95 | 105 | 1271 | 94 | 17.99 | 20.64 | 253 | 1610 | 295 | 0 | 86.1 | 6.3 |
| Crystal 768RR | 102 | 332.1 | 101 | 7819 | 103 | 1.13 | 59.84 | 102 | 1398 | 103 | 17.73 | 23.94 | 251 | 1805 | 301 | 0 | 86.7 | 6.9 |
| Crystal 875RR | 103 | 325.8 | 99 | 8106 | 107 | 1.15 | 57.83 | 98 | 1441 | 106 | 17.44 | 25.03 | 278 | 1779 | 317 | 0 | 84.7 | 7.8 |
| Crystal 981RR | 113 | 335.8 | 102 | 8123 | 107 | 1.13 | 61.01 | 104 | 1475 | 109 | 17.92 | 24.12 | 283 | 1865 | 278 | 32 | 85.2 | 8.3 |
| Crystal 985RR | 127 | 325.3 | 99 | 6989 | 92 | 1.07 | 57.66 | 98 | 1230 | 91 | 17.32 | 21.76 | 274 | 1668 | 289 | 0 | 94.0 | 8.4 |
| Crystal 986RR | 115 | 334.7 | 102 | 7930 | 104 | 0.95 | 60.67 | 103 | 1432 | 105 | 17.68 | 23.88 | 238 | 1541 | 246 | 0 | 81.8 | 8.8 |
| Hilleshög 4022RR | 125 | 311.6 | 95 | 6635 | 87 | 1.23 | 53.29 | 91 | 1135 | 84 | 16.81 | 21.50 | 369 | 1753 | 350 | 0 | 80.3 | 3.8 |
| Hilleshög 4094RR | 117 | 321.0 | 98 | 7438 | 98 | 1.14 | 56.31 | 96 | 1294 | 95 | 17.19 | 23.25 | 276 | 1728 | 333 | 0 | 86.1 | 4.7 |
| Hilleshög 4300RR | 105 | 319.1 | 97 | 7527 | 99 | 1.12 | 55.69 | 95 | 1307 | 96 | 17.07 | 23.65 | 312 | 1690 | 308 | 0 | 77.0 | 7.5 |
| Hilleshög 4302RR | 132 | 332.0 | 101 | 7564 | 99 | 1.03 | 59.80 | 102 | 1358 | 100 | 17.63 | 22.78 | 281 | 1616 | 268 | 0 | 76.2 | 4.9 |
| Hilleshög 4303RR | 118 | 343.9 | 105 | 7817 | 103 | 1.02 | 63.62 | 108 | 1452 | 107 | 18.22 | 22.87 | 219 | 1638 | 275 | 0 | 82.6 | 4.7 |
| Hilleshög 4448RR(9448) | 110 | 332.3 | 101 | 8663 | 114 | 1.02 | 59.91 | 102 | 1554 | 114 | 17.63 | 26.37 | 238 | 1562 | 285 | 0 | 85.0 | 2.8 |
| Maribo MA104RR | 124 | 343.7 | 105 | 6539 | 86 | 1.02 | 63.54 | 108 | 1194 | 88 | 18.21 | 19.35 | 241 | 1577 | 285 | 0 | 84.2 | 8.7 |
| Seedex Victor RR | 112 | 311.2 | 95 | 7603 | 100 | 1.00 | 53.17 | 90 | 1292 | 95 | 16.56 | 24.31 | 262 | 1582 | 264 | 0 | 83.4 | 7.6 |
| Seedex Vision RR | 133 | 332.0 | 101 | 7822 | 103 | 0.97 | 59.80 | 102 | 1402 | 103 | 17.57 | 23.63 | 213 | 1555 | 263 | 0 | 85.1 | 5.6 |
| Seedex Xavier RR | 130 | 324.8 | 99 | 7547 | 99 | 0.94 | 57.51 | 98 | 1343 | 99 | 17.18 | 23.29 | 203 | 1494 | 252 | 0 | 81.2 | 7.2 |
| Seedex Yukon RR(828N) | 129 | 322.7 | 98 | 7296 | 96 | 1.00 | 56.84 | 97 | 1285 | 95 | 17.14 | 22.62 | 234 | 1500 | 292 | 0 | 85.0 | 4.4 |
| Seedex Zenith RR(829N) | 116 | 319.5 | 97 | 6677 | 88 | 1.05 | 55.82 | 95 | 1165 | 86 | 17.03 | 21.00 | 218 | 1639 | 299 | 0 | 87.2 | 7.7 |
| SV 36175RR | 128 | 335.6 | 102 | 7267 | 95 | 0.96 | 60.96 | 104 | 1308 | 96 | 17.74 | 21.61 | 203 | 1576 | 254 | 0 | 88.5 | 7.4 |
| SV 36271RR | 126 | 311.4 | 95 | 6705 | 88 | 1.03 | 53.24 | 91 | 1137 | 84 | 16.60 | 21.77 | 229 | 1669 | 280 | 0 | 83.9 | 10.4 |
| SV 36272RR | 131 | 328.1 | 100 | 7437 | 98 | 0.98 | 58.57 | 100 | 1321 | 97 | 17.38 | 22.82 | 207 | 1572 | 267 | 0 | 84.5 | 7.4 |
| SV 36273RR | 119 | 321.4 | 98 | 7656 | 101 | 0.99 | 56.43 | 96 | 1347 | 99 | 17.07 | 23.64 | 258 | 1581 | 252 | 0 | 85.1 | 4.8 |
| SV 36918RR | 123 | 329.3 | 100 | 7027 | 92 | 1.00 | 58.93 | 100 | 1258 | 93 | 17.47 | 21.23 | 210 | 1656 | 262 | 0 | 83.5 | 9.2 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | | | | | |
| BTS 8337 | 222 | 344.7 | 105 | 7395 | 97 | 1.02 | 63.74 | 108 | 1372 | 101 | 18.27 | 21.64 | 234 | 1704 | 252 | 0 | 84.7 | 4.5 |
| BTS 8354 | 241 | 332.2 | 101 | 7767 | 102 | 1.14 | 59.84 | 102 | 1401 | 103 | 17.76 | 23.54 | 228 | 1801 | 322 | 0 | 89.2 | 4.1 |
| BTS 8363 | 233 | 327.5 | 100 | 8363 | 110 | 0.99 | 58.39 | 99 | 1505 | 111 | 17.38 | 25.60 | 207 | 1640 | 249 | 95 | 85.6 | 2.8 |
| BTS 8390 | 208 | 310.7 | 95 | 8488 | 112 | 1.11 | 53.21 | 91 | 1458 | 107 | 16.66 | 27.28 | 319 | 1780 | 271 | 0 | 87.6 | 5.6 |
| BTS 83CN | 223 | 328.7 | 100 | 8496 | 112 | 1.01 | 58.78 | 100 | 1528 | 113 | 17.46 | 25.65 | 218 | 1654 | 255 | 0 | 87.3 | 3.7 |
| Crystal 355RR | 234 | 341.3 | 104 | 7753 | 102 | 1.12 | 62.68 | 107 | 1439 | 106 | 18.20 | 22.56 | 258 | 1731 | 312 | 0 | 86.4 | 3.8 |
| Hilleshög 9517RR | 247 | 337.9 | 103 | 7441 | 98 | 1.06 | 61.61 | 105 | 1360 | 100 | 17.96 | 22.06 | 274 | 1703 | 264 | 0 | 72.0 | 3.0 |
| Hilleshög 9528RR | 237 | 334.3 | 102 | 8090 | 106 | 1.09 | 60.50 | 103 | 1476 | 109 | 17.82 | 24.09 | 233 | 1644 | 316 | 0 | 79.1 | 3.9 |
| Maribo MA102RR | 216 | 338.4 | 103 | 8392 | 110 | 0.98 | 61.76 | 105 | 1544 | 114 | 17.91 | 24.58 | 186 | 1568 | 267 | 0 | 75.5 | 2.4 |
| Maribo 305 | 232 | 330.8 | 101 | 8008 | 105 | 0.91 | 59.39 | 101 | 1445 | 106 | 17.47 | 24.25 | 174 | 1472 | 249 | 0 | 76.0 | 2.4 |
| Seedex RR0832 | 227 | 325.7 | 99 | 8169 | 107 | 1.00 | 57.83 | 98 | 1455 | 107 | 17.28 | 25.14 | 240 | 1602 | 256 | 0 | 83.7 | 5.9 |
| SV RR333 | 212 | 332.9 | 101 | 8926 | 117 | 1.05 | 60.06 | 102 | 1611 | 119 | 17.70 | 26.92 | 200 | 1633 | 302 | 0 | 85.9 | 4.3 |
| SV RR336 | 226 | 332.7 | 101 | 8093 | 106 | 1.00 | 60.01 | 102 | 1465 | 108 | 17.65 | 24.33 | 172 | 1606 | 284 | 0 | 89.2 | 4.1 |
| Trial Mean | | 328.7 | | 7610 | | 1.05 | 58.77 | | 1358 | | 17.49 | 23.21 | 248 | 1651 | 284 | | 85.1 | 6.6 |
| Coeff. of Var. (%) | | 2.8 | | 5.9 | | 6.0 | 4.9 | | 7.0 | | 2.4 | 5.4 | 17.4 | 5.1 | 10.9 | | 8.1 | 43.2 |
| Mean LSD (0.05) | | 12.1 | | 569 | | 0.08 | 3.85 | | 124 | | 0.57 | 1.68 | 56 | 109 | 41 | | 8.1 | 3.6 |
| Mean LSD (0.01) | | 16.0 | | 751 | | 0.11 | 5.09 | | 163 | | 0.75 | 2.22 | 74 | 145 | 54 | | 10.7 | 4.7 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ns | * |

* 2014 Data from Bathgate ND  Analyzed 10/22/2014 11:38  Created 10-27-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial.  Trial # = 148311

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs

Table 17.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

8 sites - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 329.6 | 104 | 8220 | 96 | 0.97 | 58.93 | 107 | 1468 | 99 | 17.46 | 24.98 | 230 | 1470 | 281 | 14 | 76.6 | 5.4 |
| BTS 8354 | 241 | 317.7 | 100 | 8027 | 94 | 1.11 | 55.23 | 101 | 1393 | 94 | 17.00 | 25.31 | 243 | 1593 | 350 | 0 | 76.8 | 4.9 |
| BTS 8363 | 233 | 311.8 | 98 | 8978 | 105 | 0.96 | 53.37 | 97 | 1539 | 104 | 16.55 | 28.77 | 217 | 1465 | 276 | 95 | 77.5 | 4.5 |
| BTS 8390 | 208 | 304.3 | 96 | 9209 | 108 | 1.03 | 51.08 | 93 | 1546 | 105 | 16.25 | 30.25 | 290 | 1582 | 270 | 0 | 77.5 | 5.1 |
| BTS 83CN | 223 | 313.7 | 99 | 8618 | 101 | 0.95 | 53.99 | 98 | 1481 | 100 | 16.64 | 27.50 | 230 | 1448 | 266 | 0 | 76.9 | 3.8 |
| BTS 8402 | 215 | 316.0 | 100 | 8346 | 98 | 1.03 | 54.70 | 100 | 1443 | 98 | 16.84 | 26.43 | 257 | 1500 | 309 | 0 | 84.1 | 3.8 |
| BTS 8404 | 244 | 318.5 | 101 | 8518 | 100 | 1.00 | 55.48 | 101 | 1485 | 101 | 16.94 | 26.70 | 203 | 1454 | 317 | 0 | 76.9 | 4.0 |
| BTS 8405 | 219 | 332.2 | 105 | 8828 | 104 | 0.93 | 59.74 | 109 | 1586 | 107 | 17.55 | 26.60 | 164 | 1410 | 289 | 0 | 75.6 | 4.4 |
| BTS 8406 | 236 | 323.7 | 102 | 8561 | 100 | 1.00 | 57.10 | 104 | 1508 | 102 | 17.19 | 26.50 | 226 | 1482 | 300 | 0 | 74.0 | 3.3 |
| BTS 8408 | 217 | 320.1 | 101 | 8613 | 101 | 1.15 | 55.99 | 102 | 1506 | 102 | 17.16 | 26.90 | 268 | 1621 | 368 | 0 | 75.3 | 6.4 |
| BTS 840N | 206 | 311.6 | 98 | 7483 | 88 | 1.12 | 53.32 | 97 | 1280 | 87 | 16.70 | 24.02 | 243 | 1634 | 347 | 0 | 81.0 | 4.7 |
| Crystal 355RR | 234 | 321.1 | 101 | 8272 | 97 | 1.08 | 56.28 | 102 | 1447 | 98 | 17.13 | 25.83 | 244 | 1570 | 331 | 0 | 78.5 | 4.8 |
| Crystal 359RR | 242 | 312.7 | 99 | 9165 | 108 | 1.07 | 53.68 | 98 | 1572 | 107 | 16.71 | 29.34 | 283 | 1559 | 315 | 14 | 75.1 | 4.7 |
| Crystal 464RR | 201 | 320.4 | 101 | 8507 | 100 | 1.05 | 56.08 | 102 | 1489 | 101 | 17.08 | 26.54 | 243 | 1550 | 317 | 0 | 82.0 | 5.4 |
| Crystal 465RR | 220 | 320.2 | 101 | 8756 | 103 | 1.05 | 56.01 | 102 | 1530 | 104 | 17.06 | 27.38 | 269 | 1513 | 315 | 14 | 83.3 | 3.9 |
| Crystal 466RR | 230 | 317.6 | 100 | 9000 | 106 | 1.02 | 55.19 | 101 | 1564 | 106 | 16.90 | 28.35 | 237 | 1516 | 300 | 635 | 69.7 | 4.1 |
| Crystal 467RR | 221 | 310.7 | 98 | 9159 | 107 | 1.02 | 53.05 | 97 | 1564 | 106 | 16.56 | 29.50 | 291 | 1534 | 278 | 0 | 75.9 | 4.9 |
| Crystal 468RR | 202 | 308.4 | 97 | 8708 | 102 | 1.00 | 52.32 | 95 | 1479 | 100 | 16.41 | 28.24 | 264 | 1448 | 291 | 0 | 80.7 | 4.4 |
| Crystal 469RR | 249 | 318.1 | 100 | 8995 | 106 | 1.12 | 55.36 | 101 | 1563 | 106 | 17.03 | 28.35 | 271 | 1647 | 334 | 0 | 76.4 | 4.0 |
| Hilleshög 9517RR | 247 | 323.8 | 102 | 7589 | 89 | 1.07 | 57.11 | 104 | 1339 | 91 | 17.27 | 23.44 | 294 | 1573 | 309 | 0 | 71.1 | 4.8 |
| Hilleshög 9528RR | 237 | 325.6 | 103 | 8908 | 105 | 0.93 | 57.69 | 105 | 1577 | 107 | 17.22 | 27.39 | 214 | 1414 | 270 | 0 | 77.5 | 4.2 |
| Hilleshög 9601RR | 203 | 309.2 | 98 | 7642 | 90 | 1.08 | 52.62 | 96 | 1299 | 88 | 16.55 | 24.73 | 352 | 1514 | 308 | 0 | 66.3 | 3.7 |
| Hilleshög 9602RR | 205 | 311.0 | 98 | 9085 | 107 | 0.95 | 53.14 | 97 | 1551 | 105 | 16.50 | 29.25 | 247 | 1459 | 257 | 0 | 81.8 | 3.9 |
| Hilleshög 9604RR | 211 | 306.4 | 97 | 8831 | 104 | 1.03 | 51.72 | 94 | 1490 | 101 | 16.35 | 28.81 | 248 | 1518 | 302 | 14 | 79.3 | 3.6 |
| Hilleshög 9610RR | 245 | 313.0 | 99 | 7626 | 89 | 0.94 | 53.80 | 98 | 1307 | 89 | 16.60 | 24.43 | 259 | 1414 | 258 | 0 | 68.4 | 4.4 |
| Hilleshög 9613RR | 224 | 297.1 | 94 | 8025 | 94 | 1.13 | 48.83 | 89 | 1313 | 89 | 15.99 | 27.13 | 316 | 1595 | 337 | 0 | 78.6 | 3.6 |
| Hilleshög 9615RR | 231 | 315.0 | 99 | 8043 | 94 | 1.10 | 54.40 | 99 | 1388 | 94 | 16.85 | 25.57 | 294 | 1519 | 345 | 0 | 76.7 | 6.5 |
| Hilleshög 9620RR | 210 | 314.2 | 99 | 8418 | 99 | 1.07 | 54.15 | 99 | 1448 | 98 | 16.78 | 26.82 | 282 | 1550 | 313 | 23 | 78.5 | 4.4 |
| Maribo 109RR | 225 | 334.2 | 106 | 7705 | 90 | 0.96 | 60.38 | 110 | 1390 | 94 | 17.69 | 23.05 | 201 | 1440 | 291 | 0 | 73.0 | 3.7 |
| Maribo 301 | 209 | 324.5 | 102 | 8063 | 95 | 1.04 | 57.38 | 104 | 1427 | 97 | 17.28 | 24.79 | 265 | 1550 | 302 | 0 | 78.4 | 5.0 |
| Maribo 305 | 232 | 315.3 | 100 | 8914 | 105 | 0.88 | 54.51 | 99 | 1541 | 104 | 16.66 | 28.26 | 205 | 1283 | 263 | 0 | 81.7 | 3.3 |
| Maribo 402 | 213 | 313.9 | 99 | 8507 | 100 | 0.94 | 54.04 | 98 | 1468 | 99 | 16.64 | 27.04 | 230 | 1410 | 268 | 0 | 83.4 | 4.7 |
| Maribo 403 | 228 | 316.8 | 100 | 9679 | 114 | 0.91 | 54.96 | 100 | 1679 | 114 | 16.76 | 30.52 | 219 | 1380 | 259 | 0 | 79.0 | 3.4 |
| Maribo MA102RR | 216 | 325.0 | 103 | 9247 | 109 | 0.91 | 57.51 | 105 | 1636 | 111 | 17.17 | 28.43 | 203 | 1354 | 270 | 0 | 74.1 | 3.4 |
| Seedex RR0832 | 227 | 318.8 | 101 | 8672 | 102 | 0.98 | 55.58 | 101 | 1513 | 103 | 16.93 | 27.16 | 234 | 1513 | 269 | 0 | 76.7 | 5.0 |
| Seedex RR842 | 235 | 320.8 | 101 | 8923 | 105 | 0.93 | 56.18 | 102 | 1564 | 106 | 16.98 | 27.78 | 215 | 1440 | 259 | 14 | 74.2 | 3.6 |
| Seedex RR844TT | 218 | 318.4 | 101 | 9036 | 106 | 0.95 | 55.46 | 101 | 1574 | 107 | 16.87 | 28.36 | 194 | 1477 | 269 | 0 | 74.3 | 4.1 |
| Seedex RR846 | 243 | 310.2 | 98 | 9042 | 106 | 1.01 | 52.91 | 96 | 1542 | 104 | 16.53 | 29.14 | 257 | 1462 | 306 | 0 | 73.4 | 3.6 |
| Seedex RR848 | 246 | 311.8 | 98 | 8884 | 104 | 0.97 | 53.40 | 97 | 1522 | 103 | 16.57 | 28.48 | 253 | 1428 | 282 | 0 | 71.4 | 3.4 |
| SV RR241 | 214 | 314.3 | 99 | 8335 | 98 | 0.95 | 54.17 | 99 | 1437 | 97 | 16.68 | 26.51 | 205 | 1408 | 287 | 14 | 76.6 | 4.5 |
| SV RR242TT | 229 | 308.4 | 97 | 9231 | 108 | 0.97 | 52.33 | 95 | 1567 | 106 | 16.39 | 29.91 | 224 | 1458 | 280 | 0 | 77.1 | 3.9 |
| SV RR243 | 207 | 317.5 | 100 | 8437 | 99 | 0.96 | 55.18 | 100 | 1466 | 99 | 16.84 | 26.56 | 230 | 1482 | 264 | 0 | 69.0 | 3.8 |
| SV RR244TT | 240 | 302.2 | 95 | 9328 | 109 | 0.94 | 50.41 | 92 | 1555 | 105 | 16.05 | 30.87 | 211 | 1408 | 277 | 0 | 72.2 | 3.3 |
| SV RR245N | 238 | 315.1 | 100 | 7652 | 90 | 0.97 | 54.46 | 99 | 1320 | 89 | 16.73 | 24.31 | 224 | 1417 | 295 | 0 | 75.7 | 5.9 |
| SV RR246 | 248 | 330.3 | 104 | 7803 | 92 | 0.94 | 59.15 | 108 | 1396 | 95 | 17.46 | 23.63 | 189 | 1483 | 263 | 0 | 74.4 | 5.5 |
| SV RR247 | 239 | 331.5 | 105 | 7667 | 90 | 0.99 | 59.53 | 108 | 1376 | 93 | 17.58 | 23.15 | 225 | 1492 | 292 | 0 | 73.3 | 4.9 |
| SV RR248 | 204 | 313.9 | 99 | 8037 | 94 | 1.00 | 54.04 | 98 | 1386 | 94 | 16.70 | 25.56 | 216 | 1549 | 287 | 36 | 69.3 | 4.5 |
| SV RR333 | 212 | 316.9 | 100 | 8551 | 100 | 0.98 | 54.99 | 100 | 1485 | 101 | 16.83 | 26.97 | 214 | 1477 | 292 | 0 | 75.6 | 4.5 |
| SV RR336 | 226 | 316.0 | 100 | 8627 | 101 | 0.95 | 54.71 | 100 | 1493 | 101 | 16.75 | 27.29 | 206 | 1394 | 291 | 0 | 77.4 | 4.2 |
| Root Aphid Susc Chk | 250 | 320.0 | 101 | 7899 | 93 | 0.97 | 55.94 | 102 | 1384 | 94 | 16.98 | 24.62 | 210 | 1507 | 277 | 0 | 68.7 | 5.8 |
| Hilleshög 4012RR(Check) | 251 | 313.7 | 99 | 8238 | 97 | 1.02 | 53.98 | 98 | 1418 | 96 | 16.71 | 26.24 | 288 | 1465 | 298 | 0 | 79.9 | 5.1 |
| Crystal 875RR(Check) | 252 | 313.7 | 99 | 8532 | 100 | 1.13 | 54.00 | 98 | 1470 | 100 | 16.82 | 27.18 | 291 | 1595 | 348 | 0 | 78.7 | 5.3 |
| BTS 80RR52(Check) | 253 | 319.3 | 101 | 8643 | 101 | 1.04 | 55.74 | 102 | 1509 | 102 | 17.01 | 27.06 | 217 | 1530 | 317 | 0 | 78.8 | 5.0 |
| BTS 81RR17(Check) | 254 | 313.3 | 99 | 8423 | 99 | 1.13 | 53.86 | 98 | 1447 | 98 | 16.80 | 26.91 | 245 | 1625 | 361 | 0 | 81.3 | 5.4 |
| Trial Mean | | 316.7 | | 8522 | | 1.01 | 54.91 | | 1476 | | 16.85 | 26.94 | 242 | 1492 | 297 | | 76.3 | 4.5 |
| Coeff. of Var. (%) | | 2.4 | | 5.7 | | 6.9 | 4.3 | | 6.7 | | 2.1 | 5.3 | 17.0 | 5.4 | 13.1 | | 8.9 | 29.9 |
| Mean LSD (0.05) | | 4.9 | | 371 | | 0.04 | 1.52 | | 72 | | 0.22 | 1.15 | 27 | 48 | 24 | | 4.4 | 0.9 |
| Mean LSD (0.01) | | 6.4 | | 488 | | 0.06 | 2.00 | | 95 | | 0.29 | 1.52 | 36 | 64 | 32 | | 5.8 | 1.1 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from 8 sites

10/24/2014 12:05

Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

Trial # = 14ACExp8

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 18.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

Casselton ND - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 263.8 | 102 | 7358 | 96 | 1.18 | 37.98 | 103 | 1055 | 97 | 14.36 | 27.70 | 340 | 1716 | 339 | 0 | 73.2 | 6.2 |
| BTS 8354 | 241 | 255.3 | 98 | 7412 | 96 | 1.28 | 35.52 | 97 | 1037 | 95 | 14.03 | 28.86 | 313 | 1779 | 397 | 0 | 74.9 | 4.6 |
| BTS 8363 | 233 | 254.6 | 98 | 8152 | 106 | 1.03 | 35.34 | 96 | 1138 | 104 | 13.78 | 31.67 | 244 | 1603 | 282 | 0 | 74.6 | 4.8 |
| BTS 8390 | 208 | 249.3 | 96 | 8054 | 105 | 1.10 | 33.81 | 92 | 1095 | 100 | 13.58 | 32.12 | 330 | 1785 | 255 | 0 | 74.6 | 5.5 |
| BTS 83CN | 223 | 252.7 | 97 | 7731 | 100 | 1.08 | 34.80 | 95 | 1064 | 98 | 13.72 | 30.45 | 325 | 1647 | 283 | 0 | 72.4 | 3.7 |
| BTS 8402 | 215 | 261.0 | 101 | 7749 | 101 | 1.14 | 37.18 | 101 | 1110 | 102 | 14.20 | 29.44 | 342 | 1634 | 320 | 0 | 82.9 | 3.5 |
| BTS 8404 | 244 | 256.9 | 99 | 7600 | 99 | 1.17 | 36.00 | 98 | 1066 | 98 | 14.01 | 29.37 | 267 | 1690 | 359 | 0 | 78.9 | 4.5 |
| BTS 8405 | 219 | 278.4 | 107 | 8274 | 108 | 1.00 | 42.19 | 115 | 1259 | 115 | 14.95 | 29.43 | 215 | 1569 | 281 | 0 | 75.7 | 3.8 |
| BTS 8406 | 236 | 267.3 | 103 | 7759 | 101 | 1.12 | 39.01 | 106 | 1128 | 103 | 14.48 | 28.84 | 313 | 1675 | 311 | 0 | 75.7 | 3.3 |
| BTS 8408 | 217 | 261.8 | 101 | 7763 | 101 | 1.30 | 37.43 | 102 | 1113 | 102 | 14.38 | 29.41 | 337 | 1845 | 390 | 0 | 75.0 | 6.1 |
| BTS 840N | 206 | 259.2 | 100 | 6442 | 84 | 1.23 | 36.67 | 100 | 916 | 84 | 14.19 | 24.51 | 303 | 1816 | 361 | 0 | 74.6 | 3.6 |
| Crystal 355RR | 234 | 261.2 | 101 | 7621 | 99 | 1.18 | 37.23 | 101 | 1083 | 99 | 14.23 | 29.05 | 332 | 1731 | 335 | 0 | 80.7 | 3.3 |
| Crystal 359RR | 242 | 257.6 | 99 | 8489 | 110 | 1.16 | 36.19 | 98 | 1196 | 110 | 14.04 | 32.88 | 371 | 1727 | 307 | 0 | 73.4 | 3.5 |
| Crystal 464RR | 201 | 264.1 | 102 | 7647 | 99 | 1.17 | 38.09 | 104 | 1114 | 102 | 14.40 | 28.61 | 310 | 1755 | 325 | 0 | 74.5 | 5.5 |
| Crystal 465RR | 220 | 260.7 | 100 | 7866 | 102 | 1.16 | 37.08 | 101 | 1125 | 103 | 14.20 | 29.81 | 371 | 1671 | 324 | 0 | 77.7 | 3.8 |
| Crystal 466RR | 230 | 253.0 | 98 | 7645 | 99 | 1.14 | 34.86 | 95 | 1054 | 97 | 13.78 | 29.93 | 358 | 1777 | 282 | 477 | 67.0 | 4.8 |
| Crystal 467RR | 221 | 250.6 | 97 | 7920 | 103 | 1.12 | 34.18 | 93 | 1075 | 99 | 13.64 | 31.56 | 346 | 1691 | 296 | 0 | 72.1 | 5.3 |
| Crystal 468RR | 202 | 255.5 | 98 | 7720 | 100 | 1.14 | 35.62 | 97 | 1070 | 98 | 13.91 | 30.15 | 316 | 1669 | 323 | 0 | 76.2 | 5.7 |
| Crystal 469RR | 249 | 263.6 | 102 | 8262 | 107 | 1.21 | 37.91 | 103 | 1186 | 109 | 14.37 | 31.32 | 328 | 1802 | 339 | 0 | 76.6 | 3.3 |
| Hilleshög 9517RR | 247 | 273.1 | 105 | 7085 | 92 | 1.13 | 40.65 | 111 | 1055 | 97 | 14.80 | 25.85 | 341 | 1689 | 306 | 0 | 73.8 | 6.0 |
| Hilleshög 9528RR | 237 | 261.6 | 101 | 8134 | 106 | 1.05 | 37.35 | 102 | 1164 | 107 | 14.15 | 30.87 | 324 | 1604 | 268 | 0 | 74.6 | 4.2 |
| Hilleshög 9601RR | 203 | 258.7 | 100 | 7097 | 92 | 1.09 | 36.53 | 99 | 1006 | 92 | 14.05 | 27.15 | 386 | 1652 | 275 | 0 | 65.5 | 4.3 |
| Hilleshög 9602RR | 205 | 251.0 | 97 | 8550 | 111 | 1.07 | 34.30 | 93 | 1173 | 108 | 13.63 | 33.83 | 351 | 1624 | 270 | 0 | 78.5 | 2.9 |
| Hilleshög 9604RR | 211 | 252.2 | 97 | 7865 | 102 | 1.03 | 34.64 | 94 | 1081 | 99 | 13.65 | 30.76 | 259 | 1571 | 294 | 0 | 72.1 | 3.3 |
| Hilleshög 9610RR | 245 | 261.3 | 101 | 6861 | 89 | 0.97 | 37.25 | 101 | 973 | 89 | 14.05 | 26.11 | 285 | 1515 | 248 | 0 | 71.5 | 5.9 |
| Hilleshög 9613RR | 224 | 230.3 | 89 | 7726 | 100 | 1.23 | 28.33 | 77 | 961 | 88 | 12.73 | 33.18 | 465 | 1763 | 315 | 0 | 73.2 | 3.5 |
| Hilleshög 9615RR | 231 | 260.9 | 101 | 7119 | 93 | 1.15 | 37.15 | 101 | 1012 | 93 | 14.19 | 27.17 | 337 | 1739 | 297 | 0 | 72.0 | 6.3 |
| Hilleshög 9620RR | 210 | 262.2 | 101 | 8150 | 106 | 1.13 | 37.53 | 102 | 1166 | 107 | 14.23 | 30.83 | 338 | 1658 | 317 | 0 | 78.8 | 4.5 |
| Maribo 109RR | 225 | 273.4 | 105 | 7205 | 94 | 1.07 | 40.75 | 111 | 1077 | 99 | 14.76 | 26.10 | 284 | 1564 | 307 | 0 | 74.0 | 4.1 |
| Maribo 301 | 209 | 267.8 | 103 | 7757 | 101 | 1.15 | 39.14 | 107 | 1139 | 105 | 14.55 | 28.78 | 307 | 1668 | 333 | 0 | 82.5 | 4.3 |
| Maribo 305 | 232 | 256.6 | 99 | 8403 | 109 | 1.02 | 35.92 | 98 | 1182 | 108 | 13.88 | 32.57 | 308 | 1480 | 300 | 0 | 78.4 | 2.5 |
| Maribo 402 | 213 | 259.8 | 100 | 7738 | 101 | 0.99 | 36.85 | 100 | 1094 | 100 | 14.00 | 29.68 | 314 | 1521 | 253 | 0 | 78.0 | 4.5 |
| Maribo 403 | 228 | 261.6 | 101 | 8695 | 113 | 0.96 | 37.33 | 102 | 1243 | 114 | 14.06 | 32.86 | 253 | 1492 | 260 | 0 | 74.0 | 3.8 |
| Maribo MA102RR | 216 | 267.9 | 103 | 8469 | 110 | 0.98 | 39.17 | 107 | 1243 | 114 | 14.41 | 31.45 | 310 | 1561 | 244 | 0 | 72.9 | 5.0 |
| Seedex RR0832 | 227 | 261.4 | 101 | 7466 | 97 | 1.14 | 37.28 | 101 | 1072 | 98 | 14.23 | 28.28 | 316 | 1827 | 273 | 0 | 74.7 | 3.7 |
| Seedex RR842 | 235 | 264.6 | 102 | 7873 | 102 | 1.02 | 38.22 | 104 | 1144 | 105 | 14.28 | 29.41 | 280 | 1612 | 259 | 0 | 76.8 | 2.7 |
| Seedex RR844TT | 218 | 262.7 | 101 | 8148 | 106 | 1.02 | 37.67 | 103 | 1170 | 107 | 14.18 | 30.83 | 235 | 1649 | 270 | 0 | 76.9 | 3.7 |
| Seedex RR846 | 243 | 250.5 | 97 | 7957 | 103 | 1.13 | 34.17 | 93 | 1081 | 99 | 13.64 | 31.52 | 354 | 1626 | 319 | 0 | 75.8 | 3.7 |
| Seedex RR848 | 246 | 259.3 | 100 | 7794 | 101 | 1.06 | 36.69 | 100 | 1109 | 102 | 14.04 | 29.75 | 294 | 1667 | 271 | 0 | 74.2 | 4.0 |
| SV RR241 | 214 | 260.7 | 100 | 7393 | 96 | 1.10 | 37.07 | 101 | 1059 | 97 | 14.15 | 27.93 | 309 | 1613 | 312 | 0 | 76.2 | 3.9 |
| SV RR242TT | 229 | 253.4 | 98 | 7959 | 103 | 1.05 | 35.00 | 95 | 1105 | 101 | 13.74 | 30.93 | 294 | 1616 | 279 | 0 | 73.5 | 3.7 |
| SV RR243 | 207 | 258.3 | 100 | 7571 | 98 | 1.04 | 36.39 | 99 | 1072 | 98 | 13.98 | 29.23 | 312 | 1636 | 261 | 0 | 67.9 | 3.3 |
| SV RR244TT | 240 | 246.2 | 95 | 8049 | 105 | 1.03 | 32.93 | 90 | 1075 | 99 | 13.35 | 32.58 | 282 | 1517 | 298 | 0 | 70.6 | 4.7 |
| SV RR245N | 238 | 257.8 | 99 | 7048 | 92 | 1.08 | 36.26 | 99 | 992 | 91 | 13.99 | 27.21 | 349 | 1608 | 291 | 0 | 77.3 | 5.9 |
| SV RR246 | 248 | 267.9 | 103 | 7008 | 91 | 1.06 | 39.15 | 107 | 1030 | 95 | 14.48 | 25.88 | 284 | 1688 | 265 | 0 | 74.4 | 5.0 |
| SV RR247 | 239 | 271.1 | 104 | 7234 | 94 | 1.15 | 40.08 | 109 | 1067 | 98 | 14.70 | 26.68 | 335 | 1613 | 341 | 0 | 77.7 | 5.4 |
| SV RR248 | 204 | 254.3 | 98 | 7164 | 93 | 1.09 | 35.23 | 96 | 998 | 92 | 13.82 | 27.90 | 301 | 1672 | 288 | 0 | 73.4 | 5.8 |
| SV RR333 | 212 | 261.5 | 101 | 7557 | 98 | 1.14 | 37.32 | 102 | 1080 | 99 | 14.22 | 28.72 | 289 | 1631 | 333 | 0 | 72.7 | 3.7 |
| SV RR336 | 226 | 256.5 | 99 | 7500 | 97 | 1.06 | 35.91 | 98 | 1044 | 96 | 13.89 | 29.10 | 297 | 1609 | 295 | 0 | 74.2 | 3.1 |
| Root Aphid Susc Chk | 250 | 260.2 | 100 | 6866 | 89 | 1.14 | 36.95 | 101 | 977 | 90 | 14.15 | 26.25 | 296 | 1820 | 280 | 0 | 70.8 | 5.5 |
| Hilleshög 4012RR(Check) | 251 | 256.5 | 99 | 7618 | 99 | 1.06 | 35.89 | 98 | 1071 | 98 | 13.90 | 29.49 | 376 | 1565 | 269 | 0 | 74.9 | 4.6 |
| Crystal 875RR(Check) | 252 | 252.4 | 97 | 7475 | 97 | 1.23 | 34.71 | 94 | 1029 | 94 | 13.84 | 29.54 | 379 | 1709 | 357 | 0 | 74.8 | 3.5 |
| BTS 80RR52(Check) | 253 | 269.7 | 104 | 7711 | 100 | 1.12 | 39.68 | 108 | 1138 | 104 | 14.62 | 28.43 | 256 | 1704 | 313 | 0 | 74.3 | 3.9 |
| BTS 81RR17(Check) | 254 | 261.7 | 101 | 7725 | 100 | 1.20 | 37.37 | 102 | 1110 | 102 | 14.29 | 29.08 | 286 | 1812 | 351 | 0 | 75.9 | 4.9 |
| Trial Mean | | 259.5 | | 7693 | | 1.10 | 36.74 | | 1090 | | 14.09 | 29.46 | 316 | 1665 | 302 | | 74.8 | 4.3 |
| Coeff. of Var. (%) | | 2.8 | | 4.7 | | 5.6 | 5.7 | | 6.8 | | 2.5 | 4.0 | 18.1 | 6.0 | 10.6 | | 7.1 | 29.0 |
| Mean LSD (0.05) | | 11.9 | | 566 | | 0.10 | 3.41 | | 115 | | 0.57 | 1.93 | 91 | 147 | 50 | | 7.8 | 1.9 |
| Mean LSD (0.01) | | 15.7 | | 748 | | 0.13 | 4.51 | | 152 | | 0.76 | 2.54 | 120 | 193 | 67 | | 10.3 | 2.4 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ns | ** |

* 2014 Data from Casselton ND 10/22/2014 08:53 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148301

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 19.
2014 Performance of Varieties - ACSC Experimental RR Official Trial
Ada MN - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 338.5 | 106 | 11729 | 102 | 0.98 | 61.88 | 110 | 2144 | 107 | 17.87 | 34.78 | 134 | 1461 | 319 | 95 | 78.5 | 5.9 |
| BTS 8354 | 241 | 318.6 | 100 | 10585 | 92 | 1.15 | 55.55 | 99 | 1835 | 91 | 17.09 | 33.37 | 145 | 1588 | 426 | 0 | 81.2 | 5.9 |
| BTS 8363 | 233 | 314.5 | 98 | 12200 | 106 | 0.97 | 54.24 | 97 | 2116 | 105 | 16.67 | 38.43 | 129 | 1479 | 307 | 194 | 72.3 | 5.1 |
| BTS 8390 | 208 | 308.5 | 96 | 12732 | 111 | 1.00 | 52.35 | 93 | 2153 | 107 | 16.40 | 41.56 | 170 | 1592 | 293 | 0 | 76.0 | 6.3 |
| BTS 83CN | 223 | 315.6 | 99 | 11391 | 99 | 0.97 | 54.57 | 97 | 1967 | 98 | 16.72 | 36.28 | 157 | 1426 | 317 | 0 | 74.5 | 5.4 |
| BTS 8402 | 215 | 318.0 | 99 | 11600 | 101 | 0.97 | 55.33 | 99 | 2015 | 100 | 16.89 | 36.40 | 185 | 1448 | 313 | 0 | 86.1 | 3.3 |
| BTS 8404 | 244 | 328.4 | 103 | 11051 | 96 | 0.99 | 58.65 | 105 | 1962 | 98 | 17.40 | 34.16 | 111 | 1433 | 352 | 0 | 75.7 | 4.0 |
| BTS 8405 | 219 | 338.9 | 106 | 12418 | 108 | 0.95 | 61.99 | 111 | 2258 | 112 | 17.89 | 37.17 | 107 | 1422 | 332 | 0 | 68.6 | 5.4 |
| BTS 8406 | 236 | 316.6 | 99 | 10998 | 95 | 1.10 | 54.88 | 98 | 1913 | 95 | 16.92 | 34.60 | 147 | 1550 | 388 | 0 | 64.9 | 3.5 |
| BTS 8408 | 217 | 325.8 | 102 | 11285 | 98 | 1.20 | 57.83 | 103 | 2000 | 99 | 17.48 | 34.78 | 146 | 1617 | 461 | 0 | 70.8 | 6.7 |
| BTS 840N | 206 | 309.8 | 97 | 10877 | 94 | 1.13 | 52.76 | 94 | 1846 | 92 | 16.63 | 35.10 | 126 | 1632 | 397 | 0 | 88.6 | 4.5 |
| Crystal 355RR | 234 | 322.7 | 101 | 11320 | 98 | 1.13 | 56.85 | 101 | 1985 | 99 | 17.24 | 35.40 | 141 | 1572 | 404 | 0 | 75.3 | 4.4 |
| Crystal 359RR | 242 | 310.6 | 97 | 12230 | 106 | 1.11 | 53.01 | 95 | 2089 | 104 | 16.61 | 39.22 | 149 | 1636 | 368 | 0 | 68.3 | 5.5 |
| Crystal 464RR | 201 | 323.4 | 101 | 12079 | 105 | 1.13 | 57.08 | 102 | 2128 | 106 | 17.30 | 37.32 | 148 | 1649 | 380 | 0 | 84.2 | 5.1 |
| Crystal 465RR | 220 | 326.5 | 102 | 11254 | 98 | 0.99 | 58.05 | 104 | 1991 | 99 | 17.32 | 34.78 | 165 | 1508 | 312 | 0 | 86.1 | 5.2 |
| Crystal 466RR | 230 | 320.4 | 100 | 12374 | 107 | 1.02 | 56.12 | 100 | 2153 | 107 | 17.05 | 38.91 | 136 | 1507 | 346 | 383 | 68.6 | 4.6 |
| Crystal 467RR | 221 | 319.2 | 100 | 11646 | 101 | 0.97 | 55.72 | 99 | 2032 | 101 | 16.93 | 36.58 | 162 | 1512 | 305 | 0 | 76.0 | 6.0 |
| Crystal 468RR | 202 | 315.3 | 98 | 11943 | 104 | 1.00 | 54.49 | 97 | 2067 | 103 | 16.75 | 37.88 | 164 | 1490 | 322 | 0 | 79.5 | 5.3 |
| Crystal 469RR | 249 | 314.5 | 98 | 12186 | 106 | 1.17 | 54.25 | 97 | 2105 | 105 | 16.89 | 38.62 | 150 | 1616 | 424 | 0 | 76.2 | 4.6 |
| Hilleshög 9517RR | 247 | 325.3 | 102 | 10346 | 90 | 1.12 | 57.67 | 103 | 1831 | 91 | 17.38 | 31.84 | 171 | 1642 | 366 | 0 | 67.8 | 5.2 |
| Hilleshög 9528RR | 237 | 329.2 | 103 | 12183 | 106 | 0.90 | 58.89 | 105 | 2172 | 108 | 17.34 | 37.28 | 119 | 1376 | 292 | 0 | 77.7 | 4.8 |
| Hilleshög 9601RR | 203 | 304.3 | 95 | 10269 | 89 | 1.16 | 51.03 | 91 | 1714 | 85 | 16.39 | 33.75 | 237 | 1641 | 379 | 0 | 57.9 | 3.4 |
| Hilleshög 9602RR | 205 | 315.4 | 99 | 12255 | 106 | 0.89 | 54.51 | 97 | 2115 | 105 | 16.63 | 39.12 | 141 | 1464 | 253 | 0 | 86.6 | 4.9 |
| Hilleshög 9604RR | 211 | 315.4 | 99 | 12532 | 109 | 0.94 | 54.53 | 97 | 2154 | 107 | 16.71 | 40.14 | 140 | 1569 | 274 | 0 | 86.6 | 3.9 |
| Hilleshög 9610RR | 245 | 313.6 | 98 | 10702 | 93 | 0.97 | 53.95 | 96 | 1846 | 92 | 16.62 | 34.16 | 176 | 1513 | 289 | 0 | 61.4 | 3.3 |
| Hilleshög 9613RR | 224 | 292.2 | 91 | 11504 | 100 | 1.25 | 47.18 | 84 | 1860 | 92 | 15.87 | 39.27 | 199 | 1663 | 457 | 0 | 83.9 | 5.0 |
| Hilleshög 9615RR | 231 | 322.8 | 101 | 11267 | 98 | 1.17 | 56.87 | 101 | 1990 | 99 | 17.30 | 34.68 | 183 | 1592 | 413 | 0 | 80.0 | 6.4 |
| Hilleshög 9620RR | 210 | 309.3 | 97 | 11494 | 100 | 1.15 | 52.60 | 94 | 1947 | 97 | 16.61 | 37.58 | 183 | 1616 | 394 | 0 | 80.9 | 6.6 |
| Maribo 109RR | 225 | 337.5 | 105 | 10744 | 93 | 0.99 | 61.53 | 110 | 1948 | 97 | 17.86 | 32.08 | 120 | 1491 | 336 | 0 | 62.4 | 3.6 |
| Maribo 301 | 209 | 336.1 | 105 | 11334 | 98 | 1.03 | 61.09 | 109 | 2052 | 102 | 17.83 | 33.84 | 132 | 1613 | 332 | 0 | 73.3 | 6.7 |
| Maribo 305 | 232 | 315.5 | 99 | 12105 | 105 | 0.87 | 54.55 | 97 | 2088 | 104 | 16.63 | 38.58 | 147 | 1318 | 261 | 0 | 82.9 | 3.4 |
| Maribo 402 | 213 | 319.7 | 100 | 11399 | 99 | 0.94 | 55.89 | 100 | 1990 | 99 | 16.91 | 35.57 | 130 | 1482 | 289 | 0 | 85.2 | 5.9 |
| Maribo 403 | 228 | 322.0 | 101 | 13396 | 116 | 0.86 | 56.62 | 101 | 2352 | 117 | 16.97 | 41.50 | 120 | 1439 | 240 | 0 | 75.0 | 3.2 |
| Maribo MA102RR | 216 | 325.9 | 102 | 12236 | 106 | 0.95 | 57.85 | 103 | 2159 | 107 | 17.23 | 38.15 | 128 | 1385 | 328 | 0 | 71.5 | 3.9 |
| Seedex RR0832 | 227 | 325.7 | 102 | 11577 | 100 | 0.92 | 57.79 | 103 | 2046 | 102 | 17.20 | 35.74 | 131 | 1485 | 280 | 0 | 73.3 | 7.8 |
| Seedex RR842 | 235 | 331.8 | 104 | 12354 | 107 | 0.89 | 59.73 | 107 | 2219 | 110 | 17.48 | 37.03 | 114 | 1467 | 267 | 0 | 66.3 | 4.0 |
| Seedex RR844TT | 218 | 323.3 | 101 | 12316 | 107 | 0.92 | 57.04 | 102 | 2168 | 108 | 17.08 | 38.32 | 110 | 1525 | 273 | 0 | 68.3 | 3.8 |
| Seedex RR846 | 243 | 306.0 | 96 | 11106 | 96 | 1.13 | 51.54 | 92 | 1860 | 92 | 16.43 | 36.57 | 182 | 1612 | 378 | 0 | 60.6 | 3.0 |
| Seedex RR848 | 246 | 323.6 | 101 | 11449 | 99 | 0.87 | 57.14 | 102 | 2006 | 100 | 17.04 | 35.84 | 120 | 1387 | 269 | 0 | 65.6 | 3.6 |
| SV RR241 | 214 | 312.4 | 98 | 10593 | 92 | 0.90 | 53.58 | 96 | 1817 | 90 | 16.52 | 33.92 | 131 | 1448 | 274 | 0 | 66.8 | 4.8 |
| SV RR242TT | 229 | 312.7 | 98 | 12493 | 108 | 0.91 | 53.69 | 96 | 2142 | 107 | 16.55 | 39.99 | 121 | 1477 | 280 | 0 | 73.8 | 3.0 |
| SV RR243 | 207 | 332.8 | 104 | 11041 | 96 | 0.88 | 60.05 | 107 | 1990 | 99 | 17.49 | 33.29 | 120 | 1472 | 243 | 0 | 63.6 | 3.5 |
| SV RR244TT | 240 | 299.0 | 93 | 12355 | 107 | 1.01 | 49.29 | 88 | 2024 | 101 | 15.95 | 41.77 | 127 | 1538 | 328 | 0 | 62.4 | 2.8 |
| SV RR245N | 238 | 320.7 | 100 | 11014 | 96 | 1.01 | 56.22 | 100 | 1930 | 96 | 17.05 | 34.32 | 142 | 1438 | 353 | 0 | 69.1 | 6.0 |
| SV RR246 | 248 | 337.6 | 105 | 11243 | 98 | 0.92 | 61.56 | 110 | 2051 | 102 | 17.78 | 33.21 | 114 | 1522 | 269 | 0 | 73.0 | 5.6 |
| SV RR247 | 239 | 339.4 | 106 | 10381 | 90 | 0.94 | 62.17 | 111 | 1907 | 95 | 17.88 | 30.50 | 122 | 1430 | 300 | 0 | 56.4 | 4.9 |
| SV RR248 | 204 | 314.5 | 98 | 10622 | 92 | 0.95 | 54.25 | 97 | 1827 | 91 | 16.66 | 33.90 | 115 | 1617 | 272 | 0 | 58.2 | 5.6 |
| SV RR333 | 212 | 317.4 | 99 | 11682 | 101 | 0.98 | 55.14 | 98 | 2025 | 101 | 16.83 | 36.80 | 140 | 1559 | 293 | 0 | 63.6 | 4.5 |
| SV RR336 | 226 | 323.9 | 101 | 11479 | 100 | 0.89 | 57.23 | 102 | 2023 | 101 | 17.07 | 35.66 | 114 | 1342 | 298 | 0 | 72.8 | 4.0 |
| Root Aphid Susc Chk | 250 | 333.6 | 104 | 10385 | 90 | 0.88 | 60.29 | 108 | 1870 | 93 | 17.55 | 31.16 | 114 | 1435 | 255 | 0 | 56.4 | 5.9 |
| Hilleshög 4012RR(Check) | 251 | 313.8 | 98 | 10749 | 93 | 1.05 | 54.02 | 96 | 1849 | 92 | 16.73 | 34.23 | 177 | 1474 | 360 | 0 | 73.0 | 6.7 |
| Crystal 875RR(Check) | 252 | 317.8 | 99 | 11033 | 96 | 1.14 | 55.29 | 99 | 1924 | 96 | 17.02 | 34.62 | 175 | 1602 | 394 | 0 | 80.2 | 6.7 |
| BTS 80RR52(Check) | 253 | 326.5 | 102 | 11780 | 102 | 0.96 | 58.04 | 104 | 2086 | 104 | 17.28 | 36.41 | 101 | 1514 | 314 | 0 | 77.0 | 5.7 |
| BTS 81RR17(Check) | 254 | 307.8 | 96 | 10845 | 94 | 1.22 | 52.12 | 93 | 1837 | 91 | 16.63 | 35.00 | 152 | 1604 | 456 | 0 | 85.2 | 6.5 |
| Trial Mean | | 320.2 | | 11521 | | 1.01 | 56.05 | | 2011 | | 17.01 | 36.13 | 143 | 1516 | 330 | | 73.2 | 4.9 |
| Coeff. of Var. (%) | | 2.8 | | 6.3 | | 7.7 | 5.0 | | 7.3 | | 2.5 | 6.1 | 18.4 | 5.4 | 14.5 | | 10.4 | 27.0 |
| Mean LSD (0.05) | | 14.0 | | 1090 | | 0.13 | 4.43 | | 227 | | 0.65 | 3.14 | 40 | 123 | 79 | | 10.6 | 2.0 |
| Mean LSD (0.01) | | 18.5 | | 1439 | | 0.17 | 5.86 | | 300 | | 0.86 | 4.15 | 53 | 162 | 105 | | 14.0 | 2.7 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Ada MN

10/22/2014 09:22

Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

Trial # = 148303

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 20.
2014 Performance of Varieties - ACSC Experimental RR Official Trial
Ada MN - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 338.5 | 106 | 11729 | 102 | 0.98 | 61.88 | 110 | 2144 | 107 | 17.87 | 34.78 | 134 | 1461 | 319 | 95 | 78.5 | 5.9 |
| BTS 8354 | 241 | 318.6 | 100 | 10585 | 92 | 1.15 | 55.55 | 99 | 1835 | 91 | 17.09 | 33.37 | 145 | 1588 | 426 | 0 | 81.2 | 5.9 |
| BTS 8363 | 233 | 314.5 | 98 | 12200 | 106 | 0.97 | 54.24 | 97 | 2116 | 105 | 16.67 | 38.43 | 129 | 1479 | 307 | 194 | 72.3 | 5.1 |
| BTS 8390 | 208 | 308.5 | 96 | 12732 | 111 | 1.00 | 52.35 | 93 | 2153 | 107 | 16.40 | 41.56 | 170 | 1592 | 293 | 0 | 76.0 | 6.3 |
| BTS 83CN | 223 | 315.6 | 99 | 11391 | 99 | 0.97 | 54.57 | 97 | 1967 | 98 | 16.72 | 36.28 | 157 | 1426 | 317 | 0 | 74.5 | 5.4 |
| BTS 8402 | 215 | 318.0 | 99 | 11600 | 101 | 0.97 | 55.33 | 99 | 2015 | 100 | 16.89 | 36.40 | 185 | 1448 | 313 | 0 | 86.1 | 3.3 |
| BTS 8404 | 244 | 328.4 | 103 | 11051 | 96 | 0.99 | 58.65 | 105 | 1962 | 98 | 17.40 | 34.16 | 111 | 1433 | 352 | 0 | 75.7 | 4.0 |
| BTS 8405 | 219 | 338.9 | 106 | 12418 | 108 | 0.95 | 61.99 | 111 | 2258 | 112 | 17.89 | 37.17 | 107 | 1422 | 332 | 0 | 68.6 | 5.4 |
| BTS 8406 | 236 | 316.6 | 99 | 10998 | 95 | 1.10 | 54.88 | 98 | 1913 | 95 | 16.92 | 34.60 | 147 | 1550 | 388 | 0 | 64.9 | 3.5 |
| BTS 8408 | 217 | 325.8 | 102 | 11285 | 98 | 1.20 | 57.83 | 103 | 2000 | 99 | 17.48 | 34.78 | 146 | 1617 | 461 | 0 | 70.8 | 6.7 |
| BTS 840N | 206 | 309.8 | 97 | 10877 | 94 | 1.13 | 52.76 | 94 | 1846 | 92 | 16.63 | 35.10 | 126 | 1632 | 397 | 0 | 88.6 | 4.5 |
| Crystal 355RR | 234 | 322.7 | 101 | 11320 | 98 | 1.13 | 56.85 | 101 | 1985 | 99 | 17.24 | 35.40 | 141 | 1572 | 404 | 0 | 75.3 | 4.4 |
| Crystal 359RR | 242 | 310.6 | 97 | 12230 | 106 | 1.11 | 53.01 | 95 | 2089 | 104 | 16.61 | 39.22 | 149 | 1636 | 368 | 0 | 68.3 | 5.5 |
| Crystal 464RR | 201 | 323.4 | 101 | 12079 | 105 | 1.13 | 57.08 | 102 | 2128 | 106 | 17.30 | 37.32 | 148 | 1649 | 380 | 0 | 84.2 | 5.1 |
| Crystal 465RR | 220 | 326.5 | 102 | 11254 | 98 | 0.99 | 58.05 | 104 | 1991 | 99 | 17.32 | 34.78 | 165 | 1508 | 312 | 0 | 86.1 | 5.2 |
| Crystal 466RR | 230 | 320.4 | 100 | 12374 | 107 | 1.02 | 56.12 | 100 | 2153 | 107 | 17.05 | 38.91 | 136 | 1507 | 346 | 383 | 68.6 | 4.6 |
| Crystal 467RR | 221 | 319.2 | 100 | 11646 | 101 | 0.97 | 55.72 | 99 | 2032 | 101 | 16.93 | 36.58 | 162 | 1512 | 305 | 0 | 76.0 | 6.0 |
| Crystal 468RR | 202 | 315.3 | 98 | 11943 | 104 | 1.00 | 54.49 | 97 | 2067 | 103 | 16.75 | 37.88 | 164 | 1490 | 322 | 0 | 79.5 | 5.3 |
| Crystal 469RR | 249 | 314.5 | 98 | 12186 | 106 | 1.17 | 54.25 | 97 | 2105 | 105 | 16.89 | 38.62 | 150 | 1616 | 424 | 0 | 76.2 | 4.6 |
| Hilleshög 9517RR | 247 | 325.3 | 102 | 10346 | 90 | 1.12 | 57.67 | 103 | 1831 | 91 | 17.38 | 31.84 | 171 | 1642 | 366 | 0 | 67.8 | 5.2 |
| Hilleshög 9528RR | 237 | 329.2 | 103 | 12183 | 106 | 0.90 | 58.89 | 105 | 2172 | 108 | 17.34 | 37.28 | 119 | 1376 | 292 | 0 | 77.7 | 4.8 |
| Hilleshög 9601RR | 203 | 304.3 | 95 | 10269 | 89 | 1.16 | 51.03 | 91 | 1714 | 85 | 16.39 | 33.75 | 237 | 1641 | 379 | 0 | 57.9 | 3.4 |
| Hilleshög 9602RR | 205 | 315.4 | 99 | 12255 | 106 | 0.89 | 54.51 | 97 | 2115 | 105 | 16.63 | 39.12 | 141 | 1464 | 253 | 0 | 86.6 | 4.9 |
| Hilleshög 9604RR | 211 | 315.4 | 99 | 12532 | 109 | 0.94 | 54.53 | 97 | 2154 | 107 | 16.71 | 40.14 | 140 | 1569 | 274 | 0 | 86.6 | 3.9 |
| Hilleshög 9610RR | 245 | 313.6 | 98 | 10702 | 93 | 0.97 | 53.95 | 96 | 1846 | 92 | 16.62 | 34.16 | 176 | 1513 | 289 | 0 | 61.4 | 3.3 |
| Hilleshög 9613RR | 224 | 292.2 | 91 | 11504 | 100 | 1.25 | 47.18 | 84 | 1860 | 92 | 15.87 | 39.27 | 199 | 1663 | 457 | 0 | 83.9 | 5.0 |
| Hilleshög 9615RR | 231 | 322.8 | 101 | 11267 | 98 | 1.17 | 56.87 | 101 | 1990 | 99 | 17.30 | 34.68 | 183 | 1592 | 413 | 0 | 80.0 | 6.4 |
| Hilleshög 9620RR | 210 | 309.3 | 97 | 11494 | 100 | 1.15 | 52.60 | 94 | 1947 | 97 | 16.61 | 37.58 | 183 | 1616 | 394 | 0 | 80.9 | 6.6 |
| Maribo 109RR | 225 | 337.5 | 105 | 10744 | 93 | 0.99 | 61.53 | 110 | 1948 | 97 | 17.86 | 32.08 | 120 | 1491 | 336 | 0 | 62.4 | 3.6 |
| Maribo 301 | 209 | 336.1 | 105 | 11334 | 98 | 1.03 | 61.09 | 109 | 2052 | 102 | 17.83 | 33.84 | 132 | 1613 | 332 | 0 | 73.3 | 6.7 |
| Maribo 305 | 232 | 315.5 | 99 | 12105 | 105 | 0.87 | 54.55 | 97 | 2088 | 104 | 16.63 | 38.58 | 147 | 1318 | 261 | 0 | 82.9 | 3.4 |
| Maribo 402 | 213 | 319.7 | 100 | 11399 | 99 | 0.94 | 55.89 | 100 | 1990 | 99 | 16.91 | 35.57 | 130 | 1482 | 289 | 0 | 85.2 | 5.9 |
| Maribo 403 | 228 | 322.0 | 101 | 13396 | 116 | 0.86 | 56.62 | 101 | 2352 | 117 | 16.97 | 41.50 | 120 | 1439 | 240 | 0 | 75.0 | 3.2 |
| Maribo MA102RR | 216 | 325.9 | 102 | 12236 | 106 | 0.95 | 57.85 | 103 | 2159 | 107 | 17.23 | 38.15 | 128 | 1385 | 328 | 0 | 71.5 | 3.9 |
| Seedex RR0832 | 227 | 325.7 | 102 | 11577 | 100 | 0.92 | 57.79 | 103 | 2046 | 102 | 17.20 | 35.74 | 131 | 1485 | 280 | 0 | 73.3 | 7.8 |
| Seedex RR842 | 235 | 331.8 | 104 | 12354 | 107 | 0.89 | 59.73 | 107 | 2219 | 110 | 17.48 | 37.03 | 114 | 1467 | 267 | 0 | 66.3 | 4.0 |
| Seedex RR844TT | 218 | 323.3 | 101 | 12316 | 107 | 0.92 | 57.04 | 102 | 2168 | 108 | 17.08 | 38.32 | 110 | 1525 | 273 | 0 | 68.3 | 3.8 |
| Seedex RR846 | 243 | 306.0 | 96 | 11106 | 96 | 1.13 | 51.54 | 92 | 1860 | 92 | 16.43 | 36.57 | 182 | 1612 | 378 | 0 | 60.6 | 3.0 |
| Seedex RR848 | 246 | 323.6 | 101 | 11449 | 99 | 0.87 | 57.14 | 102 | 2006 | 100 | 17.04 | 35.84 | 120 | 1387 | 269 | 0 | 65.6 | 3.6 |
| SV RR241 | 214 | 312.4 | 98 | 10593 | 92 | 0.90 | 53.58 | 96 | 1817 | 90 | 16.52 | 33.92 | 131 | 1448 | 274 | 0 | 66.8 | 4.8 |
| SV RR242TT | 229 | 312.7 | 98 | 12493 | 108 | 0.91 | 53.69 | 96 | 2142 | 107 | 16.55 | 39.99 | 121 | 1477 | 280 | 0 | 73.8 | 3.0 |
| SV RR243 | 207 | 332.8 | 104 | 11041 | 96 | 0.88 | 60.05 | 107 | 1990 | 99 | 17.49 | 33.29 | 120 | 1472 | 243 | 0 | 63.6 | 3.5 |
| SV RR244TT | 240 | 299.0 | 93 | 12355 | 107 | 1.01 | 49.29 | 88 | 2024 | 101 | 15.95 | 41.77 | 127 | 1538 | 328 | 0 | 62.4 | 2.8 |
| SV RR245N | 238 | 320.7 | 100 | 11014 | 96 | 1.01 | 56.22 | 100 | 1930 | 96 | 17.05 | 34.32 | 142 | 1438 | 353 | 0 | 69.1 | 6.0 |
| SV RR246 | 248 | 337.6 | 105 | 11243 | 98 | 0.92 | 61.56 | 110 | 2051 | 102 | 17.78 | 33.21 | 114 | 1522 | 269 | 0 | 73.0 | 5.6 |
| SV RR247 | 239 | 339.4 | 106 | 10381 | 90 | 0.94 | 62.17 | 111 | 1907 | 95 | 17.88 | 30.50 | 122 | 1430 | 300 | 0 | 56.4 | 4.9 |
| SV RR248 | 204 | 314.5 | 98 | 10622 | 92 | 0.95 | 54.25 | 97 | 1827 | 91 | 16.66 | 33.90 | 115 | 1617 | 272 | 0 | 58.2 | 5.6 |
| SV RR333 | 212 | 317.4 | 99 | 11682 | 101 | 0.98 | 55.14 | 98 | 2025 | 101 | 16.83 | 36.80 | 140 | 1559 | 293 | 0 | 63.6 | 4.5 |
| SV RR336 | 226 | 323.9 | 101 | 11479 | 100 | 0.89 | 57.23 | 102 | 2023 | 101 | 17.07 | 35.66 | 114 | 1342 | 298 | 0 | 72.8 | 4.0 |
| Root Aphid Susc Chk | 250 | 333.6 | 104 | 10385 | 90 | 0.88 | 60.29 | 108 | 1870 | 93 | 17.55 | 31.16 | 114 | 1435 | 255 | 0 | 56.4 | 5.9 |
| Hilleshög 4012RR(Check) | 251 | 313.8 | 98 | 10749 | 93 | 1.05 | 54.02 | 96 | 1849 | 92 | 16.73 | 34.23 | 177 | 1474 | 360 | 0 | 73.0 | 6.7 |
| Crystal 875RR(Check) | 252 | 317.8 | 99 | 11033 | 96 | 1.14 | 55.29 | 99 | 1924 | 96 | 17.02 | 34.62 | 175 | 1602 | 394 | 0 | 80.2 | 6.7 |
| BTS 80RR52(Check) | 253 | 326.5 | 102 | 11780 | 102 | 0.96 | 58.04 | 104 | 2086 | 104 | 17.28 | 36.41 | 101 | 1514 | 314 | 0 | 77.0 | 5.7 |
| BTS 81RR17(Check) | 254 | 307.8 | 96 | 10845 | 94 | 1.22 | 52.12 | 93 | 1837 | 91 | 16.63 | 35.00 | 152 | 1604 | 456 | 0 | 85.2 | 6.5 |
| Trial Mean | | 320.2 | | 11521 | | 1.01 | 56.05 | | 2011 | | 17.01 | 36.13 | 143 | 1516 | 330 | | 73.2 | 4.9 |
| Coeff. of Var. (%) | | 2.8 | | 6.3 | | 7.7 | 5.0 | | 7.3 | | 2.5 | 6.1 | 18.4 | 5.4 | 14.5 | | 10.4 | 27.0 |
| Mean LSD (0.05) | | 14.0 | | 1090 | | 0.13 | 4.43 | | 227 | | 0.65 | 3.14 | 40 | 123 | 79 | | 10.6 | 2.0 |
| Mean LSD (0.01) | | 18.5 | | 1439 | | 0.17 | 5.86 | | 300 | | 0.86 | 4.15 | 53 | 162 | 105 | | 14.0 | 2.7 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Ada MN 10/22/2014 09:22 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148303

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 21.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

Crookston MN - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 330.6 | 104 | 8965 | 95 | 1.10 | 59.26 | 107 | 1604 | 98 | 17.64 | 27.08 | 236 | 1424 | 390 | 0 | 81.0 | 4.0 |
| BTS 8354 | 241 | 317.0 | 100 | 8940 | 95 | 1.22 | 55.07 | 100 | 1550 | 94 | 17.08 | 28.42 | 277 | 1562 | 428 | 0 | 71.7 | 4.6 |
| BTS 8363 | 233 | 319.5 | 101 | 10424 | 110 | 1.09 | 55.85 | 101 | 1818 | 111 | 17.08 | 32.56 | 213 | 1458 | 377 | 95 | 78.8 | 3.0 |
| BTS 8390 | 208 | 293.0 | 92 | 9707 | 103 | 1.24 | 47.60 | 86 | 1579 | 96 | 15.88 | 33.12 | 365 | 1611 | 384 | 0 | 80.0 | 4.6 |
| BTS 83CN | 223 | 322.0 | 101 | 9424 | 100 | 0.99 | 56.58 | 103 | 1648 | 100 | 17.11 | 29.45 | 201 | 1437 | 311 | 0 | 82.5 | 3.0 |
| BTS 8402 | 215 | 318.5 | 100 | 9364 | 99 | 1.19 | 55.51 | 101 | 1626 | 99 | 17.12 | 29.52 | 270 | 1472 | 431 | 0 | 85.2 | 3.3 |
| BTS 8404 | 244 | 325.4 | 103 | 9691 | 102 | 1.12 | 57.64 | 105 | 1718 | 105 | 17.40 | 29.76 | 189 | 1459 | 419 | 0 | 77.5 | 4.0 |
| BTS 8405 | 219 | 335.9 | 106 | 9726 | 103 | 1.06 | 60.94 | 111 | 1763 | 107 | 17.87 | 28.92 | 170 | 1427 | 386 | 0 | 83.5 | 3.9 |
| BTS 8406 | 236 | 332.0 | 105 | 9691 | 102 | 1.07 | 59.74 | 108 | 1740 | 106 | 17.69 | 29.21 | 203 | 1485 | 363 | 0 | 73.7 | 3.0 |
| BTS 8408 | 217 | 325.2 | 102 | 9310 | 98 | 1.36 | 57.58 | 104 | 1645 | 100 | 17.60 | 28.61 | 261 | 1671 | 510 | 0 | 74.0 | 6.0 |
| BTS 840N | 206 | 315.8 | 100 | 7852 | 83 | 1.26 | 54.67 | 99 | 1360 | 83 | 17.05 | 24.85 | 245 | 1608 | 462 | 0 | 81.2 | 4.0 |
| Crystal 355RR | 234 | 324.2 | 102 | 9334 | 99 | 1.23 | 57.28 | 104 | 1649 | 101 | 17.43 | 28.77 | 232 | 1543 | 457 | 0 | 80.6 | 4.6 |
| Crystal 359RR | 242 | 311.5 | 98 | 10280 | 109 | 1.25 | 53.33 | 97 | 1767 | 108 | 16.82 | 32.75 | 285 | 1533 | 454 | 0 | 77.3 | 3.4 |
| Crystal 464RR | 201 | 322.7 | 102 | 9272 | 98 | 1.21 | 56.83 | 103 | 1635 | 100 | 17.35 | 28.63 | 245 | 1571 | 425 | 0 | 82.8 | 5.6 |
| Crystal 465RR | 220 | 313.7 | 99 | 9302 | 98 | 1.29 | 54.03 | 98 | 1600 | 98 | 16.97 | 29.72 | 342 | 1557 | 453 | 0 | 84.8 | 3.7 |
| Crystal 466RR | 230 | 320.0 | 101 | 9806 | 104 | 1.19 | 56.00 | 102 | 1714 | 105 | 17.19 | 30.72 | 245 | 1527 | 422 | 765 | 72.6 | 3.5 |
| Crystal 467RR | 221 | 310.1 | 98 | 10274 | 109 | 1.21 | 52.91 | 96 | 1751 | 107 | 16.71 | 33.03 | 307 | 1594 | 389 | 0 | 75.8 | 3.6 |
| Crystal 468RR | 202 | 309.4 | 97 | 9655 | 102 | 1.07 | 52.68 | 96 | 1650 | 101 | 16.54 | 31.06 | 249 | 1415 | 358 | 0 | 80.6 | 3.9 |
| Crystal 469RR | 249 | 320.2 | 101 | 10076 | 107 | 1.26 | 56.06 | 102 | 1757 | 107 | 17.26 | 31.71 | 234 | 1679 | 447 | 0 | 72.0 | 3.5 |
| Hilleshög 9517RR | 247 | 323.8 | 102 | 8481 | 90 | 1.26 | 57.17 | 104 | 1500 | 91 | 17.45 | 26.11 | 315 | 1613 | 422 | 0 | 70.7 | 4.7 |
| Hilleshög 9528RR | 237 | 331.6 | 105 | 9900 | 105 | 1.05 | 59.61 | 108 | 1774 | 108 | 17.63 | 30.07 | 191 | 1407 | 367 | 0 | 75.4 | 3.9 |
| Hilleshög 9601RR | 203 | 306.5 | 97 | 8532 | 90 | 1.27 | 51.78 | 94 | 1438 | 88 | 16.59 | 27.73 | 418 | 1493 | 419 | 0 | 60.2 | 3.4 |
| Hilleshög 9602RR | 205 | 312.0 | 98 | 9799 | 104 | 1.07 | 53.50 | 97 | 1670 | 102 | 16.68 | 31.74 | 249 | 1491 | 342 | 0 | 81.3 | 5.8 |
| Hilleshög 9604RR | 211 | 297.5 | 94 | 9066 | 96 | 1.26 | 49.00 | 89 | 1490 | 91 | 16.12 | 30.45 | 277 | 1551 | 458 | 0 | 74.6 | 3.4 |
| Hilleshög 9610RR | 245 | 304.0 | 96 | 8503 | 90 | 1.18 | 51.01 | 93 | 1415 | 86 | 16.37 | 28.17 | 348 | 1438 | 388 | 0 | 69.4 | 5.3 |
| Hilleshög 9613RR | 224 | 291.6 | 92 | 8886 | 94 | 1.45 | 47.16 | 86 | 1437 | 88 | 16.01 | 30.54 | 345 | 1730 | 536 | 0 | 75.5 | 3.8 |
| Hilleshög 9615RR | 231 | 304.9 | 96 | 9360 | 99 | 1.40 | 51.30 | 93 | 1580 | 96 | 16.62 | 30.72 | 370 | 1570 | 522 | 0 | 70.4 | 5.4 |
| Hilleshög 9620RR | 210 | 313.9 | 99 | 9300 | 98 | 1.21 | 54.08 | 98 | 1594 | 97 | 16.91 | 29.88 | 276 | 1543 | 426 | 0 | 79.7 | 4.0 |
| Maribo 109RR | 225 | 343.3 | 108 | 8984 | 95 | 1.05 | 63.20 | 115 | 1643 | 100 | 18.22 | 26.40 | 181 | 1418 | 372 | 0 | 76.5 | 3.1 |
| Maribo 301 | 209 | 324.7 | 102 | 9621 | 102 | 1.21 | 57.44 | 104 | 1699 | 104 | 17.44 | 29.83 | 279 | 1543 | 422 | 0 | 77.4 | 3.8 |
| Maribo 305 | 232 | 314.8 | 99 | 10114 | 107 | 1.09 | 54.36 | 99 | 1749 | 107 | 16.83 | 31.96 | 204 | 1346 | 410 | 0 | 84.1 | 3.2 |
| Maribo 402 | 213 | 311.8 | 98 | 9711 | 103 | 1.18 | 53.43 | 97 | 1659 | 101 | 16.77 | 31.26 | 265 | 1496 | 416 | 0 | 86.6 | 4.1 |
| Maribo 403 | 228 | 324.0 | 102 | 10442 | 110 | 1.02 | 57.22 | 104 | 1831 | 112 | 17.24 | 32.57 | 218 | 1336 | 356 | 0 | 79.0 | 3.3 |
| Maribo MA102RR | 216 | 328.9 | 104 | 10652 | 113 | 1.00 | 58.76 | 107 | 1892 | 115 | 17.47 | 32.77 | 177 | 1367 | 347 | 0 | 78.4 | 3.4 |
| Seedex RR0832 | 227 | 316.6 | 100 | 9157 | 97 | 1.09 | 54.92 | 100 | 1594 | 97 | 16.92 | 28.83 | 245 | 1517 | 344 | 0 | 81.7 | 3.1 |
| Seedex RR842 | 235 | 315.7 | 99 | 9784 | 103 | 1.11 | 54.65 | 99 | 1692 | 103 | 16.90 | 30.91 | 277 | 1455 | 364 | 0 | 72.9 | 3.9 |
| Seedex RR844TT | 218 | 326.6 | 103 | 10116 | 107 | 1.07 | 58.04 | 105 | 1795 | 109 | 17.41 | 30.98 | 195 | 1452 | 372 | 0 | 66.1 | 3.9 |
| Seedex RR846 | 243 | 314.4 | 99 | 10197 | 108 | 1.17 | 54.25 | 98 | 1759 | 107 | 16.88 | 32.45 | 243 | 1481 | 422 | 0 | 77.0 | 4.1 |
| Seedex RR848 | 246 | 299.7 | 94 | 9545 | 101 | 1.20 | 49.68 | 90 | 1579 | 96 | 16.18 | 31.95 | 319 | 1445 | 420 | 0 | 69.8 | 2.8 |
| SV RR241 | 214 | 313.6 | 99 | 8941 | 95 | 1.09 | 54.00 | 98 | 1536 | 94 | 16.78 | 28.56 | 225 | 1384 | 397 | 95 | 76.6 | 3.8 |
| SV RR242TT | 229 | 305.8 | 96 | 10414 | 110 | 1.13 | 51.57 | 94 | 1760 | 107 | 16.43 | 33.81 | 211 | 1536 | 394 | 0 | 71.6 | 3.5 |
| SV RR243 | 207 | 314.8 | 99 | 9159 | 97 | 1.12 | 54.36 | 99 | 1579 | 96 | 16.87 | 29.18 | 239 | 1507 | 386 | 0 | 75.5 | 4.7 |
| SV RR244TT | 240 | 307.3 | 97 | 10543 | 111 | 1.00 | 52.04 | 94 | 1779 | 108 | 16.38 | 34.44 | 217 | 1350 | 335 | 0 | 67.4 | 3.1 |
| SV RR245N | 238 | 320.0 | 101 | 8570 | 91 | 1.08 | 56.00 | 102 | 1499 | 91 | 17.08 | 26.78 | 201 | 1420 | 382 | 0 | 74.0 | 5.9 |
| SV RR246 | 248 | 329.9 | 104 | 8764 | 93 | 1.05 | 59.07 | 107 | 1568 | 96 | 17.56 | 26.46 | 190 | 1444 | 355 | 0 | 79.2 | 5.7 |
| SV RR247 | 239 | 327.4 | 103 | 9032 | 95 | 1.11 | 58.28 | 106 | 1609 | 98 | 17.49 | 27.45 | 233 | 1477 | 380 | 0 | 69.8 | 4.2 |
| SV RR248 | 204 | 325.3 | 103 | 9673 | 102 | 1.10 | 57.60 | 104 | 1712 | 104 | 17.37 | 29.77 | 189 | 1558 | 367 | 0 | 70.2 | 3.3 |
| SV RR333 | 212 | 312.0 | 98 | 8957 | 95 | 1.15 | 53.51 | 97 | 1539 | 94 | 16.75 | 28.71 | 218 | 1504 | 408 | 0 | 73.4 | 4.0 |
| SV RR336 | 226 | 314.6 | 99 | 9588 | 101 | 1.10 | 54.31 | 98 | 1650 | 101 | 16.84 | 30.66 | 226 | 1374 | 409 | 0 | 70.1 | 4.7 |
| Root Aphid Susc Chk | 250 | 323.6 | 102 | 8238 | 87 | 1.15 | 57.11 | 104 | 1452 | 89 | 17.33 | 25.38 | 215 | 1558 | 393 | 0 | 66.3 | 5.4 |
| Hilleshög 4012RR(Check) | 251 | 310.2 | 98 | 9280 | 98 | 1.22 | 52.95 | 96 | 1584 | 97 | 16.73 | 29.74 | 296 | 1557 | 416 | 0 | 71.8 | 2.9 |
| Crystal 875RR(Check) | 252 | 325.4 | 103 | 9582 | 101 | 1.25 | 57.68 | 105 | 1702 | 104 | 17.52 | 29.45 | 258 | 1606 | 449 | 0 | 75.3 | 5.0 |
| BTS 80RR52(Check) | 253 | 317.2 | 100 | 9732 | 103 | 1.17 | 55.11 | 100 | 1689 | 103 | 17.03 | 30.54 | 230 | 1521 | 413 | 0 | 86.3 | 4.0 |
| BTS 81RR17(Check) | 254 | 313.6 | 99 | 9151 | 97 | 1.30 | 54.02 | 98 | 1575 | 96 | 16.98 | 29.19 | 244 | 1708 | 463 | 0 | 84.3 | 3.7 |
| Trial Mean | | 317.3 | | 9460 | | 1.17 | 55.14 | | 1640 | | 17.03 | 29.88 | 251 | 1505 | 406 | | 76.2 | 4.0 |
| Coeff. of Var. (%) | | 2.8 | | 5.5 | | 9.1 | 5.0 | | 6.8 | | 2.2 | 4.9 | 20.4 | 5.3 | 15.7 | | 9.0 | 29.7 |
| Mean LSD (0.05) | | 14.2 | | 770 | | 0.18 | 4.41 | | 170 | | 0.60 | 2.15 | 83 | 127 | 104 | | 10.4 | 1.7 |
| Mean LSD (0.01) | | 18.7 | | 1018 | | 0.23 | 5.82 | | 225 | | 0.80 | 2.85 | 110 | 168 | 137 | | 13.8 | 2.2 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | * | | ** | ** |

* 2014 Data from Crookston MN 10/22/2014 08:26 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148305

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 22.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

Grand Forks ND - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 325.5 | 104 | 5784 | 88 | 0.95 | 57.66 | 107 | 1029 | 91 | 17.22 | 17.71 | 283 | 1435 | 245 | 0 | 77.2 | 5.4 |
| BTS 8354 | 241 | 314.5 | 100 | 6298 | 96 | 1.09 | 54.21 | 100 | 1086 | 96 | 16.81 | 20.01 | 286 | 1652 | 292 | 0 | 79.0 | 4.5 |
| BTS 8363 | 233 | 304.3 | 97 | 6615 | 101 | 1.01 | 50.98 | 94 | 1114 | 98 | 16.21 | 21.60 | 279 | 1570 | 258 | 95 | 84.4 | 3.4 |
| BTS 8390 | 208 | 305.6 | 97 | 7458 | 114 | 1.03 | 51.36 | 95 | 1254 | 111 | 16.31 | 24.43 | 349 | 1576 | 254 | 0 | 81.7 | 3.5 |
| BTS 83CN | 223 | 308.3 | 98 | 7046 | 107 | 0.99 | 52.24 | 97 | 1196 | 106 | 16.40 | 22.81 | 296 | 1495 | 255 | 0 | 76.2 | 3.1 |
| BTS 8402 | 215 | 312.5 | 100 | 6765 | 103 | 1.08 | 53.54 | 99 | 1164 | 103 | 16.70 | 21.55 | 322 | 1561 | 303 | 0 | 86.9 | 2.5 |
| BTS 8404 | 244 | 322.2 | 103 | 7066 | 108 | 0.98 | 56.64 | 105 | 1248 | 110 | 17.09 | 21.82 | 229 | 1480 | 271 | 0 | 80.7 | 3.5 |
| BTS 8405 | 219 | 327.7 | 104 | 7437 | 113 | 0.90 | 58.35 | 108 | 1328 | 117 | 17.27 | 22.63 | 182 | 1397 | 248 | 0 | 77.5 | 3.7 |
| BTS 8406 | 236 | 326.7 | 104 | 6450 | 98 | 1.00 | 58.03 | 107 | 1144 | 101 | 17.33 | 19.80 | 267 | 1448 | 289 | 0 | 76.2 | 2.8 |
| BTS 8408 | 217 | 314.6 | 100 | 6891 | 105 | 1.15 | 54.24 | 100 | 1188 | 105 | 16.88 | 21.91 | 330 | 1651 | 327 | 0 | 80.5 | 5.8 |
| BTS 840N | 206 | 296.4 | 94 | 5736 | 87 | 1.06 | 48.48 | 90 | 939 | 83 | 15.89 | 19.35 | 321 | 1655 | 270 | 0 | 84.2 | 4.0 |
| Crystal 355RR | 234 | 317.3 | 101 | 6414 | 98 | 1.05 | 55.07 | 102 | 1118 | 99 | 16.91 | 20.11 | 322 | 1587 | 273 | 0 | 79.2 | 3.9 |
| Crystal 359RR | 242 | 312.3 | 99 | 6834 | 104 | 1.00 | 53.49 | 99 | 1173 | 104 | 16.60 | 21.83 | 287 | 1518 | 263 | 0 | 86.1 | 5.4 |
| Crystal 464RR | 201 | 314.2 | 100 | 6669 | 102 | 1.04 | 54.09 | 100 | 1153 | 102 | 16.74 | 21.13 | 308 | 1544 | 283 | 0 | 84.9 | 3.5 |
| Crystal 465RR | 220 | 325.2 | 104 | 7720 | 118 | 0.98 | 57.56 | 107 | 1365 | 121 | 17.25 | 23.75 | 250 | 1469 | 278 | 0 | 88.4 | 2.6 |
| Crystal 466RR | 230 | 314.8 | 100 | 7199 | 110 | 1.00 | 54.30 | 101 | 1244 | 110 | 16.73 | 22.80 | 293 | 1478 | 272 | 383 | 73.0 | 3.1 |
| Crystal 467RR | 221 | 312.8 | 100 | 8181 | 125 | 1.01 | 53.63 | 99 | 1405 | 124 | 16.64 | 26.10 | 333 | 1540 | 249 | 0 | 83.7 | 4.6 |
| Crystal 468RR | 202 | 302.2 | 96 | 6617 | 101 | 0.98 | 50.31 | 93 | 1110 | 98 | 16.08 | 21.71 | 316 | 1453 | 254 | 0 | 91.6 | 3.7 |
| Crystal 469RR | 249 | 311.0 | 99 | 6755 | 103 | 1.11 | 53.10 | 98 | 1156 | 102 | 16.66 | 21.66 | 372 | 1567 | 308 | 0 | 82.7 | 4.8 |
| Hilleshög 9517RR | 247 | 317.5 | 101 | 5416 | 83 | 1.10 | 55.14 | 102 | 942 | 83 | 16.97 | 17.02 | 372 | 1569 | 295 | 0 | 70.6 | 4.6 |
| Hilleshög 9528RR | 237 | 323.2 | 103 | 6959 | 106 | 0.87 | 56.94 | 105 | 1232 | 109 | 17.02 | 21.39 | 243 | 1364 | 221 | 0 | 89.9 | 3.9 |
| Hilleshög 9601RR | 203 | 297.8 | 95 | 5040 | 77 | 1.12 | 48.92 | 91 | 835 | 74 | 16.01 | 16.77 | 429 | 1588 | 297 | 0 | 73.3 | 3.0 |
| Hilleshög 9602RR | 205 | 311.8 | 99 | 6949 | 106 | 0.93 | 53.34 | 99 | 1192 | 105 | 16.51 | 22.18 | 271 | 1469 | 227 | 0 | 91.6 | 3.4 |
| Hilleshög 9604RR | 211 | 303.2 | 97 | 6805 | 104 | 1.04 | 50.61 | 94 | 1139 | 101 | 16.20 | 22.40 | 326 | 1474 | 296 | 0 | 90.4 | 5.1 |
| Hilleshög 9610RR | 245 | 316.1 | 101 | 5289 | 81 | 0.86 | 54.69 | 101 | 917 | 81 | 16.65 | 16.70 | 264 | 1392 | 203 | 0 | 76.7 | 4.2 |
| Hilleshög 9613RR | 224 | 298.2 | 95 | 4978 | 76 | 1.05 | 49.05 | 91 | 817 | 72 | 15.96 | 16.75 | 332 | 1577 | 275 | 0 | 89.1 | 2.8 |
| Hilleshög 9615RR | 231 | 312.9 | 100 | 5618 | 86 | 1.02 | 53.67 | 99 | 968 | 86 | 16.65 | 17.85 | 338 | 1458 | 279 | 0 | 89.6 | 7.5 |
| Hilleshög 9620RR | 210 | 308.8 | 98 | 6145 | 94 | 1.09 | 52.39 | 97 | 1043 | 92 | 16.53 | 19.92 | 382 | 1610 | 278 | 0 | 88.9 | 3.7 |
| Maribo 109RR | 225 | 330.5 | 105 | 5655 | 86 | 0.92 | 59.25 | 110 | 1020 | 90 | 17.43 | 16.97 | 256 | 1421 | 237 | 0 | 79.7 | 3.6 |
| Maribo 301 | 209 | 313.7 | 100 | 5374 | 82 | 1.06 | 53.97 | 100 | 927 | 82 | 16.74 | 17.05 | 334 | 1522 | 294 | 0 | 88.9 | 5.1 |
| Maribo 305 | 232 | 313.3 | 100 | 6568 | 100 | 0.84 | 53.84 | 100 | 1130 | 100 | 16.51 | 20.92 | 245 | 1284 | 221 | 0 | 89.6 | 2.7 |
| Maribo 402 | 213 | 314.7 | 100 | 6197 | 94 | 0.90 | 54.27 | 101 | 1074 | 95 | 16.63 | 19.51 | 250 | 1360 | 243 | 0 | 88.4 | 5.2 |
| Maribo 403 | 228 | 310.4 | 99 | 7557 | 115 | 0.94 | 52.89 | 98 | 1293 | 114 | 16.46 | 24.24 | 258 | 1384 | 263 | 0 | 78.5 | 3.0 |
| Maribo MA102RR | 216 | 324.4 | 103 | 7435 | 113 | 0.88 | 57.30 | 106 | 1315 | 116 | 17.09 | 22.88 | 227 | 1364 | 231 | 0 | 83.4 | 2.2 |
| Seedex RR0832 | 227 | 320.6 | 102 | 7181 | 109 | 0.97 | 56.11 | 104 | 1259 | 111 | 16.99 | 22.34 | 248 | 1516 | 250 | 0 | 82.9 | 5.2 |
| Seedex RR842 | 235 | 315.2 | 100 | 6957 | 106 | 0.92 | 54.43 | 101 | 1208 | 107 | 16.68 | 21.87 | 253 | 1439 | 236 | 0 | 85.4 | 3.7 |
| Seedex RR844TT | 218 | 314.6 | 100 | 7049 | 107 | 0.88 | 54.25 | 100 | 1220 | 108 | 16.60 | 22.27 | 196 | 1461 | 216 | 0 | 81.2 | 3.2 |
| Seedex RR846 | 243 | 313.7 | 100 | 7338 | 112 | 0.90 | 53.95 | 100 | 1264 | 112 | 16.58 | 23.33 | 252 | 1383 | 235 | 0 | 75.0 | 4.3 |
| Seedex RR848 | 246 | 310.4 | 99 | 6938 | 106 | 0.92 | 52.90 | 98 | 1185 | 105 | 16.43 | 22.29 | 296 | 1427 | 221 | 0 | 78.2 | 3.8 |
| SV RR241 | 214 | 314.0 | 100 | 6681 | 102 | 0.88 | 54.03 | 100 | 1152 | 102 | 16.58 | 21.20 | 222 | 1345 | 241 | 0 | 77.2 | 3.6 |
| SV RR242TT | 229 | 310.7 | 99 | 7227 | 110 | 0.89 | 53.00 | 98 | 1235 | 109 | 16.43 | 23.21 | 238 | 1390 | 239 | 0 | 82.9 | 2.7 |
| SV RR243 | 207 | 323.8 | 103 | 6977 | 106 | 0.89 | 57.11 | 106 | 1238 | 109 | 17.07 | 21.42 | 233 | 1475 | 215 | 0 | 68.3 | 4.1 |
| SV RR244TT | 240 | 295.4 | 94 | 7271 | 111 | 0.87 | 48.18 | 89 | 1191 | 105 | 15.64 | 24.46 | 260 | 1329 | 227 | 0 | 83.7 | 2.7 |
| SV RR245N | 238 | 310.0 | 99 | 5955 | 91 | 0.99 | 52.76 | 98 | 1014 | 90 | 16.49 | 19.20 | 263 | 1465 | 276 | 0 | 80.7 | 5.7 |
| SV RR246 | 248 | 328.4 | 105 | 5160 | 79 | 0.97 | 58.57 | 109 | 925 | 82 | 17.38 | 15.63 | 232 | 1542 | 251 | 0 | 75.3 | 5.0 |
| SV RR247 | 239 | 329.3 | 105 | 5488 | 84 | 1.02 | 58.86 | 109 | 982 | 87 | 17.48 | 16.62 | 251 | 1582 | 271 | 0 | 77.0 | 4.0 |
| SV RR248 | 204 | 310.6 | 99 | 5665 | 86 | 1.00 | 52.97 | 98 | 971 | 86 | 16.53 | 18.10 | 263 | 1505 | 272 | 0 | 77.7 | 4.5 |
| SV RR333 | 212 | 316.1 | 101 | 6190 | 94 | 0.91 | 54.69 | 101 | 1076 | 95 | 16.70 | 19.42 | 252 | 1406 | 236 | 0 | 80.2 | 5.0 |
| SV RR336 | 226 | 313.4 | 100 | 6776 | 103 | 0.91 | 53.85 | 100 | 1166 | 103 | 16.58 | 21.57 | 240 | 1402 | 241 | 0 | 86.1 | 3.4 |
| Root Aphid Susc Chk | 250 | 319.6 | 102 | 6527 | 99 | 0.97 | 55.79 | 103 | 1144 | 101 | 16.94 | 20.32 | 213 | 1541 | 255 | 0 | 75.5 | 5.5 |
| Hilleshög 4012RR(Check) | 251 | 314.7 | 100 | 5956 | 91 | 0.97 | 54.27 | 101 | 1022 | 90 | 16.70 | 19.03 | 308 | 1462 | 240 | 0 | 84.7 | 5.5 |
| Crystal 875RR(Check) | 252 | 309.2 | 99 | 6756 | 103 | 1.15 | 52.53 | 97 | 1147 | 101 | 16.61 | 21.88 | 338 | 1584 | 349 | 0 | 89.4 | 5.4 |
| BTS 80RR52(Check) | 253 | 306.1 | 98 | 7318 | 112 | 1.06 | 51.58 | 96 | 1234 | 109 | 16.37 | 23.86 | 290 | 1547 | 299 | 0 | 80.2 | 3.7 |
| BTS 81RR17(Check) | 254 | 306.4 | 98 | 7011 | 107 | 1.09 | 51.65 | 96 | 1185 | 105 | 16.42 | 22.84 | 314 | 1633 | 302 | 0 | 88.9 | 4.8 |
| Trial Mean | | 313.8 | | 6561 | | 0.99 | 53.99 | | 1131 | | 16.67 | 20.85 | 284 | 1488 | 262 | | 82.1 | 4.1 |
| Coeff. of Var. (%) | | 2.6 | | 7.2 | | 6.1 | 4.8 | | 8.2 | | 2.3 | 6.6 | 14.7 | 5.2 | 10.2 | | 9.1 | 32.6 |
| Mean LSD (0.05) | | 13.2 | | 777 | | 0.10 | 4.17 | | 153 | | 0.62 | 2.27 | 65 | 117 | 44 | | 10.5 | 1.9 |
| Mean LSD (0.01) | | 17.5 | | 1027 | | 0.13 | 5.51 | | 203 | | 0.83 | 3.00 | 85 | 154 | 58 | | 13.8 | 2.5 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Grand Forks ND 10/22/2014 09:54 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148307

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 23.
2014 Performance of Varieties - ACSC Experimental RR Official Trial
Alvarado MN - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 356.0 | 105 | 8885 | 95 | 0.93 | 67.45 | 108 | 1683 | 98 | 18.74 | 25.00 | 161 | 1365 | 288 | 0 | 71.8 | 4.6 |
| BTS 8354 | 241 | 340.8 | 100 | 8578 | 92 | 1.06 | 62.64 | 100 | 1577 | 92 | 18.10 | 25.14 | 180 | 1456 | 368 | 0 | 71.2 | 2.8 |
| BTS 8363 | 233 | 338.1 | 99 | 10198 | 109 | 0.91 | 61.74 | 99 | 1862 | 109 | 17.82 | 30.29 | 179 | 1255 | 299 | 95 | 75.9 | 4.3 |
| BTS 8390 | 208 | 333.5 | 98 | 9875 | 106 | 0.95 | 60.32 | 97 | 1786 | 104 | 17.65 | 29.53 | 220 | 1388 | 287 | 0 | 73.6 | 4.2 |
| BTS 83CN | 223 | 338.4 | 99 | 8824 | 94 | 0.86 | 61.84 | 99 | 1613 | 94 | 17.77 | 26.10 | 177 | 1270 | 254 | 0 | 71.5 | 2.3 |
| BTS 8402 | 215 | 331.8 | 97 | 8744 | 94 | 1.00 | 59.79 | 96 | 1575 | 92 | 17.60 | 26.20 | 195 | 1372 | 344 | 0 | 79.1 | 3.3 |
| BTS 8404 | 244 | 335.5 | 99 | 8834 | 95 | 0.98 | 60.95 | 98 | 1605 | 94 | 17.77 | 26.27 | 177 | 1310 | 350 | 0 | 68.6 | 2.3 |
| BTS 8405 | 219 | 352.8 | 104 | 9278 | 99 | 0.87 | 66.44 | 106 | 1746 | 102 | 18.54 | 26.26 | 126 | 1228 | 300 | 0 | 71.2 | 2.4 |
| BTS 8406 | 236 | 346.7 | 102 | 9418 | 101 | 0.94 | 64.47 | 103 | 1751 | 102 | 18.29 | 27.18 | 191 | 1271 | 325 | 0 | 70.5 | 3.2 |
| BTS 8408 | 217 | 343.1 | 101 | 9167 | 98 | 1.06 | 63.35 | 101 | 1692 | 99 | 18.22 | 26.77 | 214 | 1459 | 356 | 0 | 77.6 | 4.1 |
| BTS 840N | 206 | 334.9 | 98 | 8202 | 88 | 1.08 | 60.74 | 97 | 1488 | 87 | 17.85 | 24.51 | 183 | 1484 | 376 | 0 | 74.5 | 3.3 |
| Crystal 355RR | 234 | 345.7 | 102 | 8701 | 93 | 1.02 | 64.17 | 103 | 1615 | 94 | 18.31 | 25.16 | 177 | 1452 | 340 | 0 | 73.3 | 4.6 |
| Crystal 359RR | 242 | 332.7 | 98 | 9896 | 106 | 1.00 | 60.05 | 96 | 1786 | 104 | 17.65 | 29.75 | 254 | 1428 | 309 | 0 | 69.5 | 3.6 |
| Crystal 464RR | 201 | 344.2 | 101 | 8638 | 92 | 1.00 | 63.69 | 102 | 1598 | 93 | 18.22 | 25.20 | 194 | 1362 | 343 | 0 | 80.6 | 6.3 |
| Crystal 465RR | 220 | 334.3 | 98 | 9510 | 102 | 1.01 | 60.56 | 97 | 1723 | 100 | 17.75 | 28.35 | 232 | 1358 | 345 | 0 | 79.4 | 3.3 |
| Crystal 466RR | 230 | 336.7 | 99 | 10093 | 108 | 1.00 | 61.32 | 98 | 1838 | 107 | 17.87 | 29.83 | 222 | 1374 | 340 | 869 | 64.3 | 3.0 |
| Crystal 467RR | 221 | 330.7 | 97 | 9687 | 104 | 0.99 | 59.43 | 95 | 1740 | 101 | 17.55 | 29.23 | 250 | 1417 | 302 | 0 | 71.6 | 3.9 |
| Crystal 468RR | 202 | 323.8 | 95 | 9432 | 101 | 0.92 | 57.21 | 92 | 1667 | 97 | 17.12 | 29.07 | 241 | 1281 | 287 | 0 | 78.8 | 2.6 |
| Crystal 469RR | 249 | 337.7 | 99 | 9741 | 104 | 1.06 | 61.61 | 99 | 1778 | 104 | 17.95 | 28.88 | 236 | 1512 | 331 | 0 | 72.2 | 2.8 |
| Hilleshög 9517RR | 247 | 351.9 | 103 | 8412 | 90 | 0.95 | 66.14 | 106 | 1582 | 92 | 18.56 | 23.83 | 235 | 1365 | 292 | 0 | 72.7 | 3.6 |
| Hilleshög 9528RR | 237 | 350.4 | 103 | 10318 | 110 | 0.89 | 65.66 | 105 | 1934 | 113 | 18.41 | 29.45 | 176 | 1301 | 270 | 0 | 72.2 | 3.0 |
| Hilleshög 9601RR | 203 | 329.3 | 97 | 8556 | 92 | 0.95 | 58.99 | 94 | 1533 | 89 | 17.42 | 26.02 | 279 | 1253 | 301 | 0 | 71.5 | 2.4 |
| Hilleshög 9602RR | 205 | 344.6 | 101 | 10189 | 109 | 0.88 | 63.82 | 102 | 1887 | 110 | 18.12 | 29.54 | 181 | 1292 | 264 | 0 | 72.8 | 2.4 |
| Hilleshög 9604RR | 211 | 333.5 | 98 | 10360 | 111 | 0.97 | 60.29 | 96 | 1873 | 109 | 17.65 | 30.98 | 210 | 1369 | 312 | 0 | 75.4 | 3.4 |
| Hilleshög 9610RR | 245 | 341.7 | 100 | 8966 | 96 | 0.89 | 62.91 | 101 | 1650 | 96 | 18.00 | 26.23 | 209 | 1287 | 269 | 0 | 64.9 | 2.3 |
| Hilleshög 9613RR | 224 | 337.3 | 99 | 9684 | 104 | 0.92 | 61.49 | 98 | 1766 | 103 | 17.77 | 28.68 | 202 | 1335 | 277 | 0 | 77.5 | 1.4 |
| Hilleshög 9615RR | 231 | 332.3 | 98 | 8554 | 92 | 1.05 | 59.93 | 96 | 1543 | 90 | 17.67 | 25.83 | 252 | 1322 | 378 | 0 | 74.3 | 6.6 |
| Hilleshög 9620RR | 210 | 339.1 | 100 | 9413 | 101 | 0.95 | 62.05 | 99 | 1723 | 100 | 17.92 | 27.80 | 238 | 1339 | 296 | 0 | 73.7 | 2.9 |
| Maribo 109RR | 225 | 350.5 | 103 | 8782 | 94 | 0.96 | 65.69 | 105 | 1646 | 96 | 18.49 | 25.08 | 196 | 1205 | 356 | 0 | 65.6 | 2.6 |
| Maribo 301 | 209 | 353.5 | 104 | 8800 | 94 | 0.92 | 66.65 | 107 | 1659 | 97 | 18.61 | 24.93 | 200 | 1349 | 275 | 0 | 76.2 | 4.1 |
| Maribo 305 | 232 | 341.0 | 100 | 9959 | 107 | 0.81 | 62.70 | 100 | 1831 | 107 | 17.87 | 29.24 | 169 | 1112 | 268 | 0 | 80.0 | 2.4 |
| Maribo 402 | 213 | 347.9 | 102 | 9796 | 105 | 0.83 | 64.86 | 104 | 1827 | 106 | 18.22 | 28.21 | 151 | 1250 | 245 | 0 | 77.2 | 2.8 |
| Maribo 403 | 228 | 336.5 | 99 | 10961 | 117 | 0.83 | 61.23 | 98 | 1996 | 116 | 17.67 | 32.55 | 195 | 1142 | 268 | 0 | 80.0 | 2.7 |
| Maribo MA102RR | 216 | 349.3 | 103 | 10429 | 112 | 0.85 | 65.29 | 104 | 1950 | 114 | 18.31 | 29.80 | 172 | 1156 | 284 | 0 | 67.9 | 2.6 |
| Seedex RR0832 | 227 | 345.5 | 101 | 9309 | 100 | 0.90 | 64.10 | 103 | 1728 | 101 | 18.20 | 26.94 | 186 | 1359 | 265 | 0 | 72.0 | 3.1 |
| Seedex RR842 | 235 | 341.9 | 100 | 9497 | 102 | 0.83 | 62.96 | 101 | 1749 | 102 | 17.95 | 27.75 | 165 | 1245 | 256 | 0 | 73.5 | 3.7 |
| Seedex RR844TT | 218 | 339.4 | 100 | 9698 | 104 | 0.91 | 62.17 | 99 | 1776 | 104 | 17.90 | 28.55 | 174 | 1240 | 312 | 0 | 75.3 | 4.1 |
| Seedex RR846 | 243 | 339.2 | 100 | 10072 | 108 | 0.90 | 62.09 | 99 | 1844 | 107 | 17.87 | 29.69 | 175 | 1296 | 290 | 0 | 75.5 | 2.5 |
| Seedex RR848 | 246 | 331.1 | 97 | 9937 | 106 | 0.92 | 59.54 | 95 | 1787 | 104 | 17.50 | 30.02 | 220 | 1215 | 313 | 0 | 68.0 | 2.4 |
| SV RR241 | 214 | 337.0 | 99 | 9553 | 102 | 0.90 | 61.41 | 98 | 1741 | 101 | 17.77 | 28.29 | 147 | 1267 | 304 | 0 | 80.7 | 4.4 |
| SV RR242TT | 229 | 336.7 | 99 | 10535 | 113 | 0.89 | 61.30 | 98 | 1918 | 112 | 17.75 | 31.24 | 189 | 1288 | 275 | 0 | 73.2 | 3.9 |
| SV RR243 | 207 | 337.2 | 99 | 9189 | 98 | 0.92 | 61.46 | 98 | 1675 | 98 | 17.80 | 27.23 | 212 | 1348 | 281 | 0 | 60.7 | 2.8 |
| SV RR244TT | 240 | 331.8 | 97 | 10469 | 112 | 0.86 | 59.76 | 96 | 1885 | 110 | 17.47 | 31.46 | 153 | 1229 | 277 | 0 | 74.5 | 2.6 |
| SV RR245N | 238 | 340.5 | 100 | 8474 | 91 | 0.92 | 62.52 | 100 | 1556 | 91 | 17.97 | 24.90 | 173 | 1246 | 317 | 0 | 70.2 | 3.9 |
| SV RR246 | 248 | 353.9 | 104 | 8566 | 92 | 0.89 | 66.77 | 107 | 1617 | 94 | 18.61 | 24.05 | 156 | 1315 | 278 | 0 | 63.1 | 5.2 |
| SV RR247 | 239 | 354.9 | 104 | 7655 | 82 | 0.93 | 67.09 | 107 | 1448 | 84 | 18.69 | 21.65 | 167 | 1380 | 295 | 0 | 77.4 | 4.2 |
| SV RR248 | 204 | 340.3 | 100 | 9293 | 99 | 0.94 | 62.46 | 100 | 1706 | 99 | 17.97 | 27.21 | 174 | 1346 | 307 | 95 | 66.2 | 4.1 |
| SV RR333 | 212 | 343.3 | 101 | 9523 | 102 | 0.90 | 63.42 | 101 | 1759 | 103 | 18.07 | 27.75 | 161 | 1266 | 300 | 0 | 73.9 | 4.4 |
| SV RR336 | 226 | 339.4 | 100 | 9288 | 99 | 0.89 | 62.18 | 99 | 1702 | 99 | 17.87 | 27.31 | 156 | 1212 | 310 | 0 | 72.9 | 3.9 |
| Root Aphid Susc Chk | 250 | 342.5 | 101 | 8941 | 96 | 0.91 | 63.16 | 101 | 1649 | 96 | 18.05 | 26.14 | 171 | 1315 | 292 | 0 | 63.1 | 3.8 |
| Hilleshög 4012RR(Check) | 251 | 342.2 | 101 | 9039 | 97 | 0.96 | 63.06 | 101 | 1666 | 97 | 18.07 | 26.47 | 224 | 1338 | 301 | 0 | 75.8 | 2.4 |
| Crystal 875RR(Check) | 252 | 337.2 | 99 | 8959 | 96 | 1.05 | 61.46 | 98 | 1634 | 95 | 17.92 | 26.55 | 246 | 1455 | 337 | 0 | 79.6 | 4.1 |
| BTS 80RR52(Check) | 253 | 341.1 | 100 | 8981 | 96 | 1.01 | 62.72 | 100 | 1651 | 96 | 18.07 | 26.41 | 190 | 1344 | 359 | 0 | 74.5 | 4.4 |
| BTS 81RR17(Check) | 254 | 333.6 | 98 | 8882 | 95 | 1.10 | 60.33 | 97 | 1607 | 94 | 17.80 | 26.57 | 213 | 1504 | 379 | 0 | 82.2 | 5.8 |
| Trial Mean | | 340.4 | | 9347 | | 0.94 | 62.50 | | 1716 | | 17.98 | 27.46 | 195 | 1321 | 306 | | 73.1 | 3.5 |
| Coeff. of Var. (%) | | 2.2 | | 5.0 | | 6.8 | 3.7 | | 5.6 | | 1.9 | 4.7 | 14.9 | 5.2 | 13.9 | | 7.2 | 34.9 |
| Mean LSD (0.05) | | 10.3 | | 656 | | 0.09 | 3.25 | | 135 | | 0.47 | 1.88 | 41 | 108 | 63 | | 8.5 | 1.8 |
| Mean LSD (0.01) | | 13.5 | | 866 | | 0.12 | 4.29 | | 178 | | 0.63 | 2.48 | 55 | 143 | 83 | | 11.2 | 2.4 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Alvarado MN 10/22/2014 10:00 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148308

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 24.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

St Thomas ND - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 308.9 | 104 | 6181 | 102 | 0.89 | 52.34 | 107 | 1046 | 105 | 16.33 | 20.02 | 309 | 1178 | 257 | 0 | 72.0 | 7.4 |
| BTS 8354 | 241 | 302.6 | 102 | 5583 | 92 | 1.00 | 50.40 | 103 | 930 | 93 | 16.14 | 18.45 | 311 | 1278 | 319 | 0 | 74.8 | 8.6 |
| BTS 8363 | 233 | 290.6 | 98 | 6054 | 100 | 0.91 | 46.70 | 96 | 972 | 98 | 15.43 | 20.85 | 311 | 1198 | 269 | 95 | 75.5 | 7.1 |
| BTS 8390 | 208 | 289.5 | 97 | 6597 | 109 | 0.93 | 46.36 | 95 | 1056 | 106 | 15.40 | 22.79 | 355 | 1273 | 250 | 0 | 70.7 | 7.5 |
| BTS 83CN | 223 | 293.8 | 99 | 6366 | 105 | 0.88 | 47.66 | 98 | 1034 | 104 | 15.58 | 21.64 | 325 | 1219 | 239 | 0 | 72.6 | 4.8 |
| BTS 8402 | 215 | 296.8 | 100 | 5755 | 95 | 0.94 | 48.58 | 99 | 942 | 95 | 15.76 | 19.41 | 344 | 1177 | 283 | 0 | 75.7 | 6.5 |
| BTS 8404 | 244 | 290.2 | 98 | 6176 | 102 | 0.95 | 46.58 | 95 | 991 | 99 | 15.46 | 21.29 | 324 | 1158 | 304 | 0 | 70.4 | 5.9 |
| BTS 8405 | 219 | 308.6 | 104 | 6279 | 103 | 0.91 | 52.25 | 107 | 1060 | 106 | 16.34 | 20.42 | 247 | 1223 | 285 | 0 | 66.9 | 6.9 |
| BTS 8406 | 236 | 304.6 | 102 | 6599 | 109 | 0.94 | 50.98 | 104 | 1104 | 111 | 16.17 | 21.68 | 290 | 1293 | 274 | 0 | 71.8 | 4.4 |
| BTS 8408 | 217 | 304.3 | 102 | 6425 | 106 | 1.06 | 50.90 | 104 | 1074 | 108 | 16.26 | 21.14 | 353 | 1366 | 325 | 0 | 60.2 | 8.5 |
| BTS 840N | 206 | 303.2 | 102 | 5594 | 92 | 1.00 | 50.58 | 104 | 933 | 94 | 16.17 | 18.45 | 270 | 1394 | 300 | 0 | 75.9 | 7.4 |
| Crystal 355RR | 234 | 299.5 | 101 | 6063 | 100 | 1.01 | 49.45 | 101 | 1001 | 101 | 15.98 | 20.25 | 342 | 1350 | 291 | 0 | 68.7 | 7.4 |
| Crystal 359RR | 242 | 291.6 | 98 | 6699 | 110 | 1.01 | 46.99 | 96 | 1078 | 108 | 15.58 | 22.99 | 433 | 1183 | 308 | 0 | 71.2 | 5.8 |
| Crystal 464RR | 201 | 307.4 | 103 | 6189 | 102 | 0.95 | 51.85 | 106 | 1044 | 105 | 16.32 | 20.14 | 340 | 1245 | 280 | 0 | 77.5 | 6.5 |
| Crystal 465RR | 220 | 303.7 | 102 | 6264 | 103 | 0.99 | 50.73 | 104 | 1046 | 105 | 16.18 | 20.64 | 376 | 1230 | 298 | 0 | 78.7 | 7.0 |
| Crystal 466RR | 230 | 304.9 | 102 | 6407 | 105 | 0.90 | 51.12 | 105 | 1074 | 108 | 16.16 | 21.00 | 301 | 1161 | 273 | 1058 | 67.9 | 6.7 |
| Crystal 467RR | 221 | 290.7 | 98 | 6789 | 112 | 0.96 | 46.71 | 96 | 1088 | 109 | 15.50 | 23.44 | 460 | 1252 | 246 | 0 | 72.4 | 5.6 |
| Crystal 468RR | 202 | 287.2 | 97 | 6209 | 102 | 0.93 | 45.64 | 93 | 986 | 99 | 15.29 | 21.63 | 372 | 1142 | 281 | 0 | 80.1 | 6.1 |
| Crystal 469RR | 249 | 299.8 | 101 | 6696 | 110 | 1.03 | 49.55 | 101 | 1107 | 111 | 16.01 | 22.32 | 387 | 1326 | 301 | 0 | 66.7 | 4.8 |
| Hilleshög 9517RR | 247 | 303.9 | 102 | 5419 | 89 | 1.05 | 50.77 | 104 | 904 | 91 | 16.23 | 17.88 | 405 | 1379 | 300 | 0 | 71.1 | 7.4 |
| Hilleshög 9528RR | 237 | 311.6 | 105 | 5977 | 98 | 0.90 | 53.15 | 109 | 1021 | 103 | 16.46 | 19.16 | 307 | 1203 | 260 | 0 | 76.9 | 5.8 |
| Hilleshög 9601RR | 203 | 284.1 | 95 | 5764 | 95 | 1.07 | 44.71 | 92 | 907 | 91 | 15.29 | 20.28 | 513 | 1238 | 314 | 0 | 59.2 | 6.2 |
| Hilleshög 9602RR | 205 | 292.6 | 98 | 6546 | 108 | 0.90 | 47.30 | 97 | 1060 | 106 | 15.53 | 22.33 | 352 | 1183 | 248 | 0 | 77.0 | 5.9 |
| Hilleshög 9604RR | 211 | 293.4 | 99 | 6064 | 100 | 1.00 | 47.54 | 97 | 981 | 99 | 15.66 | 20.71 | 375 | 1296 | 286 | 0 | 81.5 | 5.1 |
| Hilleshög 9610RR | 245 | 289.3 | 97 | 5670 | 93 | 0.94 | 46.29 | 95 | 906 | 91 | 15.39 | 19.62 | 390 | 1176 | 269 | 0 | 74.2 | 7.0 |
| Hilleshög 9613RR | 224 | 284.8 | 96 | 5497 | 90 | 1.03 | 44.90 | 92 | 868 | 87 | 15.27 | 19.29 | 413 | 1290 | 300 | 0 | 73.1 | 6.1 |
| Hilleshög 9615RR | 231 | 301.3 | 101 | 5834 | 96 | 1.01 | 49.99 | 102 | 967 | 97 | 16.08 | 19.39 | 381 | 1265 | 305 | 0 | 77.0 | 9.2 |
| Hilleshög 9620RR | 210 | 293.8 | 99 | 5565 | 92 | 1.02 | 47.66 | 98 | 905 | 91 | 15.69 | 18.91 | 370 | 1305 | 304 | 0 | 78.5 | 7.2 |
| Maribo 109RR | 225 | 319.5 | 107 | 5172 | 85 | 0.86 | 55.59 | 114 | 901 | 91 | 16.83 | 16.16 | 263 | 1126 | 265 | 0 | 78.8 | 5.9 |
| Maribo 301 | 209 | 299.8 | 101 | 4998 | 82 | 1.03 | 49.55 | 101 | 827 | 83 | 16.01 | 16.65 | 392 | 1332 | 298 | 0 | 76.5 | 8.2 |
| Maribo 305 | 232 | 297.8 | 100 | 5684 | 94 | 0.76 | 48.92 | 100 | 932 | 94 | 15.67 | 19.12 | 257 | 981 | 234 | 0 | 86.5 | 6.3 |
| Maribo 402 | 213 | 296.5 | 100 | 5627 | 93 | 0.86 | 48.50 | 99 | 920 | 92 | 15.67 | 18.99 | 264 | 1165 | 252 | 0 | 77.7 | 5.6 |
| Maribo 403 | 228 | 303.1 | 102 | 6849 | 113 | 0.87 | 50.53 | 103 | 1140 | 115 | 16.02 | 22.63 | 301 | 1139 | 253 | 0 | 85.7 | 4.2 |
| Maribo MA102RR | 216 | 306.8 | 103 | 5783 | 95 | 0.84 | 51.69 | 106 | 973 | 98 | 16.18 | 18.87 | 287 | 1045 | 263 | 0 | 70.1 | 5.1 |
| Seedex RR0832 | 227 | 308.5 | 104 | 6710 | 110 | 0.97 | 52.22 | 107 | 1135 | 114 | 16.39 | 21.77 | 316 | 1255 | 298 | 0 | 69.2 | 6.0 |
| Seedex RR842 | 235 | 299.8 | 101 | 6664 | 110 | 0.90 | 49.53 | 101 | 1098 | 110 | 15.88 | 22.29 | 296 | 1189 | 262 | 0 | 63.8 | 5.4 |
| Seedex RR844TT | 218 | 300.1 | 101 | 6482 | 107 | 0.93 | 49.62 | 102 | 1072 | 108 | 15.94 | 21.60 | 297 | 1292 | 260 | 0 | 70.1 | 5.4 |
| Seedex RR846 | 243 | 281.1 | 94 | 6452 | 106 | 0.93 | 43.75 | 90 | 1004 | 101 | 14.99 | 22.96 | 419 | 1106 | 277 | 0 | 65.5 | 5.1 |
| Seedex RR848 | 246 | 288.9 | 97 | 6718 | 111 | 0.91 | 46.14 | 94 | 1070 | 107 | 15.37 | 23.35 | 362 | 1170 | 260 | 0 | 60.3 | 3.4 |
| SV RR241 | 214 | 287.5 | 97 | 5940 | 98 | 0.87 | 45.74 | 94 | 945 | 95 | 15.25 | 20.67 | 269 | 1122 | 273 | 0 | 67.6 | 6.1 |
| SV RR242TT | 229 | 283.7 | 95 | 6467 | 106 | 0.96 | 44.55 | 91 | 1015 | 102 | 15.16 | 22.83 | 350 | 1230 | 287 | 0 | 68.7 | 6.3 |
| SV RR243 | 207 | 294.4 | 99 | 6364 | 105 | 0.96 | 47.89 | 98 | 1035 | 104 | 15.67 | 21.61 | 338 | 1266 | 277 | 0 | 66.8 | 4.6 |
| SV RR244TT | 240 | 284.4 | 96 | 6655 | 110 | 0.82 | 44.77 | 92 | 1048 | 105 | 15.05 | 23.39 | 280 | 1106 | 236 | 0 | 65.0 | 4.2 |
| SV RR245N | 238 | 289.6 | 97 | 5284 | 87 | 0.92 | 46.40 | 95 | 846 | 85 | 15.39 | 18.25 | 343 | 1189 | 266 | 0 | 74.3 | 7.8 |
| SV RR246 | 248 | 312.9 | 105 | 5884 | 97 | 0.87 | 53.57 | 110 | 1006 | 101 | 16.52 | 18.83 | 245 | 1195 | 261 | 0 | 74.0 | 6.6 |
| SV RR247 | 239 | 314.4 | 106 | 5422 | 89 | 0.95 | 54.03 | 111 | 931 | 94 | 16.68 | 17.25 | 318 | 1235 | 288 | 0 | 63.4 | 7.8 |
| SV RR248 | 204 | 291.7 | 98 | 5667 | 93 | 0.98 | 47.01 | 96 | 912 | 92 | 15.57 | 19.45 | 333 | 1306 | 288 | 0 | 64.0 | 5.4 |
| SV RR333 | 212 | 298.6 | 100 | 6195 | 102 | 0.93 | 49.16 | 101 | 1019 | 102 | 15.85 | 20.77 | 296 | 1285 | 262 | 0 | 75.6 | 6.3 |
| SV RR336 | 226 | 291.8 | 98 | 6282 | 103 | 0.88 | 47.06 | 96 | 1013 | 102 | 15.47 | 21.53 | 284 | 1120 | 270 | 0 | 72.2 | 6.4 |
| Root Aphid Susc Chk | 250 | 303.0 | 102 | 5497 | 90 | 0.89 | 50.51 | 103 | 917 | 92 | 16.05 | 18.14 | 281 | 1167 | 269 | 0 | 66.6 | 9.7 |
| Hilleshög 4012RR(Check) | 251 | 293.2 | 99 | 5650 | 93 | 0.96 | 47.48 | 97 | 913 | 92 | 15.62 | 19.31 | 426 | 1064 | 306 | 0 | 89.2 | 9.9 |
| Crystal 875RR(Check) | 252 | 292.6 | 98 | 6288 | 104 | 1.05 | 47.30 | 97 | 1016 | 102 | 15.67 | 21.50 | 417 | 1297 | 317 | 0 | 70.4 | 8.3 |
| BTS 80RR52(Check) | 253 | 300.7 | 101 | 5983 | 98 | 0.97 | 49.81 | 102 | 989 | 99 | 16.00 | 19.94 | 283 | 1318 | 294 | 0 | 72.1 | 7.9 |
| BTS 81RR17(Check) | 254 | 298.7 | 100 | 6074 | 100 | 1.06 | 49.18 | 101 | 1001 | 101 | 16.00 | 20.33 | 340 | 1283 | 356 | 0 | 71.7 | 8.0 |
| Trial Mean | | 297.6 | | 6075 | | 0.95 | 48.86 | | 996 | | 15.83 | 20.45 | 337 | 1222 | 280 | | 72.3 | 6.5 |
| Coeff. of Var. (%) | | 2.1 | | 6.4 | | 7.0 | 3.9 | | 7.3 | | 1.8 | 6.0 | 15.1 | 7.1 | 11.6 | | 10.2 | 17.6 |
| Mean LSD (0.05) | | 9.7 | | 607 | | 0.09 | 3.01 | | 113 | | 0.46 | 1.92 | 78 | 126 | 46 | | 11.1 | 1.8 |
| Mean LSD (0.01) | | 12.9 | | 802 | | 0.12 | 3.97 | | 149 | | 0.61 | 2.53 | 103 | 166 | 60 | | 14.7 | 2.4 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from St Thomas ND 10/22/2014 11:25 Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac. Trial # = 148309

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 25.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

Stephen MN - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8354 | 222 | 369.5 | 105 | 9596 | 98 | 0.80 | 71.69 | 108 | 1860 | 101 | 19.29 | 25.91 | 143 | 1472 | 179 | 0 | 75.4 | 5.6 |
| BTS 8363 | 241 | 358.6 | 101 | 8948 | 91 | 0.95 | 68.30 | 102 | 1703 | 92 | 18.87 | 25.01 | 153 | 1672 | 232 | 0 | 73.5 | 4.7 |
| BTS 8367 | 233 | 348.8 | 99 | 10048 | 102 | 0.81 | 65.23 | 98 | 1876 | 102 | 18.26 | 28.93 | 144 | 1507 | 179 | 95 | 73.6 | 5.1 |
| BTS 83CN | 208 | 346.8 | 98 | 10904 | 111 | 0.89 | 64.59 | 97 | 2032 | 110 | 18.22 | 31.57 | 177 | 1636 | 187 | 0 | 75.5 | 4.0 |
| BTS 8402 | 223 | 348.6 | 99 | 9889 | 101 | 0.83 | 65.18 | 98 | 1847 | 100 | 18.27 | 28.45 | 139 | 1439 | 210 | 0 | 79.2 | 4.5 |
| BTS 8404 | 215 | 352.7 | 100 | 9899 | 101 | 0.87 | 66.42 | 100 | 1856 | 100 | 18.51 | 28.26 | 160 | 1564 | 201 | 0 | 83.9 | 4.4 |
| BTS 8405 | 244 | 358.3 | 101 | 10392 | 106 | 0.85 | 68.16 | 102 | 1984 | 107 | 18.77 | 28.89 | 125 | 1461 | 225 | 0 | 76.8 | 5.1 |
| BTS 8406 | 219 | 370.3 | 105 | 9835 | 100 | 0.79 | 71.93 | 108 | 1910 | 103 | 19.33 | 26.49 | 105 | 1411 | 204 | 0 | 75.2 | 4.9 |
| BTS 8408 | 236 | 358.4 | 101 | 9971 | 102 | 0.82 | 68.20 | 102 | 1896 | 103 | 18.75 | 27.98 | 129 | 1432 | 213 | 0 | 73.9 | 3.4 |
| BTS 840N | 217 | 354.3 | 100 | 10347 | 105 | 0.97 | 66.95 | 100 | 1952 | 106 | 18.69 | 29.17 | 200 | 1625 | 246 | 0 | 78.2 | 7.8 |
| BTS 85RR02 | 206 | 350.6 | 99 | 8498 | 87 | 0.98 | 65.79 | 99 | 1592 | 86 | 18.51 | 24.32 | 163 | 1688 | 252 | 0 | 82.2 | 7.3 |
| Crystal 356RR | 234 | 356.7 | 101 | 9164 | 93 | 0.94 | 67.67 | 101 | 1734 | 94 | 18.76 | 25.82 | 155 | 1581 | 248 | 0 | 82.3 | 6.3 |
| Crystal 464RR | 242 | 358.0 | 101 | 10360 | 106 | 0.94 | 68.07 | 102 | 1967 | 106 | 18.83 | 29.06 | 181 | 1664 | 214 | 0 | 70.0 | 4.7 |
| Crystal 465RR | 201 | 355.3 | 100 | 9854 | 100 | 0.86 | 67.24 | 101 | 1862 | 101 | 18.64 | 27.88 | 153 | 1561 | 203 | 0 | 77.8 | 6.8 |
| Crystal 466RR | 220 | 359.0 | 102 | 10078 | 103 | 0.93 | 68.42 | 103 | 1919 | 104 | 18.88 | 28.04 | 168 | 1577 | 237 | 95 | 81.9 | 3.9 |
| Crystal 467RR | 230 | 357.3 | 101 | 10612 | 108 | 0.85 | 67.87 | 102 | 2018 | 109 | 18.74 | 29.56 | 151 | 1536 | 202 | 576 | 66.9 | 4.7 |
| Crystal 468RR | 221 | 345.9 | 98 | 10381 | 106 | 0.90 | 64.31 | 96 | 1931 | 104 | 18.19 | 30.07 | 199 | 1584 | 199 | 0 | 69.7 | 5.9 |
| Crystal 469RR | 202 | 348.8 | 99 | 10145 | 103 | 0.90 | 65.23 | 98 | 1888 | 102 | 18.34 | 29.22 | 168 | 1506 | 236 | 0 | 76.2 | 4.0 |
| Crystal 539RR | 249 | 363.8 | 103 | 10623 | 108 | 0.93 | 69.87 | 105 | 2036 | 110 | 19.11 | 29.29 | 175 | 1694 | 203 | 0 | 74.8 | 3.6 |
| Hilleshög 9522RR | 247 | 355.2 | 100 | 8324 | 85 | 0.95 | 67.21 | 101 | 1576 | 85 | 18.71 | 23.46 | 220 | 1627 | 219 | 0 | 71.5 | 4.1 |
| Hilleshög 9531RR | 237 | 365.6 | 103 | 10131 | 103 | 0.76 | 70.46 | 106 | 1949 | 105 | 19.05 | 27.84 | 135 | 1396 | 169 | 0 | 76.0 | 3.8 |
| Hilleshög 9610RR | 203 | 355.8 | 101 | 8491 | 87 | 0.87 | 67.42 | 101 | 1611 | 87 | 18.68 | 23.79 | 192 | 1575 | 190 | 0 | 71.1 | 4.4 |
| Hilleshög AgateRR | 205 | 343.6 | 97 | 10312 | 105 | 0.82 | 63.61 | 95 | 1911 | 103 | 18.01 | 29.99 | 170 | 1519 | 175 | 0 | 76.1 | 3.6 |
| Hilleshög 9613RR | 211 | 333.9 | 94 | 10068 | 103 | 0.93 | 60.57 | 91 | 1828 | 99 | 17.62 | 30.15 | 185 | 1608 | 222 | 95 | 75.5 | 2.9 |
| Hilleshög 9615RR | 245 | 348.6 | 99 | 8294 | 85 | 0.74 | 65.18 | 98 | 1553 | 84 | 18.18 | 23.72 | 151 | 1341 | 162 | 0 | 63.0 | 4.5 |
| Hilleshög 9620RR | 224 | 330.9 | 94 | 9292 | 95 | 0.96 | 59.63 | 89 | 1674 | 91 | 17.49 | 28.14 | 219 | 1552 | 247 | 0 | 73.2 | 4.4 |
| Hilleshög 9602RR | 231 | 351.3 | 99 | 9480 | 97 | 0.94 | 66.02 | 99 | 1778 | 96 | 18.50 | 27.04 | 198 | 1507 | 251 | 0 | 74.0 | 5.7 |
| Hilleshög Agate | 210 | 355.3 | 100 | 9379 | 96 | 0.90 | 67.23 | 101 | 1773 | 96 | 18.66 | 26.52 | 193 | 1588 | 203 | 0 | 70.2 | 3.0 |
| Maribo 202RR | 225 | 368.7 | 104 | 8287 | 84 | 0.83 | 71.42 | 107 | 1611 | 87 | 19.27 | 22.34 | 130 | 1538 | 190 | 0 | 70.5 | 4.0 |
| Maribo 306RR | 209 | 360.0 | 102 | 9326 | 95 | 0.95 | 68.71 | 103 | 1774 | 96 | 18.95 | 25.99 | 202 | 1644 | 224 | 0 | 74.4 | 3.6 |
| Maribo 307RR | 232 | 351.4 | 99 | 10629 | 108 | 0.74 | 66.04 | 99 | 2000 | 108 | 18.32 | 30.19 | 149 | 1288 | 175 | 0 | 76.1 | 3.4 |
| Maribo 409 | 213 | 349.9 | 99 | 10101 | 103 | 0.78 | 65.56 | 98 | 1888 | 102 | 18.29 | 29.05 | 142 | 1412 | 180 | 0 | 85.3 | 3.5 |
| Maribo 9363 | 228 | 346.8 | 98 | 11280 | 115 | 0.80 | 64.60 | 97 | 2104 | 114 | 18.16 | 32.50 | 165 | 1463 | 176 | 0 | 80.1 | 4.4 |
| Maribo 105RR | 216 | 359.2 | 102 | 10949 | 112 | 0.79 | 68.47 | 103 | 2087 | 113 | 18.76 | 30.54 | 136 | 1421 | 193 | 0 | 73.1 | 2.6 |
| Seedex RR0835 | 227 | 345.3 | 98 | 9956 | 101 | 0.86 | 64.13 | 96 | 1850 | 100 | 18.14 | 28.82 | 170 | 1556 | 194 | 0 | 74.4 | 5.2 |
| Seedex RR848 | 235 | 355.8 | 101 | 10193 | 104 | 0.85 | 67.43 | 101 | 1927 | 104 | 18.66 | 28.76 | 151 | 1510 | 204 | 95 | 73.1 | 4.0 |
| Seedex RR0935 | 218 | 354.9 | 100 | 10260 | 105 | 0.84 | 67.12 | 101 | 1939 | 105 | 18.59 | 28.98 | 138 | 1526 | 196 | 0 | 74.2 | 4.2 |
| Seedex RR0936 | 243 | 355.0 | 100 | 10803 | 110 | 0.89 | 67.16 | 101 | 2036 | 110 | 18.64 | 30.63 | 151 | 1538 | 218 | 0 | 72.5 | 2.4 |
| Seedex RR0937NTT | 246 | 352.5 | 100 | 10682 | 109 | 0.89 | 66.36 | 100 | 2010 | 109 | 18.51 | 30.30 | 170 | 1494 | 222 | 0 | 73.3 | 3.9 |
| SESVdh RR244TT | 214 | 353.8 | 100 | 9848 | 100 | 0.83 | 66.78 | 100 | 1854 | 100 | 18.53 | 28.00 | 127 | 1457 | 215 | 0 | 79.3 | 3.2 |
| SESVdh RR245N | 229 | 339.5 | 96 | 10129 | 103 | 0.86 | 62.35 | 94 | 1855 | 100 | 17.85 | 29.91 | 151 | 1525 | 208 | 0 | 86.6 | 4.0 |
| SESVdh RR246 | 207 | 349.0 | 99 | 9340 | 95 | 0.82 | 65.29 | 98 | 1744 | 94 | 18.28 | 26.91 | 144 | 1479 | 194 | 0 | 68.3 | 4.1 |
| SESVdh RR247 | 240 | 339.9 | 96 | 10416 | 106 | 0.84 | 62.47 | 94 | 1910 | 103 | 17.85 | 30.79 | 146 | 1468 | 214 | 0 | 71.0 | 4.1 |
| SESVdh RR248 | 238 | 351.4 | 99 | 8085 | 82 | 0.84 | 66.04 | 99 | 1519 | 82 | 18.43 | 23.02 | 151 | 1430 | 223 | 0 | 80.4 | 7.7 |
| SESVdh RR331 | 248 | 364.0 | 103 | 8508 | 87 | 0.78 | 69.97 | 105 | 1630 | 88 | 19.00 | 23.48 | 123 | 1470 | 172 | 0 | 74.2 | 6.3 |
| SESVdh RR332 | 239 | 372.1 | 105 | 8999 | 92 | 0.84 | 72.45 | 109 | 1755 | 95 | 19.46 | 24.03 | 137 | 1486 | 205 | 0 | 79.8 | 5.2 |
| SESVdh RR333 | 204 | 347.7 | 98 | 9224 | 94 | 0.92 | 64.89 | 97 | 1725 | 93 | 18.30 | 26.44 | 142 | 1597 | 229 | 0 | 67.5 | 4.3 |
| SESVdh RR336 | 212 | 353.5 | 100 | 9858 | 100 | 0.86 | 66.69 | 100 | 1860 | 101 | 18.55 | 27.88 | 141 | 1520 | 214 | 0 | 77.8 | 4.4 |
| SESVdh RR633 | 226 | 357.1 | 101 | 10148 | 103 | 0.87 | 67.82 | 102 | 1922 | 104 | 18.74 | 28.56 | 143 | 1517 | 223 | 0 | 81.6 | 4.2 |
| Red Beet Hybrid | 250 | 347.3 | 98 | 9280 | 95 | 0.84 | 64.75 | 97 | 1732 | 94 | 18.21 | 26.74 | 148 | 1523 | 195 | 0 | 72.4 | 6.1 |
| Hilleshög 4012RR(Check) | 251 | 349.7 | 99 | 10071 | 103 | 0.91 | 65.49 | 98 | 1881 | 102 | 18.40 | 28.86 | 211 | 1550 | 216 | 0 | 84.4 | 3.4 |
| Crystal 875RR(Check) | 252 | 349.0 | 99 | 10021 | 102 | 1.02 | 65.27 | 98 | 1877 | 102 | 18.46 | 28.67 | 214 | 1734 | 255 | 0 | 75.4 | 5.7 |
| BTS 80RR52(Check) | 253 | 361.3 | 102 | 10128 | 103 | 0.93 | 69.12 | 104 | 1934 | 105 | 19.00 | 28.13 | 156 | 1599 | 238 | 0 | 81.9 | 5.6 |
| BTS 81RR17(Check) | 254 | 352.7 | 100 | 10023 | 102 | 1.01 | 66.42 | 100 | 1889 | 102 | 18.64 | 28.40 | 169 | 1697 | 264 | 0 | 77.4 | 5.7 |
| Trial Mean | | 353.5 | | 9812 | | 0.87 | 66.69 | | 1849 | | 18.55 | 27.82 | 160 | 1533 | 210 | | 75.6 | 4.6 |
| Coeff. of Var. (%) | | 1.7 | | 4.0 | | 4.7 | 2.8 | | 4.7 | | 1.6 | 3.5 | 10.4 | 3.1 | 11.7 | | 7.8 | 27.3 |
| Mean LSD (0.05) | | 8.9 | | 601 | | 0.06 | 2.78 | | 129 | | 0.44 | 1.54 | 26 | 77 | 36 | | 9.3 | 1.9 |
| Mean LSD (0.01) | | 11.8 | | 794 | | 0.08 | 3.67 | | 170 | | 0.58 | 2.03 | 34 | 102 | 48 | | 12.3 | 2.5 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Stephen MN

10/22/2014 11:28

Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

Trial # = 148310

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 26.

2014 Performance of Varieties - ACSC Experimental RR Official Trial

Bathgate ND - All Characters

| **Adjusted to Comm. Trial Status** | | Rec/T | Rec/T | Rec/A | Rec/A | Loss | Rev/T | Rev/T | Rev/A | Rev/A | Sugar | Yield | Na | K | AmN | Bolter | Emerg. | Tare |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Description @ | Code | lbs. | %Mean | lbs. | %Mean | Mol % | $ ++ | %Mean | $ ++ | %Mean | % | T/A | ppm | ppm | ppm | /Ac ^ | %^ | % |
| BTS 8337 | 222 | 344.7 | 104 | 7395 | 93 | 1.02 | 63.74 | 108 | 1372 | 96 | 18.27 | 21.64 | 234 | 1704 | 252 | 0 | 84.7 | 4.5 |
| BTS 8354 | 241 | 332.2 | 101 | 7767 | 98 | 1.14 | 59.84 | 101 | 1401 | 98 | 17.76 | 23.54 | 228 | 1801 | 322 | 0 | 89.2 | 4.1 |
| BTS 8363 | 233 | 327.5 | 99 | 8363 | 106 | 0.99 | 58.39 | 99 | 1505 | 105 | 17.38 | 25.60 | 207 | 1640 | 249 | 95 | 85.6 | 2.8 |
| BTS 8390 | 208 | 310.7 | 94 | 8488 | 107 | 1.11 | 53.21 | 90 | 1458 | 102 | 16.66 | 27.28 | 319 | 1780 | 271 | 0 | 87.6 | 5.6 |
| BTS 83CN | 223 | 328.7 | 100 | 8496 | 107 | 1.01 | 58.78 | 99 | 1528 | 107 | 17.46 | 25.65 | 218 | 1654 | 255 | 0 | 87.3 | 3.7 |
| BTS 8402 | 215 | 333.9 | 101 | 7306 | 92 | 1.10 | 60.39 | 102 | 1336 | 94 | 17.81 | 21.72 | 233 | 1783 | 293 | 0 | 93.0 | 3.3 |
| BTS 8404 | 244 | 331.0 | 100 | 7411 | 94 | 1.04 | 59.48 | 100 | 1340 | 94 | 17.59 | 22.35 | 214 | 1636 | 286 | 0 | 85.0 | 2.5 |
| BTS 8405 | 219 | 345.0 | 105 | 7621 | 96 | 0.99 | 63.82 | 108 | 1422 | 100 | 18.25 | 22.15 | 167 | 1615 | 271 | 0 | 85.6 | 4.4 |
| BTS 8406 | 236 | 335.5 | 102 | 7497 | 95 | 1.04 | 60.87 | 103 | 1367 | 96 | 17.84 | 22.40 | 266 | 1695 | 252 | 0 | 83.6 | 2.5 |
| BTS 8408 | 217 | 331.0 | 100 | 7846 | 99 | 1.15 | 59.46 | 100 | 1410 | 99 | 17.70 | 23.82 | 290 | 1715 | 330 | 0 | 85.8 | 5.6 |
| BTS 840N | 206 | 320.7 | 97 | 6810 | 86 | 1.26 | 56.28 | 95 | 1196 | 84 | 17.29 | 21.27 | 311 | 1795 | 374 | 0 | 89.0 | 3.6 |
| Crystal 355RR | 234 | 341.3 | 103 | 7753 | 98 | 1.12 | 62.68 | 106 | 1439 | 101 | 18.20 | 22.56 | 258 | 1731 | 312 | 0 | 86.4 | 3.8 |
| Crystal 359RR | 242 | 327.2 | 99 | 8443 | 107 | 1.17 | 58.30 | 98 | 1508 | 106 | 17.55 | 25.92 | 300 | 1821 | 311 | 95 | 86.9 | 6.1 |
| Crystal 464RR | 201 | 334.8 | 101 | 7871 | 99 | 1.10 | 60.66 | 102 | 1437 | 101 | 17.86 | 23.52 | 239 | 1721 | 306 | 0 | 91.4 | 3.4 |
| Crystal 465RR | 220 | 334.4 | 101 | 8250 | 104 | 1.09 | 60.53 | 102 | 1502 | 105 | 17.84 | 24.60 | 238 | 1744 | 290 | 0 | 91.0 | 2.3 |
| Crystal 466RR | 230 | 330.6 | 100 | 8145 | 103 | 1.06 | 59.33 | 100 | 1471 | 103 | 17.59 | 24.67 | 204 | 1772 | 277 | 576 | 77.9 | 2.3 |
| Crystal 467RR | 221 | 327.3 | 99 | 8494 | 107 | 1.04 | 58.35 | 99 | 1527 | 107 | 17.41 | 26.04 | 267 | 1715 | 248 | 0 | 84.9 | 3.9 |
| Crystal 468RR | 202 | 319.9 | 97 | 8235 | 104 | 1.07 | 56.03 | 95 | 1450 | 102 | 17.08 | 25.84 | 289 | 1658 | 278 | 0 | 83.6 | 4.3 |
| Crystal 469RR | 249 | 336.3 | 102 | 7778 | 98 | 1.24 | 61.13 | 103 | 1423 | 100 | 18.05 | 23.09 | 290 | 1971 | 321 | 0 | 87.6 | 4.4 |
| Hilleshög 9517RR | 247 | 337.9 | 102 | 7441 | 94 | 1.06 | 61.61 | 104 | 1360 | 95 | 17.96 | 22.06 | 274 | 1703 | 264 | 0 | 72.0 | 3.0 |
| Hilleshög 9528RR | 237 | 334.3 | 101 | 8090 | 102 | 1.09 | 60.50 | 102 | 1476 | 103 | 17.82 | 24.09 | 233 | 1644 | 316 | 0 | 79.1 | 3.9 |
| Hilleshög 9601RR | 203 | 331.0 | 100 | 7651 | 97 | 1.11 | 59.48 | 100 | 1389 | 97 | 17.67 | 22.90 | 328 | 1695 | 285 | 0 | 71.2 | 2.3 |
| Hilleshög 9602RR | 205 | 317.3 | 96 | 8346 | 105 | 1.02 | 55.22 | 93 | 1455 | 102 | 16.89 | 26.34 | 250 | 1620 | 262 | 0 | 90.3 | 2.5 |
| Hilleshög 9604RR | 211 | 320.7 | 97 | 8383 | 106 | 1.08 | 56.29 | 95 | 1476 | 103 | 17.12 | 26.03 | 196 | 1748 | 291 | 0 | 78.3 | 2.3 |
| Hilleshög 9610RR | 245 | 330.2 | 100 | 6988 | 88 | 0.99 | 59.21 | 100 | 1265 | 89 | 17.52 | 20.93 | 216 | 1642 | 246 | 0 | 65.6 | 2.0 |
| Hilleshög 9613RR | 224 | 312.3 | 95 | 6732 | 85 | 1.16 | 53.69 | 91 | 1164 | 82 | 16.78 | 21.44 | 322 | 1886 | 276 | 0 | 80.6 | 1.8 |
| Hilleshög 9615RR | 231 | 331.8 | 101 | 7128 | 90 | 1.14 | 59.74 | 101 | 1290 | 90 | 17.73 | 21.43 | 269 | 1704 | 327 | 0 | 76.4 | 5.4 |
| Hilleshög 9620RR | 210 | 332.7 | 101 | 8109 | 102 | 1.09 | 60.00 | 101 | 1478 | 104 | 17.73 | 23.96 | 259 | 1737 | 284 | 194 | 78.7 | 3.3 |
| Maribo 109RR | 225 | 348.3 | 106 | 7273 | 92 | 1.04 | 64.81 | 109 | 1362 | 95 | 18.48 | 20.77 | 188 | 1738 | 270 | 0 | 77.4 | 2.7 |
| Maribo 301 | 209 | 340.9 | 103 | 7677 | 97 | 1.05 | 62.53 | 106 | 1414 | 99 | 18.12 | 22.29 | 249 | 1735 | 260 | 0 | 78.3 | 3.7 |
| Maribo 305 | 232 | 330.8 | 100 | 8008 | 101 | 0.91 | 59.39 | 100 | 1445 | 101 | 17.47 | 24.25 | 174 | 1472 | 249 | 0 | 76.0 | 2.4 |
| Maribo 402 | 213 | 313.9 | 95 | 7930 | 100 | 1.06 | 54.19 | 92 | 1371 | 96 | 16.74 | 25.29 | 293 | 1607 | 281 | 0 | 88.6 | 6.5 |
| Maribo 403 | 228 | 328.9 | 100 | 8504 | 107 | 1.02 | 58.83 | 99 | 1524 | 107 | 17.47 | 25.86 | 232 | 1622 | 269 | 0 | 78.8 | 2.8 |
| Maribo MA102RR | 216 | 338.4 | 103 | 8392 | 106 | 0.98 | 61.76 | 104 | 1544 | 108 | 17.91 | 24.58 | 186 | 1568 | 267 | 0 | 75.5 | 2.4 |
| Seedex RR0832 | 227 | 325.7 | 99 | 8169 | 103 | 1.00 | 57.83 | 98 | 1455 | 102 | 17.28 | 25.14 | 240 | 1602 | 256 | 0 | 83.7 | 5.9 |
| Seedex RR842 | 235 | 338.1 | 102 | 8451 | 107 | 0.98 | 61.66 | 104 | 1544 | 108 | 17.88 | 25.07 | 188 | 1596 | 259 | 0 | 78.5 | 2.3 |
| Seedex RR844TT | 218 | 323.9 | 98 | 8604 | 109 | 1.02 | 57.29 | 97 | 1526 | 107 | 17.22 | 26.68 | 201 | 1682 | 266 | 0 | 84.9 | 4.2 |
| Seedex RR846 | 243 | 318.0 | 96 | 8476 | 107 | 1.10 | 55.44 | 94 | 1490 | 104 | 17.02 | 26.62 | 291 | 1641 | 309 | 0 | 86.6 | 3.6 |
| Seedex RR848 | 246 | 326.5 | 99 | 8196 | 103 | 1.04 | 58.09 | 98 | 1470 | 103 | 17.38 | 24.99 | 229 | 1612 | 294 | 0 | 80.2 | 3.3 |
| SV RR241 | 214 | 333.7 | 101 | 7976 | 101 | 1.03 | 60.32 | 102 | 1448 | 101 | 17.73 | 23.85 | 202 | 1618 | 292 | 0 | 92.9 | 5.9 |
| SV RR242TT | 229 | 320.8 | 97 | 8879 | 112 | 1.04 | 56.33 | 95 | 1563 | 110 | 17.09 | 27.69 | 245 | 1611 | 287 | 0 | 86.0 | 4.1 |
| SV RR243 | 207 | 329.5 | 100 | 8036 | 101 | 1.06 | 59.02 | 100 | 1456 | 102 | 17.56 | 24.23 | 246 | 1689 | 279 | 0 | 78.8 | 2.8 |
| SV RR244TT | 240 | 314.1 | 95 | 9467 | 119 | 1.05 | 54.25 | 92 | 1635 | 115 | 16.77 | 30.16 | 203 | 1709 | 279 | 0 | 84.4 | 2.1 |
| SV RR245N | 238 | 328.5 | 100 | 6967 | 88 | 0.97 | 58.70 | 99 | 1252 | 88 | 17.41 | 21.13 | 190 | 1536 | 266 | 0 | 80.2 | 4.2 |
| SV RR246 | 248 | 345.2 | 105 | 7640 | 96 | 0.99 | 63.88 | 108 | 1418 | 99 | 18.27 | 22.24 | 175 | 1665 | 261 | 0 | 83.2 | 4.2 |
| SV RR247 | 239 | 340.5 | 103 | 7258 | 92 | 1.06 | 62.42 | 105 | 1335 | 94 | 18.10 | 21.35 | 254 | 1735 | 266 | 0 | 82.9 | 3.8 |
| SV RR248 | 204 | 325.4 | 99 | 7474 | 94 | 1.09 | 57.73 | 98 | 1338 | 94 | 17.36 | 22.89 | 236 | 1786 | 284 | 194 | 78.4 | 3.5 |
| SV RR333 | 212 | 332.9 | 101 | 8926 | 113 | 1.05 | 60.06 | 101 | 1611 | 113 | 17.70 | 26.92 | 200 | 1633 | 302 | 0 | 85.9 | 4.3 |
| SV RR336 | 226 | 332.7 | 101 | 8093 | 102 | 1.00 | 60.01 | 101 | 1465 | 103 | 17.65 | 24.33 | 172 | 1606 | 284 | 0 | 89.2 | 4.1 |
| Root Aphid Susc Chk | 250 | 331.4 | 100 | 7629 | 96 | 1.07 | 59.61 | 101 | 1380 | 97 | 17.64 | 22.87 | 240 | 1731 | 278 | 0 | 78.0 | 4.4 |
| Hilleshög 4012RR(Check) | 251 | 328.9 | 100 | 7659 | 97 | 1.09 | 58.82 | 99 | 1372 | 96 | 17.54 | 23.31 | 274 | 1699 | 289 | 0 | 85.2 | 5.7 |
| Crystal 875RR(Check) | 252 | 325.8 | 99 | 7982 | 101 | 1.16 | 57.85 | 98 | 1423 | 100 | 17.46 | 24.60 | 297 | 1771 | 319 | 0 | 85.5 | 3.7 |
| BTS 80RR52(Check) | 253 | 332.9 | 101 | 7691 | 97 | 1.10 | 60.05 | 101 | 1386 | 97 | 17.73 | 23.17 | 225 | 1707 | 313 | 0 | 83.5 | 4.8 |
| BTS 81RR17(Check) | 254 | 330.7 | 100 | 7697 | 97 | 1.15 | 59.37 | 100 | 1391 | 97 | 17.69 | 23.28 | 230 | 1782 | 331 | 0 | 83.3 | 3.5 |
| Trial Mean | | 330.1 | | 7924 | | 1.07 | 59.21 | | 1427 | | 17.58 | 24.01 | 240 | 1694 | 284 | | 83.0 | 3.7 |
| Coeff. of Var. (%) | | 2.3 | | 6.1 | | 5.6 | 4.0 | | 6.8 | | 2.1 | 5.8 | 15.3 | 4.8 | 9.7 | | 8.4 | 48.0 |
| Mean LSD (0.05) | | 11.7 | | 685 | | 0.09 | 3.61 | | 136 | | 0.56 | 2.09 | 60 | 130 | 45 | | 10.5 | 2.6 |
| Mean LSD (0.01) | | 15.4 | | 904 | | 0.12 | 4.77 | | 179 | | 0.74 | 2.76 | 80 | 172 | 59 | | 13.9 | 3.5 |
| Sig Lvl | | ** | | ** | | ** | ** | | ** | | ** | ** | ** | ** | ** | | ** | * |

* 2014 Data from Bathgate ND

10/22/2014 11:38

Created 10-27-2014.

^ Vigor not collected. Bolter & emergence not adjusted to commercial status. Bolter / Ac based upon 45,000 plants / Ac.

Trial # = 148311

@ Some varieties not approved for sale. Refer to approval list for approval status.

++ Revenue estimates are based on a $55.98 beet payment at 17.5 % sugar and 1.5 % loss to molasses. Revenue does not consider hauling costs.

Table 27

Calculation for Approval of Sugarbeet Varieties for ACSC Market for 2015

| Description | Approval Status | Rec/Ton 2013 | Rec/Ton 2014 | Rec/Ton 2 Yr | Rec/Ton % Bench | Rev/Acre 2013 | Rev/Acre 2014 | Rev/Acre 2 Yr | Rev/Acre % Bench | R/T + $/A Bench | Cercospora Rating + 2012 | 2013 | 2014 | 2 Yr Mean | 3 Yr Mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Previously Approved (3 Yr)** | | | | | | | | | | | | | | | <=5.40 |
| BTS 80RR32 | Approved | 326.8 | 307.7 | 317.3 | 100.2 | 1544 | 1519 | 1531.5 | 106.6 | 206.8 | 4.66 | 4.81 | 4.69 | | 4.72 |
| BTS 80RR52 | Approved | 325.5 | 318.4 | 322.0 | 101.7 | 1527 | 1530 | 1528.5 | 106.4 | 208.1 | 4.40 | 4.52 | 4.22 | | 4.38 |
| BTS 81RR17 | Approved | 319.5 | 315.0 | 317.3 | 100.2 | 1371 | 1443 | 1407.0 | 98.0 | 198.1 | 4.36 | 4.45 | 3.96 | | 4.26 |
| BTS 82RR22 | Approved | 342.6 | 329.8 | 336.2 | 106.2 | 1523 | 1515 | 1519.1 | 105.8 | 211.9 | 4.65 | 4.77 | 4.55 | | 4.66 |
| BTS 82RR28 | Approved | 324.1 | 314.6 | 319.4 | 100.8 | 1552 | 1548 | 1550.0 | 107.9 | 208.8 | 4.66 | 4.52 | 4.62 | | 4.60 |
| BTS 82RR33 | Approved | 325.1 | 313.0 | 319.0 | 100.7 | 1603 | 1596 | 1599.3 | 111.4 | 212.1 | 4.74 | 4.68 | 4.70 | | 4.71 |
| BTS 82RR80 | Approved | 331.0 | 322.6 | 326.8 | 103.2 | 1396 | 1519 | 1457.3 | 101.5 | 204.7 | 4.77 | 4.62 | 4.62 | | 4.67 |
| BTS 89RR83 | Approved | 317.0 | 303.1 | 310.1 | 97.9 | 1442 | 1474 | 1458.0 | 101.5 | 199.4 | 4.89 | 4.91 | 4.61 | | 4.81 |
| Crystal 093RR | Approved | 336.7 | 326.9 | 331.8 | 104.8 | 1563 | 1565 | 1564.0 | 108.9 | 213.7 | 4.82 | 5.20 | 4.88 | | 4.97 |
| Crystal 095RR | Approved | 328.0 | 314.8 | 321.4 | 101.5 | 1504 | 1488 | 1496.0 | 104.2 | 205.7 | 4.83 | 4.75 | 4.60 | | 4.73 |
| Crystal 101RR | Approved | 322.4 | 313.7 | 318.1 | 100.4 | 1534 | 1566 | 1550.0 | 107.9 | 208.4 | 4.71 | 4.63 | 4.26 | | 4.53 |
| Crystal 246RR | Approved | 324.7 | 313.8 | 319.3 | 100.8 | 1591 | 1529 | 1560.0 | 108.6 | 209.4 | 4.49 | 4.48 | 4.52 | | 4.49 |
| Crystal 247RR | Approved | 325.7 | 314.0 | 319.8 | 101.0 | 1546 | 1613 | 1579.4 | 110.0 | 211.0 | 4.68 | 4.57 | 4.20 | | 4.48 |
| Crystal 765RR | Approved | 336.9 | 326.0 | 331.5 | 104.7 | 1511 | 1507 | 1509.0 | 105.1 | 209.7 | 4.70 | 4.82 | 4.73 | | 4.75 |
| Crystal 768RR | Approved | 328.4 | 315.8 | 322.1 | 101.7 | 1479 | 1459 | 1469.0 | 102.3 | 204.0 | 5.37 | 5.05 | 4.84 | | 5.09 |
| Crystal 875RR | Approved | 315.1 | 312.9 | 314.0 | 99.2 | 1417 | 1452 | 1434.5 | 99.9 | 199.0 | 4.26 | 4.77 | 4.12 | | 4.39 |
| Crystal 981RR | Approved | 317.5 | 314.3 | 315.9 | 99.8 | 1471 | 1530 | 1500.3 | 104.5 | 204.2 | 5.15 | 5.09 | 4.89 | | 5.05 |
| Crystal 985RR | Approved | 325.2 | 311.1 | 318.2 | 100.5 | 1422 | 1376 | 1399.0 | 97.4 | 197.9 | 4.41 | 4.49 | 4.22 | | 4.37 |
| Crystal 986RR | Approved | 337.5 | 323.2 | 330.4 | 104.3 | 1521 | 1561 | 1541.0 | 107.3 | 211.6 | 4.78 | 4.80 | 4.61 | | 4.73 |
| Hilleshög 4022RR | Approved | 319.3 | 303.5 | 311.4 | 98.3 | 1348 | 1256 | 1302.0 | 90.7 | 189.0 | 4.36 | 4.33 | 4.54 | | 4.41 |
| Hilleshög 4094RR | Approved | 315.6 | 309.6 | 312.6 | 98.7 | 1318 | 1345 | 1331.5 | 92.7 | 191.4 | 4.34 | 4.47 | 4.46 | | 4.42 |
| Hilleshög 4300RR | Approved | 312.6 | 307.9 | 310.3 | 98.0 | 1279 | 1373 | 1326.0 | 92.3 | 190.3 | 4.82 | 4.74 | 4.20 | | 4.59 |
| Hilleshög 4302RR | Approved | 328.0 | 316.2 | 322.1 | 101.7 | 1401 | 1435 | 1418.0 | 98.7 | 200.4 | 4.34 | 4.23 | 4.52 | | 4.36 |
| Hilleshög 4303RR | Approved | 330.1 | 326.1 | 328.1 | 103.6 | 1448 | 1499 | 1473.5 | 102.6 | 206.2 | 4.62 | 4.85 | 4.82 | | 4.76 |
| Hilleshög 4448RR(9448) | Approved | 326.3 | 323.0 | 324.6 | 102.5 | 1516 | 1685 | 1600.4 | 111.4 | 213.9 | 4.82 | 5.21 | 5.28 | | 5.11 |
| Maribo MA102RR | Approved | 325.4 | 325.0 | 325.2 | 102.7 | 1564 | 1636 | 1600.0 | 111.4 | 214.1 | 4.88 | 5.03 | 5.54 | | 5.15 |
| Maribo MA104RR | Approved | 335.9 | 325.0 | 330.4 | 104.3 | 1272 | 1326 | 1298.8 | 90.4 | 194.8 | 3.82 | 3.87 | 3.58 | | 3.76 |
| Seedex Victor RR | Approved | 312.0 | 304.1 | 308.1 | 97.3 | 1324 | 1391 | 1357.5 | 94.5 | 191.8 | 4.41 | 4.51 | 5.14 | | 4.69 |
| Seedex Vision RR | Approved | 327.1 | 313.2 | 320.2 | 101.1 | 1360 | 1436 | 1398.0 | 97.3 | 198.4 | 4.49 | 5.17 | 5.50 | | 5.06 |
| Seedex Xavier RR | Approved | 321.5 | 318.0 | 319.8 | 101.0 | 1306 | 1465 | 1385.5 | 96.5 | 197.4 | 4.43 | 4.85 | 5.43 | | 4.90 |
| Seedex Yukon RR(828N) | Approved | 318.1 | 308.8 | 313.5 | 99.0 | 1351 | 1344 | 1347.6 | 93.8 | 192.8 | 4.72 | 4.69 | 4.85 | | 4.75 |
| Seedex Zenith RR(829N) | Approved | 318.4 | 302.2 | 310.3 | 98.0 | 1306 | 1249 | 1277.5 | 88.9 | 186.9 | 4.84 | 4.76 | 4.53 | | 4.71 |
| SV 36175RR | Approved | 326.7 | 310.2 | 318.5 | 100.6 | 1342 | 1342 | 1342.0 | 93.4 | 194.0 | 4.22 | 4.60 | 4.54 | | 4.45 |
| SV 36271RR | Approved | 319.3 | 296.6 | 307.9 | 97.2 | 1337 | 1179 | 1257.9 | 87.6 | 184.8 | 4.65 | 4.45 | 4.21 | | 4.44 |
| SV 36272RR | Approved | 332.3 | 320.3 | 326.3 | 103.0 | 1454 | 1382 | 1418.2 | 98.7 | 201.8 | 4.17 | 4.49 | 4.61 | | 4.43 |
| SV 36273RR | Approved | 324.7 | 309.5 | 317.1 | 100.1 | 1376 | 1454 | 1414.8 | 98.5 | 198.6 | 4.19 | 4.68 | 5.05 | | 4.64 |
| SV 36918RR | Approved | 323.0 | 315.2 | 319.1 | 100.8 | 1306 | 1361 | 1333.5 | 92.8 | 193.6 | 4.28 | 4.61 | 4.84 | | 4.58 |
| **Candidates for Approval (2 Yr)** | | | | | | | | | | | | | | <=5.20 | |
| BTS 8337 | Approved | 337.2 | 329.6 | 333.4 | 105.3 | 1535 | 1468 | 1501.4 | 104.5 | 209.8 | -- | 4.75 | 4.52 | 4.63 | -- |
| BTS 8354 | Approved | 327.7 | 317.7 | 322.7 | 101.9 | 1387 | 1393 | 1390.0 | 96.8 | 198.7 | -- | 4.80 | 4.39 | 4.59 | -- |
| BTS 8363 | Approved | 321.6 | 311.8 | 316.7 | 100.0 | 1571 | 1539 | 1554.9 | 108.3 | 208.3 | -- | 3.92 | 3.85 | 3.88 | -- |
| BTS 8390 | Approved | 313.1 | 304.3 | 308.7 | 97.5 | 1564 | 1546 | 1554.8 | 108.3 | 205.7 | -- | 4.43 | 4.28 | 4.36 | -- |
| BTS 83CN | Approved | 329.1 | 313.7 | 321.4 | 101.5 | 1445 | 1481 | 1463.3 | 101.9 | 203.4 | -- | 4.36 | 4.60 | 4.48 | -- |
| Crystal 355RR | Approved | 331.6 | 321.1 | 326.3 | 103.0 | 1468 | 1447 | 1457.3 | 101.5 | 204.5 | -- | 4.89 | 4.58 | 4.73 | -- |
| Crystal 359RR | Not Approved | 316.7 | 312.7 | 314.7 | 99.4 | 1560 | 1572 | 1566.3 | 109.1 | 208.4 | -- | 5.32 | 5.16 | 5.24 | -- |
| Hilleshög 9517RR | Approved | 333.7 | 323.8 | 328.7 | 103.8 | 1335 | 1339 | 1336.8 | 93.1 | 196.9 | -- | 4.67 | 4.39 | 4.53 | -- |
| Hilleshög 9528RR | Approved | 327.0 | 325.6 | 326.3 | 103.0 | 1454 | 1577 | 1515.6 | 105.5 | 208.6 | -- | 4.72 | 4.97 | 4.84 | -- |
| Maribo 305 | Approved | 323.9 | 315.3 | 319.6 | 100.9 | 1529 | 1541 | 1534.5 | 106.8 | 207.8 | -- | 4.63 | 4.83 | 4.73 | -- |
| Seedex RR0832 | Approved | 325.0 | 318.8 | 321.9 | 101.7 | 1448 | 1513 | 1480.6 | 103.1 | 204.7 | -- | 4.78 | 4.89 | 4.83 | -- |
| SV RR333 | Approved | 324.5 | 316.9 | 320.7 | 101.3 | 1437 | 1485 | 1461.0 | 101.7 | 203.0 | -- | 4.86 | 4.81 | 4.83 | -- |
| SV RR336 | Approved | 313.0 | 316.0 | 314.5 | 99.3 | 1459 | 1493 | 1475.8 | 102.8 | 202.1 | -- | 4.75 | 4.53 | 4.64 | -- |

| **Benchmark Varieties** | | 2012 | 2013 | 2014 | | 2012 | 2013 | 2014 | |
|---|---|---|---|---|---|---|---|---|---|
| Beta 85RR02(Check) | Benchmark | 358.6 | | | | 1583 | | | |
| Crystal 539RR | Benchmark | | | | | | | | |
| Crystal 658RR | Benchmark | 349.0 | 314.8 | | | 1693 | 1323 | | |
| Hilleshög 4012RR | Benchmark | 344.9 | 318.0 | 313.7 | | 1605 | 1356 | 1418 | |
| Crystal 875RR | Benchmark | 351.1 | 315.1 | 312.9 | | 1642 | 1417 | 1452 | |
| BTS 80RR52 | Benchmark | | 325.5 | 318.4 | | | 1527 | 1530 | |
| BTS 81RR17 | Benchmark | | | 315.0 | | | | 1443 | |
| Benchmark mean | | 350.90 | 318.35 | 315.00 | 316.7 | 1630.8 | 1405.8 | 1466.8 | 1436.26 |

+ All Cercospora readings 2012-2014 were adjusted to 1982 basis.

Variety approval criteria include: 1) 2 years of official trial data, 2) Cercospora rating must not exceed 5.20 (1982 adjusted data), 3a) R/T >= 100% of Bench or 3b) R/T >= 97% and R/T + $/A >= 202% of Bench. 3 yrs of data may be considered for initial approval.

Created 10-29-2014.

Bench for 2014 added Beta 81RR17 and dropped Crystal 658RR.

To maintain approval, the 3-year Cercospora rating must not exceed 5.40 (1982 adjusted data).

Table 28

Projected Calculation for Approval of Sugarbeet Varieties for ACSC Market

| Description | Approval ^ Likely | Rec/Ton 2014 | Rec/Ton % Bench | Rev/Acre 2014 | Rev/Acre % Bench | R/T + $/A Bench | CR Rating ^^ 2014 |
|---|---|---|---|---|---|---|---|
| **Candidates for Retesting (1 Yr)** | | | | | | | |
| BTS 8402 | On Track | 316.0 | 100.3 | 1443 | 98.4 | 198.7 | 4.54 |
| BTS 8404 | On Track | 318.5 | 101.1 | 1485 | 101.2 | 202.3 | 4.48 |
| BTS 8405 | On Track | 332.2 | 105.5 | 1586 | 108.1 | 213.6 | 4.14 |
| BTS 8406 | On Track | 323.7 | 102.8 | 1508 | 102.8 | 205.5 | 4.03 |
| BTS 8408 | On Track | 320.1 | 101.6 | 1506 | 102.7 | 204.3 | 5.00 |
| BTS 840N | Not On Track | 311.6 | 98.9 | 1280 | 87.3 | 186.2 | 3.99 |
| Crystal 464RR | On Track | 320.4 | 101.7 | 1489 | 101.5 | 203.2 | 4.01 |
| Crystal 465RR | On Track | 320.2 | 101.6 | 1530 | 104.3 | 205.9 | 5.01 |
| Crystal 466RR | On Track | 317.6 | 100.8 | 1564 | 106.6 | 207.4 | 4.64 |
| Crystal 467RR | On Track | 310.7 | 98.6 | 1564 | 106.6 | 205.2 | 4.40 |
| Crystal 468RR | Not On Track | 308.4 | 97.9 | 1479 | 100.8 | 198.7 | 4.49 |
| Crystal 469RR | Not On Track | 318.1 | 101.0 | 1563 | 106.5 | 207.5 | 5.28 |
| Hilleshög 9601RR | Not On Track | 309.2 | 98.2 | 1299 | 88.5 | 186.7 | 4.77 |
| Hilleshög 9602RR | On Track | 311.0 | 98.7 | 1551 | 105.8 | 204.5 | 4.67 |
| Hilleshög 9604RR | Not On Track | 306.4 | 97.3 | 1490 | 101.6 | 198.9 | 5.47 |
| Hilleshög 9610RR | Not On Track | 313.0 | 99.4 | 1307 | 89.1 | 188.5 | 4.46 |
| Hilleshög 9613RR | Not On Track | 297.1 | 94.3 | 1313 | 89.5 | 183.8 | 4.97 |
| Hilleshög 9615RR | On Track | 315.0 | 100.0 | 1388 | 94.6 | 194.7 | 4.33 |
| Hilleshög 9620RR | Not On Track | 314.2 | 99.7 | 1448 | 98.7 | 198.5 | 5.79 |
| Maribo 109RR | On Track | 334.2 | 106.1 | 1390 | 94.8 | 200.9 | 4.68 |
| Maribo 301 | On Track | 324.5 | 103.0 | 1427 | 97.3 | 200.3 | 4.92 |
| Maribo 402 | Not On Track | 313.9 | 99.6 | 1468 | 100.1 | 199.7 | 4.76 |
| Maribo 403 | Not On Track | 316.8 | 100.6 | 1679 | 114.4 | 215.0 | 5.23 |
| Seedex RR842 | On Track | 320.8 | 101.8 | 1564 | 106.7 | 208.5 | 4.90 |
| Seedex RR844TT | Not On Track | 318.4 | 101.1 | 1574 | 107.3 | 208.4 | 5.46 |
| Seedex RR846 | On Track | 310.2 | 98.5 | 1542 | 105.1 | 203.6 | 4.83 |
| Seedex RR848 | On Track | 311.8 | 99.0 | 1522 | 103.8 | 202.8 | 4.71 |
| SV RR241 | Not On Track | 314.3 | 99.8 | 1437 | 98.0 | 197.7 | 4.35 |
| SV RR242TT | Not On Track | 308.4 | 97.9 | 1567 | 106.8 | 204.7 | 5.69 |
| SV RR243 | On Track | 317.5 | 100.8 | 1466 | 100.0 | 200.7 | 4.79 |
| SV RR244TT | Not On Track | 302.2 | 95.9 | 1555 | 106.0 | 201.9 | 5.51 |
| SV RR245N | On Track | 315.1 | 100.0 | 1320 | 90.0 | 190.0 | 4.59 |
| SV RR246 | On Track | 330.3 | 104.8 | 1396 | 95.2 | 200.0 | 4.54 |
| SV RR247 | On Track | 331.5 | 105.2 | 1376 | 93.8 | 199.0 | 4.14 |
| SV RR248 | Not On Track | 313.9 | 99.6 | 1386 | 94.5 | 194.1 | 4.41 |
| | | | | | | | |
| **Benchmarks** | | | | | | | |
| Hilleshög 4012RR | | 313.7 | 99.6 | 1418 | 96.7 | | |
| Crystal 875RR | | 312.9 | 99.3 | 1452 | 99.0 | | |
| BTS 80RR52 | | 318.4 | 101.1 | 1530 | 104.3 | | |
| BTS 81RR17 | | 315.0 | 100.0 | 1443 | 98.4 | | |
| | | | | | | | |
| Benchmark Mean | | 315.0 | | 1467 | | | |

^ NOT = not on track for approval. On Track = data is tracking for potential approval. Created 10-29-2014.

^^ All Cercospora readings 2014 were adjusted to 1982 basis.

Full market approval criteria include: 1) 2 years of official trial data, 2) Cercospora rating must not exceed 5.20 (1982 adjusted data),

3a) R/T >= 100% of Bench or 3b) R/T >= 97% and R/T + $/A equal to 202 of Bench.

Bench for 2014 added Beta 81RR17 and dropped Crystal 658RR.

Table 29

Calculation for Approval of Sugarbeet Varieties for ACSC Aphanomyces Specialty Market for 2015

| Yrs Aph Yld | Description | Approval Status | Root Aph. Rating 2012 | 2013 | 2014 | 2 Yr Mean | 3 Yr Mean | Cercospora Rating + 2012 | 2013 | 2014 | 2 Yr Mean | 3 Yr Mean |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | **Previously Approved (3 Yrs)** | | | | | | <=4.70 | | | | | <=5.40 |
| 5 | BTS 80RR52 | Approved | 4.04 | 4.01 | 4.01 | 4.01 | 4.02 | 4.40 | 4.52 | 4.22 | 4.37 | 4.38 |
| 4 | BTS 81RR17 | Approved | 3.25 | 3.87 | 3.36 | 3.62 | 3.50 | 4.36 | 4.45 | 3.96 | 4.20 | 4.26 |
| 3 | BTS 82RR22 | Approved | 3.95 | 4.41 | 4.25 | 4.33 | 4.20 | 4.65 | 4.77 | 4.55 | 4.66 | 4.66 |
| 3 | Crystal 101RR | Approved | 2.97 | 3.80 | 3.45 | 3.62 | 3.40 | 4.71 | 4.63 | 4.26 | 4.44 | 4.53 |
| 3 | Crystal 246RR | Approved | 3.85 | 4.90 | 4.51 | 4.71 | 4.42 | 4.49 | 4.48 | 4.52 | 4.50 | 4.49 |
| 7 | Crystal 875RR | Approved | 2.71 | 3.76 | 3.11 | 3.43 | 3.19 | 4.26 | 4.77 | 4.12 | 4.45 | 4.39 |
| 6 | Crystal 981RR | Approved | 3.08 | 3.55 | 3.79 | 3.67 | 3.47 | 5.15 | 5.09 | 4.89 | 4.99 | 5.05 |
| 3 | Maribo MA102RR | Approved | 4.33 | 4.30 | 4.99 | 4.64 | 4.54 | 4.88 | 5.03 | 5.54 | 5.29 | 5.15 |
| 4 | Seedex Xavier RR | Approved | 4.19 | 4.42 | 5.41 | 4.91 | 4.67 | 4.43 | 4.85 | 5.43 | 5.14 | 4.90 |
| 3 | Seedex Yukon RR(828N) | Approved | 4.06 | 4.35 | 2.77 | 3.56 | 3.73 | 4.72 | 4.69 | 4.85 | 4.77 | 4.75 |
| | **Candidates for Approval** | | | | | <=4.40 | | | | | | <=5.20 |
| 5 | BTS 80RR32 | NO | 4.43 | 5.04 | 5.06 | 5.05 | 4.85 | 4.66 | 4.81 | 4.69 | 4.75 | 4.72 |
| 3 | BTS 82RR28 | NO | 4.51 | 4.62 | 4.84 | 4.73 | 4.65 | 4.66 | 4.52 | 4.62 | 4.57 | 4.60 |
| 3 | BTS 82RR33 | NO | 5.11 | 5.40 | 5.59 | 5.49 | 5.36 | 4.74 | 4.68 | 4.70 | 4.69 | 4.71 |
| 2 | BTS 8337 | Approved | | 3.69 | 3.68 | 3.68 | -- | | 4.75 | 4.52 | 4.63 | -- |
| 2 | BTS 8354 | Approved | | 4.30 | 4.44 | 4.37 | -- | | 4.80 | 4.39 | 4.59 | -- |
| 2 | BTS 8363 | NO | | 4.91 | 5.03 | 4.97 | -- | | 3.92 | 3.85 | 3.88 | -- |
| 2 | BTS 8390 | NO | | 4.75 | 5.03 | 4.89 | -- | | 4.43 | 4.28 | 4.36 | -- |
| 2 | BTS 83CN | Approved | | 4.34 | 4.16 | 4.25 | -- | | 4.36 | 4.60 | 4.48 | -- |
| 2 | Crystal 355RR | Approved | | 4.51 | 4.15 | 4.33 | -- | | 4.89 | 4.58 | 4.73 | -- |
| 7 | Hilleshög 4022RR | NO | 4.11 | 4.65 | 4.59 | 4.62 | 4.45 | 4.36 | 4.33 | 4.54 | 4.43 | 4.41 |
| 2 | Hilleshög 9528RR | NO | | 4.51 | 5.44 | 4.98 | -- | | 4.72 | 4.97 | 4.84 | -- |
| 3 | Maribo 104RR | NO | 4.46 | 4.71 | 5.90 | 5.31 | 5.02 | 3.82 | 3.87 | 3.58 | 3.72 | 3.76 |
| 2 | Seedex RR0832 | NO | | 4.54 | 5.06 | 4.80 | -- | | 4.78 | 4.89 | 4.83 | -- |
| 3 | SESVdh 36272RR | NO | 5.15 | 5.01 | 4.98 | 4.99 | 5.04 | 4.17 | 4.49 | 4.61 | 4.55 | 4.43 |
| 5 | SESVdh 36918RR | NO | 4.69 | 5.00 | 4.72 | 4.86 | 4.81 | 4.28 | 4.61 | 4.84 | 4.73 | 4.58 |
| 2 | SESVdh RR336 | NO | | 4.53 | 5.50 | 5.01 | -- | | 4.75 | 4.53 | 4.64 | -- |
| | Approval Criteria new varieties | | | | | 4.40 | | | | | 5.20 | |
| | Criteria to Maintain Approval | | | | | | 4.70 | | | | | 5.40 |

+ All Cercospora readings 2012-2014 were adjusted to 1982 basis.

Aphanomyces approval criteria include: 1) 2 years of Aph official trial data, 2) Cercospora rating must not exceed 5.20 (1982 adjusted data), 3) Aph root rating <= 4.40 after 2 years. 3 yrs of data may be considered for initial approval.

To maintain Aphanomyces approval criteria include: 1) Cercospora 3 year mean must not exceed 5.40, 2) Aph root rating <= 4.70 after 3 years.

Table 30

Calculation for Approval of Sugarbeet Varieties for ACSC Rhizoctonia Specialty Market for 2015

| | Approval | Disease Index + | | | | | Cercospora Rating ** | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Description | Status | 2012 | 2013 | 2014 | 2 Yr Mean | 3 Yr Mean | 2012 | 2013 | 2014 | 2 Yr Mean | 3 Yr Mean |
| **Previously Approved (3 Yr)** | | | | | | | | | | | |
| BTS 80RR52 | Approved | 3.73 | 3.77 | 4.36 | 4.07 | 3.96 | 4.40 | 4.52 | 4.22 | 4.37 | 4.38 |
| BTS 89RR83 | Approved | 3.58 | 3.45 | 4.03 | 3.74 | 3.69 | 4.89 | 4.91 | 4.61 | 4.76 | 4.81 |
| Crystal 875RR | Approved | 4.00 | 4.53 | 4.04 | 4.29 | 4.19 | 4.26 | 4.77 | 4.12 | 4.45 | 4.39 |
| Hilleshög 4022RR | Approved | 3.29 | 3.39 | 3.82 | 3.60 | 3.50 | 4.36 | 4.33 | 4.54 | 4.43 | 4.41 |
| Hilleshög 4094RR | Approved | 3.28 | 3.42 | 3.52 | 3.47 | 3.41 | 4.34 | 4.47 | 4.46 | 4.47 | 4.42 |
| Hilleshög 4302RR | Approved | 3.63 | 3.32 | 3.58 | 3.45 | 3.51 | 4.34 | 4.23 | 4.52 | 4.38 | 4.36 |
| Maribo MA104RR | Approved | 3.98 | 3.99 | 3.56 | 3.77 | 3.84 | 3.82 | 3.87 | 3.58 | 3.72 | 3.76 |
| **RR Candidates for Approval (2 Yr)** | | | | | | | | | | | |
| BTS 80RR32 | Not Approved | 3.88 | 4.28 | 3.56 | 3.92 | 3.91 | 4.66 | 4.81 | 4.69 | 4.75 | 4.72 |
| BTS 81RR17 | Not Approved | 4.00 | 4.10 | 4.06 | 4.08 | 4.06 | 4.36 | 4.45 | 3.96 | 4.20 | 4.26 |
| BTS 82RR22 | Not Approved | 4.61 | 5.19 | 4.85 | 5.02 | 4.89 | 4.65 | 4.77 | 4.55 | 4.66 | 4.66 |
| BTS 82RR28 | Not Approved | 3.94 | 4.17 | 4.11 | 4.14 | 4.08 | 4.66 | 4.52 | 4.62 | 4.57 | 4.60 |
| BTS 82RR33 | Not Approved | 4.09 | 4.36 | 4.20 | 4.28 | 4.22 | 4.74 | 4.68 | 4.70 | 4.69 | 4.71 |
| BTS 82RR80 | Not Approved | 4.63 | 4.54 | 4.95 | 4.75 | 4.71 | 4.77 | 4.62 | 4.62 | 4.62 | 4.67 |
| BTS 8337 | Not Approved | -- | 4.55 | 4.06 | 4.30 | -- | -- | 4.75 | 4.52 | 4.63 | -- |
| BTS 8354 | Not Approved | -- | 3.49 | 4.04 | 3.77 | -- | -- | 4.80 | 4.39 | 4.59 | -- |
| BTS 8363 | Not Approved | -- | 3.88 | 4.24 | 4.06 | -- | -- | 3.92 | 3.85 | 3.88 | -- |
| BTS 8390 | Not Approved | -- | 4.38 | 4.30 | 4.34 | -- | -- | 4.43 | 4.28 | 4.36 | -- |
| BTS 83CN | Approved | -- | 3.29 | 4.01 | 3.65 | -- | -- | 4.36 | 4.60 | 4.48 | -- |
| Crystal 093RR | Not Approved | 4.43 | 4.39 | 4.46 | 4.42 | 4.43 | 4.82 | 5.20 | 4.88 | 5.04 | 4.97 |
| Crystal 095RR | Not Approved | 4.57 | 4.59 | 4.49 | 4.54 | 4.55 | 4.83 | 4.75 | 4.60 | 4.68 | 4.73 |
| Crystal 101RR | Not Approved | 4.75 | 4.74 | 4.84 | 4.79 | 4.78 | 4.71 | 4.63 | 4.26 | 4.44 | 4.53 |
| Crystal 246RR | Not Approved | 4.31 | 4.62 | 4.01 | 4.32 | 4.31 | 4.49 | 4.48 | 4.52 | 4.50 | 4.49 |
| Crystal 247RR | Not Approved | 4.48 | 4.58 | 4.41 | 4.50 | 4.49 | 4.68 | 4.57 | 4.20 | 4.39 | 4.48 |
| Crystal 355RR | Not Approved | -- | 3.55 | 4.07 | 3.81 | -- | -- | 4.89 | 4.58 | 4.73 | -- |
| Crystal 359RR | Not Approved | -- | 4.04 | 4.18 | 4.11 | -- | -- | 5.32 | 5.16 | 5.24 | -- |
| Crystal 765RR | Not Approved | 3.87 | 4.88 | 4.50 | 4.69 | 4.42 | 4.70 | 4.82 | 4.73 | 4.77 | 4.75 |
| Crystal 768RR | Not Approved | 4.39 | 4.10 | 4.51 | 4.31 | 4.33 | 5.37 | 5.05 | 4.84 | 4.95 | 5.09 |
| Crystal 981RR | Not Approved | 4.45 | 3.75 | 4.85 | 4.30 | 4.35 | 5.15 | 5.09 | 4.89 | 4.99 | 5.05 |
| Crystal 985RR | Not Approved | 4.40 | 4.61 | 4.50 | 4.55 | 4.50 | 4.41 | 4.49 | 4.22 | 4.36 | 4.37 |
| Crystal 986RR | Not Approved | 4.31 | 4.54 | 4.12 | 4.33 | 4.32 | 4.78 | 4.80 | 4.61 | 4.70 | 4.73 |
| Hilleshög 4300RR | Not Approved | 4.56 | 4.12 | 3.79 | 3.95 | 4.16 | 4.82 | 4.74 | 4.20 | 4.47 | 4.59 |
| Hilleshög 4303RR | Not Approved | 5.20 | 5.24 | 5.38 | 5.31 | 5.27 | 4.62 | 4.85 | 4.82 | 4.83 | 4.76 |
| Hilleshög 4448RR(9448) | Not Approved | -- | 5.42 | 4.73 | 5.07 | -- | 4.82 | 5.21 | 5.28 | 5.25 | 5.11 |
| Hilleshög 9517RR | Not Approved | -- | 3.62 | 4.04 | 3.83 | -- | -- | 4.67 | 4.39 | 4.53 | -- |
| Hilleshög 9528RR | Not Approved | -- | 4.17 | 3.83 | 4.00 | -- | -- | 4.72 | 4.97 | 4.84 | -- |
| Maribo MA102RR | Not Approved | 4.70 | 5.53 | 4.30 | 4.91 | 4.84 | 4.88 | 5.03 | 5.54 | 5.29 | 5.15 |
| Seedex Victor RR | Not Approved | 4.57 | 4.51 | 3.94 | 4.22 | 4.34 | 4.41 | 4.51 | 5.14 | 4.82 | 4.69 |
| Seedex Vision RR | Not Approved | 4.61 | 4.71 | 4.44 | 4.57 | 4.59 | 4.49 | 5.17 | 5.50 | 5.34 | 5.06 |
| Seedex Xavier RR | Not Approved | 4.71 | 4.60 | 4.34 | 4.47 | 4.55 | 4.43 | 4.85 | 5.43 | 5.14 | 4.90 |
| Seedex Yukon RR(828N) | Not Approved | 4.25 | 4.84 | 4.33 | 4.59 | 4.48 | 4.72 | 4.69 | 4.85 | 4.77 | 4.75 |
| Seedex Zenith RR(829N) | <2 Yrs | -- | -- | 4.57 | -- | -- | 4.84 | 4.76 | 4.53 | 4.65 | 4.71 |
| SV 36175RR | Not Approved | 4.32 | 4.50 | 4.20 | 4.35 | 4.34 | 4.22 | 4.60 | 4.54 | 4.57 | 4.45 |
| SV 36271RR | Not Approved | 4.40 | 3.95 | 4.32 | 4.14 | 4.23 | 4.65 | 4.45 | 4.21 | 4.33 | 4.44 |
| SV 36272RR | Not Approved | -- | 4.61 | 4.31 | 4.46 | -- | 4.17 | 4.49 | 4.61 | 4.55 | 4.43 |
| SV 36273RR | Not Approved | 4.47 | 4.70 | 3.94 | 4.32 | 4.37 | 4.19 | 4.68 | 5.05 | 4.86 | 4.64 |
| SV 36918RR | Not Approved | 4.66 | 4.82 | 4.77 | 4.80 | 4.75 | 4.28 | 4.61 | 4.84 | 4.73 | 4.58 |
| SV RR333 | Not Approved | -- | 4.32 | 4.39 | 4.36 | -- | -- | 4.86 | 4.81 | 4.83 | -- |
| SV RR336 | Not Approved | -- | 3.93 | 4.29 | 4.11 | -- | -- | 4.75 | 4.53 | 4.64 | -- |
| **Susceptible Checks** | | | | | | | | | | | |
| Rhiz Chk#08 CRYS539RR | Susc Chk | 5.06 | 5.09 | 4.73 | | | | | | | |
| Rhiz Chk#11 BETA87RR68 | Susc Chk | 3.81 | | | | | | | | | |
| Rhiz Chk#24 BETA86RR88 | Susc Chk | 4.75 | 4.82 | 4.91 | | | | | | | |
| Rhiz Chk#25 HILL4043RR | Susc Chk | 4.95 | 4.77 | 4.66 | | | | | | | |
| Rhiz Chk#27 HILL4012RR | Susc Chk | 4.69 | 5.12 | 4.52 | | | | | | | |
| Rhiz Chk#29 BETA87RR58 | Susc Chk | 4.76 | 4.81 | 4.53 | | | | | | | |
| Rhiz Chk#30 SES36711RR | Susc Chk | 4.46 | 4.75 | 4.21 | | | | | | | |
| Rhiz Chk#31 HILL4000RR | Susc Chk | 5.04 | 5.22 | 4.76 | | | | | | | |
| Rhiz Chk#32 HILL4010RR | Susc Chk | 4.99 | 4.44 | 4.99 | | | | | | | |
| Rhiz Chk#34 BETA86RR66 | Susc Chk | 4.51 | 4.31 | 4.48 | | | | | | | |
| Rhiz Chk#35 SES36812RR | Susc Chk | 4.53 | 4.13 | 4.63 | | | | | | | |
| Rhiz Chk#36 BETA85RR02 | Susc Chk | | 4.27 | 4.50 | | | | | | | |
| Rhiz Chk#37 SES36918RR | Susc Chk | | 4.75 | 4.61 | | | | | | | |
| Susceptible Hybrid Mean | | 4.69 | 4.71 | 4.63 | 4.67 | 4.68 | | | | **5.20** | **5.40** |
| Approval Criteria ++ | | 3.82 | 3.82 | 3.82 | **3.82** | **4.21** | | | | | |

+ Disease Index is based on a scale of 0 (healthy) to 7 (plant dead). Rhc ratings were adjusted based on check performance.

+ 2014 data from Michigan and 1 Mhd site. 2013 data from Ft Collins and 1 Mhd site. 2012 data from 3 RRV sites.

++ Candidates must have better tolerance than susc. check mean * 80%. To maintain approval, tolerance must be better than susc. check mean * 90%.

** All readings 2012-2014 were adjusted based on check performance. Excluded from Susc Mean

Table 31.
Varieties Meeting MDFC Approval Criteria for the 2015 Sugarbeet Crop ++

| **Roundup Ready ®** | Approval Status | Aph Spec | Rhc Spec |
|---|---|---|---|
| ACH RR012 | Established | Aph | Rhc |
| ACH RR830 | Established | Aph | Rhc |
| ACH RR228 | Established | Aph | |
| ACH RR260 | Specialty | Aph | |
| ACH RRD352 | Specialty | Aph | Rhc |
| BTS 70RR99 | Established | Aph | |
| BTS 72RR22 | Established | Aph | |
| BTS 72RR95 | Specialty | Aph | Rhc |
| BTS 7373 | Test Mrkt | Aph | |
| BTS 73MN (73MN) | Test Mrkt | Aph | Rhc |
| HM 4022RR | Specialty | Aph | Rhc |
| HM 4062RR | Specialty | Aph | Rhc |
| HM 4448RR | Established | | |
| HM 9517RR | Specialty | Aph | |
| Maribo MA102RR * | Test Mrkt | Aph | |
| Seedex Vapor | Established | | |
| SV RR631 | Test Mrkt | | |
| SV RR632N | Test Mrkt | | |
| SV RR633 | Test Mrkt | Aph | Rhc |

Aph Spec = variety meets Aphanomyces specialty requirements of 4.45 or less Aph root rating.
Rhc Spec = variety meets Rhizoctonia specialty requirements of 3.82 or less of Rhc root rating.
* Last year of sales.

Table 32.

Three Year Performance Summary of Minn-Dak Entries in 2014 MDFC (All Locations). *

| | Years | Rec. Sugar / Ton (pounds) | | | Rec. Sugar / Acre (pounds) | | | Sugar Content (%) | | | Root Yield (Tons / Acre) | | | Field Emergence (%) | | Cercospora (1=Ex,9=Poor) | | Aphanomyces Root Rating | | Rhizoctonia (1=Ex,7=Poor) | | Fusarium (1=Ex,9=Poor) | | Bolters / Ac | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Comm | | 3 Yr | 3 Yr % | | 3 Yr | 3 Yr % | | 3 Yr | 3 Yr % | | 3 Yr | 3 Yr % | | 3 Yr | | 3 Yr | | 3 Yr | | | | | | |
| Description @ | Seed + | 2014 | Mean | Est. | 2014 | Mean | Est. | 2014 | Mean | Est. | 2014 | Mean | App. | 2014 | Mean | 2014 | Mean | 2014 | Mean | 2013 | 2014 | 2013 | 2014 | 2013 | 2014 |
| **Established Varieties** | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTS 70RR99 | 3 | 313.3 | 327.0 | 102 | 9050 | 10258 | 105 | 16.9 | 17.7 | 102 | 28.8 | 31.3 | 103 | 57 | 58 | 4.20 | 4.42 | 3.57 | NA | 4.4 | 3.9 | 3.6 | 3.5 | 0 | 0 |
| Crystal RR012 | 3 | 321.5 | 331.3 | 103 | 8672 | 9902 | 101 | 17.3 | 17.9 | 103 | 27.0 | 29.8 | 98 | 55 | 61 | 4.59 | 4.63 | 3.83 | NA | 3.7 | 4.1 | 3.6 | 3.4 | 0 | 50 |
| Crystal RR830 | 5 | 296.1 | 312.2 | 97 | 9274 | 10212 | 105 | 15.9 | 16.8 | 97 | 31.2 | 32.6 | 107 | 59 | 63 | 4.69 | 4.62 | 3.92 | NA | 3.7 | 3.7 | 4.2 | 4.1 | 0 | 81 |
| Hilleshög 4022RR | 6 | 289.2 | 314.0 | 98 | 8067 | 9156 | 94 | 15.9 | 17.1 | 99 | 28.0 | 29.1 | 96 | 56 | 62 | 4.54 | 4.41 | 4.59 | 4.45 | 3.4 | 3.8 | 4.7 | 4.8 | 0 | 0 |
| Hilleshög 4062RR | 5 | 301.7 | 315.8 | 99 | 8398 | 9290 | 95 | 16.4 | 17.2 | 99 | 27.9 | 29.3 | 97 | 57 | 64 | 4.58 | 4.50 | 3.83 | NA | 3.6 | 3.4 | 4.6 | 5.0 | 0 | 0 |
| Seedex Vapor RR(995) | 3 | 303.4 | 321.4 | 100 | 7907 | 9737 | 100 | 16.3 | 17.3 | 100 | 26.0 | 30.2 | 99 | 54 | 61 | 4.94 | 4.77 | 5.50 | NA | 4.6 | 4.5 | 5.2 | 4.7 | 0 | 0 |
| **Specialty, Conditional & Candidates** | | | | | | | | | | | | | | | | | | | | | | | | | |
| BTS 72RR22 | 1 | 316.6 | 326.9 | 102 | 8652 | 9957 | 102 | 17.1 | 17.7 | 102 | 27.3 | 30.2 | 100 | 61 | 65 | 3.91 | 4.13 | 2.33 | 2.91 | 4.7 | 5.2 | 4.3 | 4.1 | 0 | 0 |
| BTS 72RR95 | 1 | 304.9 | 315.5 | 98 | 8109 | 9449 | 97 | 16.6 | 17.2 | 99 | 26.5 | 29.7 | 98 | 58 | 65 | 4.34 | 4.43 | 4.17 | 3.96 | 3.8 | 4.6 | 2.7 | 3.0 | 0 | 0 |
| Crystal RR228 | 1 | 336.5 | 339.3 | 106 | 9493 | 10441 | 107 | 17.9 | 18.2 | 105 | 28.2 | 30.8 | 101 | 57 | 61 | 4.19 | 4.30 | 2.35 | 3.06 | 4.4 | 4.5 | 4.7 | 4.4 | 0 | 32 |
| Crystal RR260 | 1 | 295.7 | 314.1 | 98 | 9756 | 11068 | 113 | 16.1 | 17.0 | 98 | 32.9 | 35.0 | 115 | 55 | 66 | 4.34 | 4.42 | 4.67 | 4.44 | 3.7 | 4.5 | 3.3 | 2.7 | 0 | 0 |
| Crystal RR299 | 1 | 299.0 | 316.0 | 99 | 8963 | 10533 | 108 | 16.2 | 17.0 | 98 | 29.8 | 32.9 | 108 | 56 | 66 | 4.51 | 4.45 | 4.70 | 4.57 | 3.9 | 4.0 | 4.1 | 3.9 | 0 | 608 |
| Hilleshög 4448RR(9449 MD) | NC | 309.8 | 326.8 | 102 | 9357 | 10022 | 103 | 16.6 | 17.6 | 101 | 30.1 | 30.5 | 100 | 53 | 60 | 5.28 | 5.00 | 4.78 | 4.65 | 4.8 | 4.7 | 5.0 | 4.7 | 0 | 0 |
| Maribo MA102RR(108) | NC | 322.5 | 330.7 | 103 | 9976 | 10092 | 103 | 17.2 | 17.7 | 102 | 30.7 | 30.2 | 100 | 73 | 66 | 5.54 | 5.38 | 4.99 | 4.20 | 5.5 | 4.3 | 5.1 | 5.4 | 0 | 0 |
| Seedex SX0929RR | NC | 303.0 | 319.8 | 100 | 8406 | 9386 | 96 | 16.3 | 17.2 | 99 | 27.7 | 29.4 | 97 | 66 | 65 | 4.81 | 4.47 | 4.38 | 4.54 | 4.6 | 4.4 | 5.7 | 4.8 | 0 | 0 |
| Seedex Yuma RR(924) | 1 | 288.9 | 317.1 | 99 | 7724 | 9525 | 98 | 15.6 | 17.1 | 99 | 26.7 | 29.7 | 98 | 48 | 55 | 5.11 | 4.77 | 5.41 | 4.83 | -- | 4.2 | NR | 4.5 | 0 | 0 |
| **Test Market Candidates** | | | **2 Yr** | **2 Yr %** | | **2 Yr** | **2 Yr %** | | **2 Yr** | **2 Yr %** | | **2 Yr** | **2 Yr %** | | **2 Yr** | | **2 Yr** | | **2 Yr** | | | | | | |
| BTS 7373 | NC | 326.8 | 319.9 | 105 | 9150 | 9345 | 107 | 17.5 | 17.2 | 105 | 27.9 | 29.1 | 101 | 70 | 70 | 4.58 | 4.66 | 2.72 | 3.12 | 3.9 | 4.5 | -- | 3.9 | 0 | 0 |
| BTS 73MN | NC | 309.1 | 303.6 | 100 | 9010 | 9015 | 103 | 16.5 | 16.3 | 99 | 29.1 | 29.6 | 103 | 72 | 73 | 4.37 | 4.50 | 3.93 | 3.94 | 3.5 | 4.1 | -- | 3.2 | 0 | 0 |
| Crystal D352NT | NC | 298.0 | 297.8 | 98 | 8964 | 8848 | 101 | 16.2 | 16.2 | 98 | 29.8 | 29.6 | 103 | 81 | 80 | 4.67 | 4.60 | 3.80 | 3.96 | 3.2 | 3.9 | -- | 2.5 | 0 | 0 |
| Hilleshög 9517RR | NC | 313.4 | 315.2 | 104 | 7853 | 8413 | 96 | 16.9 | 17.1 | 104 | 25.0 | 26.7 | 93 | 60 | 63 | 4.39 | 4.53 | 3.89 | 3.78 | 3.6 | 4.0 | 3.8 | 3.4 | 0 | 0 |
| SV RR631 | NC | 306.9 | 306.2 | 101 | 9412 | 9072 | 104 | 16.5 | 16.5 | 100 | 30.3 | 29.6 | 103 | 68 | 71 | 4.88 | 4.83 | 4.98 | 5.01 | 4.4 | 4.4 | -- | 4.0 | 0 | 0 |
| SV RR632N | NC | 315.9 | 307.8 | 101 | 8729 | 8774 | 100 | 16.8 | 16.5 | 100 | 27.5 | 28.3 | 98 | 65 | 67 | 4.56 | 4.68 | 4.79 | 4.74 | 4.6 | 4.3 | 4.3 | 5.3 | 0 | 0 |
| SV RR633 | NC | 306.4 | 303.8 | 100 | 9596 | 9165 | 105 | 16.5 | 16.4 | 99 | 31.0 | 30.0 | 104 | 74 | 67 | 5.39 | 5.11 | 3.72 | 4.21 | 3.4 | 4.2 | -- | 3.2 | 0 | 0 |
| **First Year Varieties** | | | | **1 Yr %** | | | **1 Yr %** | | | **1 Yr %** | | | **1 Yr %** | | | | | | | | | | | | |
| BTS 7438 | NC | 299.8 | | 99 | 8909 | | 104 | 16.1 | | 98 | 29.8 | | 106 | 77 | | 4.45 | | 3.85 | | | 4.1 | | -- | | 0 |
| BTS 7447 | NC | 321.7 | | 106 | 9169 | | 107 | 17.2 | | 105 | 28.4 | | 101 | 79 | | 4.58 | | 4.52 | | | 5.0 | | -- | | 0 |
| BTS 7481 | NC | 308.2 | | 101 | 8799 | | 103 | 16.6 | | 101 | 28.4 | | 101 | 75 | | 4.41 | | 4.80 | | | 4.1 | | -- | | 0 |
| Crystal D425NT | NC | 297.6 | | 98 | 7902 | | 92 | 16.2 | | 99 | 26.3 | | 94 | 78 | | 4.06 | | 4.47 | | | 4.0 | | -- | | 0 |
| Crystal D488 | NC | 309.4 | | 102 | 8923 | | 104 | 16.8 | | 102 | 28.8 | | 103 | 74 | | 4.99 | | 4.23 | | | 4.4 | | -- | | 0 |
| Hilleshög 4302RR | 1 | 314.2 | | 103 | 8701 | | 102 | 16.8 | | 102 | 27.5 | | 98 | 73 | | 4.52 | | 4.20 | | | 3.6 | | 5.0 | | 0 |
| Hilleshög 9528RR | NC | 316.4 | | 104 | 9352 | | 109 | 16.9 | | 103 | 29.7 | | 105 | 73 | | 4.97 | | 5.44 | | | 3.8 | | 4.8 | | 0 |
| Hilleshög 9601RR | NC | 293.5 | | 96 | 8507 | | 99 | 16.0 | | 97 | 28.9 | | 103 | 63 | | 4.77 | | 6.12 | | | 3.7 | | -- | | 0 |
| Hilleshög 9602RR | NC | 306.4 | | 101 | 9247 | | 108 | 16.4 | | 100 | 30.1 | | 107 | 75 | | 4.67 | | 4.55 | | | 4.1 | | -- | | 0 |
| Hilleshög 9610RR | NC | 312.3 | | 103 | 8455 | | 99 | 16.7 | | 102 | 27.0 | | 96 | 71 | | 4.46 | | 5.04 | | | 3.4 | | -- | | 0 |
| Hilleshög 9613RR | NC | 284.8 | | 94 | 9048 | | 106 | 15.6 | | 95 | 31.5 | | 112 | 78 | | 4.97 | | 5.66 | | | 3.9 | | -- | | 0 |
| Hilleshög 9615RR | NC | 308.4 | | 101 | 8158 | | 95 | 16.7 | | 102 | 26.3 | | 94 | 75 | | 4.33 | | 5.87 | | | -- | | 3.4 | | 0 |
| Hilleshög 9620RR | NC | 303.6 | | 100 | 8335 | | 97 | 16.4 | | 99 | 27.3 | | 97 | 77 | | 5.79 | | 2.94 | | | -- | | 3.9 | | 0 |
| Maribo 109RR | NC | 331.4 | | 109 | 8173 | | 95 | 17.6 | | 107 | 24.5 | | 87 | 71 | | 4.68 | | 5.00 | | | 3.3 | | -- | | 0 |
| Maribo 301 | NC | 297.7 | | 98 | 8289 | | 97 | 16.2 | | 98 | 27.8 | | 99 | 79 | | 4.92 | | 3.16 | | | 4.7 | | 2.7 | | 0 |
| Maribo 408 | NC | 301.8 | | 99 | 8974 | | 105 | 16.3 | | 99 | 29.7 | | 105 | 70 | | 5.29 | | 4.70 | | | -- | | -- | | 0 |
| Maribo 409 | NC | 299.8 | | 99 | 9556 | | 112 | 16.2 | | 98 | 31.7 | | 113 | 73 | | 5.28 | | 5.06 | | | -- | | -- | | 0 |
| Seedex RR0941 | NC | 301.5 | | 99 | 8653 | | 101 | 16.1 | | 98 | 28.9 | | 103 | 64 | | 4.67 | | 3.93 | | | 4.2 | | 4.9 | | 0 |
| Seedex RR0942 | NC | 334.5 | | 110 | 7871 | | 92 | 17.7 | | 108 | 23.5 | | 83 | 69 | | 4.61 | | 5.64 | | | 4.1 | | -- | | 0 |
| Seedex RR0943TT | NC | 306.2 | | 101 | 9443 | | 110 | 16.5 | | 100 | 30.7 | | 109 | 72 | | 5.53 | | 5.45 | | | 3.7 | | -- | | 0 |
| Seedex RR0944 | NC | 318.1 | | 105 | 8306 | | 97 | 17.0 | | 103 | 26.0 | | 92 | 71 | | 4.00 | | 3.95 | | | 4.4 | | 4.2 | | 0 |
| Seedex RR0945 | NC | 317.0 | | 104 | 8383 | | 98 | 16.9 | | 103 | 26.4 | | 94 | 65 | | 4.17 | | 4.95 | | | 4.6 | | 4.8 | | 0 |
| Seedex RR0946 | NC | 316.1 | | 104 | 8262 | | 96 | 16.9 | | 103 | 25.9 | | 92 | 68 | | 4.14 | | 4.96 | | | 4.3 | | 4.1 | | 0 |
| SV RR744 | NC | 332.2 | | 109 | 8247 | | 96 | 17.8 | | 108 | 24.7 | | 88 | 65 | | 4.25 | | 5.41 | | | 3.8 | | 4.0 | | 0 |
| SV RR745 | NC | 314.2 | | 103 | 8175 | | 95 | 16.7 | | 102 | 26.1 | | 93 | 67 | | 5.10 | | 6.14 | | | 4.3 | | 4.7 | | 0 |
| SV RR746 | NC | 326.5 | | 107 | 9565 | | 112 | 17.4 | | 106 | 29.1 | | 104 | 72 | | 4.87 | | 4.62 | | | 4.2 | | -- | | 0 |
| SV RR747 | NC | 304.5 | | 100 | 9204 | | 108 | 16.3 | | 99 | 30.1 | | 107 | 68 | | 4.73 | | 4.67 | | | 4.1 | | -- | | 0 |
| Established Variety Mean | | 304.2 | 320.3 | | 8561 | 9759.3 | | 16.4 | 17.3 | | 28.1 | 30.4 | | | | | | | | | | | | | |
| Established Variety - 2 Yr Mean | | | 304.0 | | | 8747.3 | | | | | | | | | | | | | | | | | | | |

* 2014 Barnesville & Fairmount. 2013 Breckenridge & Fairmount. 2012 Barnesville, Fairmount & Norcross.

Established variety mean based upon 6 varieties.

\+ Years Comm Seed indicates how long commercial seed has been planted in the official trials.

Lower numbers indicate better Cercospora, Aphanomyces & Fusarium tolerance (1=Healthy, 9=Poor).

@ Some varieties not approved for sale. Refer to approval list for approval status.

Created 10-27-2014.

Bolters /Ac are based upon a plant stand of 45,000.

Table 33.

2014 Performance of Approved Varieties - MDFC Commercial Official Trials

2 sites - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter per Ac | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | |
| BTS 70RR99 | 152 | 313.3 | 102 | 9050 | 102 | 1.23 | 16.90 | 28.80 | 271 | 1859 | 360 | 0.0 | 57.1 | 4.7 |
| BTS 72RR22 | 160 | 316.6 | 103 | 8652 | 98 | 1.27 | 17.10 | 27.27 | 296 | 1887 | 372 | 0.0 | 61.2 | 6.2 |
| BTS 72RR95 | 163 | 304.9 | 100 | 8109 | 92 | 1.39 | 16.64 | 26.54 | 354 | 1894 | 441 | 0.0 | 57.7 | 5.4 |
| Crystal RR012 | 162 | 321.5 | 105 | 8672 | 98 | 1.20 | 17.27 | 26.95 | 259 | 1843 | 346 | 49.5 | 55.4 | 6.2 |
| Crystal RR228 | 151 | 336.5 | 110 | 9493 | 107 | 1.13 | 17.94 | 28.22 | 229 | 1811 | 315 | 31.5 | 57.3 | 4.6 |
| Crystal RR260 | 159 | 295.7 | 97 | 9756 | 110 | 1.29 | 16.07 | 32.91 | 417 | 1980 | 321 | 0.0 | 55.4 | 4.1 |
| Crystal RR299 | 157 | 299.0 | 98 | 8963 | 101 | 1.28 | 16.22 | 29.83 | 389 | 1917 | 338 | 607.5 | 55.9 | 4.8 |
| Crystal RR830 | 156 | 296.1 | 97 | 9274 | 105 | 1.11 | 15.91 | 31.18 | 318 | 1757 | 274 | 81.0 | 59.5 | 3.9 |
| Hilleshög 4022RR | 158 | 289.2 | 95 | 8067 | 91 | 1.43 | 15.89 | 27.98 | 443 | 1948 | 431 | 0.0 | 56.2 | 3.6 |
| Hilleshög 4062RR | 153 | 301.7 | 99 | 8398 | 95 | 1.32 | 16.40 | 27.86 | 346 | 1918 | 384 | 0.0 | 56.5 | 3.6 |
| Hilleshög 4448RR(9448) | 155 | 309.8 | 101 | 9357 | 106 | 1.14 | 16.63 | 30.07 | 295 | 1673 | 326 | 0.0 | 53.0 | 3.5 |
| Seedex Vapor RR(995) | 154 | 303.4 | 99 | 7907 | 90 | 1.09 | 16.26 | 25.99 | 294 | 1770 | 268 | 0.0 | 54.2 | 4.7 |
| Seedex Yuma RR(924) | 161 | 288.9 | 94 | 7724 | 87 | 1.18 | 15.62 | 26.70 | 386 | 1761 | 303 | 0.0 | 47.8 | 4.1 |
| RR Filler #06 | 164 | 303.8 | 99 | 8948 | 101 | 1.32 | 16.52 | 29.34 | 386 | 2001 | 351 | 63.0 | 61.5 | 4.6 |
| RR Filler #02b | 165 | 310.2 | 101 | 10089 | 114 | 1.14 | 16.65 | 32.59 | 350 | 1843 | 267 | 31.5 | 58.3 | 3.9 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | |
| BTS 7373 | 326 | 326.8 | 107 | 9150 | 104 | 1.13 | 17.49 | 27.89 | 251 | 1896 | 280 | 0.0 | 70.1 | 3.1 |
| BTS 73MN | 333 | 309.1 | 101 | 9010 | 102 | 1.04 | 16.52 | 29.05 | 248 | 1767 | 243 | 0.0 | 71.8 | 3.0 |
| BTS 7438 | 311 | 299.8 | 98 | 8909 | 101 | 1.12 | 16.12 | 29.82 | 325 | 1760 | 285 | 0.0 | 77.3 | 4.3 |
| BTS 7447 | 310 | 321.7 | 105 | 9169 | 104 | 1.11 | 17.21 | 28.42 | 238 | 1803 | 295 | 0.0 | 79.1 | 2.9 |
| BTS 7481 | 307 | 308.2 | 101 | 8799 | 100 | 1.13 | 16.57 | 28.37 | 229 | 1801 | 308 | 0.0 | 75.0 | 3.0 |
| Crystal D352NT | 316 | 298.0 | 97 | 8964 | 102 | 1.27 | 16.19 | 29.83 | 323 | 1895 | 360 | 0.0 | 81.2 | 3.7 |
| Crystal D425NT | 318 | 297.6 | 97 | 7902 | 89 | 1.33 | 16.24 | 26.33 | 312 | 1955 | 392 | 0.0 | 78.0 | 3.7 |
| Crystal D488 | 304 | 309.4 | 101 | 8923 | 101 | 1.35 | 16.84 | 28.83 | 336 | 1954 | 404 | 0.0 | 73.8 | 4.4 |
| Hilleshög 4302RR | 302 | 314.2 | 103 | 8701 | 99 | 1.06 | 16.81 | 27.47 | 284 | 1760 | 250 | 0.0 | 73.3 | 3.2 |
| Hilleshög 9517RR | 328 | 313.4 | 102 | 7853 | 89 | 1.27 | 16.94 | 24.98 | 347 | 1903 | 350 | 0.0 | 60.0 | 3.2 |
| Hilleshög 9528RR | 308 | 316.4 | 103 | 9352 | 106 | 1.09 | 16.91 | 29.65 | 253 | 1689 | 303 | 0.0 | 72.7 | 2.4 |
| Hilleshög 9601RR | 301 | 293.5 | 96 | 8507 | 96 | 1.31 | 15.99 | 28.86 | 509 | 1850 | 346 | 0.0 | 63.4 | 2.6 |
| Hilleshög 9602RR | 322 | 306.4 | 100 | 9247 | 105 | 1.07 | 16.42 | 30.06 | 325 | 1773 | 247 | 0.0 | 74.7 | 2.4 |
| Hilleshög 9610RR | 334 | 312.3 | 102 | 8455 | 96 | 1.07 | 16.70 | 26.96 | 325 | 1693 | 260 | 0.0 | 71.4 | 2.9 |
| Hilleshög 9613RR | 331 | 284.8 | 93 | 9048 | 102 | 1.34 | 15.61 | 31.46 | 405 | 2012 | 359 | 0.0 | 78.2 | 2.6 |
| Hilleshög 9615RR | 312 | 308.4 | 101 | 8158 | 92 | 1.28 | 16.73 | 26.34 | 374 | 1897 | 353 | 0.0 | 74.7 | 5.3 |
| Hilleshög 9620RR | 335 | 303.6 | 99 | 8335 | 94 | 1.15 | 16.35 | 27.27 | 331 | 1883 | 273 | 0.0 | 77.2 | 3.1 |
| Maribo MA102RR | 305 | 322.5 | 105 | 9976 | 113 | 1.01 | 17.17 | 30.73 | 248 | 1652 | 251 | 0.0 | 72.8 | 2.7 |
| Maribo 109RR | 309 | 331.4 | 108 | 8173 | 93 | 1.05 | 17.65 | 24.48 | 238 | 1648 | 283 | 0.0 | 71.4 | 2.7 |
| Maribo 301 | 317 | 297.7 | 97 | 8289 | 94 | 1.31 | 16.19 | 27.82 | 386 | 1850 | 386 | 0.0 | 78.8 | 5.0 |
| Maribo 408 | 330 | 301.8 | 99 | 8974 | 102 | 1.19 | 16.29 | 29.65 | 370 | 1923 | 285 | 0.0 | 70.3 | 4.2 |
| Maribo 409 | 320 | 299.8 | 98 | 9556 | 108 | 1.18 | 16.19 | 31.75 | 244 | 1862 | 330 | 0.0 | 73.1 | 2.8 |
| Seedex SX0929RR | 306 | 303.0 | 99 | 8406 | 95 | 1.16 | 16.30 | 27.67 | 308 | 1927 | 276 | 0.0 | 66.4 | 3.5 |
| Seedex RR0941 | 314 | 301.5 | 99 | 8653 | 98 | 1.02 | 16.09 | 28.95 | 308 | 1616 | 253 | 0.0 | 63.7 | 2.6 |
| Seedex RR0942 | 327 | 334.5 | 109 | 7871 | 89 | 0.97 | 17.72 | 23.48 | 185 | 1727 | 223 | 0.0 | 69.5 | 4.1 |
| Seedex RR0943TT | 324 | 306.2 | 100 | 9443 | 107 | 1.12 | 16.47 | 30.69 | 256 | 1741 | 311 | 0.0 | 72.4 | 2.6 |
| Seedex RR0944 | 329 | 318.1 | 104 | 8306 | 94 | 1.05 | 16.98 | 26.01 | 250 | 1747 | 254 | 0.0 | 70.8 | 4.0 |
| Seedex RR0945 | 336 | 317.0 | 104 | 8383 | 95 | 1.07 | 16.91 | 26.45 | 232 | 1862 | 253 | 0.0 | 64.6 | 3.2 |
| Seedex RR0946 | 303 | 316.1 | 103 | 8262 | 94 | 1.07 | 16.89 | 25.88 | 275 | 1751 | 259 | 0.0 | 68.5 | 4.1 |
| SV RR631 | 313 | 306.9 | 100 | 9412 | 107 | 1.16 | 16.53 | 30.31 | 304 | 1757 | 315 | 0.0 | 68.4 | 3.1 |
| SV RR632N | 315 | 315.9 | 103 | 8729 | 99 | 1.02 | 16.85 | 27.49 | 243 | 1805 | 221 | 0.0 | 64.9 | 3.5 |
| SV RR633 | 321 | 306.4 | 100 | 9596 | 109 | 1.18 | 16.51 | 31.05 | 304 | 1739 | 340 | 0.0 | 73.6 | 2.6 |
| SV RR744 | 323 | 332.2 | 109 | 8247 | 93 | 1.09 | 17.76 | 24.71 | 257 | 1769 | 280 | 0.0 | 64.7 | 3.9 |
| SV RR745 | 332 | 314.2 | 103 | 8175 | 93 | 0.97 | 16.69 | 26.07 | 227 | 1763 | 199 | 0.0 | 67.2 | 4.3 |
| SV RR746 | 325 | 326.5 | 107 | 9565 | 108 | 1.08 | 17.44 | 29.13 | 277 | 1816 | 253 | 0.0 | 72.4 | 2.9 |
| SV RR747 | 319 | 304.5 | 100 | 9204 | 104 | 1.06 | 16.29 | 30.05 | 276 | 1709 | 266 | 0.0 | 67.7 | 2.7 |
| Crystal RR830(Check) | 337 | 299.7 | 98 | 9251 | 105 | 1.08 | 16.06 | 30.80 | 307 | 1814 | 238 | 0.0 | 76.3 | 3.1 |
| Hilleshög 4062RR(Check) | 338 | 299.7 | 98 | 8653 | 98 | 1.33 | 16.30 | 28.81 | 341 | 1863 | 412 | 0.0 | 76.5 | 3.0 |
| BTS 70RR99(Check) | 339 | 311.6 | 102 | 8817 | 100 | 1.25 | 16.85 | 28.23 | 286 | 1857 | 370 | 0.0 | 74.5 | 5.5 |
| Trial Mean | | 306.0 | | 8831 | | 1.23 | 16.54 | 28.81 | 335 | 1857 | 340 | 58.5 | 56.5 | 4.5 |
| Coeff. of Var. (%) | | 3.9 | | 5.3 | | 8.2 | 3.2 | 4.1 | 22.5 | 4.0 | 14.9 | | 9.3 | 30.7 |
| Mean LSD (0.05) | | 10.8 | | 603 | | 0.09 | 0.48 | 1.79 | 92 | 67 | 48 | | 4.8 | 1.1 |
| Mean LSD (0.01) | | 14.3 | | 837 | | 0.12 | 0.63 | 2.49 | 127 | 89 | 63 | | 6.4 | 1.5 |
| Sig Mrk | | ** | | ** | | ** | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from 2 sites 10/08/2014 09:49 Created 10-20-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial. Trial # = 14MDExp

Bolters per acre are based upon 45,000 plants per acre.

Table 34.

2014 Performance of Approved Varieties - MDFC Commercial Official Trials

Barnesville MN - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter per Ac | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | |
| BTS 70RR99 | 152 | 301.7 | 102 | 7828 | 99 | 1.27 | 16.37 | 26.03 | 309 | 1835 | 383 | 0.0 | 54.6 | 4.3 |
| BTS 72RR22 | 160 | 306.7 | 104 | 7754 | 99 | 1.29 | 16.62 | 25.33 | 355 | 1881 | 372 | 0.0 | 62.4 | 5.7 |
| BTS 72RR95 | 163 | 295.9 | 100 | 7130 | 91 | 1.47 | 16.27 | 24.13 | 458 | 1871 | 470 | 0.0 | 56.2 | 5.0 |
| Crystal RR012 | 162 | 314.4 | 106 | 7821 | 99 | 1.22 | 16.95 | 24.85 | 306 | 1845 | 341 | 0.0 | 58.2 | 6.3 |
| Crystal RR228 | 151 | 326.9 | 110 | 8809 | 112 | 1.14 | 17.47 | 26.99 | 260 | 1833 | 308 | 63.0 | 55.9 | 3.8 |
| Crystal RR260 | 159 | 285.9 | 97 | 9012 | 115 | 1.33 | 15.63 | 31.54 | 486 | 1995 | 323 | 0.0 | 57.7 | 3.7 |
| Crystal RR299 | 157 | 283.1 | 96 | 7867 | 100 | 1.37 | 15.52 | 27.83 | 521 | 1947 | 356 | 733.5 | 53.8 | 4.1 |
| Crystal RR830 | 156 | 288.2 | 97 | 8232 | 105 | 1.14 | 15.53 | 28.60 | 370 | 1750 | 281 | 0.0 | 57.7 | 4.1 |
| Hilleshög 4022RR | 158 | 283.1 | 96 | 7465 | 95 | 1.48 | 15.63 | 26.43 | 521 | 1955 | 438 | 0.0 | 57.9 | 3.2 |
| Hilleshög 4062RR | 153 | 290.1 | 98 | 7414 | 94 | 1.40 | 15.89 | 25.64 | 441 | 1896 | 412 | 0.0 | 57.9 | 3.2 |
| Hilleshög 4448RR(9448) | 155 | 301.9 | 102 | 8320 | 106 | 1.15 | 16.26 | 27.43 | 337 | 1652 | 324 | 0.0 | 53.0 | 2.8 |
| Seedex Vapor RR(995) | 154 | 291.4 | 98 | 6557 | 83 | 1.19 | 15.76 | 22.65 | 372 | 1777 | 313 | 0.0 | 54.4 | 4.4 |
| Seedex Yuma RR(924) | 161 | 280.9 | 95 | 6753 | 86 | 1.18 | 15.23 | 23.97 | 450 | 1718 | 291 | 0.0 | 49.4 | 3.8 |
| RR Filler #06 | 164 | 290.7 | 98 | 7884 | 100 | 1.35 | 15.89 | 27.21 | 503 | 1950 | 344 | 0.0 | 59.2 | 3.7 |
| RR Filler #02b | 165 | 297.1 | 100 | 9192 | 117 | 1.23 | 16.09 | 31.07 | 463 | 1837 | 300 | 63.0 | 56.2 | 3.3 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | |
| BTS 7373 | 326 | 324.3 | 110 | 8068 | 103 | 1.11 | 17.35 | 24.87 | 258 | 1901 | 262 | 0.0 | 69.6 | 2.7 |
| BTS 73MN | 333 | 305.1 | 103 | 7866 | 100 | 1.05 | 16.32 | 25.93 | 291 | 1784 | 231 | 0.0 | 75.6 | 2.8 |
| BTS 7438 | 311 | 289.8 | 98 | 7675 | 98 | 1.16 | 15.65 | 26.86 | 397 | 1737 | 295 | 0.0 | 78.9 | 4.1 |
| BTS 7447 | 310 | 317.3 | 107 | 7972 | 101 | 1.08 | 16.97 | 25.16 | 251 | 1779 | 272 | 0.0 | 78.8 | 2.5 |
| BTS 7481 | 307 | 300.9 | 102 | 7449 | 95 | 1.17 | 16.23 | 24.64 | 250 | 1793 | 332 | 0.0 | 73.7 | 2.6 |
| Crystal D352NT | 316 | 288.6 | 98 | 7867 | 100 | 1.34 | 15.76 | 27.31 | 402 | 1924 | 373 | 0.0 | 83.8 | 2.6 |
| Crystal D425NT | 318 | 293.5 | 99 | 7019 | 89 | 1.35 | 16.03 | 23.93 | 353 | 1947 | 394 | 0.0 | 76.6 | 3.2 |
| Crystal D488 | 304 | 305.7 | 103 | 7937 | 101 | 1.37 | 16.67 | 25.98 | 390 | 1950 | 396 | 0.0 | 73.6 | 3.5 |
| Hilleshög 4302RR | 302 | 309.3 | 105 | 7837 | 100 | 1.08 | 16.58 | 25.24 | 332 | 1769 | 245 | 0.0 | 70.7 | 2.9 |
| Hilleshög 9517RR | 328 | 312.9 | 106 | 6875 | 87 | 1.14 | 16.80 | 21.93 | 366 | 1865 | 256 | 0.0 | 59.3 | 2.6 |
| Hilleshög 9528RR | 308 | 312.1 | 105 | 8053 | 102 | 1.05 | 16.66 | 25.76 | 284 | 1703 | 256 | 0.0 | 72.9 | 1.8 |
| Hilleshög 9601RR | 301 | 281.2 | 95 | 7357 | 93 | 1.33 | 15.42 | 26.09 | 598 | 1805 | 338 | 0.0 | 63.9 | 2.4 |
| Hilleshög 9602RR | 322 | 296.1 | 100 | 7931 | 101 | 1.11 | 15.94 | 26.83 | 383 | 1787 | 247 | 0.0 | 71.2 | 2.0 |
| Hilleshög 9610RR | 334 | 307.3 | 104 | 7856 | 100 | 1.13 | 16.51 | 25.41 | 359 | 1697 | 293 | 0.0 | 74.9 | 2.3 |
| Hilleshög 9613RR | 331 | 275.1 | 93 | 8064 | 102 | 1.38 | 15.15 | 29.12 | 508 | 1954 | 356 | 0.0 | 76.6 | 1.9 |
| Hilleshög 9615RR | 312 | 301.1 | 102 | 7028 | 89 | 1.31 | 16.39 | 23.42 | 428 | 1931 | 349 | 0.0 | 79.6 | 5.2 |
| Hilleshög 9620RR | 335 | 294.5 | 100 | 6747 | 86 | 1.11 | 15.86 | 22.90 | 395 | 1779 | 244 | 0.0 | 82.1 | 2.7 |
| Maribo MA102RR | 305 | 310.4 | 105 | 8731 | 111 | 1.02 | 16.58 | 28.10 | 280 | 1652 | 251 | 0.0 | 71.8 | 2.0 |
| Maribo 109RR | 309 | 321.7 | 109 | 7364 | 94 | 1.10 | 17.21 | 22.80 | 279 | 1640 | 305 | 0.0 | 76.6 | 2.2 |
| Maribo 301 | 317 | 298.0 | 101 | 7443 | 95 | 1.31 | 16.21 | 24.84 | 416 | 1837 | 372 | 0.0 | 79.8 | 6.0 |
| Maribo 408 | 330 | 289.5 | 98 | 7617 | 97 | 1.22 | 15.69 | 26.56 | 450 | 1906 | 283 | 0.0 | 70.8 | 3.7 |
| Maribo 409 | 320 | 296.1 | 100 | 8587 | 109 | 1.12 | 15.92 | 29.20 | 248 | 1869 | 281 | 0.0 | 72.5 | 2.5 |
| Seedex SX0929RR | 306 | 294.1 | 99 | 7172 | 91 | 1.17 | 15.88 | 24.52 | 351 | 1921 | 273 | 0.0 | 65.8 | 3.3 |
| Seedex RR0941 | 314 | 293.4 | 99 | 7451 | 95 | 1.07 | 15.74 | 25.75 | 383 | 1589 | 270 | 0.0 | 63.9 | 2.5 |
| Seedex RR0942 | 327 | 326.5 | 110 | 6747 | 86 | 0.96 | 17.29 | 20.75 | 209 | 1740 | 207 | 0.0 | 69.4 | 3.3 |
| Seedex RR0943TT | 324 | 305.9 | 103 | 8628 | 110 | 1.11 | 16.42 | 28.13 | 271 | 1700 | 306 | 0.0 | 71.9 | 2.3 |
| Seedex RR0944 | 329 | 303.2 | 102 | 7220 | 92 | 1.08 | 16.27 | 23.72 | 304 | 1707 | 272 | 0.0 | 72.4 | 3.2 |
| Seedex RR0945 | 336 | 312.9 | 106 | 7108 | 90 | 1.06 | 16.69 | 22.85 | 256 | 1821 | 244 | 0.0 | 59.2 | 3.0 |
| Seedex RR0946 | 303 | 304.7 | 103 | 7062 | 90 | 1.09 | 16.36 | 23.12 | 322 | 1780 | 253 | 0.0 | 68.3 | 2.9 |
| SV RR631 | 313 | 297.5 | 101 | 8196 | 104 | 1.15 | 16.04 | 27.41 | 363 | 1711 | 302 | 0.0 | 72.3 | 2.8 |
| SV RR632N | 315 | 311.5 | 105 | 7812 | 99 | 1.11 | 16.71 | 25.28 | 299 | 1895 | 251 | 0.0 | 61.9 | 3.3 |
| SV RR633 | 321 | 292.4 | 99 | 8150 | 104 | 1.13 | 15.76 | 27.63 | 355 | 1683 | 292 | 0.0 | 76.2 | 2.8 |
| SV RR744 | 323 | 325.3 | 110 | 7338 | 93 | 1.13 | 17.46 | 22.57 | 330 | 1796 | 278 | 0.0 | 64.0 | 3.2 |
| SV RR745 | 332 | 309.4 | 105 | 6343 | 81 | 0.96 | 16.43 | 20.45 | 260 | 1649 | 208 | 0.0 | 68.4 | 5.2 |
| SV RR746 | 325 | 317.7 | 107 | 8666 | 110 | 1.07 | 16.98 | 26.89 | 284 | 1766 | 249 | 0.0 | 74.6 | 2.5 |
| SV RR747 | 319 | 298.6 | 101 | 8329 | 106 | 1.09 | 16.03 | 28.04 | 324 | 1738 | 262 | 0.0 | 69.3 | 2.2 |
| Crystal RR830(Check) | 337 | 286.4 | 97 | 7878 | 100 | 1.15 | 15.47 | 27.55 | 382 | 1773 | 277 | 0.0 | 77.4 | 3.0 |
| Hilleshög 4062RR(Check) | 338 | 292.0 | 99 | 7748 | 98 | 1.37 | 15.95 | 26.67 | 404 | 1845 | 423 | 0.0 | 78.0 | 2.6 |
| BTS 70RR99(Check) | 339 | 301.6 | 102 | 7849 | 100 | 1.29 | 16.37 | 26.04 | 334 | 1863 | 376 | 0.0 | 76.1 | 3.1 |
| Trial Mean | | 295.9 | | 7869 | | 1.28 | 16.07 | 26.65 | 410 | 1849 | 350 | 0.0 | 56.3 | 4.1 |
| Coeff. of Var. (%) | | 4.0 | | 5.8 | | 7.7 | 3.2 | 4.7 | 20.6 | 3.8 | 13.5 | | 7.5 | 30.2 |
| Mean LSD (0.05) | | 15.1 | | 573 | | 0.13 | 0.65 | 1.57 | 106 | 87 | 63 | | 5.3 | 1.4 |
| Mean LSD (0.01) | | 20.1 | | 762 | | 0.17 | 0.87 | 2.08 | 140 | 116 | 84 | | 7.0 | 1.9 |
| Sig Mrk | | ** | | ** | | ** | ** | ** | ** | ** | ** | | ** | ** |

* 2014 Data from Barnesville MN 10/07/2014 13:44 Created 10-20-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial. Trial # = 146301

Bolters per acre are based upon 45,000 plants per acre.

Table 35.

2014 Performance of Approved Varieties - MDFC Commercial Official Trials

Fairmount ND - All Characters

| Description @ | Code | Rec/T lbs. | Rec/T %Mean | Rec/A lbs. | Rec/A %Mean | Loss Mol % | Sugar % | Yield T/A | Na ppm | K ppm | AmN ppm | Bolter per Ac | Emerg. % | Tare % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Commercial Trial** | | | | | | | | | | | | | | |
| BTS 70RR99 | 152 | 324.9 | 103 | 10278 | 105 | 1.20 | 17.43 | 31.57 | 242 | 1882 | 340 | 0.0 | 59.3 | 5.1 |
| BTS 72RR22 | 160 | 326.2 | 103 | 9484 | 97 | 1.25 | 17.58 | 29.25 | 246 | 1893 | 372 | 0.0 | 59.7 | 6.8 |
| BTS 72RR95 | 163 | 314.2 | 99 | 9077 | 93 | 1.31 | 17.03 | 28.94 | 253 | 1920 | 413 | 0.0 | 59.5 | 5.9 |
| Crystal RR012 | 162 | 329.4 | 104 | 9599 | 98 | 1.17 | 17.62 | 29.01 | 198 | 1844 | 351 | 99.0 | 53.1 | 6.1 |
| Crystal RR228 | 151 | 344.6 | 109 | 10147 | 104 | 1.13 | 18.36 | 29.42 | 210 | 1794 | 323 | 0.0 | 57.8 | 5.5 |
| Crystal RR260 | 159 | 305.7 | 97 | 10464 | 107 | 1.25 | 16.52 | 34.33 | 348 | 1967 | 319 | 0.0 | 52.8 | 4.4 |
| Crystal RR299 | 157 | 313.9 | 99 | 10056 | 103 | 1.19 | 16.89 | 31.79 | 273 | 1886 | 323 | 477.0 | 57.0 | 5.5 |
| Crystal RR830 | 156 | 303.7 | 96 | 10292 | 105 | 1.07 | 16.28 | 33.75 | 260 | 1764 | 266 | 157.5 | 60.8 | 3.8 |
| Hilleshög 4022RR | 158 | 295.0 | 93 | 8676 | 89 | 1.38 | 16.12 | 29.55 | 365 | 1937 | 423 | 0.0 | 55.2 | 4.1 |
| Hilleshög 4062RR | 153 | 313.3 | 99 | 9393 | 96 | 1.23 | 16.90 | 30.06 | 237 | 1935 | 356 | 0.0 | 55.9 | 4.1 |
| Hilleshög 4448RR(9448) | 155 | 319.3 | 101 | 10450 | 107 | 1.12 | 17.07 | 32.67 | 247 | 1693 | 325 | 0.0 | 53.0 | 4.1 |
| Seedex Vapor RR(995) | 154 | 316.2 | 100 | 9276 | 95 | 0.98 | 16.78 | 29.35 | 199 | 1758 | 219 | 0.0 | 54.9 | 4.9 |
| Seedex Yuma RR(924) | 161 | 297.5 | 94 | 8738 | 89 | 1.17 | 16.04 | 29.43 | 318 | 1808 | 315 | 0.0 | 46.5 | 4.3 |
| RR Filler #06 | 164 | 317.2 | 100 | 10001 | 102 | 1.29 | 17.16 | 31.48 | 269 | 2048 | 359 | 126.0 | 64.1 | 5.5 |
| RR Filler #02b | 165 | 321.8 | 102 | 10953 | 112 | 1.06 | 17.16 | 34.10 | 248 | 1853 | 238 | 0.0 | 60.4 | 4.4 |
| **Experimental Trial (Comm status)** | | | | | | | | | | | | | | |
| BTS 7373 | 326 | 325.0 | 103 | 10174 | 104 | 1.17 | 17.45 | 31.00 | 284 | 1887 | 314 | 0.0 | 70.6 | 3.6 |
| BTS 73MN | 333 | 307.7 | 97 | 10138 | 104 | 1.03 | 16.47 | 32.45 | 216 | 1734 | 270 | 0.0 | 67.5 | 3.1 |
| BTS 7438 | 311 | 310.1 | 98 | 10231 | 104 | 1.09 | 16.61 | 33.08 | 261 | 1782 | 276 | 0.0 | 75.3 | 4.4 |
| BTS 7447 | 310 | 324.1 | 102 | 10419 | 106 | 1.18 | 17.39 | 32.17 | 271 | 1830 | 342 | 0.0 | 79.8 | 3.2 |
| BTS 7481 | 307 | 313.3 | 99 | 10242 | 105 | 1.10 | 16.80 | 32.49 | 244 | 1806 | 287 | 0.0 | 77.2 | 3.8 |
| Crystal D352NT | 316 | 301.2 | 95 | 9991 | 102 | 1.22 | 16.34 | 32.23 | 277 | 1862 | 374 | 0.0 | 77.6 | 4.9 |
| Crystal D425NT | 318 | 297.2 | 94 | 8741 | 89 | 1.34 | 16.23 | 28.86 | 286 | 1967 | 407 | 0.0 | 79.3 | 4.1 |
| Crystal D488 | 304 | 312.5 | 99 | 9819 | 100 | 1.35 | 16.93 | 31.56 | 277 | 1961 | 421 | 0.0 | 73.3 | 5.4 |
| Hilleshög 4302RR | 302 | 316.9 | 100 | 9469 | 97 | 1.06 | 16.92 | 29.72 | 264 | 1748 | 266 | 0.0 | 76.1 | 3.5 |
| Hilleshög 9517RR | 328 | 307.0 | 97 | 8799 | 90 | 1.47 | 16.84 | 28.20 | 385 | 1945 | 502 | 0.0 | 61.0 | 3.8 |
| Hilleshög 9528RR | 308 | 320.0 | 101 | 10729 | 110 | 1.15 | 17.14 | 33.80 | 214 | 1671 | 364 | 0.0 | 72.9 | 3.4 |
| Hilleshög 9601RR | 301 | 306.8 | 97 | 9694 | 99 | 1.32 | 16.63 | 31.64 | 414 | 1900 | 372 | 0.0 | 62.9 | 2.7 |
| Hilleshög 9602RR | 322 | 318.6 | 101 | 10673 | 109 | 1.04 | 16.97 | 33.74 | 252 | 1758 | 250 | 0.0 | 79.0 | 2.8 |
| Hilleshög 9610RR | 334 | 317.7 | 100 | 8870 | 91 | 0.99 | 16.87 | 28.10 | 281 | 1682 | 211 | 0.0 | 66.9 | 3.7 |
| Hilleshög 9613RR | 331 | 294.3 | 93 | 9995 | 102 | 1.32 | 16.01 | 33.92 | 280 | 2078 | 371 | 0.0 | 80.3 | 3.1 |
| Hilleshög 9615RR | 312 | 313.9 | 99 | 9280 | 95 | 1.25 | 16.96 | 29.31 | 309 | 1844 | 372 | 0.0 | 68.4 | 5.6 |
| Hilleshög 9620RR | 335 | 311.9 | 99 | 10152 | 104 | 1.22 | 16.83 | 32.57 | 255 | 2005 | 321 | 0.0 | 71.0 | 3.6 |
| Maribo MA102RR | 305 | 335.9 | 106 | 11239 | 115 | 0.99 | 17.80 | 33.59 | 220 | 1651 | 247 | 0.0 | 73.7 | 3.4 |
| Maribo 109RR | 309 | 343.2 | 109 | 8901 | 91 | 0.99 | 18.15 | 26.02 | 201 | 1658 | 254 | 0.0 | 64.2 | 2.9 |
| Maribo 301 | 317 | 294.8 | 93 | 9043 | 92 | 1.35 | 16.06 | 30.71 | 359 | 1865 | 426 | 0.0 | 77.3 | 3.8 |
| Maribo 408 | 330 | 314.7 | 100 | 10464 | 107 | 1.17 | 16.92 | 33.12 | 289 | 1935 | 297 | 0.0 | 70.1 | 4.7 |
| Maribo 409 | 320 | 298.2 | 94 | 10401 | 106 | 1.27 | 16.22 | 34.35 | 256 | 1848 | 408 | 0.0 | 73.7 | 3.3 |
| Seedex SX0929RR | 306 | 314.3 | 99 | 9717 | 99 | 1.16 | 16.84 | 31.16 | 284 | 1923 | 279 | 0.0 | 67.5 | 3.6 |
| Seedex RR0941 | 314 | 312.8 | 99 | 9940 | 102 | 0.97 | 16.59 | 32.34 | 208 | 1646 | 234 | 0.0 | 62.8 | 2.9 |
| Seedex RR0942 | 327 | 340.3 | 108 | 9071 | 93 | 1.00 | 18.07 | 26.50 | 188 | 1706 | 256 | 0.0 | 69.6 | 4.9 |
| Seedex RR0943TT | 324 | 302.1 | 96 | 10113 | 103 | 1.15 | 16.28 | 33.16 | 261 | 1797 | 320 | 0.0 | 72.9 | 2.7 |
| Seedex RR0944 | 329 | 336.6 | 106 | 9433 | 96 | 0.99 | 17.83 | 28.27 | 156 | 1784 | 223 | 0.0 | 68.3 | 5.0 |
| Seedex RR0945 | 336 | 315.6 | 100 | 9709 | 99 | 1.14 | 16.95 | 30.28 | 270 | 1906 | 292 | 0.0 | 71.7 | 3.4 |
| Seedex RR0946 | 303 | 327.1 | 103 | 9476 | 97 | 1.06 | 17.42 | 28.75 | 250 | 1715 | 286 | 0.0 | 68.8 | 5.2 |
| SV RR631 | 313 | 314.1 | 99 | 10618 | 108 | 1.16 | 16.90 | 33.40 | 241 | 1818 | 333 | 0.0 | 64.0 | 3.3 |
| SV RR632N | 315 | 315.1 | 100 | 9576 | 98 | 0.93 | 16.75 | 29.85 | 204 | 1692 | 207 | 0.0 | 68.6 | 3.6 |
| SV RR633 | 321 | 319.3 | 101 | 11128 | 114 | 1.27 | 17.25 | 34.67 | 280 | 1805 | 426 | 0.0 | 70.5 | 2.2 |
| SV RR744 | 323 | 339.5 | 107 | 9123 | 93 | 1.04 | 18.03 | 26.93 | 147 | 1740 | 287 | 0.0 | 65.1 | 4.6 |
| SV RR745 | 332 | 318.0 | 101 | 10329 | 105 | 1.00 | 16.91 | 32.63 | 204 | 1899 | 197 | 0.0 | 65.8 | 3.4 |
| SV RR746 | 325 | 337.0 | 107 | 10403 | 106 | 1.11 | 17.94 | 31.12 | 254 | 1867 | 252 | 0.0 | 69.6 | 3.4 |
| SV RR747 | 319 | 307.0 | 97 | 9942 | 102 | 1.03 | 16.41 | 31.97 | 231 | 1661 | 279 | 0.0 | 65.8 | 3.3 |
| Crystal RR830(Check) | 337 | 315.6 | 100 | 10755 | 110 | 0.99 | 16.76 | 34.33 | 219 | 1852 | 190 | 0.0 | 74.0 | 3.0 |
| Hilleshög 4062RR(Check) | 338 | 305.5 | 97 | 9459 | 97 | 1.29 | 16.58 | 30.69 | 283 | 1879 | 405 | 0.0 | 74.8 | 3.7 |
| BTS 70RR99(Check) | 339 | 320.8 | 101 | 9750 | 100 | 1.22 | 17.27 | 30.37 | 236 | 1849 | 367 | 0.0 | 72.8 | 8.3 |
| Trial Mean | | 316.2 | | 9792 | | 1.19 | 17.00 | 30.98 | 261 | 1865 | 329 | 0.0 | 56.7 | 5.0 |
| Coeff. of Var. (%) | | 4.1 | | 4.7 | | 8.7 | 3.5 | 3.6 | 25.1 | 4.4 | 16.4 | | 11.3 | 31.8 |
| Mean LSD (0.05) | | 16.8 | | 607 | | 0.14 | 0.76 | 1.38 | 88 | 106 | 73 | | 8.4 | 1.8 |
| Mean LSD (0.01) | | 22.4 | | 808 | | 0.19 | 1.01 | 1.83 | 117 | 141 | 98 | | 11.2 | 2.4 |
| Sig Mrk | | ** | | ** | | ** | ** | ** | ** | ** | ** | | * | * |

* 2014 Data from Fairmount ND 10/08/2014 08:32 Created 10-20-2014.

@ Experimental trial data adjusted to commercial status. Statistics are from commercial trial. Trial # = 146303

Bolters per acre are based upon 45,000 plants per acre.

Table 36.
2014 Aphanomyces Readings for Official Trial Entries
Betaseed Nursery - Shakopee, MN & Betaseed Replant - Shakopee, MN

| | | | Foliar^ Unadjusted | | Root^^ Unadjusted | | Foliar^ Adjusted | | Root^^ Adjusted | | 2014 Average | | Multi-Year Average Foliar | | Root | | 2013 | | 2012 | | Trial |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Chk++ | Code | Description | Shak #2 9/8 | Shak 8/13 | Shak #2 9/17 | Shak 8/27 | Shak #2 9/8 | Shak 8/13 | Shak #2 9/17 | Shak 8/27 | Foliar | Root | 2 Yr | 3 Yr | 2 Yr | 3 Yr | Foliar^ | Rt.Indx^^ | Foliar^ | Rt.Indx^^ | Yrs $$ |
| | 616 | BTS 70RR99 | 1.97 | 3.65 | 3.71 | 4.69 | 1.70 | 2.19 | 3.30 | 3.83 | 1.95 | 3.57 | 2.39 | NR | 4.04 | NR | 2.83 | 4.52 | NR | NR | 5 |
| | 532 | BTS 72RR22 | 1.32 | 3.15 | 2.20 | 3.30 | 1.14 | 1.89 | 1.96 | 2.70 | 1.52 | 2.33 | 1.85 | 1.93 | 2.77 | 2.91 | 2.17 | 3.21 | 2.10 | 3.19 | 3 |
| | 555 | BTS 72RR95 | 2.08 | 4.03 | 4.70 | 5.08 | 1.80 | 2.42 | 4.18 | 4.15 | 2.11 | 4.17 | 2.22 | 2.24 | 3.98 | 3.96 | 2.34 | 3.80 | 2.27 | 3.93 | 3 |
| | 598 | BTS 7373 | 1.56 | 3.24 | 2.49 | 3.94 | 1.35 | 1.95 | 2.22 | 3.22 | 1.65 | 2.72 | 1.80 | -- | 3.12 | -- | 1.96 | 3.53 | -- | -- | 2 |
| | 544 | BTS 73MN | 1.96 | 3.29 | 4.66 | 4.54 | 1.69 | 1.98 | 4.15 | 3.71 | 1.83 | 3.93 | 2.03 | -- | 3.94 | -- | 2.23 | 3.96 | -- | -- | 2 |
| | 604 | BTS 7438 | 2.27 | 3.50 | 4.44 | 4.60 | 1.96 | 2.10 | 3.95 | 3.76 | 2.03 | 3.85 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 614 | BTS 7447 | 2.70 | 4.74 | 5.15 | 5.46 | 2.33 | 2.85 | 4.58 | 4.46 | 2.59 | 4.52 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 582 | BTS 7481 | 3.31 | 4.41 | 5.50 | 5.75 | 2.86 | 2.65 | 4.89 | 4.70 | 2.75 | 4.80 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 527 | BTS 80RR32 | 2.45 | 6.75 | 4.75 | 7.22 | 2.12 | 4.05 | 4.23 | 5.90 | 3.08 | 5.06 | 3.17 | 3.01 | 5.05 | 4.85 | 3.26 | 5.04 | 2.69 | 4.43 | 5 |
| | 573 | BTS 80RR52 | 2.32 | 4.16 | 4.35 | 5.07 | 2.00 | 2.50 | 3.87 | 4.14 | 2.25 | 4.01 | 2.30 | 2.33 | 4.01 | 4.02 | 2.34 | 4.01 | 2.41 | 4.04 | 5 |
| | 506 | BTS 81RR17 | 1.90 | 4.12 | 3.27 | 4.67 | 1.64 | 2.47 | 2.91 | 3.82 | 2.06 | 3.36 | 2.11 | 1.95 | 3.62 | 3.50 | 2.16 | 3.87 | 1.65 | 3.25 | 4 |
| | 508 | BTS 82RR22 | 2.40 | 4.25 | 4.78 | 5.19 | 2.07 | 2.55 | 4.25 | 4.24 | 2.31 | 4.25 | 2.55 | 2.27 | 4.33 | 4.20 | 2.79 | 4.41 | 1.71 | 3.95 | 3 |
| | 517 | BTS 82RR28 | 3.58 | 4.68 | 5.47 | 5.88 | 3.09 | 2.81 | 4.87 | 4.80 | 2.95 | 4.84 | 2.77 | 2.80 | 4.73 | 4.65 | 2.59 | 4.62 | 2.87 | 4.51 | 3 |
| | 515 | BTS 82RR33 | 3.56 | 6.89 | 6.17 | 6.97 | 3.07 | 4.14 | 5.49 | 5.69 | 3.61 | 5.59 | 3.25 | 3.14 | 5.49 | 5.36 | 2.89 | 5.40 | 2.92 | 5.11 | 3 |
| | 578 | BTS 82RR80 | 2.14 | 3.46 | 4.54 | 4.89 | 1.85 | 2.08 | 4.04 | 4.00 | 1.96 | 4.02 | 2.23 | 2.06 | 4.29 | 3.98 | 2.49 | 4.56 | 1.72 | 3.37 | 3 |
| | 606 | BTS 8337 | 1.57 | 4.86 | 3.13 | 5.60 | 1.36 | 2.92 | 2.78 | 4.58 | 2.14 | 3.68 | 2.22 | -- | 3.68 | -- | 2.31 | 3.69 | -- | -- | 2 |
| | 549 | BTS 8354 | 2.22 | 5.68 | 4.39 | 6.09 | 1.92 | 3.41 | 3.91 | 4.98 | 2.66 | 4.44 | 2.56 | -- | 4.37 | -- | 2.46 | 4.30 | -- | -- | 2 |
| | 510 | BTS 8363 | 3.14 | 6.42 | 4.93 | 6.95 | 2.71 | 3.86 | 4.39 | 5.68 | 3.28 | 5.03 | 3.17 | -- | 4.97 | -- | 3.07 | 4.91 | -- | -- | 2 |
| | 569 | BTS 8390 | 2.51 | 6.79 | 4.46 | 7.45 | 2.17 | 4.08 | 3.97 | 6.09 | 3.12 | 5.03 | 3.09 | -- | 4.89 | -- | 3.05 | 4.75 | -- | -- | 2 |
| | 597 | BTS 83CN | 1.85 | 5.03 | 4.37 | 5.42 | 1.60 | 3.02 | 3.89 | 4.43 | 2.31 | 4.16 | 2.63 | -- | 4.25 | -- | 2.95 | 4.34 | -- | -- | 2 |
| | 613 | BTS 8402 | 2.89 | 6.23 | 4.94 | 6.98 | 2.50 | 3.74 | 4.39 | 5.70 | 3.12 | 5.05 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 503 | BTS 8404 | 3.60 | 4.59 | 5.60 | 5.71 | 3.11 | 2.76 | 4.98 | 4.67 | 2.93 | 4.82 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 602 | BTS 8405 | 2.58 | 5.55 | 5.28 | 6.32 | 2.23 | 3.33 | 4.70 | 5.16 | 2.78 | 4.93 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 605 | BTS 8406 | 4.80 | 6.84 | 7.02 | 7.42 | 4.14 | 4.11 | 6.25 | 6.06 | 4.13 | 6.15 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 584 | BTS 8408 | 2.17 | 4.64 | 4.25 | 5.96 | 1.87 | 2.79 | 3.78 | 4.87 | 2.33 | 4.33 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 525 | BTS 840N | 1.77 | 5.45 | 4.49 | 6.40 | 1.53 | 3.27 | 3.99 | 5.23 | 2.40 | 4.61 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 593 | BTS 89RR83 | 3.65 | 6.20 | 5.34 | 6.72 | 3.15 | 3.72 | 4.75 | 5.49 | 3.44 | 5.12 | 2.97 | 2.63 | 4.58 | 4.26 | 2.51 | 4.04 | 1.94 | 3.62 | 6 |
| | 531 | Crystal 093RR | 3.60 | 5.83 | 4.84 | 6.21 | 3.11 | 3.50 | 4.31 | 5.07 | 3.30 | 4.69 | 2.91 | 2.81 | 4.61 | 4.47 | 2.52 | 4.54 | 2.62 | 4.19 | 5 |
| | 585 | Crystal 095RR | 4.23 | 4.81 | 5.21 | 5.59 | 3.65 | 2.89 | 4.64 | 4.57 | 3.27 | 4.60 | 3.21 | 3.01 | 4.83 | 4.76 | 3.15 | 5.05 | 2.62 | 4.63 | 5 |
| | 588 | Crystal 101RR | 2.07 | 3.37 | 4.25 | 3.81 | 1.79 | 2.02 | 3.78 | 3.11 | 1.91 | 3.45 | 2.11 | 2.04 | 3.62 | 3.40 | 2.32 | 3.80 | 1.88 | 2.97 | 4 |
| | 564 | Crystal 246RR | 2.23 | 5.36 | 4.57 | 6.07 | 1.93 | 3.22 | 4.07 | 4.96 | 2.57 | 4.51 | 2.83 | 2.68 | 4.71 | 4.42 | 3.09 | 4.90 | 2.37 | 3.85 | 3 |
| | 505 | Crystal 247RR | 2.57 | 5.91 | 5.26 | 6.63 | 2.22 | 3.55 | 4.68 | 5.42 | 2.88 | 5.05 | 2.99 | 2.69 | 5.13 | 4.65 | 3.10 | 5.21 | 2.07 | 3.68 | 3 |
| | 566 | Crystal 355RR | 1.94 | 4.76 | 4.06 | 5.75 | 1.68 | 2.86 | 3.61 | 4.70 | 2.27 | 4.15 | 2.38 | -- | 4.33 | -- | 2.50 | 4.51 | -- | -- | 2 |
| | 550 | Crystal 359RR | 3.02 | 4.98 | 5.76 | 5.78 | 2.61 | 2.99 | 5.12 | 4.72 | 2.80 | 4.92 | 2.52 | -- | 4.68 | -- | 2.24 | 4.44 | -- | -- | 2 |
| | 545 | Crystal 464RR | 0.98 | 2.85 | 2.49 | 4.65 | 0.85 | 1.71 | 2.22 | 3.80 | 1.28 | 3.01 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 539 | Crystal 465RR | 3.48 | 4.97 | 5.39 | 6.03 | 3.00 | 2.98 | 4.80 | 4.93 | 2.99 | 4.86 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 607 | Crystal 466RR | 3.56 | 6.00 | 5.89 | 6.55 | 3.07 | 3.60 | 5.24 | 5.35 | 3.34 | 5.30 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 518 | Crystal 467RR | 2.38 | 4.61 | 4.63 | 5.55 | 2.05 | 2.77 | 4.12 | 4.53 | 2.41 | 4.33 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 611 | Crystal 468RR | 2.33 | 4.21 | 4.38 | 5.77 | 2.01 | 2.53 | 3.90 | 4.71 | 2.27 | 4.31 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 530 | Crystal 469RR | 3.65 | 5.41 | 5.86 | 6.01 | 3.15 | 3.25 | 5.21 | 4.91 | 3.20 | 5.06 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 512 | Crystal 765RR | 5.84 | 6.73 | 6.60 | 7.52 | 5.04 | 4.04 | 5.87 | 6.14 | 4.54 | 6.01 | 4.21 | 3.95 | 5.90 | 5.83 | 3.89 | 5.79 | 3.42 | 5.69 | 8 |
| | 572 | Crystal 768RR | 2.99 | 4.20 | 5.65 | 5.49 | 2.58 | 2.52 | 5.03 | 4.49 | 2.55 | 4.76 | 2.60 | 2.31 | 4.78 | 4.49 | 2.66 | 4.80 | 1.73 | 3.91 | 8 |
| | 502 | Crystal 875RR | 2.09 | 2.90 | 4.20 | 3.03 | 1.80 | 1.74 | 3.74 | 2.48 | 1.77 | 3.11 | 1.96 | 1.91 | 3.43 | 3.19 | 2.14 | 3.76 | 1.81 | 2.71 | 7 |
| | 548 | Crystal 981RR | 2.20 | 4.29 | 3.87 | 5.07 | 1.90 | 2.58 | 3.44 | 4.14 | 2.24 | 3.79 | 2.24 | 2.06 | 3.67 | 3.47 | 2.24 | 3.55 | 1.70 | 3.08 | 6 |
| | 521 | Crystal 985RR | 1.62 | 2.53 | 4.08 | 3.60 | 1.40 | 1.52 | 3.63 | 2.94 | 1.46 | 3.29 | 1.87 | 1.81 | 3.59 | 3.44 | 2.27 | 3.89 | 1.69 | 3.15 | 6 |
| | 554 | Crystal 986RR | 2.50 | 3.79 | 5.80 | 5.01 | 2.16 | 2.28 | 5.16 | 4.09 | 2.22 | 4.63 | 2.35 | 2.35 | 4.65 | 4.57 | 2.48 | 4.67 | 2.34 | 4.41 | 6 |
| | 600 | Crystal D352NT | 2.44 | 2.72 | 4.65 | 4.23 | 2.11 | 1.63 | 4.14 | 3.46 | 1.87 | 3.80 | 2.08 | -- | 3.96 | -- | 2.29 | 4.12 | -- | -- | 2 |
| | 516 | Crystal D425NT | 2.39 | 5.01 | 4.73 | 5.79 | 2.06 | 3.01 | 4.21 | 4.73 | 2.54 | 4.47 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 560 | Crystal D488 | 2.05 | 4.19 | 4.66 | 5.27 | 1.77 | 2.52 | 4.15 | 4.31 | 2.14 | 4.23 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 615 | Crystal RR012 | 1.85 | 3.40 | 4.32 | 4.68 | 1.60 | 2.04 | 3.84 | 3.82 | 1.82 | 3.83 | 2.32 | NR | 4.31 | NR | 2.82 | 4.78 | NR | NR | 5 |
| | 561 | Crystal RR228 | 1.61 | 2.82 | 2.39 | 3.14 | 1.39 | 1.69 | 2.13 | 2.57 | 1.54 | 2.35 | 1.79 | 1.92 | 2.85 | 3.06 | 2.04 | 3.36 | 2.18 | 3.49 | 3 |
| | 559 | Crystal RR260 | 1.99 | 4.85 | 5.12 | 5.86 | 1.72 | 2.91 | 4.56 | 4.79 | 2.32 | 4.67 | 2.51 | 2.63 | 4.48 | 4.44 | 2.70 | 4.28 | 2.87 | 4.37 | 3 |
| | 612 | Crystal RR299 | 2.70 | 4.26 | 5.46 | 5.57 | 2.33 | 2.56 | 4.86 | 4.55 | 2.44 | 4.70 | 2.77 | 2.59 | 4.83 | 4.57 | 3.10 | 4.96 | 2.24 | 4.04 | 3 |
| | 556 | Crystal RR830 | 2.05 | 4.79 | 3.72 | 5.55 | 1.77 | 2.88 | 3.31 | 4.53 | 2.32 | 3.92 | 2.46 | NR | 4.27 | NR | 2.59 | 4.62 | NR | NR | 7 |
| | 501 | Hilleshög 4022RR | 5.26 | 4.10 | 4.42 | 5.50 | 4.54 | 2.46 | 4.68 | 4.49 | 3.50 | 4.59 | 3.15 | 3.04 | 4.62 | 4.45 | 2.80 | 4.65 | 2.81 | 4.11 | 9 |
| | 538 | Hilleshög 4062RR | 2.94 | 3.39 | 4.36 | 4.63 | 2.54 | 2.04 | 3.88 | 3.78 | 2.29 | 3.83 | 2.48 | NR | 4.14 | NR | 2.67 | 4.46 | NR | NR | 7 |
| | 504 | Hilleshög 4094RR | 3.45 | 3.88 | 5.36 | 5.10 | 2.98 | 2.33 | 4.77 | 4.17 | 2.65 | 4.47 | 2.73 | 2.65 | 4.60 | 4.30 | 2.81 | 4.73 | 2.48 | 3.72 | 7 |
| | 543 | Hilleshög 4300RR | 5.26 | 4.88 | 6.00 | 5.56 | 4.54 | 2.93 | 5.34 | 4.54 | 3.74 | 4.94 | 3.08 | 3.01 | 4.58 | 4.44 | 2.43 | 4.23 | 2.86 | 4.16 | 4 |
| | 591 | Hilleshög 4302RR | 3.42 | 3.17 | 5.41 | 4.38 | 2.95 | 1.90 | 4.81 | 3.58 | 2.43 | 4.20 | 2.47 | 2.46 | 4.51 | 4.41 | 2.51 | 4.82 | 2.43 | 4.20 | 4 |
| | 618 | Hilleshög 4303RR | 3.57 | 4.48 | 5.25 | 5.66 | 3.08 | 2.69 | 4.67 | 4.62 | 2.89 | 4.65 | 2.85 | 2.77 | 4.70 | 4.47 | 2.81 | 4.75 | 2.61 | 4.00 | 4 |
| | 528 | Hilleshög 4448RR(9448) | 3.79 | 5.83 | 5.27 | 5.97 | 3.27 | 3.50 | 4.69 | 4.88 | 3.39 | 4.78 | 3.31 | 3.55 | 4.76 | 5.06 | 3.22 | 4.73 | 4.03 | 5.66 | 3 |
| | 537 | Hilleshög 9517RR | 2.65 | 3.58 | 4.42 | 4.72 | 2.29 | 2.15 | 3.93 | 3.86 | 2.22 | 3.89 | 2.01 | -- | 3.78 | -- | 1.79 | 3.66 | -- | -- | 2 |
| | 574 | Hilleshög 9528RR | 4.53 | 6.64 | 5.84 | 6.96 | 3.91 | 3.99 | 5.20 | 5.69 | 3.95 | 5.44 | 3.36 | -- | 4.98 | -- | 2.78 | 4.51 | -- | -- | 2 |
| | 577 | Hilleshög 9601RR | 6.37 | 6.42 | 6.97 | 7.38 | 5.50 | 3.86 | 6.20 | 6.03 | 4.68 | 6.12 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 619 | Hilleshög 9602RR | 2.71 | 4.54 | 5.02 | 5.66 | 2.34 | 2.73 | 4.47 | 4.62 | 2.53 | 4.55 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 568 | Hilleshög 9604RR | 3.47 | 5.34 | 4.91 | 5.93 | 3.00 | 3.21 | 4.37 | 4.84 | 3.10 | 4.61 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 522 | Hilleshög 9610RR | 3.51 | 6.17 | 5.21 | 6.66 | 3.03 | 3.71 | 4.64 | 5.44 | 3.37 | 5.04 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 533 | Hilleshög 9613RR | 4.73 | 6.18 | 6.41 | 6.87 | 4.08 | 3.71 | 5.70 | 5.61 | 3.90 | 5.66 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 565 | Hilleshög 9615RR | 4.91 | 6.39 | 6.61 | 7.18 | 4.24 | 3.84 | 5.88 | 5.87 | 4.04 | 5.87 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 547 | Hilleshög 9620RR | 1.57 | 3.66 | 2.89 | 4.04 | 1.36 | 2.20 | 2.57 | 3.30 | 1.78 | 2.94 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 594 | Maribo 109RR | 3.06 | 5.90 | 4.68 | 7.14 | 2.64 | 3.54 | 4.16 | 5.83 | 3.09 | 5.00 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 551 | Maribo 301 | 1.37 | 3.70 | 3.33 | 4.11 | 1.18 | 2.22 | 2.96 | 3.36 | 1.70 | 3.16 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 608 | Maribo 305 | 4.29 | 5.53 | 5.70 | 6.02 | 3.70 | 3.32 | 5.07 | 4.92 | 3.51 | 4.99 | 3.45 | -- | 4.96 | -- | 3.38 | 4.93 | -- | -- | 2 |
| | 535 | Maribo 402 | 2.86 | 4.02 | 4.99 | 5.11 | 2.47 | 2.41 | 4.44 | 4.17 | 2.44 | 4.31 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 534 | Maribo 403 | 6.10 | 7.39 | 6.53 | 7.75 | 5.27 | 4.44 | 5.81 | 6.33 | 4.85 | 6.07 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 524 | Maribo 408 | 2.55 | 5.60 | 4.74 | 6.34 | 2.20 | 3.36 | 4.22 | 5.18 | 2.78 | 4.70 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 596 | Maribo 409 | 2.66 | 5.83 | 5.19 | 6.73 | 2.30 | 3.50 | 4.62 | 5.50 | 2.90 | 5.06 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 589 | Maribo MA102RR | 3.80 | 7.20 | 4.59 | 7.21 | 3.28 | 4.32 | 4.08 | 5.89 | 3.80 | 4.99 | 3.46 | 3.33 | 4.64 | 4.54 | 3.11 | 4.30 | 3.07 | 4.33 | 4 |
| | 603 | Maribo MA104RR | 3.56 | 8.39 | 5.41 | 8.56 | 3.07 | 5.04 | 4.81 | 6.99 | 4.06 | 5.90 | 3.46 | 3.36 | 5.31 | 5.02 | 2.86 | 4.71 | 3.15 | 4.46 | 4 |

Table 36.

2014 Aphanomyces Readings for Official Trial Entries

Betaseed Nursery - Shakopee, MN & Betaseed Replant - Shakopee, MN

| Chk++ | Code | Description | Foliar^ Unadjusted Shak #2 9/8 | Foliar^ Unadjusted Shak 8/13 | Root^^ Unadjusted Shak #2 9/17 | Root^^ Unadjusted Shak 8/27 | Foliar^ Adjusted Shak #2 9/8 | Foliar^ Adjusted Shak 8/13 | Root^^ Adjusted Shak #2 9/17 | Root^^ Adjusted Shak 8/27 | 2014 Average Foliar | 2014 Average Root | Multi-Year Average Foliar 2 Yr | Multi-Year Average Foliar 3 Yr | Multi-Year Average Root 2 Yr | Multi-Year Average Root 3 Yr | 2013 Foliar^ | 2013 Rt.Indx^^ | 2012 Foliar^ | 2012 Rt.Indx^^ | Trial Yrs $$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 575 | Seedex RR0832 | 3.34 | 6.31 | 5.36 | 6.55 | 2.88 | 3.79 | 4.77 | 5.35 | 3.34 | 5.06 | 3.11 | -- | 4.80 | -- | 2.89 | 4.54 | -- | -- | 2 |
| | 601 | Seedex RR0941 | 2.87 | 2.40 | 5.55 | 3.58 | 2.48 | 1.44 | 4.94 | 2.92 | 1.96 | 3.93 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 507 | Seedex RR0942 | 4.74 | 6.66 | 5.99 | 7.28 | 4.09 | 4.00 | 5.33 | 5.95 | 4.05 | 5.64 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 536 | Seedex RR0943TT | 4.94 | 5.46 | 6.55 | 6.21 | 4.27 | 3.28 | 5.83 | 5.07 | 3.77 | 5.45 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 617 | Seedex RR0944 | 2.67 | 3.61 | 4.51 | 4.75 | 2.31 | 2.17 | 4.01 | 3.88 | 2.24 | 3.95 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 580 | Seedex RR0945 | 2.84 | 5.03 | 5.25 | 6.39 | 2.45 | 3.02 | 4.67 | 5.22 | 2.74 | 4.95 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 567 | Seedex RR0946 | 5.31 | 4.54 | 6.08 | 5.51 | 4.58 | 2.73 | 5.41 | 4.50 | 3.66 | 4.96 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 520 | Seedex RR842 | 4.12 | 6.69 | 6.38 | 7.29 | 3.56 | 4.02 | 5.68 | 5.96 | 3.79 | 5.82 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 571 | Seedex RR844TT | 3.09 | 6.75 | 6.46 | 7.27 | 2.67 | 4.05 | 5.75 | 5.94 | 3.36 | 5.84 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 590 | Seedex RR846 | 4.03 | 7.20 | 6.09 | 7.49 | 3.48 | 4.32 | 5.42 | 6.12 | 3.90 | 5.77 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 513 | Seedex RR848 | 3.34 | 6.45 | 5.86 | 7.28 | 2.88 | 3.87 | 5.21 | 5.95 | 3.38 | 5.58 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 558 | Seedex SX0929RR | 3.41 | 4.16 | 5.22 | 5.03 | 2.94 | 2.50 | 4.64 | 4.11 | 2.72 | 4.38 | 3.34 | 2.97 | 4.92 | 4.54 | 3.95 | 5.46 | 2.25 | 3.80 | 3 |
| | 579 | Seedex Vapor RR(995) | 4.71 | 5.99 | 6.17 | 6.75 | 4.07 | 3.60 | 5.49 | 5.51 | 3.83 | 5.50 | 3.15 | NR | 5.07 | NR | 2.46 | 4.64 | NR | NR | 6 |
| | 526 | Seedex Victor RR | 3.67 | 4.68 | 5.58 | 5.81 | 3.17 | 2.81 | 4.96 | 4.75 | 2.99 | 4.86 | 3.08 | 3.14 | 4.88 | 4.81 | 3.18 | 4.90 | 3.25 | 4.68 | 6 |
| | 586 | Seedex Vision RR | 4.12 | 5.21 | 6.20 | 6.81 | 3.56 | 3.13 | 5.52 | 5.56 | 3.34 | 5.54 | 3.47 | 3.38 | 5.47 | 5.37 | 3.60 | 5.41 | 3.21 | 5.17 | 6 |
| | 587 | Seedex Xavier RR | 3.81 | 5.86 | 5.92 | 6.79 | 3.29 | 3.52 | 5.27 | 5.55 | 3.40 | 5.41 | 2.98 | 2.76 | 4.91 | 4.67 | 2.55 | 4.42 | 2.31 | 4.19 | 4 |
| | 541 | Seedex Yukon RR(828N) | 1.40 | 1.90 | 3.48 | 3.00 | 1.21 | 1.14 | 3.10 | 2.45 | 1.17 | 2.77 | 2.13 | 2.29 | 3.56 | 3.73 | 3.09 | 4.35 | 2.61 | 4.06 | 3 |
| | 563 | Seedex Yuma RR(924) | 3.76 | 6.11 | 6.02 | 6.69 | 3.25 | 3.67 | 5.36 | 5.47 | 3.46 | 5.41 | 3.21 | 3.12 | 4.94 | 4.83 | 2.97 | 4.46 | 2.94 | 4.63 | 3 |
| | 557 | Seedex Zenith RR(829N) | 2.67 | 2.01 | 3.84 | 3.00 | 2.31 | 1.21 | 3.42 | 2.45 | 1.76 | 2.93 | 2.80 | 2.62 | 4.18 | 4.09 | 3.85 | 5.42 | 2.25 | 3.90 | 3 |
| | 523 | SESVdh 36175RR | 1.56 | 1.94 | 4.60 | 3.31 | 1.35 | 1.17 | 4.09 | 2.70 | 1.26 | 3.40 | 1.93 | 2.03 | 3.85 | 3.93 | 2.61 | 4.29 | 2.22 | 4.10 | 4 |
| | 583 | SESVdh 36271RR | 1.60 | 3.82 | 3.68 | 4.23 | 1.38 | 2.29 | 3.27 | 3.46 | 1.84 | 3.36 | 2.71 | 2.80 | 4.46 | 4.59 | 3.59 | 5.55 | 2.98 | 4.85 | 3 |
| | 546 | SESVdh 36272RR | 2.87 | 5.13 | 5.23 | 6.50 | 2.48 | 3.08 | 4.65 | 5.31 | 2.78 | 4.98 | 2.99 | 3.07 | 4.99 | 5.04 | 3.20 | 5.01 | 3.22 | 5.15 | 3 |
| | 599 | SESVdh 36273RR | 3.19 | 6.46 | 6.18 | 6.96 | 2.75 | 3.88 | 5.50 | 5.69 | 3.32 | 5.59 | 3.32 | 2.62 | 5.45 | 4.67 | 3.33 | 5.31 | 1.21 | 3.10 | 3 |
| | 552 | SESVdh 36918RR | 2.36 | 4.97 | 5.16 | 5.94 | 2.04 | 2.98 | 4.59 | 4.85 | 2.51 | 4.72 | 2.94 | 2.73 | 4.86 | 4.81 | 3.37 | 5.00 | 2.30 | 4.69 | 6 |
| | 595 | SESVdh RR241 | 3.52 | 7.20 | 5.22 | 7.59 | 3.04 | 4.32 | 4.64 | 6.20 | 3.68 | 5.42 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 562 | SESVdh RR242TT | 5.90 | 8.30 | 7.10 | 8.39 | 5.09 | 4.98 | 6.32 | 6.85 | 5.04 | 6.59 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 514 | SESVdh RR243 | 4.07 | 6.56 | 6.30 | 7.11 | 3.51 | 3.94 | 5.60 | 5.81 | 3.73 | 5.71 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 553 | SESVdh RR244TT | 4.98 | 6.45 | 6.39 | 6.92 | 4.30 | 3.87 | 5.68 | 5.65 | 4.09 | 5.67 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 511 | SESVdh RR245N | 1.83 | 4.57 | 4.76 | 5.55 | 1.58 | 2.74 | 4.23 | 4.53 | 2.16 | 4.38 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 542 | SESVdh RR246 | 3.73 | 7.10 | 5.72 | 7.64 | 3.22 | 4.26 | 5.09 | 6.24 | 3.74 | 5.67 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 576 | SESVdh RR247 | 3.65 | 7.76 | 6.23 | 7.78 | 3.15 | 4.66 | 5.54 | 6.36 | 3.91 | 5.95 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 509 | SESVdh RR248 | 5.10 | 8.02 | 6.23 | 8.02 | 4.40 | 4.82 | 5.54 | 6.55 | 4.61 | 6.05 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 609 | SESVdh RR333 | 3.87 | 5.60 | 6.05 | 6.47 | 3.34 | 3.36 | 5.38 | 5.29 | 3.35 | 5.33 | 3.42 | -- | 5.41 | -- | 3.48 | 5.48 | -- | -- | 2 |
| | 529 | SESVdh RR336 | 2.89 | 6.91 | 5.71 | 7.25 | 2.50 | 4.15 | 5.08 | 5.92 | 3.32 | 5.50 | 2.99 | -- | 5.01 | -- | 2.66 | 4.53 | -- | -- | 2 |
| | 620 | SESVdh RR631 | 4.80 | 4.47 | 6.20 | 5.45 | 4.14 | 2.68 | 5.52 | 4.45 | 3.41 | 4.98 | 3.29 | -- | 5.01 | -- | 3.16 | 5.04 | -- | -- | 2 |
| | 540 | SESVdh RR632N | 3.22 | 5.22 | 5.36 | 5.90 | 2.78 | 3.14 | 4.77 | 4.82 | 2.96 | 4.79 | 2.93 | -- | 4.74 | -- | 2.91 | 4.69 | -- | -- | 2 |
| | 519 | SESVdh RR633 | 1.56 | 4.17 | 4.14 | 4.60 | 1.35 | 2.50 | 3.68 | 3.76 | 1.93 | 3.72 | 2.37 | -- | 4.21 | -- | 2.81 | 4.69 | -- | -- | 2 |
| | 592 | SESVdh RR744 | 5.38 | 6.01 | 6.39 | 6.29 | 4.65 | 3.61 | 5.68 | 5.14 | 4.13 | 5.41 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 610 | SESVdh RR745 | 6.11 | 6.83 | 6.84 | 7.58 | 5.28 | 4.10 | 6.09 | 6.19 | 4.69 | 6.14 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 581 | SESVdh RR746 | 4.15 | 4.63 | 5.06 | 5.80 | 3.58 | 2.78 | 4.50 | 4.74 | 3.18 | 4.62 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| | 570 | SESVdh RR747 | 3.74 | 4.22 | 5.93 | 4.98 | 3.23 | 2.53 | 5.28 | 4.07 | 2.88 | 4.67 | -- | -- | -- | -- | -- | -- | -- | -- | 1 |
| 1 | 1001 | Aph Chk-22 CRYS539RR | 3.03 | 5.03 | 5.31 | 5.84 | 2.62 | 3.02 | 4.72 | 4.77 | 2.82 | 4.75 | 2.95 | 2.50 | 4.49 | 3.91 | 3.09 | 4.24 | 1.59 | 2.75 | 10 |
| 1 | 1002 | Aph Chk-29 BETA86RR44 | 5.44 | 7.19 | 6.22 | 7.46 | 4.70 | 4.32 | 5.53 | 6.09 | 4.51 | 5.81 | 3.92 | 3.88 | 5.59 | 5.55 | 3.33 | 5.36 | 3.81 | 5.47 | 9 |
| 1 | 1003 | Aph Chk-30 BETA86RR66 | 4.29 | 5.42 | 5.78 | 6.07 | 3.70 | 3.26 | 5.14 | 4.96 | 3.48 | 5.05 | 3.14 | 3.28 | 4.78 | 4.86 | 2.80 | 4.51 | 3.57 | 5.02 | 9 |
| 1 | 1004 | Aph Chk-26 HILL4022RR | 3.68 | 6.86 | 5.56 | 7.23 | 3.18 | 4.12 | 4.95 | 5.91 | 3.65 | 5.43 | 3.18 | 2.93 | 5.08 | 4.79 | 2.70 | 4.73 | 2.45 | 4.21 | 9 |
| 1 | 1005 | Aph Chk-35 BETA87RR58 | 3.08 | 4.39 | 6.08 | 5.86 | 2.66 | 2.64 | 5.41 | 4.79 | 2.65 | 5.10 | 2.77 | 2.87 | 5.14 | 5.26 | 2.90 | 5.17 | 3.07 | 5.49 | 8 |
| 1 | 1006 | Aph Chk-39 CRYS879RR | 4.20 | 5.96 | 6.64 | 6.62 | 3.63 | 3.58 | 5.91 | 5.41 | 3.60 | 5.66 | 3.67 | 3.56 | 5.95 | 6.09 | 3.75 | 6.24 | 3.34 | 6.38 | 4 |
| 1 | 1007 | Aph Chk-42 BETA78RR10 | 2.95 | 4.16 | 6.12 | 5.46 | 2.55 | 2.50 | 5.44 | 4.46 | 2.52 | 4.95 | 3.02 | 2.66 | 5.13 | 4.54 | 3.51 | 5.30 | 1.95 | 3.38 | 4 |
| 1 | 1008 | Aph Chk-33 CRYS768RR | 2.45 | 4.73 | 4.94 | 5.94 | 2.12 | 2.84 | 4.39 | 4.85 | 2.48 | 4.62 | 2.80 | 2.45 | 4.96 | 4.55 | 3.13 | 5.29 | 1.75 | 3.75 | 8 |
| 1 | 1009 | Aph Chk-31 BETA86RR88 | 3.03 | 4.42 | 5.33 | 5.83 | 2.62 | 2.65 | 4.74 | 4.76 | 2.64 | 4.75 | 2.86 | 2.82 | 4.87 | 4.76 | 3.08 | 4.99 | 2.74 | 4.55 | 9 |
| 1 | 1010 | Aph Chk-18 BETA85RR02 | 2.03 | 2.59 | 3.46 | 3.47 | 1.75 | 1.56 | 3.08 | 2.83 | 1.65 | 2.96 | 1.93 | 2.22 | 3.23 | 3.50 | 2.21 | 3.50 | 2.79 | 4.04 | 10 |
| 1 | 1011 | Aph Chk-34 HILL4000RR | 4.23 | 5.82 | 6.05 | 6.69 | 3.65 | 3.50 | 5.38 | 5.47 | 3.57 | 5.42 | 3.51 | 3.80 | 5.30 | 5.48 | 3.44 | 5.18 | 4.37 | 5.83 | 8 |
| 1 | 1012 | Aph Chk-41 CRYS765RR | 4.78 | 7.16 | 6.42 | 7.59 | 4.13 | 4.30 | 5.71 | 6.20 | 4.21 | 5.96 | 4.02 | 3.82 | 5.98 | 6.01 | 3.82 | 6.01 | 3.44 | 6.07 | 4 |
| 1 | 1013 | Aph Chk-36 BETA87RR68 | 4.48 | 5.35 | 6.50 | 6.57 | 3.87 | 3.21 | 5.78 | 5.37 | 3.54 | 5.58 | 3.50 | 3.29 | 5.75 | 5.55 | 3.47 | 5.92 | 2.88 | 5.15 | 8 |
| | 1014 | Aph Chk-28 HILL4010RR | 4.15 | 7.52 | 5.88 | 7.49 | 3.58 | 4.52 | 5.23 | 6.12 | 4.05 | 5.68 | 3.71 | NR | 5.49 | NR | 3.37 | 5.31 | NR | NR | 9 |
| 1 | 1015 | Aph Chk-40 CRYS878RR | 4.46 | 4.31 | 6.17 | 6.03 | 3.85 | 2.59 | 5.49 | 4.93 | 3.22 | 5.21 | 3.46 | 3.06 | 5.48 | 5.03 | 3.70 | 5.74 | 2.26 | 4.13 | 4 |
| 1 | 1016 | Aph Chk-43 BTS80RR32 | 3.72 | 6.12 | 5.56 | 6.57 | 3.21 | 3.68 | 4.95 | 5.37 | 3.44 | 5.16 | 3.35 | 3.13 | 5.10 | 4.88 | 3.26 | 5.04 | 2.69 | 4.43 | 1 |
| | 1017 | ACAPMODRR | 3.05 | 5.41 | 5.56 | 6.64 | 2.63 | 3.25 | 4.95 | 5.42 | 2.94 | 5.19 | 2.90 | 2.72 | 5.05 | 4.77 | 2.85 | 4.91 | 2.36 | 4.21 | 8 |
| | 1018 | ACAPRESRR | 1.65 | 3.54 | 4.51 | 4.92 | 1.42 | 2.13 | 4.01 | 4.02 | 1.78 | 4.02 | 2.12 | 2.04 | 4.17 | 3.87 | 2.47 | 4.33 | 1.89 | 3.25 | 9 |
| | 1019 | AP CHK SUS HYB#3 | 5.78 | 7.29 | 6.60 | 7.89 | 4.99 | 4.38 | 5.87 | 6.45 | 4.68 | 6.16 | 4.22 | 3.95 | 6.04 | 5.96 | 3.75 | 5.93 | 3.42 | 5.79 | 8 |
| | 1020 | AP CHK SUS HYB#4 | 4.40 | 5.83 | 6.60 | 6.62 | 3.80 | 3.50 | 5.87 | 5.41 | 3.65 | 5.64 | 3.48 | 3.38 | 5.58 | 5.48 | 3.31 | 5.52 | 3.18 | 5.29 | 8 |
| | 1021 | AP CHK MOD RES RR#2 | 3.87 | 6.49 | 5.66 | 7.08 | 3.34 | 3.90 | 5.04 | 5.78 | 3.62 | 5.41 | 3.34 | 3.67 | 5.18 | 5.42 | 3.05 | 4.94 | 4.33 | 5.92 | 8 |
| | 1022 | ACAPMODRR | 2.84 | 5.31 | 5.57 | 5.98 | 2.45 | 3.19 | 4.96 | 4.89 | 2.82 | 4.92 | 2.84 | 2.68 | 4.92 | 4.68 | 2.85 | 4.91 | 2.36 | 4.21 | 8 |
| | 1023 | ACAPRESRR | 1.79 | 4.07 | 4.09 | 5.17 | 1.55 | 2.44 | 3.64 | 4.22 | 1.99 | 3.93 | 2.23 | 2.12 | 4.13 | 3.84 | 2.47 | 4.33 | 1.89 | 3.25 | 9 |
| | 1024 | AP CHK SUS HYB#3 | 4.07 | 7.15 | 6.40 | 7.77 | 3.51 | 4.29 | 5.69 | 6.35 | 3.90 | 6.02 | 3.83 | 3.69 | 5.97 | 5.91 | 3.75 | 5.93 | 3.42 | 5.79 | 8 |
| | 1025 | AP CHK SUS HYB#4 | 3.54 | 5.15 | 5.92 | 6.49 | 3.06 | 3.09 | 5.27 | 5.30 | 3.07 | 5.28 | 3.19 | 3.19 | 5.40 | 5.37 | 3.31 | 5.52 | 3.18 | 5.29 | 8 |
| | 1026 | AP CHK MOD RES RR#2 | 3.40 | 6.44 | 5.76 | 6.85 | 2.94 | 3.87 | 5.12 | 5.60 | 3.40 | 5.36 | 3.23 | 3.60 | 5.15 | 5.41 | 3.05 | 4.94 | 4.33 | 5.92 | 8 |
| | 1027 | AP CHK SUS HYB#3 | 4.91 | 8.01 | 6.14 | 8.28 | 4.24 | 4.81 | 5.46 | 6.76 | 4.53 | 6.11 | 4.14 | 3.90 | 6.02 | 5.94 | 3.75 | 5.93 | 3.42 | 5.79 | 8 |
| | 589 | Maribo MA102RR | 3.80 | 7.20 | 4.59 | 7.21 | 3.28 | 4.32 | 4.08 | 5.89 | 3.80 | 4.99 | 3.29 | 3.08 | 4.71 | 4.20 | 2.78 | 4.44 | 2.65 | 3.18 | 4 |
| | 528 | Hilleshög 4448RR(9448) | 3.79 | 5.83 | 5.27 | 5.97 | 3.27 | 3.50 | 4.69 | 4.88 | 3.39 | 4.78 | 3.34 | 3.38 | 4.74 | 4.65 | 3.30 | 4.70 | 3.45 | 4.46 | 3 |
| | | Check Mean | | | | | 3.21 | 3.18 | 5.11 | 5.08 | 3.20 | 5.09 | | | | | | | | | |
| 15 | | Trial Mean | 3.25 | 5.17 | 5.23 | 5.97 | 2.81 | 3.11 | 4.65 | 4.88 | | | | | | | | | | | |
| | | Coeff. of Var. (%) | 27.5 | 14.2 | 12.1 | 9.8 | 27.5 | 14.2 | 12.1 | 9.8 | | | | | | | | | | | |
| | | F Value | 5.8 | 15.9 | 8.1 | 18.6 | 5.8 | 15.9 | 8.1 | 18.6 | | | | | | | | | | | |
| | | Mean LSD (0.05) | 1.36 | 1.02 | 1.00 | 0.82 | 1.17 | 0.61 | 0.89 | 0.67 | | | | | | | | | | | |
| | | Mean LSD (0.01) | 1.79 | 1.34 | 1.32 | 1.07 | 1.55 | 0.80 | 1.17 | 0.87 | | | | | | | | | | | |
| | | Sig Lvl | ** | ** | ** | ** | ** | ** | ** | ** | | | | | | | | | | | |
| | | Adjustment Factor | 0.8634 | 0.6006 | 0.8897 | 0.8170 | | | | | | | | | | | | | | | |

^ Foliar Aph Rating was taken during summer to fall (1=healthy, 9+=severe damage). ^^ 2014 Root Rating was taken in early fall (1=healthy, 9+=severe damage).

++ Adjustment made to minimize fluctuation for disease levels in disease nursery based upon check varieties. Data adjusted to 2000-2002 nursery levels.

NR = some varieties had non reliable data from 2012 due to non-standard seed treatment.

Some varieties were entered as different experimental numbers in the AC and MD trials in various years.

Table 37.

2014 Cercospora Ratings for Official Trial Entries

Betaseed (Rosemount MN), BSDF (Frankenmuth MI) & NDSU (Foxhome MN)

| | | | Adjusted to 1982 Basis ++ | | | All Data Adjusted to '1982 Basis' | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chk | Code | Description | Rosemt. Avg | BSDF Avg | Foxhome Avg | 2014*** Mean | 2 Yr Mean | 3 Yr Mean | 2013 Mean | 2012 Mean | Trial Yrs $$ |
| | | | 6 Dates+ | 4 Dates+ | 7 Dates+ | | | | | | |
| | 616 | BTS 70RR99 | 3.85 | 4.61 | 4.13 | 4.20 | 4.46 | 4.42 | 4.72 | 4.33 | 5 |
| | 532 | BTS 72RR22 | 3.69 | 4.09 | 3.94 | 3.91 | 4.04 | 4.13 | 4.18 | 4.31 | 3 |
| | 555 | BTS 72RR95 | 4.43 | 4.32 | 4.26 | 4.34 | 4.35 | 4.43 | 4.37 | 4.57 | 3 |
| | 598 | BTS 7373 | 4.35 | 4.61 | 4.77 | 4.58 | 4.66 | | 4.75 | | 2 |
| | 544 | BTS 73MN | 4.07 | 4.65 | 4.39 | 4.37 | 4.50 | | 4.63 | | 2 |
| | 604 | BTS 7438 | 4.35 | 4.69 | 4.30 | 4.45 | | | | | 1 |
| | 614 | BTS 7447 | 4.46 | 4.76 | 4.52 | 4.58 | | | | | 1 |
| | 582 | BTS 7481 | 4.12 | 4.68 | 4.43 | 4.41 | | | | | 1 |
| | 527 | BTS 80RR32 | 4.38 | 4.74 | 4.96 | 4.69 | 4.75 | 4.72 | 4.81 | 4.66 | 5 |
| | 573 | BTS 80RR52 | 4.03 | 4.27 | 4.36 | 4.22 | 4.37 | 4.38 | 4.52 | 4.40 | 5 |
| | 506 | BTS 81RR17 | 3.76 | 4.05 | 4.08 | 3.96 | 4.20 | 4.26 | 4.45 | 4.36 | 4 |
| | 508 | BTS 82RR22 | 4.28 | 4.81 | 4.55 | 4.55 | 4.66 | 4.66 | 4.77 | 4.65 | 3 |
| | 517 | BTS 82RR28 | 4.57 | 4.59 | 4.71 | 4.62 | 4.57 | 4.60 | 4.52 | 4.66 | 3 |
| | 515 | BTS 82RR33 | 4.68 | 4.80 | 4.63 | 4.70 | 4.69 | 4.71 | 4.68 | 4.74 | 3 |
| | 578 | BTS 82RR80 | 4.23 | 4.71 | 4.93 | 4.62 | 4.62 | 4.67 | 4.62 | 4.77 | 3 |
| | 606 | BTS 8337 | 4.34 | 4.46 | 4.77 | 4.52 | 4.63 | | 4.75 | | 2 |
| | 549 | BTS 8354 | 4.47 | 4.61 | 4.08 | 4.39 | 4.59 | | 4.80 | | 2 |
| | 510 | BTS 8363 | 3.75 | 3.99 | 3.82 | 3.85 | 3.88 | | 3.92 | | 2 |
| | 569 | BTS 8390 | 4.23 | 4.04 | 4.58 | 4.28 | 4.36 | | 4.43 | | 2 |
| | 597 | BTS 83CN | 4.39 | 4.60 | 4.82 | 4.60 | 4.48 | | 4.36 | | 2 |
| | 613 | BTS 8402 | 4.39 | 4.66 | 4.56 | 4.54 | | | | | 1 |
| | 503 | BTS 8404 | 4.40 | 4.76 | 4.28 | 4.48 | | | | | 1 |
| | 602 | BTS 8405 | 4.11 | 4.35 | 3.95 | 4.14 | | | | | 1 |
| | 605 | BTS 8406 | 3.73 | 4.08 | 4.28 | 4.03 | | | | | 1 |
| | 584 | BTS 8408 | 5.19 | 5.02 | 4.78 | 5.00 | | | | | 1 |
| | 525 | BTS 840N | 3.73 | 4.17 | 4.09 | 3.99 | | | | | 1 |
| | 593 | BTS 89RR83 | 4.37 | 4.70 | 4.78 | 4.61 | 4.76 | 4.81 | 4.91 | 4.89 | 6 |
| | 531 | Crystal 093RR | 5.15 | 4.83 | 4.68 | 4.88 | 5.04 | 4.97 | 5.20 | 4.82 | 5 |
| | 585 | Crystal 095RR | 4.12 | 4.57 | 5.11 | 4.60 | 4.68 | 4.73 | 4.75 | 4.83 | 5 |
| | 588 | Crystal 101RR | 3.72 | 4.81 | 4.26 | 4.26 | 4.44 | 4.53 | 4.63 | 4.71 | 4 |
| | 564 | Crystal 246RR | 4.50 | 4.45 | 4.61 | 4.52 | 4.50 | 4.49 | 4.48 | 4.49 | 3 |
| | 505 | Crystal 247RR | 4.07 | 4.29 | 4.24 | 4.20 | 4.39 | 4.48 | 4.57 | 4.68 | 3 |
| | 566 | Crystal 355RR | 4.34 | 4.58 | 4.82 | 4.58 | 4.73 | | 4.89 | | 2 |
| | 550 | Crystal 359RR | 5.22 | 5.25 | 5.01 | 5.16 | 5.24 | | 5.32 | | 2 |
| | 545 | Crystal 464RR | 3.55 | 4.34 | 4.15 | 4.01 | | | | | 1 |
| | 539 | Crystal 465RR | 5.15 | 4.95 | 4.95 | 5.01 | | | | | 1 |
| | 607 | Crystal 466RR | 4.27 | 4.59 | 5.06 | 4.64 | | | | | 1 |
| | 518 | Crystal 467RR | 4.28 | 4.28 | 4.64 | 4.40 | | | | | 1 |
| | 611 | Crystal 468RR | 4.19 | 4.71 | 4.57 | 4.49 | | | | | 1 |
| | 530 | Crystal 469RR | 5.51 | 4.97 | 5.37 | 5.28 | | | | | 1 |
| | 512 | Crystal 765RR | 4.46 | 4.95 | 4.78 | 4.73 | 4.77 | 4.75 | 4.82 | 4.70 | 8 |
| | 572 | Crystal 768RR | 4.81 | 4.75 | 4.96 | 4.84 | 4.95 | 5.09 | 5.05 | 5.37 | 8 |
| | 502 | Crystal 875RR | 3.87 | 4.61 | 4.37 | 4.12 | 4.45 | 4.39 | 4.77 | 4.26 | 7 |
| | 548 | Crystal 981RR | 4.50 | 5.32 | 4.86 | 4.89 | 4.99 | 5.05 | 5.09 | 5.15 | 6 |
| | 521 | Crystal 985RR | 3.96 | 4.60 | 4.10 | 4.22 | 4.36 | 4.37 | 4.49 | 4.41 | 6 |
| | 554 | Crystal 986RR | 4.63 | 4.59 | 4.61 | 4.61 | 4.70 | 4.73 | 4.80 | 4.78 | 6 |
| | 600 | Crystal D352NT | 4.59 | 4.85 | 4.57 | 4.67 | 4.60 | | 4.53 | | 2 |
| | 516 | Crystal D425NT | 3.82 | 4.26 | 4.10 | 4.06 | | | | | 1 |
| | 560 | Crystal D488 | 5.46 | 4.73 | 4.79 | 4.99 | | | | | 1 |
| | 615 | Crystal RR012 | 4.47 | 4.72 | 4.58 | 4.59 | 4.68 | 4.63 | 4.76 | 4.54 | 5 |
| | 561 | Crystal RR228 | 3.95 | 4.58 | 4.06 | 4.19 | 4.29 | 4.30 | 4.39 | 4.33 | 3 |
| | 559 | Crystal RR260 | 4.35 | 4.40 | 4.28 | 4.34 | 4.34 | 4.42 | 4.34 | 4.58 | 3 |
| | 612 | Crystal RR299 | 4.55 | 4.33 | 4.66 | 4.51 | 4.43 | 4.45 | 4.35 | 4.48 | 3 |
| | 556 | Crystal RR830 | 4.41 | 4.81 | 4.86 | 4.69 | 4.63 | 4.62 | 4.57 | 4.60 | 7 |
| | 501 | Hilleshög 4022RR | 4.39 | 4.60 | 4.61 | 4.54 | 4.43 | 4.41 | 4.33 | 4.36 | 9 |
| | 538 | Hilleshög 4062RR | 4.63 | 4.55 | 4.56 | 4.58 | 4.56 | 4.50 | 4.54 | 4.38 | 7 |
| | 504 | Hilleshög 4094RR | 4.43 | 4.28 | 4.67 | 4.46 | 4.47 | 4.42 | 4.47 | 4.34 | 7 |
| | 543 | Hilleshög 4300RR | 4.15 | 4.15 | 4.31 | 4.20 | 4.47 | 4.59 | 4.74 | 4.82 | 4 |
| | 591 | Hilleshög 4302RR | 4.35 | 4.53 | 4.69 | 4.52 | 4.38 | 4.36 | 4.23 | 4.34 | 4 |
| | 618 | Hilleshög 4303RR | 4.62 | 5.05 | 4.79 | 4.82 | 4.83 | 4.76 | 4.85 | 4.62 | 4 |
| | 528 | Hilleshög 4448RR(9448) | 5.82 | 5.13 | 4.89 | 5.28 | 5.25 | 5.11 | 5.21 | 4.82 | 3 |
| | 537 | Hilleshög 9517RR | 3.92 | 4.94 | 4.30 | 4.39 | 4.53 | | 4.67 | | 2 |
| | 574 | Hilleshög 9528RR | 5.65 | 4.81 | 4.44 | 4.97 | 4.84 | | 4.72 | | 2 |
| | 577 | Hilleshög 9601RR | 5.01 | 4.68 | 4.61 | 4.77 | | | | | 1 |
| | 619 | Hilleshög 9602RR | 4.96 | 4.43 | 4.61 | 4.67 | | | | | 1 |
| | 568 | Hilleshög 9604RR | 5.84 | 5.10 | 5.46 | 5.47 | | | | | 1 |
| | 522 | Hilleshög 9610RR | 4.40 | 4.55 | 4.42 | 4.46 | | | | | 1 |
| | 533 | Hilleshög 9613RR | 5.34 | 4.81 | 4.74 | 4.97 | | | | | 1 |
| | 565 | Hilleshög 9615RR | 4.00 | 4.44 | 4.55 | 4.33 | | | | | 1 |
| | 547 | Hilleshög 9620RR | 5.46 | 6.14 | 5.75 | 5.79 | | | | | 1 |
| | 589 | Maribo MA102RR | 6.14 | 5.37 | 5.12 | 5.54 | 5.29 | 5.15 | 5.03 | 4.88 | 4 |
| | 603 | Maribo MA104RR | 2.98 | 3.97 | 3.78 | 3.58 | 3.72 | 3.76 | 3.87 | 3.82 | 4 |
| | 594 | Maribo 109RR | 5.16 | 4.43 | 4.44 | 4.68 | | | | | 1 |
| | 551 | Maribo 301 | 4.56 | 5.41 | 4.80 | 4.92 | | | | | 1 |
| | 608 | Maribo 305 | 5.01 | 4.80 | 4.68 | 4.83 | 4.73 | | 4.63 | | 2 |
| | 535 | Maribo 402 | 4.56 | 4.97 | 4.75 | 4.76 | | | | | 1 |
| | 534 | Maribo 403 | 5.87 | 4.92 | 4.91 | 5.23 | | | | | 1 |
| | 524 | Maribo 408 | 5.33 | 5.21 | 5.34 | 5.29 | | | | | 1 |
| | 596 | Maribo 409 | 5.70 | 4.98 | 5.16 | 5.28 | | | | | 1 |
| | 558 | Seedex SX0929RR | 5.13 | 5.06 | 4.24 | 4.81 | 4.70 | 4.47 | 4.58 | 4.02 | 3 |
| | 575 | Seedex RR0832 | 4.96 | 5.14 | 4.56 | 4.89 | 4.83 | | 4.78 | | 2 |

Table 37.

2014 Cercospora Ratings for Official Trial Entries

Betaseed (Rosemount MN), BSDF (Frankenmuth MI) & NDSU (Foxhome MN)

| | | | Adjusted to 1982 Basis ++ | | | All Data Adjusted to '1982 Basis' | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chk | Code | Description | Rosemt. Avg | BSDF Avg | Foxhome Avg | 2014*** Mean | 2 Yr Mean | 3 Yr Mean | 2013 Mean | 2012 Mean | Trial Yrs $$ |
| | | | 6 Dates+ | 4 Dates+ | 7 Dates+ | | | | | | |
| | 601 | Seedex RR0941 | 4.74 | 4.71 | 4.56 | 4.67 | | | | | 1 |
| | 507 | Seedex RR0942 | 4.50 | 4.55 | 4.77 | 4.61 | | | | | 1 |
| | 536 | Seedex RR0943TT | 5.39 | 5.27 | 5.93 | 5.53 | | | | | 1 |
| | 617 | Seedex RR0944 | 3.75 | 4.23 | 4.01 | 4.00 | | | | | 1 |
| | 580 | Seedex RR0945 | 4.04 | 4.52 | 3.94 | 4.17 | | | | | 1 |
| | 567 | Seedex RR0946 | 3.70 | 4.45 | 4.26 | 4.14 | | | | | 1 |
| | 520 | Seedex RR842 | 5.17 | 5.08 | 4.46 | 4.90 | | | | | 1 |
| | 571 | Seedex RR844TT | 5.19 | 5.58 | 5.63 | 5.46 | | | | | 1 |
| | 590 | Seedex RR846 | 4.91 | 4.69 | 4.88 | 4.83 | | | | | 1 |
| | 513 | Seedex RR848 | 4.63 | 4.65 | 4.86 | 4.71 | | | | | 1 |
| | 579 | Seedex Vapor RR(995) | 5.21 | 4.84 | 4.78 | 4.94 | 4.91 | 4.77 | 4.87 | 4.48 | 6 |
| | 526 | Seedex Victor RR | 5.15 | 5.21 | 5.07 | 5.14 | 4.82 | 4.69 | 4.51 | 4.41 | 6 |
| | 586 | Seedex Vision RR | 5.61 | 5.28 | 5.62 | 5.50 | 5.34 | 5.06 | 5.17 | 4.49 | 6 |
| | 587 | Seedex Xavier RR | 5.58 | 5.24 | 5.46 | 5.43 | 5.14 | 4.90 | 4.85 | 4.43 | 4 |
| | 541 | Seedex Yukon RR(828N) | 4.87 | 4.79 | 4.89 | 4.85 | 4.77 | 4.75 | 4.69 | 4.72 | 3 |
| | 563 | Seedex Yuma RR(924) | 5.00 | 5.24 | 5.08 | 5.11 | 4.78 | 4.77 | 4.46 | 4.74 | 3 |
| | 557 | Seedex Zenith RR(829N) | 4.83 | 4.33 | 4.43 | 4.53 | 4.65 | 4.71 | 4.76 | 4.84 | 3 |
| | 523 | SV 36175RR | 4.73 | 4.31 | 4.58 | 4.54 | 4.57 | 4.45 | 4.60 | 4.22 | 4 |
| | 583 | SV 36271RR | 4.14 | 4.29 | 4.22 | 4.21 | 4.33 | 4.44 | 4.45 | 4.65 | 3 |
| | 546 | SV 36272RR | 4.43 | 4.56 | 4.84 | 4.61 | 4.55 | 4.43 | 4.49 | 4.17 | 3 |
| | 599 | SV 36273RR | 4.95 | 5.23 | 4.97 | 5.05 | 4.86 | 4.64 | 4.68 | 4.19 | 3 |
| | 552 | SV 36918RR | 4.99 | 4.84 | 4.70 | 4.84 | 4.73 | 4.58 | 4.61 | 4.28 | 6 |
| | 595 | SV RR241 | 4.40 | 4.26 | 4.40 | 4.35 | | | | | 1 |
| | 562 | SV RR242TT | 5.92 | 5.12 | 6.02 | 5.69 | | | | | 1 |
| | 514 | SV RR243 | 4.88 | 4.79 | 4.71 | 4.79 | | | | | 1 |
| | 553 | SV RR244TT | 5.86 | 5.18 | 5.49 | 5.51 | | | | | 1 |
| | 511 | SV RR245N | 4.75 | 4.75 | 4.28 | 4.59 | | | | | 1 |
| | 542 | SV RR246 | 4.76 | 4.47 | 4.40 | 4.54 | | | | | 1 |
| | 576 | SV RR247 | 3.99 | 4.39 | 4.04 | 4.14 | | | | | 1 |
| | 509 | SV RR248 | 4.34 | 4.47 | 4.43 | 4.41 | | | | | 1 |
| | 609 | SV RR333 | 4.75 | 4.92 | 4.75 | 4.81 | 4.83 | | 4.86 | | 2 |
| | 529 | SV RR336 | 4.38 | 4.70 | 4.52 | 4.53 | 4.64 | | 4.75 | | 2 |
| | 620 | SV RR631 | 4.76 | 4.74 | 5.14 | 4.88 | 4.83 | | 4.78 | | 2 |
| | 540 | SV RR632N | 4.59 | 4.74 | 4.36 | 4.56 | 4.68 | | 4.79 | | 2 |
| | 519 | SV RR633 | 5.52 | 5.07 | 5.59 | 5.39 | 5.11 | | 4.83 | | 2 |
| | 592 | SV RR744 | 4.20 | 4.47 | 4.08 | 4.25 | | | | | 1 |
| | 610 | SV RR745 | 5.16 | 4.99 | 5.15 | 5.10 | | | | | 1 |
| | 581 | SV RR746 | 4.75 | 4.91 | 4.97 | 4.87 | | | | | 1 |
| | 570 | SV RR747 | 5.20 | 4.08 | 4.91 | 4.73 | | | | | 1 |
| 1 | 1101 | CR Chk-19 CRYS539RR | 5.07 | 5.21 | 5.22 | 5.17 | 5.10 | 5.16 | 5.03 | 5.27 | 10 |
| 1 | 1102 | CR Chk-31 BETA86RR88 | 4.57 | 4.76 | 4.47 | 4.60 | 4.57 | 4.66 | 4.55 | 4.82 | 9 |
| 1 | 1103 | CR CHK-37 SES36711RR | 5.49 | 5.36 | 5.13 | 5.33 | 5.20 | 5.07 | 5.06 | 4.82 | 8 |
| 1 | 1104 | CR Chk-30 BETA86RR66 | 5.32 | 5.05 | 5.22 | 5.20 | 5.15 | 5.09 | 5.10 | 4.98 | 9 |
| 1 | 1105 | CR Chk-34 HILL4000RR | 4.78 | 5.28 | 4.45 | 4.84 | 4.83 | 4.79 | 4.82 | 4.71 | 8 |
| 1 | 1106 | CR CHK-36 BETA87RR68 | 4.74 | 5.06 | 5.01 | 4.94 | 4.80 | 4.74 | 4.67 | 4.61 | 8 |
| 1 | 1107 | CR Chk-24 HILL4012RR | 5.16 | 5.17 | 5.48 | 5.27 | 5.34 | 5.34 | 5.42 | 5.33 | 9 |
| 1 | 1108 | CR Chk-35 BETA87RR58 | 4.91 | 4.86 | 5.03 | 4.94 | 5.11 | 5.18 | 5.28 | 5.32 | 8 |
| 1 | 1109 | CR Chk-33 HILL4043RR | 5.38 | 4.44 | 4.65 | 4.82 | 4.76 | 4.72 | 4.70 | 4.64 | 8 |
| 1 | 1110 | CR Chk-17 BETA85RR02 | 4.16 | 4.20 | 4.65 | 4.34 | 4.49 | 4.69 | 4.65 | 5.07 | 10 |
| 1 | 1111 | CR Chk-28 HILL4010RR | 5.22 | 5.06 | 5.28 | 5.19 | 5.31 | 5.29 | 5.43 | 5.24 | 9 |
| 1 | 1112 | CR Chk-29 BETA86RR44 | 4.96 | 5.30 | 5.15 | 5.13 | 5.08 | 5.03 | 5.03 | 4.93 | 9 |
| | 1113 | CR CHK MOD SUS HYB#3 | 5.32 | 5.26 | 5.46 | 5.35 | 5.16 | 5.09 | 4.96 | 4.96 | 10 |
| | 1114 | CR CHK MOD RES HYB#4 | 4.11 | 4.63 | 4.28 | 4.34 | 4.47 | 4.40 | 4.59 | 4.28 | 7 |
| | 1115 | CR CHK MOD SUS HYB#3 | 5.11 | 5.07 | 5.30 | 5.16 | 5.06 | 5.03 | 4.96 | 4.96 | 10 |
| | 1116 | CR CHK MOD RES HYB#4 | 3.94 | 4.65 | 3.96 | 4.18 | 4.39 | 4.35 | 4.59 | 4.28 | 7 |
| | 1117 | CR CHK MOD SUS HYB#3 | 5.12 | 5.24 | 5.18 | 5.18 | 5.07 | 5.03 | 4.96 | 4.96 | 10 |
| | 1118 | CR CHK MOD RES HYB#4 | 4.02 | 4.43 | 4.45 | 4.30 | 4.45 | 4.39 | 4.59 | 4.28 | 7 |
| +++ | 589 | Maribo MA102RR(108 MD) | 6.14 | 5.37 | 5.12 | 5.54 | 5.51 | 5.38 | 5.48 | 5.12 | 4 |
| +++ | 528 | Hilleshög 4448RR(9449 MD) | 5.82 | 5.13 | 4.89 | 5.28 | 5.17 | 5.00 | 5.05 | 4.66 | 3 |
| 12 | | Check Mean | 4.98 | 4.98 | 4.98 | 4.98 | | | | | |
| | | Trial Mean | 4.65 | 4.73 | 4.69 | | | | | | |
| | | Coeff. of Var. (%) | 6.41 | 6.41 | 8.19 | | | | | | |
| | | F Value | 18.18 | 4.87 | 6.39 | | | | | | |
| | | Mean LSD (0.05) | 0.39 | 0.48 | 0.49 | | | | | | |
| | | Mean LSD (0.01) | 0.51 | 0.62 | 0.66 | | | | | | |
| | | Sig Lvl | ** | ** | ** | | | | | | |
| | | Adj Factor | 1.0500 | 1.0829 | 1.0757 | | | | | | |

* Lower numbers indicate better Cercospora resistance (1-Ex,9=Poor).

++ Ratings adjusted to 1982 basis (5.5 equivalent in 1978-81 CR nurseries). Ratings adjusted on the basis of checks.

Chk = varieties used to adjust CR readings to 1982 basis. Ratings * (factor) = Adj Rating.

$$ Trial years indicates how many years the entry has been in the official trials.

+++ Some varieties are listed twice due to name changes between ACSC & MDFC markets. Created 10-21-2014.

Table 38.
2014 Rhizoctonia Ratings for OVT Entries
Rhizoctonia Nursery - BSDF & ACSC West Site

| Sus Chk | Chk @ | Code | Description | Unadjusted BSDF 9/10 | Unadjusted TSC-W 9/18 | Adjusted BSDF 9/10 | Adjusted TSC-W 9/18 | Adj 2014 Mean | 2 Yr Mean | 3 Yr Mean | Adj 2013 Mean | Adj 2012 Mean | Years |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 616 | BTS 70RR99 | 3.56 | 3.92 | 3.21 | 4.59 | 3.90 | 4.14 | 4.04 | 4.38 | 3.85 | 5 |
| | | 532 | BTS 72RR22 | 5.75 | 4.43 | 5.18 | 5.19 | 5.18 | 4.95 | 4.80 | 4.72 | 4.50 | 3 |
| | | 555 | BTS 72RR95 | 5.41 | 3.63 | 4.87 | 4.25 | 4.56 | 4.17 | 3.78 | 3.77 | 3.02 | 3 |
| | | 598 | BTS 7373 | 5.37 | 3.56 | 4.84 | 4.17 | 4.50 | 4.19 | -- | 3.88 | -- | 2 |
| | | 544 | BTS 73MN | 4.78 | 3.25 | 4.31 | 3.81 | 4.06 | 3.79 | -- | 3.53 | -- | 2 |
| | | 604 | BTS 7438 | 4.45 | 3.51 | 4.01 | 4.11 | 4.06 | -- | -- | -- | -- | 1 |
| | | 614 | BTS 7447 | 5.41 | 4.43 | 4.87 | 5.19 | 5.03 | -- | -- | -- | -- | 1 |
| | | 582 | BTS 7481 | 4.56 | 3.49 | 4.11 | 4.09 | 4.10 | -- | -- | -- | -- | 1 |
| | | 527 | BTS 80RR32 | 3.70 | 3.23 | 3.33 | 3.78 | 3.56 | 3.92 | 3.91 | 4.28 | 3.88 | 5 |
| | | 573 | BTS 80RR52 | 5.12 | 3.51 | 4.61 | 4.11 | 4.36 | 4.07 | 3.96 | 3.77 | 3.73 | 5 |
| | | 506 | BTS 81RR17 | 4.79 | 3.25 | 4.32 | 3.81 | 4.06 | 4.08 | 4.06 | 4.10 | 4.00 | 4 |
| | | 508 | BTS 82RR22 | 5.43 | 4.11 | 4.89 | 4.81 | 4.85 | 5.02 | 4.89 | 5.19 | 4.61 | 3 |
| | | 517 | BTS 82RR28 | 4.62 | 3.47 | 4.16 | 4.06 | 4.11 | 4.14 | 4.08 | 4.17 | 3.94 | 3 |
| | | 515 | BTS 82RR33 | 4.40 | 3.79 | 3.96 | 4.44 | 4.20 | 4.28 | 4.22 | 4.36 | 4.09 | 3 |
| | | 578 | BTS 82RR80 | 5.59 | 4.15 | 5.04 | 4.86 | 4.95 | 4.75 | 4.71 | 4.54 | 4.63 | 3 |
| | | 606 | BTS 8337 | 4.52 | 3.45 | 4.07 | 4.04 | 4.06 | 4.30 | -- | 4.55 | -- | 2 |
| | | 549 | BTS 8354 | 4.65 | 3.33 | 4.19 | 3.90 | 4.04 | 3.77 | -- | 3.49 | -- | 2 |
| | | 510 | BTS 8363 | 5.04 | 3.37 | 4.54 | 3.95 | 4.24 | 4.06 | -- | 3.88 | -- | 2 |
| | | 569 | BTS 8390 | 4.89 | 3.58 | 4.41 | 4.19 | 4.30 | 4.34 | -- | 4.38 | -- | 2 |
| | | 597 | BTS 83CN | 4.27 | 3.56 | 3.85 | 4.17 | 4.01 | 3.65 | -- | 3.29 | -- | 2 |
| | | 613 | BTS 8402 | 5.71 | 4.11 | 5.14 | 4.81 | 4.98 | -- | -- | -- | -- | 1 |
| | | 503 | BTS 8404 | 5.16 | 3.85 | 4.65 | 4.51 | 4.58 | -- | -- | -- | -- | 1 |
| | | 602 | BTS 8405 | 5.29 | 4.05 | 4.77 | 4.74 | 4.75 | -- | -- | -- | -- | 1 |
| | | 605 | BTS 8406 | 5.04 | 3.69 | 4.54 | 4.32 | 4.43 | -- | -- | -- | -- | 1 |
| | | 584 | BTS 8408 | 4.77 | 3.59 | 4.30 | 4.20 | 4.25 | -- | -- | -- | -- | 1 |
| | | 525 | BTS 840N | 5.13 | 3.42 | 4.62 | 4.01 | 4.31 | -- | -- | -- | -- | 1 |
| | | 593 | BTS 89RR83 | 4.83 | 3.17 | 4.35 | 3.71 | 4.03 | 3.74 | 3.69 | 3.45 | 3.58 | 6 |
| | | 531 | Crystal 093RR | 5.16 | 3.65 | 4.65 | 4.27 | 4.46 | 4.42 | 4.43 | 4.39 | 4.43 | 5 |
| | | 585 | Crystal 095RR | 5.09 | 3.75 | 4.59 | 4.39 | 4.49 | 4.54 | 4.55 | 4.59 | 4.57 | 5 |
| | | 588 | Crystal 101RR | 5.50 | 4.03 | 4.95 | 4.72 | 4.84 | 4.79 | 4.78 | 4.74 | 4.75 | 4 |
| | | 564 | Crystal 246RR | 4.55 | 3.35 | 4.10 | 3.92 | 4.01 | 4.32 | 4.31 | 4.62 | 4.31 | 3 |
| | | 505 | Crystal 247RR | 5.21 | 3.53 | 4.69 | 4.13 | 4.41 | 4.50 | 4.49 | 4.58 | 4.48 | 3 |
| | | 566 | Crystal 355RR | 4.54 | 3.46 | 4.09 | 4.05 | 4.07 | 3.81 | -- | 3.55 | -- | 2 |
| | | 550 | Crystal 359RR | 4.62 | 3.58 | 4.16 | 4.19 | 4.18 | 4.11 | -- | 4.04 | -- | 2 |
| | | 545 | Crystal 464RR | 5.36 | 3.85 | 4.83 | 4.51 | 4.67 | -- | -- | -- | -- | 1 |
| | | 539 | Crystal 465RR | 5.37 | 4.09 | 4.84 | 4.79 | 4.81 | -- | -- | -- | -- | 1 |
| | | 607 | Crystal 466RR | 4.93 | 3.66 | 4.44 | 4.29 | 4.36 | -- | -- | -- | -- | 1 |
| | | 518 | Crystal 467RR | 4.75 | 3.22 | 4.28 | 3.77 | 4.03 | -- | -- | -- | -- | 1 |
| | | 611 | Crystal 468RR | 4.58 | 3.39 | 4.13 | 3.97 | 4.05 | -- | -- | -- | -- | 1 |
| | | 530 | Crystal 469RR | 4.59 | 3.84 | 4.14 | 4.50 | 4.32 | -- | -- | -- | -- | 1 |
| | | 512 | Crystal 765RR | 4.97 | 3.86 | 4.48 | 4.52 | 4.50 | 4.69 | 4.42 | 4.88 | 3.87 | 8 |
| | | 572 | Crystal 768RR | 5.29 | 3.63 | 4.77 | 4.25 | 4.51 | 4.31 | 4.33 | 4.10 | 4.39 | 8 |
| | | 502 | Crystal 875RR | 4.10 | 3.75 | 3.69 | 4.39 | 4.04 | 4.29 | 4.19 | 4.53 | 4.00 | 7 |
| | | 548 | Crystal 981RR | 5.54 | 4.02 | 4.99 | 4.71 | 4.85 | 4.30 | 4.35 | 3.75 | 4.45 | 6 |
| | | 521 | Crystal 985RR | 4.91 | 3.90 | 4.42 | 4.57 | 4.50 | 4.55 | 4.50 | 4.61 | 4.40 | 6 |
| | | 554 | Crystal 986RR | 4.02 | 3.94 | 3.62 | 4.61 | 4.12 | 4.33 | 4.32 | 4.54 | 4.31 | 6 |
| | | 600 | Crystal D352NT | 4.41 | 3.28 | 3.97 | 3.84 | 3.91 | 3.54 | -- | 3.17 | -- | 2 |
| | | 516 | Crystal D425NT | 4.31 | 3.45 | 3.88 | 4.04 | 3.96 | -- | -- | -- | -- | 1 |
| | | 560 | Crystal D488 | 5.01 | 3.72 | 4.51 | 4.36 | 4.44 | -- | -- | -- | -- | 1 |
| | | 615 | Crystal RR012 | 4.70 | 3.37 | 4.23 | 3.95 | 4.09 | 3.89 | 3.68 | 3.69 | 3.27 | 5 |
| | | 561 | Crystal RR228 | 4.67 | 4.06 | 4.21 | 4.75 | 4.48 | 4.44 | 4.43 | 4.40 | 4.41 | 3 |
| | | 559 | Crystal RR260 | 4.94 | 3.90 | 4.45 | 4.57 | 4.51 | 4.11 | 4.27 | 3.71 | 4.60 | 3 |
| | | 612 | Crystal RR299 | 4.44 | 3.47 | 4.00 | 4.06 | 4.03 | 3.94 | 4.04 | 3.85 | 4.22 | 3 |
| | | 556 | Crystal RR830 | 3.90 | 3.35 | 3.51 | 3.92 | 3.72 | 3.69 | 3.76 | 3.66 | 3.91 | 7 |
| | | 501 | Hilleshög 4022RR | 3.69 | 3.68 | 3.32 | 4.31 | 3.82 | 3.60 | 3.50 | 3.39 | 3.29 | 9 |
| | | 538 | Hilleshög 4062RR | 3.53 | 3.09 | 3.18 | 3.62 | 3.40 | 3.52 | 3.52 | 3.63 | 3.54 | 7 |
| | | 504 | Hilleshög 4094RR | 3.80 | 3.09 | 3.42 | 3.62 | 3.52 | 3.47 | 3.41 | 3.42 | 3.28 | 7 |
| | | 543 | Hilleshög 4300RR | 4.14 | 3.29 | 3.73 | 3.85 | 3.79 | 3.95 | 4.16 | 4.12 | 4.56 | 4 |
| | | 591 | Hilleshög 4302RR | 3.77 | 3.21 | 3.40 | 3.76 | 3.58 | 3.45 | 3.51 | 3.32 | 3.63 | 4 |
| | | 618 | Hilleshög 4303RR | 5.89 | 4.66 | 5.31 | 5.46 | 5.38 | 5.31 | 5.27 | 5.24 | 5.20 | 4 |
| | | 528 | Hilleshög 4448RR(9448) | 5.29 | 4.00 | 4.77 | 4.68 | 4.73 | 5.07 | -- | 5.42 | -- | 3 |
| | | 537 | Hilleshög 9517RR | 4.55 | 3.40 | 4.10 | 3.98 | 4.04 | 3.83 | -- | 3.62 | -- | 2 |
| | | 574 | Hilleshög 9528RR | 4.06 | 3.41 | 3.66 | 3.99 | 3.83 | 4.00 | -- | 4.17 | -- | 2 |
| | | 577 | Hilleshög 9601RR | 3.93 | 3.24 | 3.54 | 3.79 | 3.67 | -- | -- | -- | -- | 1 |
| | | 619 | Hilleshög 9602RR | 4.24 | 3.78 | 3.82 | 4.43 | 4.12 | -- | -- | -- | -- | 1 |
| | | 522 | Hilleshög 9610RR | 3.81 | 2.89 | 3.43 | 3.38 | 3.41 | -- | -- | -- | -- | 1 |
| | | 533 | Hilleshög 9613RR | 4.26 | 3.46 | 3.84 | 4.05 | 3.95 | -- | -- | -- | -- | 1 |
| | | 594 | Maribo 109RR | 3.46 | 3.03 | 3.12 | 3.55 | 3.33 | -- | -- | -- | -- | 1 |
| | | 551 | Maribo 301 | 5.48 | 3.74 | 4.94 | 4.38 | 4.66 | -- | -- | -- | -- | 1 |
| | | 608 | Maribo 305 | 5.68 | 3.52 | 5.12 | 4.12 | 4.62 | -- | -- | -- | -- | 2 |
| | | 535 | Maribo 402 | 3.96 | 3.55 | 3.57 | 4.16 | 3.86 | -- | -- | -- | -- | 1 |
| | | 589 | Maribo MA102RR | 4.72 | 3.72 | 4.25 | 4.36 | 4.30 | 4.91 | 4.84 | 5.53 | 4.70 | 4 |
| | | 603 | Maribo MA104RR | 3.73 | 3.21 | 3.36 | 3.76 | 3.56 | 3.77 | 3.84 | 3.99 | 3.98 | 4 |
| | | 575 | Seedex RR0832 | 4.95 | 3.62 | 4.46 | 4.24 | 4.35 | 4.39 | -- | 4.43 | -- | 2 |
| | | 601 | Seedex RR0941 | 4.82 | 3.45 | 4.34 | 4.04 | 4.19 | -- | -- | -- | -- | 1 |
| | | 507 | Seedex RR0942 | 4.60 | 3.43 | 4.14 | 4.02 | 4.08 | -- | -- | -- | -- | 1 |
| | | 536 | Seedex RR0943TT | 4.47 | 2.83 | 4.03 | 3.31 | 3.67 | -- | -- | -- | -- | 1 |
| | | 617 | Seedex RR0944 | 4.90 | 3.71 | 4.41 | 4.35 | 4.38 | -- | -- | -- | -- | 1 |
| | | 580 | Seedex RR0945 | 5.08 | 3.99 | 4.58 | 4.67 | 4.62 | -- | -- | -- | -- | 1 |
| | | 567 | Seedex RR0946 | 4.94 | 3.48 | 4.45 | 4.08 | 4.26 | -- | -- | -- | -- | 1 |
| | | 520 | Seedex RR842 | 4.76 | 3.56 | 4.29 | 4.17 | 4.23 | -- | -- | -- | -- | 1 |

Table 38.
2014 Rhizoctonia Ratings for OVT Entries
Rhizoctonia Nursery - BSDF & ACSC West Site

| Sus Chk | Chk @ | Code | Description | Unadjusted BSDF 9/10 | Unadjusted TSC-W 9/18 | Adjusted BSDF 9/10 | Adjusted TSC-W 9/18 | Adj 2014 Mean | 2 Yr Mean | 3 Yr Mean | Adj 2013 Mean | Adj 2012 Mean | Years |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 571 | Seedex RR844TT | 4.74 | 3.44 | 4.27 | 4.03 | 4.15 | -- | -- | -- | -- | 1 |
| | | 590 | Seedex RR846 | 5.45 | 3.79 | 4.91 | 4.44 | 4.67 | -- | -- | -- | -- | 1 |
| | | 513 | Seedex RR848 | 4.84 | 3.85 | 4.36 | 4.51 | 4.43 | -- | -- | -- | -- | 1 |
| | | 558 | Seedex SX0929RR | 4.86 | 3.80 | 4.38 | 4.45 | 4.41 | 4.53 | 4.29 | 4.65 | 3.82 | 3 |
| | | 579 | Seedex Vapor RR(995) | 5.13 | 3.71 | 4.62 | 4.35 | 4.48 | 4.57 | 4.46 | 4.65 | 4.25 | 6 |
| | | 526 | Seedex Victor RR | 4.48 | 3.28 | 4.04 | 3.84 | 3.94 | 4.22 | 4.34 | 4.51 | 4.57 | 6 |
| | | 586 | Seedex Vision RR | 5.52 | 3.33 | 4.97 | 3.90 | 4.44 | 4.57 | 4.59 | 4.71 | 4.61 | 6 |
| | | 587 | Seedex Xavier RR | 4.91 | 3.64 | 4.42 | 4.26 | 4.34 | 4.47 | 4.55 | 4.60 | 4.71 | 4 |
| | | 541 | Seedex Yukon RR(828N) | 4.78 | 3.72 | 4.31 | 4.36 | 4.33 | 4.59 | 4.48 | 4.84 | 4.25 | 3 |
| | | 563 | Seedex Yuma RR(924) | 4.67 | 3.57 | 4.21 | 4.18 | 4.19 | 4.41 | 4.33 | 4.63 | 4.16 | 3 |
| | | 557 | Seedex Zenith RR(829N) | 5.63 | 3.48 | 5.07 | 4.08 | 4.57 | -- | -- | NE | -- | 3 |
| | | 523 | SV 36175RR | 4.27 | 3.88 | 3.85 | 4.54 | 4.20 | 4.35 | 4.34 | 4.50 | 4.32 | 4 |
| | | 583 | SV 36271RR | 5.37 | 3.25 | 4.84 | 3.81 | 4.32 | 4.14 | 4.23 | 3.95 | 4.40 | 3 |
| | | 546 | SV 36272RR | 4.83 | 3.64 | 4.35 | 4.26 | 4.31 | 4.46 | -- | 4.61 | -- | 3 |
| | | 599 | SV 36273RR | 4.39 | 3.35 | 3.95 | 3.92 | 3.94 | 4.32 | 4.37 | 4.70 | 4.47 | 3 |
| | | 552 | SV 36918RR | 5.67 | 3.79 | 5.11 | 4.44 | 4.77 | 4.80 | 4.75 | 4.82 | 4.66 | 6 |
| | | 595 | SV RR241 | 5.34 | 3.46 | 4.81 | 4.05 | 4.43 | -- | -- | -- | -- | 1 |
| | | 562 | SV RR242TT | 4.26 | 3.44 | 3.84 | 4.03 | 3.93 | -- | -- | -- | -- | 1 |
| | | 514 | SV RR243 | 5.31 | 4.09 | 4.78 | 4.79 | 4.79 | -- | -- | -- | -- | 1 |
| | | 553 | SV RR244TT | 4.38 | 3.19 | 3.95 | 3.74 | 3.84 | -- | -- | -- | -- | 1 |
| | | 511 | SV RR245N | 4.70 | 3.57 | 4.23 | 4.18 | 4.21 | -- | -- | -- | -- | 1 |
| | | 542 | SV RR246 | 3.94 | 3.17 | 3.55 | 3.71 | 3.63 | -- | -- | -- | -- | 1 |
| | | 576 | SV RR247 | 4.51 | 3.08 | 4.06 | 3.61 | 3.84 | -- | -- | -- | -- | 1 |
| | | 509 | SV RR248 | 5.07 | 3.58 | 4.57 | 4.19 | 4.38 | -- | -- | -- | -- | 1 |
| | | 609 | SV RR333 | 4.79 | 3.82 | 4.32 | 4.47 | 4.39 | 4.36 | -- | 4.32 | -- | 2 |
| | | 529 | SV RR336 | 5.19 | 3.34 | 4.68 | 3.91 | 4.29 | 4.11 | -- | 3.93 | -- | 2 |
| | | 620 | SV RR631 | 5.17 | 3.47 | 4.66 | 4.06 | 4.36 | 4.37 | -- | 4.37 | -- | 2 |
| | | 540 | SV RR632N | 4.89 | 3.60 | 4.41 | 4.22 | 4.31 | 4.46 | -- | 4.60 | -- | 2 |
| | | 519 | SV RR633 | 4.58 | 3.57 | 4.13 | 4.18 | 4.15 | 3.80 | -- | 3.44 | -- | 2 |
| | | 592 | SV RR744 | 4.52 | 3.09 | 4.07 | 3.62 | 3.85 | -- | -- | -- | -- | 1 |
| | | 610 | SV RR745 | 5.00 | 3.57 | 4.50 | 4.18 | 4.34 | -- | -- | -- | -- | 1 |
| | | 581 | SV RR746 | 4.80 | 3.48 | 4.32 | 4.08 | 4.20 | -- | -- | -- | -- | 1 |
| | | 570 | SV RR747 | 4.77 | 3.34 | 4.30 | 3.91 | 4.10 | -- | -- | -- | -- | 1 |
| 1 | 1 | 1301 | Rhiz Chk#08 CRYS539RR | 5.45 | 3.88 | 4.91 | 4.54 | 4.73 | 4.91 | 4.96 | 5.09 | 5.06 | 6 |
| | 1 | 1302 | Rhiz Chk#17 HILL4022RR | 4.09 | 2.98 | 3.68 | 3.49 | 3.59 | 3.22 | 3.24 | 2.85 | 3.27 | 6 |
| | | 1303 | Rhiz Chk#20 CRYS765RR | 5.20 | 3.65 | 4.68 | 4.27 | 4.48 | 4.41 | 4.23 | 4.35 | 3.87 | 6 |
| | 1 | 1304 | Rhiz Chk#21 CRYS768RR | 5.17 | 3.93 | 4.66 | 4.60 | 4.63 | 4.56 | 4.47 | 4.50 | 4.28 | 6 |
| 1 | 1 | 1305 | Rhiz Chk#24 BETA86RR88 | 5.32 | 4.30 | 4.79 | 5.04 | 4.91 | 4.87 | 4.83 | 4.82 | 4.75 | 6 |
| 1 | 1 | 1306 | Rhiz Chk#25 HILL4043RR | 5.14 | 4.00 | 4.63 | 4.68 | 4.66 | 4.71 | 4.79 | 4.77 | 4.95 | 6 |
| | 1 | 1307 | Rhiz Chk#26 BETA86RR44 | 4.67 | 4.05 | 4.21 | 4.74 | 4.48 | 4.38 | 4.52 | 4.29 | 4.78 | 6 |
| 1 | 1 | 1308 | Rhiz Chk#27 HILL4012RR | 5.78 | 3.28 | 5.21 | 3.84 | 4.52 | 4.82 | 4.78 | 5.12 | 4.69 | 6 |
| | 1 | 1309 | Rhiz Chk#28 CRYS658RR | 4.57 | 3.41 | 4.12 | 3.99 | 4.06 | 4.13 | 4.13 | 4.21 | 4.12 | 9 |
| 1 | 1 | 1310 | Rhiz Chk#29 BETA87RR58 | 4.94 | 3.94 | 4.45 | 4.61 | 4.53 | 4.67 | 4.70 | 4.81 | 4.76 | 8 |
| 1 | 1 | 1311 | Rhiz Chk#30 SES36711RR | 4.65 | 3.61 | 4.19 | 4.23 | 4.21 | 4.48 | 4.47 | 4.75 | 4.46 | 8 |
| 1 | 1 | 1312 | Rhiz Chk#31 HILL4000RR | 5.58 | 3.83 | 5.03 | 4.49 | 4.76 | 4.99 | 5.00 | 5.22 | 5.04 | 8 |
| 1 | 1 | 1313 | Rhiz Chk#32 HILL4010RR | 5.57 | 4.24 | 5.02 | 4.97 | 4.99 | 4.71 | 4.81 | 4.44 | 4.99 | 9 |
| | 1 | 1314 | Rhiz Chk#33 BETA77RR74 | 4.03 | 3.20 | 3.63 | 3.75 | 3.69 | 3.67 | 3.61 | 3.66 | 3.50 | 8 |
| 1 | 1 | 1315 | Rhiz Chk#34 BETA86RR66 | 4.47 | 4.22 | 4.03 | 4.94 | 4.48 | 4.40 | 4.43 | 4.31 | 4.51 | 9 |
| 1 | 1 | 1316 | Rhiz Chk#35 SES36812RR | 5.46 | 3.71 | 4.92 | 4.35 | 4.63 | 4.38 | 4.43 | 4.13 | 4.53 | 7 |
| 1 | 1 | 1317 | Rhiz Chk#36 BETA85RR02 | 4.73 | 4.04 | 4.26 | 4.73 | 4.50 | 4.39 | 4.51 | 4.27 | 4.76 | 10 |
| 1 | 1 | 1318 | Rhiz Chk#37 SES36918RR | 4.71 | 4.25 | 4.24 | 4.98 | 4.61 | 4.68 | 4.68 | 4.75 | 4.66 | 6 |
| | | 1319 | Rhiz Chk#39 HILL4300RR | 4.57 | 3.39 | 4.12 | 3.97 | 4.04 | 4.08 | 4.24 | 4.12 | 4.56 | 5 |
| | | 1320 | RES RHC #1 | 3.71 | 3.00 | 3.34 | 3.51 | 3.43 | 3.17 | 3.24 | 2.91 | 3.38 | 9 |
| | | 1321 | MOD RHC #6 | 4.65 | 3.76 | 4.19 | 4.40 | 4.30 | 4.23 | 4.14 | 4.17 | 3.97 | 9 |
| | | 1322 | SUS RHC #3 | 5.20 | 4.04 | 4.68 | 4.73 | 4.71 | 5.25 | 5.12 | 5.80 | 4.86 | 10 |
| | | 1323 | SUS RHC #9 | 5.38 | 4.29 | 4.85 | 5.02 | 4.94 | 5.02 | 4.90 | 5.11 | 4.66 | 6 |
| | | 1324 | MOD RHC #5 | 4.65 | 3.92 | 4.19 | 4.59 | 4.39 | 4.47 | 4.52 | 4.55 | 4.63 | 9 |
| | | 1325 | RES RHC #2 | 4.00 | 3.14 | 3.60 | 3.68 | 3.64 | 3.39 | 3.45 | 3.15 | 3.56 | 7 |
| | | 1326 | SUS RHC #3 | 5.10 | 4.26 | 4.59 | 4.99 | 4.79 | 5.30 | 5.15 | 5.80 | 4.86 | 10 |
| | | 1327 | SUS RHC #9 | 6.09 | 4.42 | 5.49 | 5.18 | 5.33 | 5.22 | 5.03 | 5.11 | 4.66 | 6 |
| | | 1328 | MOD RHC #6 | 4.76 | 3.59 | 4.29 | 4.20 | 4.25 | 4.21 | 4.13 | 4.17 | 3.97 | 9 |
| | | 1329 | SUS RHC #10 | 6.27 | 4.25 | 5.65 | 4.98 | 5.31 | -- | -- | -- | -- | 1 |
| | | 1330 | SUS RHC #9 | 4.71 | 3.68 | 4.24 | 4.31 | 4.28 | 4.69 | 4.68 | 5.11 | 4.66 | 6 |
| | | 528 | Hilleshög 4448RR(9449 MD) | 5.29 | 4.00 | 4.77 | 4.68 | 4.73 | 4.77 | -- | 4.81 | -- | 3 |
| | | 589 | Maribo MA102RR(108 MD) | 4.72 | 3.72 | 4.25 | 4.36 | 4.30 | 4.91 | 4.60 | 5.53 | 3.98 | 4 |
| 12 | 17 | | Mean of Check Varieties | 4.986 | 3.867 | 4.492 | 4.529 | 4.511 | 4.523 | 4.544 | 4.535 | 4.585 | |
| | | | Mean of Susc Checks | 5.123 | 3.947 | 4.615 | 4.623 | 4.619 | 4.645 | 4.676 | 4.671 | 4.736 | |
| | | | Trial Mean | 4.80 | 3.63 | 4.32 | 4.25 | | | | | | |
| | | | Coeff. of Var. (%) | 14.01 | 11.10 | 14.01 | 11.10 | | | | | | |
| | | | F Value | 2.61 | 3.48 | 2.61 | 3.48 | | | | | | |
| | | | Mean LSD (0.05) | 0.98 | 0.53 | 0.88 | 0.62 | | | | | | |
| | | | Mean LSD (0.01) | 1.29 | 0.69 | 1.16 | 0.81 | | | | | | |
| | | | Sig Lvl | ** | ** | ** | ** | | | | | | |
| | | | Adjustment Factor | 0.9009 | 1.1712 | | | | | | | | |

++ Adjustment is based upon check varieties.
NE indicates variety was not entered into nursery.

Table 39.
2014 Fusarium Readings for Official Trial Entries
ACSC Nurseries - (Two Moorhead, MN Sites)

| Chk @ | Code | Description | Unadjusted N Mhd 3 Dates+ | Unadjusted S Mhd 3 Dates+ | Adjusted N Mhd 3 Dates+ | Adjusted S Mhd 3 Dates+ | Adj 2014 Mean | 2 Yr Mean | 3 Yr Mean | Adj 2013 Mean | Adj 2012 Mean | Years |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 616 | BTS 71RR22 | 4.62 | 3.35 | 3.54 | 3.38 | 3.46 | 3.52 | 3.27 | 3.58 | 2.78 | 5 |
| | 532 | BTS 72RR50 | 5.54 | 3.94 | 4.24 | 3.97 | 4.10 | 4.18 | -- | 4.26 | -- | 3 |
| | 555 | BTS 7315 | 4.37 | 2.68 | 3.34 | 2.70 | 3.02 | 2.85 | -- | 2.67 | -- | 3 |
| | 598 | BTS 73MN | 5.38 | 3.60 | 4.12 | 3.63 | 3.87 | -- | -- | -- | -- | 2 |
| | 544 | BTS 7438 | 4.45 | 2.89 | 3.41 | 2.91 | 3.16 | -- | -- | -- | -- | 2 |
| | 527 | BTS 80RR35 | 3.52 | 2.70 | 2.69 | 2.72 | 2.71 | 3.29 | 3.01 | 3.87 | 2.46 | 5 |
| | 573 | BTS 80RR57 | 3.72 | 2.81 | 2.85 | 2.83 | 2.84 | 3.24 | 3.08 | 3.64 | 2.77 | 5 |
| | 506 | BTS 81RR17 | 4.32 | 2.70 | 3.31 | 2.72 | 3.01 | 3.12 | 2.91 | 3.23 | 2.50 | 4 |
| | 508 | BTS 82RR22 | 6.47 | 4.54 | 4.95 | 4.57 | 4.76 | 5.14 | 5.02 | 5.52 | 4.79 | 3 |
| | 517 | BTS 82RR28 | 3.10 | 2.49 | 2.37 | 2.51 | 2.44 | 2.64 | 2.43 | 2.85 | 2.00 | 3 |
| | 515 | BTS 82RR33 | 3.79 | 2.80 | 2.90 | 2.82 | 2.86 | 2.95 | 2.73 | 3.05 | 2.27 | 3 |
| | 578 | BTS 82RR80 | 4.12 | 3.19 | 3.15 | 3.21 | 3.18 | 3.74 | 3.53 | 4.29 | 3.12 | 3 |
| | 606 | BTS 8337 | 4.72 | 3.91 | 3.61 | 3.94 | 3.78 | 4.08 | -- | 4.38 | -- | 2 |
| | 549 | BTS 8354 | 4.47 | 3.05 | 3.42 | 3.07 | 3.25 | 3.42 | -- | 3.58 | -- | 2 |
| | 510 | BTS 8363 | 5.00 | 2.93 | 3.83 | 2.95 | 3.39 | 3.87 | -- | 4.34 | -- | 2 |
| | 569 | BTS 8390 | 3.39 | 3.43 | 2.59 | 3.46 | 3.03 | 3.08 | -- | 3.14 | -- | 2 |
| | 597 | BTS 83CN | 4.18 | 3.03 | 3.20 | 3.05 | 3.13 | 3.17 | -- | 3.21 | -- | 2 |
| | 613 | BTS 8402 | 2.70 | 2.37 | 2.07 | 2.39 | 2.23 | -- | -- | -- | -- | 1 |
| | 503 | BTS 8404 | 4.53 | 2.79 | 3.47 | 2.81 | 3.14 | -- | -- | -- | -- | 1 |
| | 602 | BTS 8405 | 3.99 | 2.66 | 3.05 | 2.68 | 2.87 | -- | -- | -- | -- | 1 |
| | 605 | BTS 8406 | 4.55 | 2.64 | 3.48 | 2.66 | 3.07 | -- | -- | -- | -- | 1 |
| | 584 | BTS 8408 | 4.40 | 3.04 | 3.37 | 3.06 | 3.22 | -- | -- | -- | -- | 1 |
| | 525 | BTS 840N | 4.03 | 3.14 | 3.08 | 3.16 | 3.12 | -- | -- | -- | -- | 1 |
| | 593 | BTS 89RR83 | 5.49 | 3.32 | 4.20 | 3.35 | 3.77 | 4.08 | 3.85 | 4.39 | 3.39 | 6 |
| | 531 | Crystal 093RR | 5.01 | 3.33 | 3.83 | 3.36 | 3.59 | 3.80 | 3.69 | 4.01 | 3.45 | 5 |
| | 585 | Crystal 095RR | 5.60 | 4.46 | 4.29 | 4.49 | 4.39 | 4.79 | 4.55 | 5.20 | 4.06 | 5 |
| | 588 | Crystal 101RR | 3.50 | 2.76 | 2.68 | 2.78 | 2.73 | 3.00 | 2.99 | 3.27 | 2.95 | 4 |
| | 564 | Crystal 246RR | 4.02 | 2.89 | 3.08 | 2.91 | 2.99 | 3.58 | 3.49 | 4.17 | 3.30 | 3 |
| | 505 | Crystal 247RR | 3.91 | 2.66 | 2.99 | 2.68 | 2.84 | 3.31 | 2.98 | 3.79 | 2.32 | 3 |
| | 566 | Crystal 355RR | 4.48 | 2.84 | 3.43 | 2.86 | 3.14 | 3.29 | -- | 3.43 | -- | 2 |
| | 550 | Crystal 359RR | 2.68 | 2.35 | 2.05 | 2.37 | 2.21 | 2.40 | -- | 2.60 | -- | 2 |
| | 545 | Crystal 464RR | 5.23 | 3.67 | 4.00 | 3.70 | 3.85 | -- | -- | -- | -- | 1 |
| | 539 | Crystal 465RR | 2.85 | 2.13 | 2.18 | 2.15 | 2.16 | -- | -- | -- | -- | 1 |
| | 607 | Crystal 466RR | 4.69 | 3.23 | 3.59 | 3.25 | 3.42 | -- | -- | -- | -- | 1 |
| | 518 | Crystal 467RR | 3.36 | 2.62 | 2.57 | 2.64 | 2.61 | -- | -- | -- | -- | 1 |
| | 611 | Crystal 468RR | 3.89 | 2.54 | 2.98 | 2.56 | 2.77 | -- | -- | -- | -- | 1 |
| | 530 | Crystal 469RR | 3.11 | 2.41 | 2.38 | 2.43 | 2.40 | -- | -- | -- | -- | 1 |
| | 512 | Crystal 765RR | 5.38 | 4.15 | 4.12 | 4.18 | 4.15 | 4.45 | 4.33 | 4.75 | 4.10 | 8 |
| | 572 | Crystal 768RR | 5.54 | 4.01 | 4.24 | 4.04 | 4.14 | 4.49 | 4.40 | 4.84 | 4.20 | 8 |
| | 502 | Crystal 875RR | 5.96 | 4.43 | 4.56 | 4.46 | 4.51 | 4.65 | 4.58 | 4.79 | 4.45 | 7 |
| | 548 | Crystal 981RR | 3.69 | 2.55 | 2.82 | 2.57 | 2.70 | 3.25 | 3.12 | 3.80 | 2.87 | 6 |
| | 521 | Crystal 985RR | 5.72 | 4.01 | 4.38 | 4.04 | 4.21 | 4.31 | 4.05 | 4.42 | 3.51 | 6 |
| | 554 | Crystal 986RR | 5.28 | 4.24 | 4.04 | 4.27 | 4.16 | 4.68 | 4.55 | 5.20 | 4.30 | 6 |
| | 600 | Crystal D352NT | 3.16 | 2.55 | 2.42 | 2.57 | 2.49 | -- | -- | -- | -- | 2 |
| | 615 | Crystal RR012 | 5.14 | 2.80 | 3.93 | 2.82 | 3.38 | 3.50 | 3.28 | 3.63 | 2.85 | 5 |
| | 561 | Crystal RR228 | 5.53 | 4.53 | 4.23 | 4.56 | 4.40 | 4.55 | -- | 4.69 | -- | 3 |
| | 559 | Crystal RR260 | 4.20 | 2.26 | 3.21 | 2.28 | 2.75 | 3.01 | -- | 3.27 | -- | 3 |
| | 612 | Crystal RR299 | 5.40 | 3.60 | 4.13 | 3.63 | 3.88 | 3.97 | -- | 4.06 | -- | 3 |
| | 556 | Crystal RR830 | 5.59 | 3.90 | 4.28 | 3.93 | 4.10 | 4.17 | 3.93 | 4.23 | 3.45 | 7 |
| | 501 | Hilleshög 4022RR | 6.49 | 4.58 | 4.97 | 4.62 | 4.79 | 4.73 | 4.73 | 4.67 | 4.71 | 9 |
| | 538 | Hilleshög 4062RR | 6.72 | 4.77 | 5.14 | 4.81 | 4.97 | 4.81 | 4.78 | 4.64 | 4.73 | 7 |
| | 504 | Hilleshög 4094RR | 6.66 | 4.52 | 5.10 | 4.55 | 4.83 | 4.70 | 4.62 | 4.57 | 4.47 | 7 |
| | 543 | Hilleshög 4300RR | 6.14 | 3.53 | 4.70 | 3.56 | 4.13 | 3.94 | 3.83 | 3.76 | 3.59 | 4 |
| | 591 | Hilleshög 4302RR | 7.10 | 4.63 | 5.43 | 4.67 | 5.05 | 5.08 | 4.83 | 5.11 | 4.33 | 4 |
| | 618 | Hilleshög 4303RR | 8.09 | 6.34 | 6.19 | 6.39 | 6.29 | 5.99 | 5.81 | 5.70 | 5.44 | 4 |
| | 528 | Hilleshög 4448RR(9448) | 6.96 | 4.07 | 5.33 | 4.10 | 4.71 | 4.97 | -- | 5.22 | -- | 3 |
| | 537 | Hilleshög 9517RR | 4.66 | 3.21 | 3.57 | 3.23 | 3.40 | 3.59 | -- | 3.77 | -- | 2 |
| | 574 | Hilleshög 9528RR | 6.63 | 4.49 | 5.07 | 4.52 | 4.80 | -- | -- | -- | -- | 2 |
| | 565 | Hilleshög 9615RR | 4.93 | 2.91 | 3.77 | 2.93 | 3.35 | -- | -- | -- | -- | 1 |
| | 547 | Hilleshög 9620RR | 5.21 | 3.74 | 3.99 | 3.77 | 3.88 | -- | -- | -- | -- | 1 |
| | 551 | Maribo 301 | 3.69 | 2.46 | 2.82 | 2.48 | 2.65 | -- | -- | -- | -- | 1 |
| | 608 | Maribo 305 | 7.33 | 4.59 | 5.61 | 4.63 | 5.12 | -- | -- | -- | -- | 2 |
| | 589 | Maribo MA102RR | 7.57 | 4.91 | 5.79 | 4.95 | 5.37 | 5.29 | 5.26 | 5.21 | 5.19 | 4 |
| | 603 | Maribo 104RR | 7.83 | 4.98 | 5.99 | 5.02 | 5.50 | 5.55 | 5.29 | 5.60 | 4.75 | 4 |
| | 575 | Seedex RR0832 | 6.17 | 5.18 | 4.72 | 5.22 | 4.97 | -- | -- | -- | -- | 2 |
| | 601 | Seedex RR0941 | 6.08 | 5.02 | 4.65 | 5.06 | 4.86 | -- | -- | -- | -- | 1 |

Table 39.
2014 Fusarium Readings for Official Trial Entries
ACSC Nurseries - (Two Moorhead, MN Sites)

| Chk @ | Code | Description | Unadjusted N Mhd 3 Dates+ | Unadjusted S Mhd 3 Dates+ | Adjusted N Mhd 3 Dates+ | Adjusted S Mhd 3 Dates+ | Adj 2014 Mean | 2 Yr Mean | 3 Yr Mean | Adj 2013 Mean | Adj 2012 Mean | Years |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 617 | Seedex RR0944 | 5.22 | 4.33 | 3.99 | 4.36 | 4.18 | -- | -- | -- | -- | 1 |
| | 580 | Seedex RR0945 | 5.91 | 5.09 | 4.52 | 5.13 | 4.83 | -- | -- | -- | -- | 1 |
| | 567 | Seedex RR0946 | 5.32 | 4.03 | 4.07 | 4.06 | 4.07 | -- | -- | -- | -- | 1 |
| | 520 | Seedex RR842 | 5.82 | 3.99 | 4.45 | 4.02 | 4.24 | -- | -- | -- | -- | 1 |
| | 513 | Seedex RR848 | 5.13 | 3.95 | 3.93 | 3.98 | 3.95 | -- | -- | -- | -- | 1 |
| | 558 | Seedex SX0929RR | 6.38 | 4.73 | 4.88 | 4.77 | 4.82 | 5.28 | 4.88 | 5.73 | 4.09 | 3 |
| | 579 | Seedex Vapor RR(995) | 6.39 | 4.48 | 4.89 | 4.51 | 4.70 | 4.95 | 4.86 | 5.19 | 4.68 | 6 |
| | 526 | Seedex Victor RR | 5.55 | 3.74 | 4.25 | 3.77 | 4.01 | 4.48 | 4.39 | 4.94 | 4.21 | 6 |
| | 586 | Seedex Vision RR | 5.01 | 4.16 | 3.83 | 4.19 | 4.01 | 4.61 | 4.76 | 5.21 | 5.05 | 6 |
| | 587 | Seedex Xavier RR | 5.94 | 4.88 | 4.55 | 4.92 | 4.73 | 5.13 | 5.17 | 5.52 | 5.27 | 4 |
| | 541 | Seedex Yukon RR(828N) | 3.82 | 2.82 | 2.92 | 2.84 | 2.88 | 3.21 | 3.52 | 3.54 | 4.14 | 3 |
| | 563 | Seedex Yuma RR(924) | 5.43 | 4.87 | 4.16 | 4.91 | 4.53 | -- | -- | NR | -- | 3 |
| | 557 | Seedex Zenith RR(829N) | 3.96 | 2.90 | 3.03 | 2.92 | 2.98 | 3.62 | 3.54 | 4.27 | 3.38 | 3 |
| | 523 | SESVdh 36175RR | 4.89 | 3.23 | 3.74 | 3.25 | 3.50 | 3.98 | 4.20 | 4.45 | 4.65 | 4 |
| | 583 | SESVdh 36271RR | 4.31 | 3.37 | 3.30 | 3.40 | 3.35 | NE | -- | 5.85 | -- | 3 |
| | 546 | SESVdh 36272RR | 5.66 | 3.83 | 4.33 | 3.86 | 4.10 | NE | -- | NE | -- | 3 |
| | 599 | SESVdh 36273RR | 6.03 | 4.55 | 4.61 | 4.58 | 4.60 | NE | -- | NE | -- | 3 |
| | 552 | SESVdh 36918RR | 7.15 | 5.53 | 5.47 | 5.57 | 5.52 | 5.54 | 5.36 | 5.56 | 5.00 | 6 |
| | 595 | SESVdh RR241 | 5.86 | 4.01 | 4.48 | 4.04 | 4.26 | -- | -- | -- | -- | 1 |
| | 514 | SESVdh RR243 | 6.81 | 4.86 | 5.21 | 4.90 | 5.05 | -- | -- | -- | -- | 1 |
| | 553 | SESVdh RR244TT | 5.81 | 4.63 | 4.45 | 4.67 | 4.56 | -- | -- | -- | -- | 1 |
| | 511 | SESVdh RR245N | 4.78 | 3.33 | 3.66 | 3.36 | 3.51 | -- | -- | -- | -- | 1 |
| | 542 | SESVdh RR246 | 5.83 | 4.06 | 4.46 | 4.09 | 4.28 | -- | -- | -- | -- | 1 |
| | 609 | SESVdh RR333 | 5.50 | 3.96 | 4.21 | 3.99 | 4.10 | -- | -- | -- | -- | 2 |
| | 529 | SESVdh RR336 | 5.73 | 4.17 | 4.38 | 4.20 | 4.29 | -- | -- | -- | -- | 2 |
| | 620 | SESVdh RR631 | 4.98 | 4.23 | 3.81 | 4.26 | 4.04 | -- | -- | -- | -- | 2 |
| | 540 | SESVdh RR632N | 7.04 | 5.15 | 5.39 | 5.19 | 5.29 | 5.26 | -- | 5.22 | -- | 2 |
| | 519 | SESVdh RR633 | 4.68 | 2.84 | 3.58 | 2.86 | 3.22 | -- | -- | -- | -- | 2 |
| | 592 | SESVdh RR744 | 5.23 | 4.03 | 4.00 | 4.06 | 4.03 | -- | -- | -- | -- | 1 |
| | 610 | SESVdh RR745 | 5.89 | 4.87 | 4.51 | 4.91 | 4.71 | -- | -- | -- | -- | 1 |
| 1 | 1201 | Fus Chk #07 CRYS658RR | 4.06 | 2.72 | 3.11 | 2.74 | 2.92 | 3.53 | 3.92 | 4.14 | 4.71 | 9 |
| 1 | 1202 | Fus Chk #08 HILL4000RR | 7.83 | 6.51 | 5.99 | 6.56 | 6.28 | 4.70 | 4.03 | 3.13 | 2.68 | 8 |
| 1 | 1203 | Fus Chk #09 HILL4010RR | 7.90 | 5.64 | 6.05 | 5.68 | 5.86 | 5.91 | 6.15 | 5.95 | 6.62 | 9 |
| 1 | 1204 | Fus Chk #12 HILL4012RR | 7.80 | 5.95 | 5.97 | 6.00 | 5.98 | 5.84 | 5.94 | 5.70 | 6.14 | 9 |
| 1 | 1205 | Fus Chk #13 HILL4043RR | 7.68 | 6.08 | 5.88 | 6.13 | 6.00 | 5.85 | 5.81 | 5.69 | 5.72 | 8 |
| 1 | 1206 | Fus Chk #14 BETA86RR44 | 7.37 | 5.45 | 5.64 | 5.49 | 5.57 | 5.52 | 5.91 | 5.48 | 6.70 | 9 |
| 1 | 1207 | Fus Chk #16 BETA87RR58 | 6.65 | 5.33 | 5.09 | 5.37 | 5.23 | 5.46 | 5.40 | 5.68 | 5.30 | 6 |
| 1 | 1208 | Fus Chk #17 CRYS765RR | 5.22 | 3.93 | 3.99 | 3.96 | 3.98 | 4.58 | 4.65 | 5.18 | 4.79 | 6 |
| 1 | 1209 | Fus Chk #18 CRYS768RR | 6.26 | 4.99 | 4.79 | 5.03 | 4.91 | 4.70 | 4.65 | 4.49 | 4.54 | 6 |
| 1 | 1210 | Fus Chk #26 BETA87RR68 | 6.10 | 4.19 | 4.67 | 4.22 | 4.44 | 4.69 | 4.51 | 4.94 | 4.13 | 5 |
| | 1211 | FS CHECK RES RR #1 | 3.70 | 3.11 | 2.83 | 3.13 | 2.98 | 3.95 | 4.15 | 4.92 | 4.54 | 4 |
| | 1212 | FS CHECK SUS RR #2 | 7.33 | 6.00 | 5.61 | 6.05 | 5.83 | 4.39 | 3.72 | 2.95 | 2.39 | 4 |
| | 1213 | FS CHK MOD RR RES #2 | 5.34 | 3.81 | 4.09 | 3.84 | 3.96 | 4.79 | 4.71 | 5.63 | 4.54 | 8 |
| | 1214 | FS CHK MOD RR SUS #1 | 5.97 | 5.18 | 4.57 | 5.22 | 4.89 | 4.72 | 4.74 | 4.54 | 4.79 | 8 |
| | 1215 | FS CHECK SUS RR #2 | 7.91 | 6.07 | 6.05 | 6.12 | 6.08 | 4.52 | 3.81 | 2.95 | 2.39 | 4 |
| | 1216 | FS CHK SUS RR#10 | 6.94 | 5.18 | 5.31 | 5.22 | 5.27 | -- | -- | -- | -- | 1 |
| | 1217 | FS CHECK RES RR #1 | 3.80 | 2.19 | 2.91 | 2.21 | 2.56 | 3.74 | 4.01 | 4.92 | 4.54 | 4 |
| | 1218 | FS CHK SUS RR#10 | 7.13 | 5.34 | 5.46 | 5.38 | 5.42 | -- | -- | -- | -- | 1 |
| | 589 | Maribo MA102RR (108 MD) | 7.57 | 4.91 | 5.79 | 4.95 | 5.37 | 5.23 | 5.17 | 5.10 | 5.05 | 4 |
| | 528 | Hilleshög 4448RR(9449 MD) | 6.96 | 4.07 | 5.33 | 4.10 | 4.71 | 4.85 | -- | 4.98 | -- | 3 |
| 10 | | Mean of 10 Check Varieties | 6.69 | 5.08 | 5.12 | 5.12 | 5.12 | 5.08 | 5.10 | 5.04 | 5.13 | |
| | | Trial Mean | 5.32 | 3.87 | 4.07 | 3.90 | 3.95 | | | | | |
| | | Coeff. of Var. (%) | 11.31 | 12.50 | 11.31 | 12.50 | | | | | | |
| | | F Value | 17.23 | 23.03 | 17.23 | 23.03 | | | | | | |
| | | Mean LSD (0.05) | 0.89 | 0.61 | 0.68 | 0.61 | | | | | | |
| | | Mean LSD (0.01) | 1.17 | 0.81 | 0.90 | 0.82 | | | | | | |
| | | Sig Lvl | ** | ** | | | | | | | | |
| | | Adjustment Factor | 0.7652 | 1.0077 | | | | | | | | |

@ Adjustment is based upon 10 RR varieties.
Lower numbers indicate better tolerance (1=Ex, 9=Poor).
+ Average rating based upon multiple rating dates.
NE indicates variety was not evaluated.into disease nursery.

## Table 40. Herbicides and Fungicides Applied to ACSC & MDFC Official Trials

| | | Herbicide | | | Fungicide | | |
|---|---|---|---|---|---|---|---|
| Area | Location | Spray Dates | Herbicide & Rate | Water Used/Method | Spray Dates | Fungicide Used | Water Used/Method |
| ASCS | Casselton | 6/13,7/7 | RU1,RU2** | 10 gal. (Ground) | 6/25 | Quadris | 18.5 gal. (Ground) |
| | | | | | 7/29,8/12,8/26 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Ada | 6/4,7/7 | RU1,RU2 | 10 gal. (Ground) | 6/4 | Quadris | 18.5 gal. (Ground) |
| | | | | | 7/29,8/13,8/26 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Crookston | 6/25,7/21 | RU1,RU2 | 10 gal. (Ground) | 7/3 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/1,8/13,8/30 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Climax | 6/10,7/7 | RU1,RU2 | 10 gal. (Ground) | 7/3 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/1,8/15,8/30 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Grand Forks | 6/13,7/7 | RU1,RU2 | 10 gal. (Ground) | 7/4 | Quadris | 18.5 gal. (Ground) |
| | | | | | 7/31,8/13,8/29 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Alvarado | 6/13,7/7 | RU1,RU2 | 10 gal. (Ground) | 7/4 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/1,8/15,8/29 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | St. Thomas | 6/17,7/11 | RU1,RU2 | 10 gal. (Ground) | 7/8 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/2,8/15,8/29 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Stephen | 6/13,7/7 | RU1,RU2 | 10 gal. (Ground) | 7/4 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/1,8/15,8/29 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| ACSC | Bathgate | 6/17,7/11 | RU1,RU2 | 10 gal. (Ground) | 7/8 | Quadris | 18.5 gal. (Ground) |
| | | | | | 8/2,8/15,8/29 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| MDAK | Barnesville | 6/25*,7/17 | RU1,RU2 | 10 gal. (Ground) | 7/5 | Quadris | 18.5 gal. (Ground) |
| | | | | | 7/29,8/12,8/26 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |
| MDAK | Fairmount | 6/20*,7/17 | RU1,RU2 | 10 gal. (Ground) | 7/9 | Quadris | 18.5 gal. (Ground) |
| | | | | | 7/29,8/12,9/2 | App. 1/App. 2/App. 3 | 15 gal. (Ground) |

Ground applications made by beet seed personnel from Crystal Technical Services Center.

RU1 = Roundup Powermax (32 oz./A), Event (1 gal./100 gal water). * Applied by air

RU2 = Roundup Powermax (22 oz./A), Event (1 gal./100 gal water). **4oz./A Stinger added

Counter 20G was applied at 9.0 lbs./A at Grand Forks and St. Thomas .

Quadris applied at 14oz./A App.1=Agritin(8oz./A), Proline(5oz./A) App. 2 = Agritin (8oz./A), Topsin(5.6oz/A)

App. 3 = Headline (12oz./A)