

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



ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

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ASSOCIATION OF OFFICIAL SEED CERTIFYING AGENCIES

April 2021

The Association of Official Seed Certifying Agencies (AOSCA), Small Grain Variety Review Board (SGVRB), reviewed the following varieties on April 8, 2021. 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 Small Grain Variety Review Board by the applicants. The Small Grain Variety Review Board makes judgments regarding recommendation of varieties for inclusion into certification based on the data supplied. Beyond that, the 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 Small Grain Variety Review Board can be obtained from:

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Respectfully submitted,

Lauren Port, Chairman
Small Grains Variety Review Board

2021 AOSCA SMALL GRAIN VARIETY REVIEW BOARD

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Wheat

TA19LW009 TA19LW009 (Exp)

1. TA19LW009 is a male-sterile hard red winter wheat A-Line developed by BASF for use in the production of commercial hybrid seed.
2. TA19LW009 was selected for its adaptation to the hard red winter wheat region of the US and for its expression of yield heterosis when hybridized to the appropriate R-Line male. It expresses acceptable milling and excellent baking quality for the hard red winter wheat class. TA19LW009 was developed using a backcrossing process. The initial cross with the recurrent male parent was made to a regionally adapted hard red winter wheat breeding line with male-sterile cytoplasm. Additional generations were produced by backcrossing the recurrent male parent with the male-sterile progeny produced in the prior generation.
3. TA19LW009 was selected for the purpose of expressing maximum heterosis for yield and other agronomic traits when combined with the appropriate R-Line male.
4. No claims for the line regarding its disease/pest resistance are made at this time.
5. Identifying characteristics -

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	White/Amber
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	White
5. Leaf Color at Boot:	Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Erect	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	133 after Jan 1	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):	95	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Nodding	29. Avg 1,000 Kernel Wt (grams):	32

30. Physiological/Biochemical Traits:

Variants and Frequency: True variants that may occur include either taller plants or red-chaff plants at a frequency of 1%.

6. Recognized classes of TA19LW009 are Breeder, Foundation, and Certified seed. Certified seed will be grown from Foundation seed by designated BASF associates utilizing appropriately isolated A and B-Line field production blocks to maintain genetic integrity and purity, and seedlots will be separately maintained to prevent commingling of B-Line with A-Line seed after harvest and during seed processing. No royalty fees or licensing agreements are anticipated.
7. Certified seed of TA19LW009 will likely be available for planting in fall 2022.
8. Application for PVP is anticipated with the option that TA19LW009 can be sold by variety name only as a class of Certified seed.
9. Seed certification acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: Apr 21, 2021



Wheat

TA19LW011 TA19LW011 (Exp)

1. TA19LW011 is a male-sterile hard red winter wheat A-Line developed by BASF for use in the production of commercial hybrid seed.
2. TA19LW011 was selected for its adaptation to the hard red winter wheat region of the US and for its expression of yield heterosis when hybridized to the appropriate R-Line male. It expresses acceptable milling and excellent baking quality for the hard red winter wheat class. TA19LW011 was developed using a backcrossing process. The initial cross with the recurrent male parent was made to a regionally adapted hard red winter wheat breeding line with male-sterile cytoplasm. Additional generations were produced by backcrossing the recurrent male parent with the male-sterile progeny produced in the prior generation.
3. TA19LW011 was selected for the purpose of expressing maximum heterosis for yield and other agronomic traits when combined with the appropriate R-Line male.
4. No claims for the line regarding its disease/pest resistance are made at this time.
5. Identifying characteristics -

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	Brown
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	Bronze
5. Leaf Color at Boot:	Yellow-Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Re-curved	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Wide
8. Day(s) to 50% Heading:	134 after Jan 1	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):	97	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Nodding	29. Avg 1,000 Kernel Wt (grams):	31

30. Physiological/Biochemical Traits:

Variants and Frequency: True variants that may occur include either taller plants or white-chaff plants at a frequency of 1%.

6. Recognized classes of TA19LW0011 are Breeder, Foundation, and Certified seed. Certified seed will be grown from Foundation seed by designated BASF associates utilizing appropriately isolated A and B-Line field production blocks to maintain genetic integrity and purity, and seedlots will be separately maintained to prevent commingling of B-Line with A-Line seed after harvest and during seed processing. No royalty fees or licensing agreements are anticipated.
7. Certified seed of TA19LW011 will likely be available for planting in fall 2022.
8. Application for PVP is anticipated with the option that TA19LW011 can be sold by variety name only as a class of Certified seed.
9. Seed certification acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: Apr 21 , 2021



Wheat

TB19LW309 TB19LW309 (Exp)

1. TB19LW309 is a male-fertile hard red winter wheat B-Line developed by BASF for use in the production of A-Line seed for commercial hybrid production.
2. TB19LW309 was developed using a modified pedigree breeding method. Individual spikes (heads) were selected from the original cross population, and the line was derived from a single bulked headrow at the F₄ or F₅ generation.
3. TB19LW309 was tested for per se yield, regional adaptation, and agronomic performance across locations in NE, KS, and OK. Its selection as a B-Line was for the purpose of developing its complementary A-Line and for its ability to optimize A-Line seed production as a maintainer.
4. No claims for the line regarding its disease/pest resistance are made at this time.
5. Identifying characteristics -

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	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	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	133 after Jan 1	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):	95	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Nodding	29. Avg 1,000 Kernel Wt (grams):	30

30. Physiological/Biochemical Traits:

Variants and Frequency: True variants that may occur include either taller plants or red-chaff plants at a frequency of 1%.

6. Recognized classes of TB19LW309 are Breeder, Foundation, and Certified seed. Certified seed will be grown from Foundation seed by designated BASF associates utilizing appropriately isolated B-Line production fields to maintain genetic integrity and purity, and seedlots will be separately maintained to prevent commingling of B-Line with A-Line seed after harvest and during seed processing. No royalty fees or licensing agreements are anticipated.
7. Certified seed of TB19LW309 will likely be available for planting in fall 2022.
8. Application for PVP is anticipated with the option that TB19LW309 can be sold by variety name only as a class of Certified seed.
9. Seed certification acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: Apr 21, 2021



Wheat

TB19LW311 TB19LW311 (Exp)

1. TB19LW311 is a male-fertile hard red winter wheat B-Line developed by BASF for use in the production of A-Line seed for commercial hybrid seed production.
2. TB19LW311 was developed using a modified pedigree breeding method. Individual spikes (heads) were selected from the original cross population, and the line was derived from a single bulked headrow at the F₄ or F₅ generation.
3. TB19LW311 was tested for per se yield, regional adaptation, and agronomic performance across locations in NE, KS, and OK. Its selection as a B-Line was for the purpose of developing its complementary A-Line and for its ability to optimize A-Line seed production as a maintainer.
4. No claims for the line regarding its disease/pest resistance are made at this time.
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>Brown</u>
4. Juvenile Growth Habit:	<u>Semi-Erect</u>	18. Glume Color:	<u>Bronze</u>
5. Leaf Color at Boot:	<u>Yellow-Green</u>	19. Glume Length:	<u>Long</u>
6. Flag Leaf at Boot:	<u>Re-curved</u>	20. Shoulder Shape:	<u>Square</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Wide</u>
8. Day(s) to 50% Heading:	<u>134 after Jan 1</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>VL</u>
10. Anthoncyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>97</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>Angular</u>
14. Spike Density:	<u>Mid-dense</u>	28. Brush Size (S,M,L.):	<u>S</u>
15. Spike Curvature:	<u>Nodding</u>	29. Avg 1,000 Kernel Wt (grams):	<u>27</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: True variants that may occur include either taller plants or white-chaff plants at a frequency of 1%.

6. Recognized classes of TB19LW311 are Breeder, Foundation, and Certified seed. Certified seed will be grown from Foundation seed by designated BASF associates utilizing appropriately isolated B-Line production fields to maintain genetic integrity and purity, and seedlots will be separately maintained to prevent commingling of B-Line with A-Line seed after harvest and during seed processing. No royalty fees or licensing agreements are anticipated.
7. Certified seed of TB19LW311 will likely be available for planting in fall 2022.
8. Application for PVP is anticipated with the option that TB19LW311 can be sold by variety name only as a class of Certified seed.
9. Seed certification acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: Apr 8, 2021



Wheat

TR19LW613 D17Q2x0300.XRHRf, D16Q4x163.XRHRf (Exp)

1. TR19LW613 is a hard red winter wheat developed by BASF Corporation.
2. TR19LW613 is a marker-assisted backcross derivative of an experimental line and was selected for fertility restoration.
3. Fertility restoration of *T. timopheevi* cytoplasm by TR19LW613 during back-crossing generations was documented.
4. No claims about pest or disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat	16. Awn Type:	Awned
2. Seasonal Growth Habit:	Winter	17. Awn Color:	White
3. Coleoptile Color:	White	18. Glume Color:	White/Amber
4. Juvenile Growth Habit:	Semi-erect	19. Glume Length:	Medium
5. Leaf Color at Boot:	Green	20. Shoulder Shape:	Oblique
6. Flag Leaf at Boot:	Erect, Not Twisted Nor Waxed	21. Shoulder Width:	Medium
7. Auricle Color:	White	22. Beak Shape:	Obtuse
8. Day(s) to 50% Heading:	141	23. Beak Length (S,M,L,VL):	Long
9. Anther Color:	Yellow	24. Glume Pubescence:	Glabrous
10. Anthocyanin:	Absent	25. Seed Color:	Red
11. Plant Height (cm):	96	26. Seed Shape:	Elliptical
12. Internodes:	Hollow	27. Cheeks:	Angular
13. Spike Shape:	Tapering	28. Brush Size (S,M,L.):	Short
14. Spike Density:	Mid-dense	29. Avg 1,000 Kernel Wt (grams):	32 g per 1000
15. Spike Curvature:	Nodding		
30. Physiological/Biochemical Traits:	Ppd_D1_sensitive, Rht-B1_b, Glu-D1_5+10, Pina-D1_a, Pinb-D1_b, Sbm1_Pos		

Variants and Frequency: Talls <1%

6. Recognized classes of TR19LW613 are breeder, foundation, and certified. BASF Corporation will maintain the variety by producing new seed bulks with isolation from potential pollen contamination by cross-compatible species, by using proper rotation, and by prevention of co-mingling of seedlots.
7. Certified seed of TR19LW613 will likely be available for planting in fall of 2022.
8. Application for PVP is anticipated with the option that TR19LW613 can be sold by variety name to either be the male line to produce hybrid wheat or as a certified open pollinated wheat line.
9. Seed certification acreage is not to be published by AOSCA and individual certifying organizations.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: May 18, 2021



Wheat

TR19LW614 L17Q40011M (Exp)

1. TR19LW614 is a hard red winter wheat developed by BASF Corporation.
2. TR19LW614 is a marker-assisted backcross derivative of an experimental line and was selected for fertility restoration.
3. Fertility restoration of T. timopheevi cytoplasm by TR19LW614 of was documented during inbreeding generations.
4. No claims about pest or disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Re-curved, Not Twisted Nor Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	141	22. Beak Shape:	Acute
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Medium
10. Anthocyanin:	Present	24. Glume Pubescence:	Glabrous
11. Plant Height (cm):	98	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Elliptical
13. Spike Shape:	Tapering	27. Cheeks:	Angular
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Nodding	29. Avg 1,000 Kernel Wt (grams):	33
30. Physiological/Biochemical Traits:	Ppd_D1_sensitive, Rht-B1_b, Glu-D1_5+10, Pina-D1_a, Pinb-D1_b, Lr37-Yr17-Sr38_Pos, Sbm1_Pos		

Variants and Frequency: Talls < 5%

6. Recognized classes of TR19LW614 are breeder, foundation, and certified. BASF Corporation will maintain the variety by producing new seed bulks with isolation from potential pollen contamination by cross-compatible species, by using proper rotation, and by prevention of co-mingling of seedlots.
7. Certified seed of TR19LW614 will likely be available for planting in fall of 2022.
8. Application for PVP is anticipated with the option that TR19LW614 can be sold by variety name to either be the male line to produce hybrid wheat or as a certified open pollinated wheat line.
9. Seed certification acreage is not to be published by AOSCA and individual certifying organizations.

Date this application was submitted: Dec 28, 2020

Date recommended by the VRB: May 18, 2021



Wheat

0433004 XD4101 (Exp)

1. 0433004 is a hard red winter wheat developed by Bayer Crop Science.
2. In early generations of 0433004, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. 0433004 is adapted to the hard red winter wheat growing regions of Kansas, Oklahoma & Texas.
4. No claims about disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	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, Twisted, Wax Present	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Wide
8. Day(s) to 50% Heading:	153	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Present	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	79	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to 0433004 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to 0433004 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of 0433004 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the fall of 2021.
8. Application for PVP is anticipated with the option that 0433004 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

0455062 XD4204 (Exp)

1. 0455062 is a hard red winter wheat developed by Bayer Crop Science.
2. In early generations of 0455062, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. 0455062 is adapted to the hard red winter wheat growing regions of North Dakota.
4. No claims about disease resistance are made at this time.

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>Semi-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>Recurved, Twisted, Wax Present</u>	20. Shoulder Shape:	<u>Square</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Wide</u>
8. Day(s) to 50% Heading:	<u>186</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthoncyanin:	<u>Present</u>	24. Glume Pubescence:	<u>Absent (Glabrous)</u>
11. Plant Height (cm):	<u>89</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>Medium</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to 0455062 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to 0455062 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of 0455062 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the fall of 2021.
8. Application for PVP is anticipated with the option that 0455062 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

0954704 XD9306 (Exp)

1. 0954704 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of 0954704, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. 0954704 is adapted to the hard red spring wheat growing regions of Montana and North Dakota.
4. No claims about disease resistance are made at this time.
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:	Erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Short
6. Flag Leaf at Boot:	Recurved, Twisted, Waxed	20. Shoulder Shape:	Square
7. Auricle Color:	Purple	21. Shoulder Width:	Wide
8. Day(s) to 50% Heading:	51	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	70	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to 0954704 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to 0954704 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of 0954704 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2022.
8. Application for PVP is anticipated with the option that 0954704 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

9967006 XC9201 (Exp)

1. 9967006 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of 9967006, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. 9967006 is adapted to the hard red spring wheat growing regions of Montana.
4. No claims about disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
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>Recurved, Twisted, Waxed</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Medium</u>
8. Day(s) to 50% Heading:	<u>50</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthoncyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent (Glabrous)</u>
11. Plant Height (cm):	<u>77</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Semi-solid</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Angular</u>
14. Spike Density:	<u>Lax</u>	28. Brush Size (S,M,L.):	<u>Short</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (grams):	<u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to 9967006 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to 9967006 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of 9967006 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2021.
8. Application for PVP is anticipated with the option that 9967006 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB4510CLP XD4201 (Exp)

1. WB4510CLP is a hard red winter Clearfield® Plus wheat developed by Bayer Crop Science.
2. In early generations of WB4510CLP, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB4510CLP is adapted to the hard red winter wheat growing regions of North Dakota.
4. No claims about disease resistance are made at this time.
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>Semi-erect</u>	18. Glume Color: <u>White/Amber</u>
5. Leaf Color at Boot: <u>Yellow-Green</u>	19. Glume Length: <u>Long</u>
6. Flag Leaf at Boot: <u>Recurved, Twisted, Waxed</u>	20. Shoulder Shape: <u>Oblique</u>
7. Auricle Color: <u>White</u>	21. Shoulder Width: <u>Narrow</u>
8. Day(s) to 50% Heading: <u>189</u>	22. Beak Shape: <u>Acuminate</u>
9. Anther Color: <u>Yellow</u>	23. Beak Length (S,M,L,VL): <u>Long</u>
10. Anthocyanin: <u>Present</u>	24. Glume Pubescence: <u>Absent (Glabrous)</u>
11. Plant Height (cm): <u>89</u>	25. Seed Color: <u>Red</u>
12. Internodes: <u>Hollow</u>	26. Seed Shape: <u>Oval</u>
13. Spike Shape: <u>Tapering</u>	27. Cheeks: <u>Rounded</u>
14. Spike Density: <u>Lax</u>	28. Brush Size (S,M,L.): <u>Medium</u>
15. Spike Curvature: <u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams): <u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB4510CLP but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB4510CLP but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB4510CLP are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the fall of 2021.
8. Application for PVP is anticipated with the option that WB4510CLP can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB4511 XD4401 (Exp)

1. WB4511 is a hard red winter wheat developed by Bayer Crop Science.
2. In early generations of WB4511, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB4511 is adapted to the hard red winter wheat growing regions of Oklahoma & Texas.
4. No claims about disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awnletted
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:	Medium
6. Flag Leaf at Boot:	Erect, Twisted, Not Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	158	22. Beak Shape:	Acute
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Medium
10. Anthocyanin:	Present	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	76	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB4511 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB4511 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB4511 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the fall of 2021.
8. Application for PVP is anticipated with the option that WB4511 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB4619 XD4108 (Exp)

1. WB4619 is a hard red winter wheat developed by Bayer Crop Science.
2. In early generations of WB4619, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB4619 is adapted to the hard red winter wheat growing regions of North Dakota & Montana.
4. No claims about disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	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:	Short
6. Flag Leaf at Boot:	Erect, Twisted, Wax Absent	20. Shoulder Shape:	Wanting
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	187	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Present	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	79	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Long
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB4619 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB4619 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB4619 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the fall of 2021.
8. Application for PVP is anticipated with the option that WB4619 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB6211CLP XD6305 (Exp)

1. WB6211CLP is a soft white spring Clearfield® Plus wheat developed by Bayer Crop Science.
2. In early generations of WB6211CLP, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB6211CLP is adapted to the soft white spring wheat growing regions of the Pacific Northwest.
4. No claims about disease resistance are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Soft White Spring Wheat		
2. Seasonal Growth Habit:	Spring	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	Black
4. Juvenile Growth Habit:	Erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Recurved, Twisted, Wax Present	20. Shoulder Shape:	Oblique
7. Auricle Color:	Purple	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	72	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	85	25. Seed Color:	White
12. Internodes:	Semi-solid	26. Seed Shape:	Ovate
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Lax	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB6211CLP but has red seed occurs at a frequency of up to 0.50% (50 out 10,000 seeds). A variant that is similar to WB6211CLP but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB6211CLP are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2022.
8. Application for PVP is anticipated with the option that WB6211CLP can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB7313 XD9201 (Exp)

1. WB7313 is a hard white spring wheat developed by Bayer Crop Science.
2. In early generations of WB7313, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB7313 is adapted to the hard white spring wheat growing regions of the Pacific Northwest.
4. No claims about disease resistance are made at this time.

5. Identifying characteristics –

1. Kind:	<u>Common, Hard White 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>Elevated</u>
7. Auricle Color:	<u>Purple</u>	21. Shoulder Width:	<u>Medium</u>
8. Day(s) to 50% Heading:	<u>73</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthocyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent (Glabrous)</u>
11. Plant Height (cm):	<u>83</u>	25. Seed Color:	<u>White</u>
12. Internodes:	<u>Semi-solid</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>Short</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB7313 but has red seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB7313 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB7313 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2022.
8. Application for PVP is anticipated with the option that WB7313 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB9215 XC9402 (Exp)

1. WB9215 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of WB9215, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB9215 is adapted to the hard red spring wheat growing regions of California.
4. No claims about disease resistance are made at this time.
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:	Long
6. Flag Leaf at Boot:	Recurved, Twisted, Waxed	20. Shoulder Shape:	Elevated
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	129	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	90	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB9215 but has white seed occurs at a frequency of up to 0.50% (50 out 10,000 seeds). A variant that is similar to WB9215 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB9215 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the winter of 2021.
8. Application for PVP is anticipated with the option that WB9215 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB9303 XC9302 (Exp)

1. WB9303 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of WB9303, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB9303 is adapted to the hard red spring wheat growing regions of the Pacific Northwest.
4. No claims about disease resistance are made at this time.

5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type:	<u>Awned</u>
3. Coleoptile Color:	<u>Red</u>	17. Awn Color:	<u>Black</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>Long</u>
6. Flag Leaf at Boot:	<u>Recurved, Twisted, Waxed</u>	20. Shoulder Shape:	<u>Apiculate</u>
7. Auricle Color:	<u>Purple</u>	21. Shoulder Width:	<u>Narrow</u>
8. Day(s) to 50% Heading:	<u>69</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthocyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent (Glabrous)</u>
11. Plant Height (cm):	<u>85</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Solid</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>Nodding</u>	29. Avg 1,000 Kernel Wt (grams):	<u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB9303 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB9303 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB9303 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2021.
8. Application for PVP is anticipated with the option that WB9303 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB9516 XD9309 (Exp)

1. WB9516 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of WB9516, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB9516 is adapted to the hard red spring wheat growing regions of Montana.
4. No claims about disease resistance are made at this time.
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, Twisted, Waxed</u>	20. Shoulder Shape:	<u>Square</u>
7. Auricle Color:	<u>Purple</u>	21. Shoulder Width:	<u>Wide</u>
8. Day(s) to 50% Heading:	<u>80</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthocyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent (Glabrous)</u>
11. Plant Height (cm):	<u>89</u>	25. Seed Color:	<u>Red</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape:	<u>Oval</u>
13. Spike Shape:	<u>Oblong</u>	27. Cheeks:	<u>Rounded</u>
14. Spike Density:	<u>Lax</u>	28. Brush Size (S,M,L.):	<u>Long</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>48.5</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB9516 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB9516 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB9516 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2022.
8. Application for PVP is anticipated with the option that WB9516 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB9606 XC9205 (Exp)

1. WB9606 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of WB9606, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB9606 is adapted to the hard red spring wheat growing regions of North Dakota and Minnesota.
4. No claims about disease resistance are made at this time.
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:	Erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Recurved, Twisted, Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	Purple	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	51	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	80	25. Seed Color:	Red
12. Internodes:	Semi-solid	26. Seed Shape:	Ovate
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 (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB9606 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB9606 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB9606 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2021.
8. Application for PVP is anticipated with the option that WB9606 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

WB9707 XC9304 (Exp)

1. WB9707 is a hard red spring wheat developed by Bayer Crop Science.
2. In early generations of WB9707, single spikes were selected based on agronomics and disease resistance. Later generations were selected based on yield, quality, and disease resistance.
3. WB9707 is adapted to the hard red spring wheat growing regions of Montana & Southern Idaho.
4. No claims about disease resistance are made at this time.
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:	Black
4. Juvenile Growth Habit:	Erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Blue-Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Recurved, Twisted, Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	Purple	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	71	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent (Glabrous)
11. Plant Height (cm):	87	25. Seed Color:	Red
12. Internodes:	Semi-solid	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (grams):	48.5

30. Physiological/Biochemical Traits:

Variants and Frequency: A variant that is similar to WB9707 but has white seed occurs at a frequency of up to 0.50% (50 out of 10,000 seeds). A variant that is similar to WB9707 but is 15cm to 20cm taller occurs at a frequency of up to 0.2% (20/10,000). A bronze head variant may occur at a frequency of 0.1% (10/10,000). An awnless variant may occur at a frequency of 0.1% (10/10,000).

6. Recognized classes of WB9707 are breeder, foundation, registered, and certified. Bayer Crop Science will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Royalty fees and/ or licensing agreements are anticipated.
7. Commercial seed will likely be ready for sale by the spring of 2021.
8. Application for PVP is anticipated with the option that WB9707 can be sold by variety name only as a class of certified seed.
9. Certified seed production acreage is not to be published by AOSCA and individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat
25R28
XW18Q (Exp)
(Amended – Name Change)

Variety Name 25R28
 Experimental Designation(s) XW18Q
 Date SGVRB first recommended this variety March 24, 2020
 Date(s) any previous amendments were recommended _____
 Date this amendment was submitted January 12, 2021

1. 25R28 (XW18Q) is a soft red winter wheat developed by Corteva Agrisciences.
2. The cultivar 25R28 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.
3. 25R28 has shown best adaptation to the northern soft wheat growing regions of the U.S.
4. 25R28 is moderately resistant to fusarium head blight based on two years of data and moderately resistant to soilborne mosaic virus and stripe rust based on a single year of field data.
5. 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>Semi-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>Re-curved, Twisted, Wax Present</u>	20. Shoulder Shape: <u>Oblique</u>
7. Auricle Color:	<u>Purple</u>	21. Shoulder Width: <u>Narrow</u>
8. Day(s) to 50% Heading:	<u>131</u>	22. Beak Shape: <u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL): <u>Short</u>
10. Anthoncyanin:	<u>Absent</u>	24. Glume Pubescence: <u>Absent</u>
11. Plant Height (cm):	<u>88</u>	25. Seed Color: <u>Amber</u>
12. Internodes:	<u>Hallow</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 (grams): <u>40</u>

30. Physiological/biochemical Traits: Phenol color – dark brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agrisciences Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agrisciences Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 25R28 will potentially first be offered for sale in the fall of 2021.
8. Plant variety protection application is anticipated in 2020 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 12, 2021

Date recommended by the VRB: Apr 8, 2021



Wheat

25R76

XW18R (Exp)

(Amended – Name Change)

Variety Name 25R76

Experimental Designation(s) XW18R

Date SGVRB first recommended this variety March 24, 2020

Date(s) any previous amendments were recommended _____

Date this amendment was submitted January 12, 2021

1. 25R76 (XW18R) is a soft red winter wheat developed by Corteva Agrisciences.
2. The cultivar 25R76 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.
3. 25R76 has shown best adaptation to the northern soft wheat growing regions of the U.S.
4. 25R76 has high level of resistance to soilborne mosaic virus and intermediate resistance to stripe rust and fusarium head blight.
5. 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>Red</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>Rounded</u>
7. Auricle Color:	<u>Purple</u>	21. Shoulder Width:	<u>Medium</u>
8. Day(s) to 50% Heading:	<u>128</u>	22. Beak Shape:	<u>Acute</u>
9. Anther Color:	<u>Purple</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>89</u>	25. Seed Color:	<u>Amber</u>
12. Internodes:	<u>Hallow</u>	26. Seed Shape:	<u>Ovate</u>
13. Spike Shape:	<u>Tapering</u>	27. Cheeks:	<u>Angular</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 (grams):	<u>37</u>

30. Physiological/biochemical Traits: Phenol color – dark brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agrisciences Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agrisciences Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 25R76 will potentially first be offered for sale in the fall of 2021.
8. Plant variety protection application is anticipated in 2020 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan12, 2021

Date recommended by the VRB: Apr 8, 2021



Wheat
25W37
XW18Y (Exp)
(Amended – Name Change)

Variety Name 25W37
 Experimental Designation(s) XW18Y
 Date SGVRB first recommended this variety March 24, 2020
 Date(s) any previous amendments were recommended _____
 Date this amendment was submitted January 12, 2021

1. 25W37 (XW18Y) is a soft white winter wheat developed by Corteva Agrisciences.
2. The cultivar 25W37 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight, and milling and baking characteristics.
3. 25W37 has shown best adaptation to the northern soft wheat growing regions of the U.S.
4. 25W37 has an intermediate level of resistance to fusarium head blight based on two year of field evaluations.
5. Identifying characteristics –

1. Kind:	<u>Common, Soft 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>Tan</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>Narrow</u>
8. Day(s) to 50% Heading:	<u>130</u>	22. Beak Shape: <u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL): <u>Short</u>
10. Anthocyanin:	<u>Absent</u>	24. Glume Pubescence: <u>Absent</u>
11. Plant Height (cm):	<u>91</u>	25. Seed Color: <u>White</u>
12. Internodes:	<u>Hallow</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 (grams): <u>35</u>

30. Physiological/biochemical Traits: Phenol color – dark brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agrisciences Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agrisciences Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 25W37 will potentially first be offered for sale in the fall of 2021.
8. Plant variety protection application is anticipated in 2020 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 12, 2021

Date recommended by the VRB: Apr 8, 2021



Wheat

6035BR05-01 (Exp)

1. 6035BR05-01 is a soft red winter wheat developed by Corteva Agriscience.
2. The cultivar 6035BR05-01 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, and test weight.
3. 6035BR05-01 has shown best adaptation to the northern soft wheat growing regions of the U.S. based on yield trials conducted in Illinois, Indiana, Missouri, and Ohio.
4. 6035BR05-01 is moderately resistant to fusarium head blight and resistant to soilborne mosaic virus based on two years of field data.

5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect / Not-Twisted/ Not Waxed	20. Shoulder Shape:	Wanting
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	135	22. Beak Shape:	Acuminate
9. Anther Color:	Purple	23. Beak Length (S,M,L,VL):	Short
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	91	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (grams):	40

30. Physiological/biochemical Traits: Phenol color – Fawn

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agriscience Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agriscience Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 6035BR05-01 will potentially first be offered for sale in the fall of 2022.
8. Plant variety protection application is anticipated in 2021 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

6035BR06-01 (Exp)

1. 6035BR06-01 is a soft red winter wheat developed by Corteva Agriscience.
2. The cultivar 6035BR06-01 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, and test weight.
3. 6035BR06-01 has shown best adaptation to the northern soft wheat growing regions of the U.S. based on yield trials conducted in Illinois, Indiana, Missouri, and Ohio.
4. 6035BR06-01 is moderately resistant to fusarium head blight and stripe rust, and resistant to soilborne mosaic virus based on two years of field data. Stripe rust was only observed in the yield trials in the second year of testing (2019-2020), therefore ratings for this disease are based on a single year of data.
5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect / Not-Twisted/ Not Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	Purple	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	136	22. Beak Shape:	Acuminate
9. Anther Color:	Purple	23. Beak Length (S,M,L,VL):	Short
10. Anthoncyanin:	Present	24. Glume Pubescence:	Absent
11. Plant Height (cm):	89	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	37

30. Physiological/biochemical Traits: Phenol color – light brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agriscience Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agriscience Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 6035BR06-01 will potentially first be offered for sale in the fall of 2022.
8. Plant variety protection application is anticipated in 2021 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

6035BR07-01 (Exp)

1. 6035BR07-01 is a soft red winter wheat developed by Corteva Agriscience.
2. The cultivar 6035BR07-01 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, and test weight.
3. 6035BR07-01 has shown best adaptation to the northern soft wheat growing regions of the U.S. based on yield trials conducted in Illinois, Indiana, Missouri, and Ohio.
4. 6035BR07-01 is moderately resistant to fusarium head blight, resistant to soilborne mosaic virus based on two years of field data, and moderately susceptible to stripe rust. However, stripe rust was only observed in the yield trials in the second year of testing (2019-2020), therefore ratings for this disease are based on a single year of data.

5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect / Not-Twisted/ Not Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	Purple	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	134	22. Beak Shape:	Acuminate
9. Anther Color:	Purple	23. Beak Length (S,M,L,VL):	Short
10. Anthocyanin:	Present	24. Glume Pubescence:	Absent
11. Plant Height (cm):	91	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	36

30. Physiological/biochemical Traits: Phenol color – light brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agriscience Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agriscience Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 6035BR07-01 will potentially first be offered for sale in the fall of 2022.
8. Plant variety protection application is anticipated in 2021 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

6035BR08-01 (Exp)

1. 6035BR08-01 is a soft red winter wheat developed by Corteva Agriscience.
2. The cultivar 6035BR08-01 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, and test weight.
3. 6035BR08-01 has shown best adaptation to the northern soft wheat growing regions of the U.S. based on yield trials conducted in Illinois, Indiana, Missouri, and Ohio.
4. 6035BR08-01 is moderately resistant to soilborne mosaic virus and fusarium head blight, and moderately susceptible to stripe rust. However, stripe rust was only observed in the yield trials in the second year of testing (2019-2020), therefore ratings for this disease are based on a single year of data.
5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect / Not-Twisted/ Not Waxed	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	132	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Short
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	88	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	37

30. Physiological/biochemical Traits: Phenol color – dark brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agriscience Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agriscience Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 6035BR08-01 will potentially first be offered for sale in the fall of 2022.
8. Plant variety protection application is anticipated in 2021 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

6035BR09-01 (Exp)

1. 6035BR09-01 is a soft red winter wheat developed by Corteva Agriscience.
2. The cultivar 6035BR09-01 was bred and selected using a modified pedigree selection method for the following characteristics in the field environment: disease resistance, plant type, plant height, head type, straw strength, maturity, grain yield, test weight.
3. 6035BR09-01 has shown best adaptation to the southern soft wheat growing regions of the U.S. based on yield trials conducted in Illinois, Indiana, Missouri, Kentucky, and Tennessee.
4. 6035BR09-01 is moderately resistant to fusarium head based on two years of data from multiple locations. It has shown resistance to Hessian fly and soilborne mosaic virus and being moderately susceptible to leaf rust based on a single year of data.

5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	Red	17. Awn Color:	Tan
4. Juvenile Growth Habit:	Semi-Erect	18. Glume Color:	Tan
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Re-curved / Not-Twisted/ Not Waxed	20. Shoulder Shape:	Wanting
7. Auricle Color:	Purple	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	131	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Short
10. Anthoncyanin:	Present	24. Glume Pubescence:	Absent
11. Plant Height (cm):	86	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid-dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	35

30. Physiological/biochemical Traits: Phenol color – dark brown

Variants and frequency: Awnless and/or taller plants may occur at a frequency up to 0.1% (10/10,000).

6. Breeder, foundation, and registered seed classes will be maintained and controlled by the Corteva Agriscience Integrated Operations department. Foundation seed will initially be produced from breeders' seed, and thereafter foundation seed will be produced from foundation seed: maintaining the specific identity and purity of the variety as released. Registered seed will be grown from foundation or breeder seed and maintained at a purity level satisfactory to Corteva Agriscience Integrated Operations or the appropriate certifying agency. No royalty fees or licensing agreements are anticipated.
7. Certified seed of 6035BR09-01 will potentially first be offered for sale in the fall of 2022.
8. Plant variety protection application is anticipated in 2021 and the certification option will not be elected.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: May 18, 2021



Wheat

GP 448

B16#12-9448 (Exp)

1. B16#12-9448 is a soft red winter wheat developed by Grow Pro Genetics LLC.
2. B16#12-9448 was selected for yield, early maturity, test weight and broad adaptation.
3. B16#12-9448 is a awnless variety primarily adapted to Virginia, North Carolina, South Carolina, Tennessee, and Kentucky.
4. B16#12-9448 exhibits above average resistance to barley yellow dwarf virus based on marker presence and one year of field testing.

5. Identifying characteristics –

1. Kind:	Common, Soft Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awnless
3. Coleoptile Color:	White	17. Awn Color:	N/A
4. Juvenile Growth Habit:	Semi-erect	18. Glume Color:	White/Amber
5. Leaf Color at Boot:	Blue Green	19. Glume Length:	Long
6. Flag Leaf at Boot:	Erect	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	114	22. Beak Shape:	Acute
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	X
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	84	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	X
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Lax	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	43

30. Physiological/Biochemical Traits:

Variants and Frequency: Up to 1% variant plants may be encountered in subsequent generations. These may include tall (>3 inches) and awned plants.

6. Grow Pro Genetics LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Grow Pro Genetics LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified Seed Will likely be available Fall of 2021.
8. Plant Variety Protection is anticipated in 2022. 122015W may only be sold as a class of certified seed.
9. Certified acreage is not published by AOSCA or by individual certifying agencies.

Date this application was submitted: Feb 21, 2021

Date recommended by the VRB: May 27, 2021



Wheat

KS Hamilton KS15H137-2-2 (Exp)

1. KS Hamilton is a hard red winter wheat variety. It is developed by Dr. Guorong Zhang at the Agricultural Research Center-Hays, Kansas State University.
2. KS Hamilton was selected for test weight, grain yield, baking quality, disease resistance (WSMV, stripe rust, leaf rust, stem rust, SBMV, Hessian fly), and other agronomic traits (PPO, coleoptile length, grain shattering, lodging, winter hardiness, maturity) using the modified bulk method.
3. KS Hamilton was extensively tested in Kansas and is adapted to the dryland production system in western Kansas.
4. KS Hamilton is resistant to wheat streak mosaic virus, stem rust, soilborne mosaic virus, and Hessian fly.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Winter Wheat	
2. Seasonal Growth Habit:	Winter	16. Awn Type: Awned
3. Coleoptile Color:	White	17. Awn Color: White
4. Juvenile Growth Habit:	Prostrate	18. Glume Color: White/Amber
5. Leaf Color at Boot:	Green	19. Glume Length: Medium
6. Flag Leaf at Boot:	Erect, Twisted, Wax Absent	20. Shoulder Shape: Elevated
7. Auricle Color:	White	21. Shoulder Width: Medium
8. Day(s) to 50% Heading:	128.9	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):	83	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.): M
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams): 31.5

30. Physiological/biochemical Traits: NA

Variants and frequency: Slightly taller plants that occur at a frequency of less than 1 in 100 plants;
White seeded plants that occur at a frequency of less than 5 in 1000 plants.

6. Recognized classes are breeder, foundation, registered, and certified seed. Kansas State University will maintain its purity by the head-row method to produce breeder seed as needed.
7. Certified seed will be available for planting in the fall of 2020.
8. An application will be submitted for protection under the U.S. Plant Variety Protection Act and the “Certification Option” will be elected (to be sold by variety name only as a class of certified seed).
9. Certified seed production acreage may be published by AOSCA and certifying agencies.

Date this application was submitted: Aug 5, 2020

Date recommended by the VRB: Apr 21, 2021



Wheat

Rocker BZ917-277 (Exp)

1. Rocker, exp. # BZ917-277, is a hard red spring wheat developed by Nutrien Ag Solutions.
2. Using the pedigree system of breeding, Rocker was selected for yield, end use quality and tolerance to the Wheat Stem Sawfly.
3. Rocker is a hard red spring wheat that was tested in Montana and is well adapted to the Wheat Stem Sawfly areas of Montana.
4. Rocker is tolerant to the Wheat Stem Sawfly.
5. Identifying characteristics –

1. Kind:	Common, Hard Red Spring Wheat		
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type:	<u>Awne</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>Recurved, Twisted, Not Waxed</u>	20. Shoulder Shape:	<u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Narrow</u>
8. Day(s) to 50% Heading:	<u>186</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthoncyanin:	<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>Semi-Solid</u>	26. Seed Shape:	<u>Oval</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>Long</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>33</u>

30. Physiological/Biochemical Traits:

Variants and Frequency: A white seed may be found at a frequency of 10/10,000 seeds. An awnless variant may be found at a frequency of 3/10,000 plants, a tall variant (one to two heads taller) may be found at a frequency of 10/10,000 plants and a red chaffed variant may be found at a frequency of 3/10,000 plants

6. Recognized classes of Rocker are breeder, foundation, registered and certified. Nutrien Ag Solutions will maintain the variety by the head-row purification method to produce breeder seed as needed and all foundation seed. Licensing agreements will be made and royalties will be collected by Nutrien Ag Solutions.
7. Certified seed of Rocker will likely be available for planting in the spring of 2022.
8. Application for PVP is anticipated and the Title V option will NOT be chosen.
9. Certified seed production acreage is not to be published by AOSCA and the individual certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: Apr 21, 2021



Wheat

AP Bigfoot 10BC329-17-5 (Exp)

- 10BC329-17-5 is a hard red winter wheat developed by Syngenta Crop Protection AG.
- 10BC329-17-5 was selected for height, maturity and green leaf duration. Selection in future generations was based on yield, disease, and quality. The first year of replicated yield trials was in 2016 at 8 locations.
- Area of adaptation includes Central, Southern, and Western Plains. Advanced and Elite testing was conducted in Colorado, Kansas, Nebraska, Oklahoma, and Texas.
- No claims are made regarding pest resistance.
- Identifying characteristics

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	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:	Medium
6. Flag Leaf at Boot:	Erect-Twisted-Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Narrow
8. Day(s) to 50% Heading:	127	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:	Rounded
14. Spike Density:	Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	34

30. Physiological/Biochemical Traits:

Variants and Frequency: 10BC329-17-5 has been uniform and stable since 2017. Approximately 0.06% of the plants were rogued from the Breeder's seed increase in 2020. Approximately 32% of the rogued variant plants were taller height wheat plants (8 to 15 cm) and 1.5% were awn less and 66.5% were red chaffed. Up to 1.0% variant plants may be encountered in subsequent generations. We also would expect to see up to 1.8% white seed variant in subsequent generations.

- Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
- Certified seed stocks of 10BC329-17-5 will be available in the fall of 2021.
- Plant Variety Protection is anticipated in 2021 and 10BC329-17-5 may only be sold as a class of certified seed.
- Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Jan 6, 2021

Date recommended by the VRB: Apr 29, 2021



Wheat
AP EXCEED
11PN039#20 (Exp)

1. AP EXCEED is a soft white winter wheat developed by Syngenta Crop Protection AG.
2. AP EXCEED (nee 11PN039#20) was selected for height, maturity, appearance, kernel color, kernel soundness, disease reaction and end use quality that originated with a single cross made in December of 2011.
3. AP EXCEED is primarily adapted to intermediate to high rainfall and irrigated production in Eastern Washington and Eastern Oregon. It also has tested very well in irrigated production in southern Idaho.
4. AP EXCEED is an early maturity, medium height variety with above average test weight. It has shown above average resistance to stripe rust and septoria.
5. Identifying characteristics

1. Kind:	Common, Soft White Winter Wheat		
2. Seasonal Growth Habit:	Winter	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-Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	145.8	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthoncyanin:	Absent	24. Glume Pubescence:	Present
11. Plant Height (cm):	88.4	25. Seed Color:	White
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (grams):	51

30. Physiological/Biochemical Traits:

Variants and Frequency: AP Exceed has been uniform and stable since 2015. Less than 0.5% of plants were rogued from the Breeders Seed Increase in 2020. Most of the variant plants were taller (3-10cm). Less than ten percent of the variants were awnless or awnletted. Up to 1.0% variant plants may be encountered in subsequent generations. It can be expected to encounter up to 0.5% red seed in subsequent generations.

6. Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified seed stocks of AP EXCEED will be available in the fall of 2021.
8. Plant Variety Protection is anticipated in 2021 and AP EXCEED 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: Jan 6, 2021

Date recommended by the VRB: Apr 29, 2021



Wheat

AP Gunsmoke CL2 NP11100135-1 CL2 (Exp) (Amended – Name Change)

Variety Name AP Gunsmoke

Experimental Designation(s) NP11100135-1 CL2

Date SGVRB first recommended this variety March 24, 2020

Date(s) any previous amendments were recommended _____

Date this amendment was submitted Nov 4, 2020

1. AP Gunsmoke CL2 (NP11100135-1 CL2) is a hard red spring wheat bred and developed by Syngenta Crop Protection AG
2. AP Gunsmoke CL2 was selected for height, maturity, and herbicide tolerance.
3. AP Gunsmoke CL2 is primarily adapted to the wheat growing areas of North Dakota and Montana.
4. No additional claims.
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>Re-curved, Twisted, Wax Absent</u>	20. Shoulder Shape:	<u>Elevated</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Narrow</u>
8. Day(s) to 50% Heading:	<u>58</u>	22. Beak Shape:	<u>Acuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthoncyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Present</u>
11. Plant Height (cm):	<u>74</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>Short</u>
15. Spike Curvature:	<u>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>31</u>

30. Physiological/biochemical Traits:

Variants and frequency: Variants are taller in height by 8 to 15cm. Up to 1% taller variants may be encountered in subsequent generations

6. Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified seed will likely be available in the Spring of 2022.
8. Plant Variety Protection is anticipated in 2020 and AP Gunsmoke CL2 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: Nov 16, 2020 Date recommended by the VRB: Apr 8, 2021



Wheat

AP Longjack APH15T22412 (Exp)

1. AP Longjack (APH15T22413) is a hard red winter wheat developed by Syngenta Crop Protection AG.
2. The doubled haploid headrow that produced AP Longjack (APH15T22413) was selected for height, maturity, and biomass. Selection in future generations was based on yield, disease, and biomass.
3. Area of adaptation is the Central and Southern Plains. Advanced and Elite testing was conducted in Colorado, Kansas, and Oklahoma in 2019 and 2020.
4. No claims are made regarding pest resistance.
5. Identifying characteristics

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awnless
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-Waxed	20. Shoulder Shape:	Rounded
7. Auricle Color:	White	21. Shoulder Width:	Wide
8. Day(s) to 50% Heading:	131	22. Beak Shape:	Obtuse
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Short
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	88	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	31

30. Physiological/Biochemical Traits:

Variants and Frequency: AP Longjack (APH15T22413) has been uniform and stable since 2017. Approximately 0.08% of the plants were rogued from the Breeder's seed increase in 2020. Approximately 38% of the rogued variant plants were taller height wheat plants (8 to 15 cm) and 48% were awned and 14% were red chaffed. Up to 1.0% variant plants may be encountered in subsequent generations. We also would expect to see up to 1.8% white seed variant in subsequent generations.

6. Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified seed stocks of AP Longjack (APH15T22413) will be available in the fall of 2021.
8. Plant Variety Protection is anticipated in 2021 and AP Longjack (APH15T22413) 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: Jan 6, 2021

Date recommended by the VRB: Apr 29, 2021



Wheat

AP RoadRunner AP14T21619 (Exp) (Amended – Name Change)

Variety Name AP RoadRunner

Experimental Designation(s) AP14T21619

Date SGVRB first recommended this variety March 24, 2020

Date(s) any previous amendments were recommended _____

Date this amendment was submitted Nov 16, 2020

1. AP RoadRunner (AP14T21619) is a hard red winter wheat developed by Syngenta Crop Protection AG.
2. AP RoadRunner was selected for height, maturity, green leaf duration, disease reaction, and end use quality using the modified bulk method.
3. AP RoadRunner was tested in Kansas, Oklahoma, Texas, Colorado and Nebraska and is a well-adapted bread wheat to the irrigated and dryland production areas of the Central Dryland and Western Dry and Irrigated High Plains.
4. AP RoadRunner is moderately resistant to common races in the Central Plains of leaf rust and moderately susceptible to common races of stripe rust in the Central Plains.
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, Wax Present</u>	20. Shoulder Shape: <u>Oblique</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width: <u>Medium</u>
8. Day(s) to 50% Heading:	<u>128.8</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>Present</u>
11. Plant Height (cm):	<u>86.1</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>Long</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (grams): <u>29.76</u>

30. Physiological/biochemical Traits:

Variants and frequency: We also would expect to see up to 1.8% white seed variant. Up to 1% taller variants (8 to 15cm) may be encountered in subsequent generations.

6. Syngenta Seeds, LLC maintains seed stock and certified classes of Foundation, Registered and Certified. Syngenta Seeds, LLC will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified seed will likely be available Fall of 2021.
8. Plant Variety Protection is anticipated in 2020. AP RoadRunner may only be sold as a class of certified seed.
9. Certified acreage is not published by AOSCA or by individual certifying agencies.

Date this application was submitted: Nov 16, 2020 Date recommended by the VRB: Apr 8, 2021



Wheat

AP Smith NP12100559-16 (Exp) (Amended – Name Change)

Variety Name AP Smith

Experimental Designation(s) NP12100559-16

Date SGVRB first recommended this variety September 2nd, 2020

Date(s) any previous amendments were recommended _____

Date this amendment was submitted 11/16/2020

1. AP Smith (NP12100559-16) is a hard red spring wheat developed by Syngenta Crop Protection, LLC.
2. AP Smith was selected for yield, height, lodging resistance, disease resistance and quality.
3. AP Smith was tested in and is broadly adapted in the spring wheat production areas of the Northern Plains.
4. AP Smith has intermediate tolerance to FHB and foliar leaf spotting diseases.
5. Identifying characteristics –

1. Kind:	<u>Common, Hard Red Spring Wheat</u>		
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type:	<u>Awne</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>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. Day(s) to 50% Heading:	<u>59</u>	22. Beak Shape:	<u>Accuminate</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL):	<u>Long</u>
10. Anthocyanin:	<u>Absent</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>78</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>Long</u>
15. Spike Curvature:	<u>Erect</u>	29. Avg 1,000 Kernel Wt (grams):	<u>30.6</u>

30. Physiological/biochemical Traits:

Variants and frequency: Less than 0.8% of the plants were rogued from the pre breeder seed increase at 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/progeny method to produce seed as needed.
7. Certified seed of AP Smith will likely be available for planting in spring of 2022.
8. Application for PVP is anticipated.
9. Certified acreage is not to be published by AOSCA and certifying agencies.

Date this application was submitted: Nov 16, 2020 Date recommended by the VRB: Apr 8, 2021



Wheat

High Country 10BC126-5-15 (Exp)

1. High Country is a hard red winter wheat developed by Syngenta Crop Protection AG.
2. 10BC126-5-15 was selected for height, maturity and green leaf duration. Selection in future generations was based on yield, disease, and quality.
3. Area of adaptation include Central, Southern, and Western Plains. Advanced and Elite testing was conducted in Colorado, Kansas, Nebraska, Oklahoma, and Texas in 2019 and 2020.
4. No claims are made regarding pest resistance.
5. Identifying characteristics

1. Kind:	Common, Hard Red Winter Wheat		
2. Seasonal Growth Habit:	Winter	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:	Blue Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect-Twisted-Waxed	20. Shoulder Shape:	Oblique
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	127	22. Beak Shape:	Acuminate
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Long
10. Anthocyanin:	Absent	24. Glume Pubescence:	Present
11. Plant Height (cm):	85	25. Seed Color:	Red
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Tapering	27. Cheeks:	Rounded
14. Spike Density:	Mid Dense	28. Brush Size (S,M,L.):	Medium
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	34

30. Physiological/Biochemical Traits:

Variants and Frequency: 10BC126-5-15 has been uniform and stable since 2017. Approximately 0.07% of the plants were rogued from the Breeder's seed increase in 2020. Approximately 57.5% of the rogued variant plants were taller height wheat plants (8 to 15 cm) and 1.5% were awn less and 42% were red chaffed. Up to 1.0% variant plants may be encountered in subsequent generations. We also would expect to see up to 1.8% white seed variant in subsequent generations.

6. Polansky Seed, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Polansky Seed, Inc. will maintain the variety at the breeder seed level to produce breeder seed as needed. Royalty fees are anticipated.
7. Certified seed stocks of High Country will be available in the fall of 2021.
8. Plant Variety Protection is anticipated in 2021 and High Country 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: Jan 6, 2021

Date recommended by the VRB: Apr 29, 2021



Wheat

YSC-201

13W-SWW-03958 (Exp)

1. YSC-201 (experimental cultivar 13W-SWW-03958) is a soft white winter wheat developed by Yield Star Cereal Sciences.
2. YSC-201 was selected for yield, phenotypic traits, and resistance to rust, foot and crown rot using the bulk/crossing breeding method.
3. YSC-201 has been tested at 21-site year locations in the Northwest including areas of high rainfall and irrigated wheat production areas of the Columbia Basin and Southern Idaho and Utah. It shows good adaptation to higher rainfall zones of the Pacific Northwest and regions with similar agroecology.
4. No specific disease reaction claims are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Soft White Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awnletted
3. Coleoptile Color:	White	17. Awn Color:	White
4. Juvenile Growth Habit:	Erect	18. Glume Color:	White
5. Leaf Color at Boot:	Blue-green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect, Twisted, Waxy	20. Shoulder Shape:	Square
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	145	22. Beak Shape:	Obtuse
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Medium
10. Anthocyanin:	Absent	24. Glume Pubescence:	Present
11. Plant Height (cm):	90	25. Seed Color:	White
12. Internodes:	Hollow	26. Seed Shape:	Oval
13. Spike Shape:	Oblong	27. Cheeks:	Rounded
14. Spike Density:	Mid-Dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Inclined	29. Avg 1,000 Kernel Wt (grams):	42

30. Physiological/Biochemical Traits: None

Variants and Frequency: A variant that is similar to YSC-201 but has red seed occurs at a frequency of up to .50% (50 out 10,000 seeds). An awnless variant may occur at a frequency of 1% (100/10,000).

6. The breeder, foundation, and registered seed classes will be maintained and controlled by Yield Star Cereal. Foundation seed will be initially produced from breeder seed and thereafter foundation seed will be produced from foundation seed, maintaining the specific identity and purity of the variety as released by the breeding department. Certified seed will be grown from foundation or breeder seed by designated Yield Star Cereals associates. Production of certified seed will be licensed by Yield Star Cereals. There are no trait testing requirements to be met for certified seed classes.
7. If recommended, certified seed of YSC-201 will be offered for sale in the fall of 2021.
8. Application for Plant Variety Protection is intended to be submitted.
9. Certified acreage is to be published by AOSCA or by individual certifying agencies.

Date this application was submitted: Jan 13, 2021

Date recommended by the VRB: May 24, 2021



Wheat

YSC-215 13W-SWW-04511 (Exp)

1. YSC-215 (experimental cultivar 13W-SWW-04511) is a soft white winter wheat (*Triticum aestivum*) developed by Yield Star Cereal Sciences.
2. YSC-215 was selected for yield, phenotypic traits, and resistance to rust, foot and crown rot using bulk/crossing breeding method.
3. YSC-215 has been tested at 21-site year locations in the Northwest including areas of high rainfall and irrigated wheat production areas of the Columbia Basin and Southern Idaho and Utah. It shows good adaptation to higher rainfall zones of the Pacific Northwest and regions with similar agroecology.
4. No specific disease reaction claims are made at this time.
5. Identifying characteristics –

1. Kind:	Common, Soft White Winter Wheat		
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</u>
5. Leaf Color at Boot:	<u>Green</u>	19. Glume Length:	<u>Medium</u>
6. Flag Leaf at Boot:	<u>Erect, Not-Twisted, Waxy</u>	20. Shoulder Shape:	<u>Wanting</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width:	<u>Medium</u>
8. Day(s) to 50% Heading:	<u>150</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 (White)</u>	24. Glume Pubescence:	<u>Absent</u>
11. Plant Height (cm):	<u>88</u>	25. Seed Color:	<u>White</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>Inclined</u>	29. Avg 1,000 Kernel Wt (grams):	<u>38</u>

30. Physiological/Biochemical Traits: None

Variants and Frequency: A variant that is similar to YSC-215 but has red seed occurs at a frequency of up to .50% (50 out 10,000 seeds). An awnless variant may occur at a frequency of 1% (100/10,000).

6. The breeder, foundation, and registered seed classes will be maintained and controlled by Yield Star Cereal. Foundation seed will be initially produced from breeder seed and thereafter foundation seed will be produced from foundation seed, maintaining the specific identity and purity of the variety as released by the breeding department. Certified seed will be grown from foundation or breeder seed by designated Yield Star Cereals associates. Production of certified seed will be licensed by Yield Star Cereals. There are no trait testing requirements to be met for certified seed classes.
7. If recommended, certified seed of YSC-215 will be offered for sale in the Fall of 2021.
8. Application for Plant Variety Protection is intended to be submitted.
9. Certified acreage is to be published by AOSCA or by individual certifying agencies.

Date this application was submitted: Jan 13, 2021

Date recommended by the VRB: May 24, 2021



Wheat

YSC-603 10C-58 (Exp)

1. YSC-603 (experimental cultivar 10C-58) is a soft white spring wheat developed by Yield Star Cereal Sciences.
2. YSC-603 was selected for yield, phenotypic traits and resistance to rust, foot and crown rot using the bulk/crossing breeding method.
3. YSC-603 has been tested at 21-site year locations in the Northwest including areas of high rainfall and irrigated wheat production areas of the Columbia Basin and Southern Idaho and Utah. It shows good adaptation to higher rainfall zones of the Pacific Northwest and regions with similar agroecology.
4. No specific disease reaction claims are made at this time.
5. Identifying characteristics –

	Common, Soft White Spring Wheat	
1. Kind:	<u>Common, Soft White Spring Wheat</u>	
2. Seasonal Growth Habit:	<u>Spring</u>	16. Awn Type: <u>Awnletted</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</u>
5. Leaf Color at Boot:	<u>Blue-Green</u>	19. Glume Length: <u>Medium</u>
6. Flag Leaf at Boot:	<u>No twisted, No Wax</u>	20. Shoulder Shape: <u>Rounded</u>
7. Auricle Color:	<u>White</u>	21. Shoulder Width: <u>Medium</u>
8. Day(s) to 50% Heading:	<u>170</u>	22. Beak Shape: <u>Acute</u>
9. Anther Color:	<u>Yellow</u>	23. Beak Length (S,M,L,VL): <u>Medium</u>
10. Anthoncyanin:	<u>Absent</u>	24. Glume Pubescence: <u>Absent</u>
11. Plant Height (cm):	<u>86</u>	25. Seed Color: <u>White</u>
12. Internodes:	<u>Hollow</u>	26. Seed Shape: <u>Elliptical</u>
13. Spike Shape:	<u>Elliptical</u>	27. Cheeks: <u>Angular</u>
14. Spike Density:	<u>Mid-Dense</u>	28. Brush Size (S,M,L.): <u>Short</u>
15. Spike Curvature:	<u>Nodding</u>	29. Avg 1,000 Kernel Wt (grams): <u>41</u>
30. Physiological/Biochemical Traits:	None	

Variants and Frequency: A variant that is similar to YSC-603 but has red seed occurs at a frequency of up to .85% (85 out 10,000 seeds). An awnless variant may occur at a frequency of 1% (100/10,000).

6. The breeder, foundation, and registered seed classes will be maintained and controlled by Yield Star Cereal. Foundation seed will be initially produced from breeder seed and thereafter foundation seed will be produced from foundation seed, maintaining the specific identity and purity of the variety as released by the breeding department. Certified seed will be grown from foundation or breeder seed by designated Yield Star Cereals associates. Production of certified seed will be licensed by Yield Star Cereals. There are no trait testing requirements to be met for certified seed classes.
7. If recommended certified seed of YSC-603 will be offered for sale in the Spring of 2021.
8. Application for Plant Variety Protection is intended to be submitted.
9. Certified acreage is to be published by AOSCA or by individual certifying agencies.

Date this application was submitted: Jan 13, 2021

Date recommended by the VRB: May 24, 2021



Wheat

YSC-D862 B-12-SWWC-0385 (Exp)

1. YSC-D862 (experimental cultivar B-12-SWWC-0385) is a soft white winter club wheat developed by Yield Star Cereal Science.
2. YSC-D862 was selected for yield, phenotypic traits, and resistance to rust, foot and crown rot using the bulk/crossing breeding method.
3. YSC-D862 has been tested at 24-site year locations in the Northwest including areas of high rainfall and irrigated wheat production areas of the Columbia Basin and Southern Idaho. It shows good adaptation in mid to high moisture zones in the Pacific Northwest and Western States.
4. No specific disease reaction claims are made at this time.
5. Identifying characteristics –

1. Kind:	Club, Soft White Winter Wheat		
2. Seasonal Growth Habit:	Winter	16. Awn Type:	Awned
3. Coleoptile Color:	White	17. Awn Color:	White
4. Juvenile Growth Habit:	Erect	18. Glume Color:	White
5. Leaf Color at Boot:	Green	19. Glume Length:	Medium
6. Flag Leaf at Boot:	Erect, No Twist or Wax	20. Shoulder Shape:	Elevated
7. Auricle Color:	White	21. Shoulder Width:	Medium
8. Day(s) to 50% Heading:	148	22. Beak Shape:	Acute
9. Anther Color:	Yellow	23. Beak Length (S,M,L,VL):	Medium
10. Anthocyanin:	Absent	24. Glume Pubescence:	Absent
11. Plant Height (cm):	78	25. Seed Color:	White
12. Internodes:	Hollow	26. Seed Shape:	Ovate
13. Spike Shape:	Elliptical	27. Cheeks:	Rounded
14. Spike Density:	Mid-Dense	28. Brush Size (S,M,L.):	Short
15. Spike Curvature:	Erect	29. Avg 1,000 Kernel Wt (grams):	44

30. Physiological/Biochemical Traits: None

Variants and Frequency: A variant that is similar to YSC-D862 but has red seed occurs at a frequency of up to .50% (50 out 10,000 seeds). An awnless variant may occur at a frequency of 1% (100/10,000). A common head may occur at a frequency of 1%

6. The breeder, foundation, and registered seed classes will be maintained and controlled by Yield Star Cereal. Foundation seed will be initially produced from breeder seed and thereafter foundation seed will be produced from foundation seed, maintaining the specific identity and purity of the variety as released by the breeding department. Certified seed will be grown from foundation or breeder seed by designated Yield Star Cereals associates. Production of certified seed will be licensed by Yield Star Cereals. There are no trait testing requirements to be met for certified seed classes.
7. If recommended certified seed of YSC-D862 will be offered for sale in the Fall of 2021.
8. Application for Plant Variety Protection is intended to be submitted.
9. Certified acreage is to be published by AOSCA or by individual certifying agencies.

Date this application was submitted: Jan 13, 2021

Date recommended by the VRB: May 24, 2021



Triticale

344 3-4-4 (Exp)

1. 344 is an awned spring triticale developed by Northern Agri Brands LLC.
2. 344 was selected in early generations using the pedigree method for its height, maturity, straw strength, and fertility.
3. 344 is the maintainer line for a cytoplasmic sterile line PVP under the name 343CMS. It has been successfully grown in spring planting in Idaho and Colorado as well as a fall planting in Kansas and Florida.
4. No Disease claims are being made.
5. Identifying characteristics –

1. Ploidy:	<u>Hexaploid</u>	15. Awn Color:	<u>Tan</u>
2. Growth Habit:	<u>Intermediate</u>	16. Glume Pubescence:	<u>Slightly Pubescent</u>
3. Photoperiod Reaction:	<u>Insensitive</u>	17. Glume Color:	<u>Tan</u>
4. Winterhardiness:	<u>Medium</u>	18. Glume Length:	<u>Mid-Long</u>
5. Maturity:	<u>Early</u>	19. Glume Width:	<u>Mid-Wide</u>
6. Height:	<u>Mid-Tall</u>	20. Glume Shoulder Shape:	<u>Oblique</u>
7. Plant Color at Boot Stage:	<u>Green</u>	21. Glume Beak Shape:	<u>Obtuse</u>
8. Stem Anthocyanin:	<u>Absent</u>	22. Coleoptile Color:	<u>Purple</u>
9. Neck Hairiness:	<u>Moderate</u>	23. Seed Shape:	<u>Elliptical</u>
10. Neck Shape:	<u>Straight</u>	24. Seed Smoothness:	<u>Slightly Wrinkled</u>
11. Flag Leaf at Boot:	<u>Not-Twisted, Re-Curved, Waxy Bloom Absent</u>	25. Seed Brush Area:	<u>Large</u>
12. Spike Density:	<u>Mid-Dense</u>	26. Seed Brush Length:	<u>Long</u>
13. Spike Shape:	<u>Oblong</u>	27. Seed Color:	<u>Purple</u>
14. Spike Awnedness:	<u>Awned</u>	28. Seed Relative Size:	<u>Medium</u>

Unique Physiological/Biochemical Traits: _____

Variants and Frequency: 344 has been stable since 2014. Less than 0.1% of the plants were rogued from the Breeder seed increase in 2017. Approximately 80% of the variant plants were taller height plants and approximately 20% were awnleted plants. Up to 1.0% variant plants may be encountered in subsequent generations.

6. Recognized classes of 344 are breeder, foundation, registered, and certified. Northern Agri-Brands LLC will maintain the variety by the head-row system to produce breeder seed if needed.
7. Certified seed of 344 will be available 2021.
8. Application for Plant Variety Protection is anticipated in 2021.
9. Certified seed production acreage may not be published by AOSCA or other Certification agencies.

Date this application was submitted: Feb 9, 2021

Date recommended by the VRB: May 25, 2021



Triticale
419606537
13T00903 (Exp)

1. 419606537 is an awned spring triticale developed by Northern Agri Brands LLC.
2. 419606537 was selected in the early generations using a pedigree breeding method for such traits as maturity, disease tolerance, and straw strength.
3. 419606537 has been tested and found to be adaptive to the Central Valley of California.
4. 419606537 possesses excellent straw strength for lodging resistance.
5. Identifying characteristics –

1. Ploidy:	<u>Hexaploid</u>	15. Awn Color:	<u>White</u>
2. Growth Habit:	<u>Spring</u>	16. Glume Pubescence:	<u>Pubescent</u>
3. Photoperiod Reaction:	<u>Insensitive</u>	17. Glume Color:	<u>White</u>
4. Winterhardiness:	<u>Med-Low</u>	18. Glume Length:	<u>Mid-Long</u>
5. Maturity:	<u>Mid-Season</u>	19. Glume Width:	<u>Mid-Wide</u>
6. Height:	<u>Mid-Tall</u>	20. Glume Shoulder Shape:	<u>Wanting</u>
7. Plant Color at Boot Stage:	<u>Blue-Green</u>	21. Glume Beak Shape:	<u>Acuminate</u>
8. Stem Anthocyanin:	<u>Absent</u>	22. Coleoptile Color:	<u>White</u>
9. Neck Hairiness:	<u>Heavy</u>	23. Seed Shape:	<u>Elliptical</u>
10. Neck Shape:	<u>Straight</u>	24. Seed Smoothness:	<u>Slightly Wrinkled</u>
11. Flag Leaf at Boot:	<u>Twisted, Drooping, Present Bloom</u>	25. Seed Brush Area:	<u>Mid-Size</u>
12. Spike Density:	<u>Dense</u>	26. Seed Brush Length:	<u>Mid-long</u>
13. Spike Shape:	<u>Fusiform</u>	27. Seed Color:	<u>Amber</u>
14. Spike Awnedness:	<u>Awned</u>	28. Seed Relative Size:	<u>Medium</u>

Unique Physiological/Biochemical Traits: _____

Variants and Frequency: Less than 1% taller plants.

6. Recognized classes of 419606537 are breeder, foundation, registered, and certified. Northern Agri-Brands LLC will maintain the variety by the head-row system to produce breeder seed if needed.
7. Certified seed of 419606537 will be available 2021.
8. Application for Plant Variety Protection is anticipated in 2021.
9. Certified seed production acreage may not be published by AOSCA or other Certification agencies.

Date this application was submitted: Dec 4, 2020

Date recommended by the VRB: May 25, 2021



Triticale

759484305 APT1130917 (Exp)

1. 759484305 (APT1130917) is a winter triticale developed by Northern Agri-Brands LLC.
2. 759484305 was selected in early generations using the pedigree breeding method for such traits as height, maturity, disease tolerance, straw strength.
3. 759484305 has been tested and found to be adaptive to Northeastern region of the US including Pennsylvania, New York, Wisconsin.
4. No disease claims are being made.
5. Identifying characteristics –

1. Ploidy:	<u>Hexaploid</u>	15. Awn Color:	<u>White</u>
2. Growth Habit:	<u>Winter</u>	16. Glume Pubescence:	<u>Slightly Pubescent</u>
3. Photoperiod Reaction:	<u>Insensitive</u>	17. Glume Color:	<u>White</u>
4. Winterhardiness:	<u>Med-High</u>	18. Glume Length:	<u>Mid-Long</u>
5. Maturity:	<u>Mid-Season</u>	19. Glume Width:	<u>Mid-Wide</u>
6. Height:	<u>Mid-Tall</u>	20. Glume Shoulder Shape:	<u>Wanting</u>
7. Plant Color at Boot Stage:	<u>Green</u>	21. Glume Beak Shape:	<u>Acuminate</u>
8. Stem Anthocyanin:	<u>Absent</u>	22. Coleoptile Color:	<u>White</u>
9. Neck Hairiness:	<u>Heavy</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, Recurved, Absent Bloom</u>	25. Seed Brush Area:	<u>Large</u>
12. Spike Density:	<u>Dense</u>	26. Seed Brush Length:	<u>Mid-Long</u>
13. Spike Shape:	<u>Fusiform</u>	27. Seed Color:	<u>Amber</u>
14. Spike Awedness:	<u>Awned</u>	28. Seed Relative Size:	<u>Medium</u>

Unique physiological/biochemical traits: _____

Variants and Frequency: Less than 1% tall plants and bronze heads have been observed in subsequent generations.

6. Recognized classes of 759484305 are breeder, foundation, registered, and certified. Northern Agri Brands LLC will maintain the variety by the head-row system to produce breeder seed if needed.
7. Certified seed of 759484305 will be available 2021.
8. Application for Plant Variety Protection is anticipated 2021.
9. Certified seed production acreage may not be published by AOSCA or other Certification agencies.

Date this application was submitted: Dec 4, 2020

Date recommended by the VRB: May 25, 2021

