

**A REPORT OF THE
NATIONAL SMALL GRAIN VARIETY REVIEW BOARD**



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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AUGUST 2014



NATIONAL SMALL GRAIN VARIETY REVIEW BOARD
ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES
August 2014

The Association of Official Seed Certifying Agencies (AOSCA), National Small Grain Variety Review Board (NSGVRB), reviewed the following varieties on August 06, 2014. The Board recommended the inclusion of these varieties for certification. Seed of these varieties may be certified, providing production meets all standards of the Seed Certifying Agency of the jurisdiction in which the seed is grown.

All variety information, including descriptions, claims, and research data to support any claim, was supplied to the National Small Grain Variety Review Board by the applicants. The National Small Grain Variety Review Board makes judgments regarding recommendation of varieties for inclusion into certification based on the data supplied. Beyond that, the National Small Grain Variety Review Board takes no position on the accuracy or truthfulness of any description or claim made by the applicants.

Further information on current procedures, application forms, and detail regarding the National Small Grain Variety Review Board can be obtained from:

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Respectfully submitted,

Abed Anouti, Chairman
National Small Grains Variety Review Board

2014 AOSCA SMALL GRAIN VARIETY REVIEW BOARD - AUGUST

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Wheat

Mira D2-97 (Exp)

1. Mira (D2-97) is a spring durum developed by Arizona Plant Breeders (APB).
2. Mira was selected for high yield and pasta quality using a male sterile facilitated recurrent selection method.
3. Mira is adapted to the irrigated durum producing areas of the Southwest United States.
4. Identifying characteristics –

1. Kind:	Durum, Spring Wheat	16. Awn Type:	Awned
2. Seasonal Growth Habit:	Spring	17. Awn Color:	White
3. Coleoptile Color:	White	18. Glume Color:	Tan
4. Juvenile Growth Habit:	Semi Erect	19. Glume Length:	Medium
5. Leaf Color at Boot:	Green	20. Shoulder Shape:	Square
6. Flag Leaf at Boot:	Erect Twisted Wax Absent	21. Shoulder Width:	Narrow
7. Auricle Color:	White	22. Beak Shape:	Acuminate
8. Days to 50% Heading:	80	23. Beak Length (S.M.L.VL):	M
9. Anther Color:	Yellow	24. Glume Pubescence:	Absent
10. Stem Color:	Green	25. Seed Color:	Amber
11. Plant Height (cm):	87	26. Seed Shape:	Ovate
12. Internodes:	Hollow	27. Cheeks:	Angular
13. Spike Shape:	Oblong	28. Brush Size (S,M,L.):	M
14. Spike Density:	Dense	29. Avg 1,000 Kernel Wt (g):	55
15. Spike Curvature:	Erect		
30. Physiological/Biochemical Traits:	Low cadmium		

Variants and Frequency: 1 in 10,000 plants is taller than the rest.

5. Recognized classes of Mira are breeder, foundation, registered, and certified. APB will maintain the variety by the head row method to produce breeder seed as needed. Mira will have a royalty fee and a licensing agreement will be required
6. Certified seed will be offered in the fall of 2015.
7. Application for PVP is anticipated with Title V Certification Option.
8. The certified seed production acreage can be published by AOSCA and certifying agencies.

Date this application was submitted: May 30, 2014 Date recommended by the VRB: Aug 29, 2014



Wheat

Chevelle LNR10-0177 (Exp)

1. Chevelle is a hard red spring wheat developed by Limagrain Cereal Seeds. It was tested under the experimental number LNR10-0177.
2. Chevelle was developed by selecting for agronomic plant type, resistance to prevalent foliar diseases, and head scab mainly in Minnesota, with winter nursery selections made in Yuma, AZ.
3. Chevelle is adapted to the hard red spring wheat growing regions of North Dakota. The primary purpose of the variety will be for milling and baking of breads using processed and whole wheat flour.
4. No claims are made in this application for disease resistance or insect reactions in terms of varietal attributes.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	White
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect, Not Twisted, Wax Absent	20. Shoulder Shape:	Elevated
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Days to 50% Heading:	179	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S.M.L.VL):	Long
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	84	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Dense	28. Brush Size (S,M,L):	Short
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (g):	33

30. Physiological/Biochemical Traits:

Variants and Frequency: Chevelle may contain up to 5 per 1000 taller plants, up to 8” greater than canopy height.

6. Recognized seed classes will be Breeder, Foundation, Registered, and Certified. Limagrain Cereal Seeds will maintain Breeder seedstocks; variety has been sub-licensed and sub-licensee is authorized to maintain Foundation seed and control production of Registered and Certified seed.
7. Registered seed will be available for planting in Spring 2015.
8. PVP will be applied for without the Title V option in Spring 2015.
9. Certified seed production and acreage may be published by AOSCA and official state seed certifying agencies.

Date this application was submitted: Jun 23, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

LCS Nitro BIO 10125 (Exp)

1. LCS Nitro is a hard red spring wheat marketed by Limagrain Cereal Seeds. It was tested under the experimental number BIO 10125.
2. LCS Nitro was selected for grain yield, agronomic type, reaction to main diseases, and characteristics desirable to the wheat industry in Brazil using a pedigreed head to row breeding method. Following its development, it was tested for these same characteristics in North Dakota and surrounding states.
3. LCS Nitro is adapted to the hard red spring wheat growing regions of North Dakota. The primary purpose of the variety will be for milling and baking of breads using processed and whole wheat flour.
4. No claims are made in this application for disease resistance or insect reactions in terms of varietal attributes.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	White
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Erect, Twisted, Wax Absent	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Days to 50% Heading:	177	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S.M.L.VL):	Long
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	76	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Dense	28. Brush Size (S,M,L):	Long
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (g):	38

30. Physiological/Biochemical Traits: None

Variants and Frequency: LCS Nitro may contain up to 5 per 1000 taller plants up to 8" above canopy height, and up to 2 per 1000 plants with blue-green heads at flowering.

6. Recognized seed classes will be Breeder, Foundation, Registered, and Certified. Registered and Certified seed of LCS Nitro may be produced and sold only through a license agreement with LCS. LCS will maintain Breeder and Foundation seed by head-rowing and/or roguing and removal of off-types in bulk seedings as necessary.
7. Registered seed will be available for planting in Spring 2015.
8. PVP will be applied for without the Title V option in Spring 2015.
9. Certified seed production and acreage may be published by AOSCA and official state seed certifying agencies.

Date this application was submitted: Jun 23, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

LCS Pro LNR10-0493 (Exp)

1. LCS Pro is a hard red spring wheat marketed by Limagrain Cereal Seeds. It was tested under the experimental number LNR10-0493.
2. LCS Pro was selected for grain yield, grain protein, milling and baking quality, and reaction to main diseases in the Northern Plains using a modified bulk breeding method.
3. LCS Pro is adapted to the hard red spring wheat growing regions of Western North Dakota. The primary purpose of the variety will be for milling and baking of breads using processed and whole wheat flour.
4. No claims are made in this application for disease resistance or insect reactions in terms of varietal attributes.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	White
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Recurved, Not Twisted, Wax Absent	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Wide
8. Days to 50% Heading:	179	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S.M.L.VL):	Very long
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	94	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Lax	28. Brush Size (S,M,L):	Short
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (g):	40

30. Physiological/Biochemical Traits: none

Variants and Frequency: LCS Pro may contain up to 5 per 1000 taller plants up to 8" above canopy height.

6. Recognized seed classes will be Breeder, Foundation, Registered, and Certified. Registered and Certified seed of LCS Pro may be produced and sold only through a license agreement with LCS. LCS will maintain Breeder and Foundation seed by head-rowing and/or roguing and removal of off-types in bulk seedings as necessary.
7. Registered seed will be available for planting in Spring 2015.
8. PVP will be applied for without the Title V option in Spring 2015.
9. Certified seed production and acreage may be published by AOSCA and official state seed certifying agencies.

Date this application was submitted: Jun 23, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

Redstone BIO 10101 (Exp)

1. Redstone is a hard red spring wheat developed by Limagrain Cereal Seeds. It was tested under the experimental number BIO 10101.
2. Redstone was selected for grain yield, agronomic type, reaction to main diseases, and characteristics desirable to the wheat industry in Brazil using a pedigreed head to row breeding method. Following its development, it was tested for these same characteristics in North Dakota and surrounding states.
3. Redstone is adapted to the hard red spring wheat growing regions of North Dakota. The primary purpose of the variety will be for milling and baking of breads using processed and whole wheat flour.
4. No claims are made in this application for disease resistance or insect reactions in terms of varietal attributes.
5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Spring Wheat</u>		
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Semi-erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Green</u>	19. Glume Length:	<u>Medium</u>
6. Flag Leaf at Boot:	<u>Erect, Not Twisted, Wax Absent</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White and Purple on Same Stem</u>	21. Shoulder Width:	<u>Medium</u>
8. Days to 50% Heading:	<u>184</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>Long</u>
10. Stem Color:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>86</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid dense</u>	28. Brush Size (S,M,L):	<u>Medium</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (g):	<u>35</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Redstone may contain up to 5 per 1000 taller plants up to 8” above canopy height.

6. Recognized seed classes will be Breeder, Foundation, Registered, and Certified. Limagrain Cereal Seeds will maintain Breeder seedstocks; variety has been sub-licensed and sub-licensee is authorized to maintain Foundation seed and control production of Registered and Certified seed.
7. Registered seed will be available for planting in Spring 2015.
8. PVP will be applied for without the Title V option in Spring 2015.
9. Certified seed production and acreage may be published by AOSCA and official state seed certifying agencies.

Date this application was submitted: Jun 23, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

AP08TS7124 (Exp)

1. AP08TS7124 is a soft red winter wheat bred and developed by Syngenta Seeds, Inc.
2. AP08TS7124 is the result of a cross made in 2001 at the AgriPro Wheat research facility near Lafayette, Indiana. AP08TS7124 was selected for height, heading and disease reaction.
3. AP08TS7124 is best adapted to central and north-central Texas.
4. Identifying characteristics –

1. Kind:	<u>Common, Soft Red Winter Wheat</u>		
2. Seasonal Growth Habit:	<u>Winter</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Blue-green</u>	19. Glume Length:	<u>Long</u>
6. Flag Leaf at Boot:	<u>Erect, Twisted, Wax Present</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Narrow</u>
8. Days to 50% Heading:	<u>97</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>Long</u>
10. Stem Color:	<u>Anthocyanin Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>77</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Oblong</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid-dense</u>	28. Brush Size (S,M,L.):	<u>Short</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (g):	<u>45</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Up to 1.0% variant plants may be encountered in subsequent generations.
Variants recorded were taller than the average canopy height of the variety.

5. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered, and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
6. Certified seed will be available in the 2015.
7. Plant Variety Protection is anticipated in 2014.
8. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Sep 05, 2014



Wheat

HRS 385-5 06S0385-5 (Exp)

1. HRS 385-5 is a hard red spring wheat bred and developed by Syngenta Seeds, Inc.
2. HRS 385-5 is the result of a cross made in 2006 by Syngenta Seeds, Inc. in Berthoud, Colorado. HRS 385-5 was selected for height and leaf rust resistance.
3. HRS 385-5 is best adapted to the spring wheat growing areas of North Dakota and Minnesota.
4. HRS 385-5 is resistant to stem rust and moderately resistant to leaf rust.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awed
3. Coleoptile Color:	White	17. Awn Color:	White
4. Juvenile Growth Habit:	Erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Short
6. Flag Leaf at Boot:	Re-curved, Twisted, Wax Absent	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Days to 50% Heading:	57.7	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S.M.L.VL):	Medium
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	77	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Lax	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (g):	31.7

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.8% of the plants were rogued from the Breeder seed increase in Yuma, Arizona. Approximately 95% of the rogued variant plants were taller height wheat plants (8 to 15 cm). Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in 2016.
8. Plant Variety Protection is anticipated in 2014.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat
HRS 3361
05S0261-10 (Exp)
(Amended – Description Change)

Variety Name HRS 3361
 Experimental Designation(s) 05S0261-10
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. HRS 3361 is a hard red spring wheat bred and developed by Syngenta Seeds, Inc.
2. HRS 3361 is the result of a cross made in 2005 by Syngenta Seeds, Inc. in Berthoud, Colorado. HRS 3361 was selected for height and leaf rust.
3. HRS 3361 is best adapted to the spring wheat growing areas of North Dakota and Minnesota.
4. HRS 3361 has moderately resistance to leaf rust. Protection to leaf spotting diseases has been good. HRS 3361 tolerance to FHB has been intermediate.

5. Identifying characteristics –

1. Kind:	<u> Common, Hard Red Spring Wheat </u>		
2. Seasonal Growth Habit:	<u> Spring </u>	16. Awn Type:	<u> Awned </u>
3. Coleoptile Color:	<u> White </u>	17. Awn Color:	<u> White </u>
4. Juvenile Growth Habit:	<u> Erect </u>	18. Glume Color:	<u> White/Amber </u>
5. Leaf Color at Boot:	<u> Green </u>	19. Glume Length:	<u> Medium </u>
6. Flag Leaf at Boot:	<u> Twisted, Wax Absent, Recurved </u>	20. Shoulder Shape:	<u> Oblique </u>
7. Auricle Color:	<u> White </u>	21. Shoulder Width:	<u> Wide </u>
8. Days to 50% Heading:	<u> 57.7 </u>	22. Beak Shape:	<u> Acuminate </u>
9. Anther Color:	<u> Yellow </u>	23. Beak Length (S.M.L.VL):	<u> Medium </u>
10. Anthocyanin:	<u> Absent </u>	24. Glume Pubescence:	<u> Absent </u>
11. Plant Height (cm):	<u> 79 </u>	25. Seed Color:	<u> Red </u>
12. Internodes:	<u> Hollow </u>	26. Seed Shape:	<u> Ovate </u>
13. Spike Shape:	<u> Tapering </u>	27. Cheeks:	<u> Rounded </u>
14. Spike Density:	<u> Mid dense </u>	28. Brush Size (S,M,L):	<u> Medium </u>
15. Spike Curvature:	<u> Inclined </u>	29. Avg 1,000 Kernel Wt (g):	<u> 27.6 </u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.8% of the plants were rogued from the Breeder seed increase in Eaton, CO. Approximately 95% of the rogued variant plants were taller height wheat plants (8 to 15 cm). Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the spring of 2014.
8. Plant Variety Protection is anticipated in 2014.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat
HRS 3378
02S0178-1 (Exp)
(Amended –Description Change)

Variety Name HRS 3378
 Experimental Designation(s) 02S0178-1
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. HRS 3378 is a hard red spring wheat bred and developed by Syngenta Seeds, Inc.
2. HRS 3378 is the result of a cross made in 2002 by Syngenta Seeds, Inc. in Berthoud, Colorado. HRS 3378 was selected for height, and leaf rust.
3. HRS 3378 is best adapted to the spring wheat growing areas of North Dakota and Minnesota.
4. HRS 3378 is moderately resistant to leaf rust. Protection to leaf spotting diseases has been good. HRS 3378 tolerance to FHB has been intermediate.

5. Identifying characteristics –

1. Kind:	<u> Common, Hard Red Spring Wheat </u>		
2. Seasonal Growth Habit:	<u> Spring </u>	16. Awn Type:	<u> Awned </u>
3. Coleoptile Color:	<u> White </u>	17. Awn Color:	<u> White </u>
4. Juvenile Growth Habit:	<u> Erect </u>	18. Glume Color:	<u> White/amber </u>
5. Leaf Color at Boot:	<u> Green </u>	19. Glume Length:	<u> Medium </u>
6. Flag Leaf at Boot:	<u> Recurved, Wax Absent, Twisted </u>	20. Shoulder Shape:	<u> Square </u>
7. Auricle Color:	<u> White </u>	21. Shoulder Width:	<u> Medium </u>
8. Days to 50% Heading:	<u> 57.5 </u>	22. Beak Shape:	<u> Acuminate </u>
9. Anther Color:	<u> Yellow </u>	23. Beak Length (S.M.L.VL):	<u> M </u>
10. Anthocyanin:	<u> Absent </u>	24. Glume Pubescence:	<u> Absent </u>
11. Plant Height (cm):	<u> 77 </u>	25. Seed Color:	<u> Red </u>
12. Internodes:	<u> Hollow </u>	26. Seed Shape:	<u> Ovate </u>
13. Spike Shape:	<u> Tapering </u>	27. Cheeks:	<u> Rounded </u>
14. Spike Density:	<u> Mid-dense </u>	28. Brush Size (S,M,L):	<u> M </u>
15. Spike Curvature:	<u> Inclined </u>	29. Avg 1,000 Kernel Wt (g):	<u> 26.7 </u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.8% of the plants were rogued from the Breeder seed increase in Eaton, CO. Approximately 95% of the rogued variant plants were taller height wheat plants (8 to 15 cm). Up to 1.0% variant plants may be encountered in subsequent generations..

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the Spring 2014.
8. Plant Variety Protection is anticipated in 2014.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat
SY Basalt
04W40240R (Exp)
(Amended – Description Change)

Variety Name SY Basalt
 Experimental Designation(s) 04W40240R
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. SY Basalt is a hard red spring wheat bred and developed by Syngenta Seeds, Inc.
2. SY Basalt is the result of a cross made in 2001 by Syngenta Seeds, Inc. in Woodland, CA. SY Basalt was selected for height, good yield performance and absence of stripe rust.
3. SY Basalt is best adapted to the spring wheat growing areas in the Basin of Washington.
4. SY Basalt has medium maturity.
5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Spring Wheat</u>		
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Green</u>	19. Glume Length:	<u>Long</u>
6. Flag Leaf at Boot:	<u>Erect, Twisted, Wax Absent</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Medium</u>
8. Days to 50% Heading:	<u>163</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>M</u>
10. Stem Color:	<u>Anthocyanin Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>84</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid dense</u>	28. Brush Size (S,M,L):	<u>M</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (g):	<u>38</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.1% of the plants were rogued from the Breeder and Foundation seed increases. Fifty percent of the variant plants were taller height wheat plants (5 to 10 cm). Twenty-five percent of the variants were later maturity (2 to 3 days) and a white seeded variant of approximately 0.5% has also been identified in the Foundation seed production. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the spring of 2015.
8. Plant Variety Protection is anticipated in 2014 and SY Basalt may only be sold as a class of certified seed.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat
SY Llano
AP09T9614 (Exp)
(Amended – Description Change)

Variety Name SY Llano
 Experimental Designation(s) AP09T9614
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. SY Llano is a hard red winter wheat bred and developed by Syngenta Seeds, Inc.
2. SY Llano is the result of a cross made in 2006-by Syngenta Seeds, Inc. in Vernon, Texas. SY Llano was selected for its early maturity and resistance to endemic races of leaf rust.
3. SY Llano is best adapted to the High Plains of Texas and north central Oklahoma.
4. SY Llano is resistant to stripe rust, moderately resistant to moderately susceptible to leaf rust, resistant to soil borne mosaic virus, susceptible to powdery mildew, and tolerant of acid soils.

5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Winter Wheat</u>		
2. Seasonal Growth Habit:	<u>Winter</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Blue-Green</u>	19. Glume Length:	<u>Medium</u>
6. Flag Leaf at Boot:	<u>Erect, Twisted, Waxy</u>	20. Shoulder Shape:	<u>Square</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Narrow</u>
8. Days to 50% Heading:	<u>91</u>	22. Beak Shape:	<u>Acute</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>Medium</u>
10. Stem Color:	<u>Anthocyanin Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>69.9</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Elliptical</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid Dense</u>	28. Brush Size (S,M,L):	<u>Short</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (g):	<u>27.3</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than .06% of the plants were rogued from the Breeder seed increase. Approximately 95% of the rogued variant plans were taller height and the other variants were awnless. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the fall of 2015.
8. Plant Variety Protection is anticipated in 2014 and SY Llano may only be sold as a class of certified seed.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat
SY Monument
04BC574-2 (Exp)
(Amended –Description Change)

Variety Name SY Monument
 Experimental Designation(s) 04BC574-2
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. SY Monument is a hard red winter wheat bred and developed by Syngenta Seeds, Inc.
2. SY Monument is the result of a cross made in 2003 by Syngenta Seeds, Inc. in Junction City, KS. SY Monument was selected for height, straw strength, yield, bread making quality and resistance to leaf and stripe rust.
3. SY Monument is best adapted to the winter wheat growing areas of the High Plains.
4. SY Monument has a high level of tolerance to low Ph soils.
5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Winter Wheat</u>		
2. Seasonal Growth Habit:	<u>Winter</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Green</u>	19. Glume Length:	<u>Medium</u>
6. Flag Leaf at Boot:	<u>Erect, Non-Twisted, Waxy</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Wide</u>
8. Days to 50% Heading:	<u>127</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>Medium</u>
10. Stem Color:	<u>Anthocyanin Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>84</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid Dense</u>	28. Brush Size (S,M,L):	<u>Medium</u>
15. Spike Curvature:	<u>Nodding</u>	29. Avg 1,000 Kernel Wt (g):	<u>36</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than 1% of the plants were rogued from the breeder seed increase in Eaton, CO. Approximately 97% of the rogued variant plants were taller height wheat plants (8 to 15cm). The other variants were heads with different chaff color (red). Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the fall of 2015.
8. Plant Variety Protection is anticipated in 2014 and SY Monument may only be sold as a class of certified seed.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

SY Soren 01S0263-28 (Exp) (Amended – Description Change)

Variety Name SY Soren
Experimental Designation(s) 01S0263-28
Date NA&MLVRB first accepted this variety April 22, 2011
Date(s) previous amendments were accepted N/A
Date amendment submitted April 7, 2014
Date recommended by the NVRB August 06, 2014

1. SY Soren (Experimental designation – (01S0263-28) is a hard red spring wheat bred and developed by Syngenta Seeds, Inc.
2. SY Soren originated from the cross “Norpro/Kelby” and was developed using a modified single seed descent breeding method. SY Soren was selected for high yield, good agronomics, general disease resistance and good overall bread making characteristics.
3. SY Soren has been primarily tested across North Dakota and surrounding states since 2005. It has yielded very well across the region relative to popular checks. It has good bread making quality is intended for grain production.
4. SY Soren has moderate resistance to the prevalent races of leaf rust It has shown good tolerance to leaf spotting diseases such as tan spot and septoria.

5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Spring Wheat</u>	16. Awn Type:	<u>Awned</u>
2. Seasonal Growth Habit:	<u>Spring</u>	17. Awn Color:	<u>White</u>
3. Coleoptile Color:	<u>White</u>	18. Glume Color:	<u>White/Amber</u>
4. Juvenile Growth Habit:	<u>Erect</u>	19. Glume Length:	<u>Short</u>
5. Leaf Color at Boot:	<u>Green</u>	20. Shoulder Shape:	<u>Oblique</u>
6. Flag Leaf at Boot:	<u>Waxy, recurved, Twisted</u>	21. Shoulder Width:	<u>Midwide</u>
7. Auricle Color:	<u>White</u>	22. Beak Shape:	<u>Acuminate</u>
8. Days to 50% Heading:	<u>57</u>	23. Beak Length (S.M.L.VL):	<u>Medium</u>
9. Anther Color:	<u>Yellow</u>	24. Glume Pubescence:	<u>Absent</u>
10. Stem Color:	<u>Anthocyanin Absent</u>	25. Seed Color:	<u>Red</u>
11. Plant Height (cm):	<u>74</u>	26. Seed Shape:	<u>Ovate</u>
12. Internodes:	<u>Hollow</u>	27. Cheeks:	<u>Angular</u>
13. Spike Shape:	<u>Tapering</u>	28. Brush Size (S,M,L):	<u>Medium</u>
14. Spike Density:	<u>Mid-dense</u>	29. Avg 1,000 Kernel Wt (g):	<u>34</u>
15. Spike Curvature:	<u>Inclined</u>		

30. Physiological/Biochemical Traits:

Variants and Frequency: About 0.8% of the plants were rogued from the Breeder seed increase in 2009. Approximately 95% of the variant plants were taller height wheat plants (8 to 30 cm.) and 5% were awnless wheat plants. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce Breeder seed if needed.
7. Certified seed sales of SY Soren will be available in the spring of 2012.
8. Plant Variety Protection is anticipated in the fall of 2011 and SY Soren may only be sold as a class of certified seed.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Wheat

SY Sky

BC98331-03\$-11W (Exp) (Amended – Description Change)

Variety Name SY Sky

Experimental Designation(s) BC98331-03\$-11W

Date NA&MLVRB first accepted this variety April 04, 2014

Date(s) previous amendments were accepted N/A

Date amendment submitted June 30, 2014

Date recommended by the NVRB August 06, 2014

1. SY Sky is a hard white winter wheat bred and developed by Syngenta Seeds, Inc.
2. SY Sky is the result of a cross made by Kansas State University and the F2 population shared in 1999. SY Sky was selected for yield, disease, quality and resistance to leaf rust.
3. SY Sky is best adapted to the winter wheat growing areas of Kansas.
4. SY Sky has moderate resistance to leaf rust.
5. Identifying characteristics –

1. Kind:	<u>Common, Hard White Winter Wheat</u>		
2. Seasonal Growth Habit:	<u>Winter</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>White</u>	17. Awn Color:	<u>White</u>
4. Juvenile Growth Habit:	<u>Semi-erect</u>	18. Glume Color:	<u>White/Amber</u>
5. Leaf Color at Boot:	<u>Green</u>	19. Glume Length:	<u>Short</u>
6. Flag Leaf at Boot:	<u>Erect, Twisted, Wax Present</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Wide</u>
8. Days to 50% Heading:	<u>123</u>	22. Beak Shape:	<u>Acute</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S.M.L.VL):	<u>Medium</u>
10. Stem Color:	<u>Anthocyanin absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>77</u>	25. Seed Color:	<u>White</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Mid-dense</u>	28. Brush Size (S,M,L):	<u>Medium</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (g):	<u>36</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: Less than .8% of the plants were rogued from the breeder seed increase in Eaton, CO. Approximately 98% of the rogued variant plants were taller height wheat plants (more than 8cm). Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Certified seed will be available in the fall of 2015.
8. Plant Variety Protection is anticipated in 2014 and SY Sky may only be sold as a class of certified seed.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Barley
BG 104
FA5S09-00104, F5N09-0104 (Exp)

1. BG 104 (FA5S09-00104, F5N09-0104), six-rowed spring barley, was developed by WestBred/a Unit of Monsanto, (Ownership of all barley germplasm has been transferred from WestBred/Monsanto to Highland Specialty Grain).
2. BG 104 was selected for hullless and shrunken endosperm, waxy starch content, yield, and standability following the initial cross and subsequent pedigree breeding procedures.
3. BG 104 was tested against established check varieties in the irrigated areas of Idaho Falls, ID, Bozeman, MT, and the dryland area of Belfield, ND and has shown good adaptation those areas.
4. BG 104 is moderately resistant to powdery mildew and leaf rust. BG 104 is resistant to stem rust.
5. Identifying characteristics:

1. Growth Habit:	<u>Spring</u>	16. Plant Height (see below):	<u> </u>
2. Spike:	<u>Six-row</u>	17. Spike Shape:	<u>Oblong</u>
3. Coleoptile Color:	<u>Green</u>	18. Spike Density:	<u>Mid-Dense</u>
4. Juvenile Growth Habit:	<u>Semi-erect</u>	19. Spike Position at Maturity:	<u>Inclined</u>
5. Plant Tillering:	<u>Intermediate</u>	20. Hairiness of Rachis Edge:	<u>Covered</u>
6. Leaf Color at Boot:	<u>Green</u>	21. Rachilla Hair Length:	<u>Long</u>
7. Flag Leaf at Boot:	<u>Erect, Straight, Waxy</u>	22. Lemma Awns:	<u>Straight</u>
8. Pubescence on Leaf Blade:	<u>No</u>	23. Length of Lemma Awns:	<u>Short</u>
9. Pubescence on Leaf Sheath:	<u>No</u>	24. Lemma Awn Surface:	<u>Rough</u>
10.:Auricle Color:	<u>White</u>	25. Glume Hairiness:	<u>Covered</u>
11.Heading Date (see below):	<u> </u>	26. Glume Awn Surface:	<u>Rough</u>
12. Stem Color:	<u>White</u>	27. Glume/Lemma Adherence:	<u>Naked</u>
13. Neck Shape:	<u>Straight</u>	28. Texture (if covered):	<u>N/A</u>
14. Collar Shape:	<u>Open</u>	29. Aleurone Color:	<u>Colorless</u>
15. Spike Exsertion:	<u>Full</u>	30. Avg 1,000 Kernel Wt (g):	<u>25.6 gm</u>

NOTE: The sheath of the flag leaf is waxy while the blade is not waxy.

NOTE: Having a shrunken endosperm greatly reduces the 1000-Kernel weight.

Heading date: 61 days which is: 2 days LATER than: BG 006

Plant height: 53.4 cm, which is 2.5 cm Shorter than BG 006

Physiological or Biochemical Traits: This is a naked, shrunken endosperm barley with high beta-glucan content.

Variants and Frequency: BG 104 may contain a hulled or long awned variant at frequencies of up to 18/10000 seed (0.18%). No other variants are known to occur and BG 104 is a stable and uniform variety.

6. Highland Specialty Grains will maintain Breeder seed by planting head rows when necessary. The certified classes of seed shall be: Foundation Registered, and Certified.
7. Certified seed will be contracted for sale in spring of 2016.
8. Application for PVP is anticipated with the option that BG 104 can be sold by variety name only.
9. Certified seed production acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 23, 2014 Date recommended by the VRB: Aug 06, 2014



Triticale
SY TF 131
05tf131d (Exp)
(Amended –Description Change)

Variety Name SY TF 131
 Experimental Designation(s) 05tf131d
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
 Date amendment submitted June 30, 2014
 Date recommended by the NVRB August 06, 2014

1. SY TF 131 is a tall semi-dwarf cultivar of winter triticale developed by Syngenta Seeds, Inc.
2. SY TF 131 was selected for its shorter stature, earlier maturity, substantially higher grain yields and vegetative biomass production ability.
3. SY TF 131 is best adapted to Southwest Oklahoma, the Rolling Plains of Texas and the Texas Cross Timbers Regions.
4. SY TF 131 possesses leaf rust tolerance, is moderately susceptible to stripe rust, and moderately resistant to stem rust.
5. Identifying characteristics –

1. Ploidy	<u>Hexaploid</u>	15. Awn Color:	<u>Yellow</u>
2. Growth Habit:	<u>Winter</u>	16. Glume Pubescence:	<u>Glabrous</u>
3. Photoperiod Reaction:	<u>(no data)</u>	17. Glume Color:	<u>White</u>
4. Winterhardiness:	<u>Medium</u>	18. Glume Length:	<u>Long</u>
5. Maturity:	<u>Early</u>	19. Glume Width:	<u>Narrow</u>
6. Height:	<u>Tall Semi-Dwarf</u>	20. Glume Shoulder Shape:	<u>Wanting</u>
7. Plant Color at Boot Stage:	<u>Blue-Green</u>	21. Glume Beak Shape:	<u>Acute</u>
8. Stem Anthocyanin:	<u>Absent</u>	22. Coleoptile Color:	<u>Purple</u>
9. Neck Hairiness:	<u>None</u>	23. Seed Shape:	<u>Elliptical</u>
10. Neck Shape:	<u>Wavy</u>	24. Seed Smoothness:	<u>Slightly Wrinkled</u>
11. Flag Leaf at Boot:	<u>Twisted</u>	25. Seed Brush Area:	<u>Mid-Size</u>
12. Spike Density:	<u>Mid-Dense</u>	26. Seed Brush Length:	<u>Mid-Long</u>
13. Spike Shape:	<u>Clavate</u>	27. Seed Color:	<u>Red</u>
14. Spike Awnedness:	<u>Apically Awnletted</u>	28. Seed Relative Size:	<u>Medium</u>

Unique Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.07% of the plants were rogued from the Breeder seed. Approximately 91% of the rogued variant plants were taller height and the other variants were awned. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Limited amounts of certified seed may be available in the fall of 2015.
8. Plant Variety Protection is anticipated in 2014.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014



Triticale
SY TF 813
08TF13 (Exp)
(Amended –Description Change)

Variety Name SY TF 813
 Experimental Designation(s) 08TF13
 Date NA&MLVRB first accepted this variety April 04, 2014
 Date(s) previous amendments were accepted N/A
Date amendment submitted June 30, 2014
Date recommended by the NVRB August 06, 2014

1. SY TF 813 is a tall semi-dwarf cultivar of winter triticale developed by Syngenta Seeds, Inc.
2. SY TF 813 was selected for its earlier maturity, productivity, substantially higher grain yields, vegetative biomass production ability and silage harvests.
3. SY TF 813 is best adapted to silage and grazing production systems in the Texas Rolling Plains and the Texas Panhandle. SY TF 813 is sufficiently winter hardy to withstand the cold temperatures characteristic of the Texas Panhandle and western Kansas.
4. SY TF 813 possesses leaf rust tolerance and is moderately resistant to stripe rust.
5. Identifying characteristics –

1. Ploidy	<u>Hexaploid</u>	15. Awn Color:	<u>White</u>
2. Growth Habit:	<u>Winter</u>	16. Glume Pubescence:	<u>Slight Pubescent</u>
3. Photoperiod Reaction:	<u>(no data)</u>	17. Glume Color:	<u>White</u>
4. Winterhardiness:	<u>Medium High</u>	18. Glume Length:	<u>Long</u>
5. Maturity:	<u>Early</u>	19. Glume Width:	<u>Narrow</u>
6. Height:	<u>Semi-Dwarf</u>	20. Glume Shoulder Shape:	<u>Wanting</u>
7. Plant Color at Boot Stage:	<u>Green</u>	21. Glume Beak Shape:	<u>Acute</u>
8. Stem Anthocyanin:	<u>Absent</u>	22. Coleoptile Color:	<u>White</u>
9. Neck Hairiness:	<u>Moderate</u>	23. Seed Shape:	<u>Elliptical</u>
10. Neck Shape:	<u>Wavy</u>	24. Seed Smoothness:	<u>Slightly Wrinkled</u>
11. Flag Leaf at Boot:	<u>Twisted, Waxy Bloom</u>	25. Seed Brush Area:	<u>Mid-Size</u>
12. Spike Density:	<u>Mid-Dense</u>	26. Seed Brush Length:	<u>Mid-Long</u>
13. Spike Shape:	<u>Clavate</u>	27. Seed Color:	<u>Red</u>
14. Spike Awnedness:	<u>Awnletted</u>	28. Seed Relative Size:	<u>Medium-Large</u>

Unique Physiological/Biochemical Traits:

Variants and Frequency: Less than 0.2% of the plants were rogued from the Breeder seed. Approximately 50% of the rogued variant plants were taller height and the other variants were awned. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, Inc. will maintain the variety by the head row method to produce breeder seed if needed.
7. Limited amounts of certified seed may be available in the fall of 2015.
8. Plant Variety Protection is anticipated in 2014.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jun 30, 2014 Date recommended by the VRB: Aug 06, 2014

