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Colorado Certified Seed Directory
Printed twice yearly
by the
Colorado Seed Growers Association
Issue #144

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DISCLAIMER

The Colorado Seed Growers Association is not the producer, processor, or seller, and therefore makes no warranties, expressed or implied, of merchantability, fitness for a particular purpose, or otherwise.

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Craig Schenck, Vice President	Holly
Walter Henes, Secretary	Dolores
Steve Andrews, Treasurer	Yuma

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Jim Mertens	New Raymer
Randy Trupp	Bennett

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Barry Ogg	Manager

Colorado Seed Laboratory

Randy Crowl	Manager
Rochelle Gorman	Analyst
Lauren Ross	Analyst

Seed Programs

Laura Pottorff	Director of Seed Programs
Daniel Lynch	Seed Quality Specialist

Foreword

The Colorado Seed Growers Association (CSGA) is a non-profit educational and service organization, affiliated with Extension of Colorado State University and authorized by the Colorado State Legislature as the official seed certifying agency in Colorado. Growers listed in this directory are members of the CSGA, producing certified seed in accordance with the rules and regulations of the Association. CSGA is a member of the Association of Official Seed Certifying Agencies (AOSCA). AOSCA is an organization composed of agencies responsible for seed certification in the United States, Canada, Argentina, Australia, Chile, New Zealand, Panama and South Africa. The following listings include fields eligible for certification in 2022. Each seed producer is responsible for maintaining the integrity of the certifiable seed listed herein. Final certification and the right to represent the seed as certified is dependent upon the results of field inspection, proper seed conditioning and laboratory analysis.

Growers warrant that seed sold by them conforms to the standards of the CSGA and to applicable state and federal seed laws. Certified seed may be sold bagged or in bulk. Bagged seed must be packaged in new containers and have an official certified tag or label attached to each bag. Each sale of certified seed in bulk must be accompanied by a bulk sales certificate completed and signed by the producer.

Colorado Seed Law requires that each container be labeled as to its origin, the germination percentage and date tested, percent by weight pure seed, other crop seed, weed seed and inert matter. In addition, the label must contain a lot number or lot identification, along with the name and address of the person who labeled or sold the seed.

The CSGA assumes no financial responsibility for seed listed in this directory or for disagreements over sales which may arise from this list. However, any complaints or irregularities should be reported to the CSGA office.

Wheat Stem Sawfly Tolerant Wheats

The wheat stem sawfly (WSS) is a native grass insect that has emerged as a significant threat to winter wheat in Colorado. Female sawflies lay eggs when they emerge in the spring, inserting eggs into the first available internode. Larvae develop and move down the stem, feeding as they go. Feeding injury weakens the wheat stems, and cutting at the base of the stem by the larvae just prior to harvest causes lodging. Wheat breeding programs are aimed at finding varieties that can tolerate sawfly damage and continue to stand up while sustaining some level of damage from larval feeding.

Several wheat varieties are now available with tolerance to wheat stem sawfly. These varieties contain a gene called 'Sst1' that confers stem solidness of varying degrees depending on the variety. The solid stem characteristic has been shown to be effective in reducing damage caused by wheat stem sawfly.

Several wheat breeding programs around the region are incorporating the solid stem trait into their varieties, include CSU, Syngenta, and WestBred. The wheat breeding program at Colorado State University is initiating long term research into novel methods for making the wheat plant less attractive to the sawfly. CSU entomologists are also researching the presence and effectiveness of natural enemies to supplement solid stem wheat breeding tactics for sawfly management.

Fact Sheet:
Wheat Stem Sawfly: A New Pest of Colorado Wheat - 5.612 - Extension (colostate.edu)

FOUNDATION SEED AVAILABLE FOR FALL 2022 PLANTING

Hard RED Winter Wheat

Amplify SF
Avery
Brawl CL Plus
Byrd
Byrd CL Plus
Canvas
Crescent AX
Fortify SF
Guardian
Incline AX
Kivari AX
Langin
Ray
Whistler

Hard WHITE Winter Wheat

Antero
Breck
Monarch
Snowmass
Snowmass 2.0
Sunshine

Seed Available to CWRF Participants Only!

CSU AFS - Dept. Soil & Crop Sciences
ARDEC
4616 NE Frontage Road
Fort Collins, CO 80524
970-214-0559 (Barry Ogg)
970-491-4366 (Laura Pottorff)

Foundation Seed

Foundation seed of public varieties is produced by CSU Agronomy Foundation Seed, Department of Soil and Crop Sciences, Colorado State University.

Foundation seed of the following varieties is available for planting in the Fall of 2022. Foundation Seed orders will be accepted until August 17, 2022, after which the seed will be allocated. Individual orders should be placed with Tyler Benninghoven with Colorado Wheat. Please call Tyler at 970-702-1460 (cell) or 970-449-6994 (office). You may also email Tyler at tbenninghoven@coloradowheat.org.

CSU Agronomy Foundation Seed is located at the Ag Research Development and Education Center (ARDEC) on the east frontage road along I-25 north of Fort Collins; shipping can be handled with prior arrangements. Any seed ordered but not paid for or picked up by September 15, 2022 will be released to other growers.

Foundation seed will be treated and packaged in 2,000 lb totes!

SEED AVAILABLE TO CWRF PARTICIPANTS - FALL 2022

HARD RED WINTER WHEAT

Amplify SF	Avery	Byrd
Canvas		Fortify SF
Guardian		Langin
Ray		Whistler

Clearfield: Brawl CL Plus and Byrd CL Plus

CoAXium: Crescent AX, Incline AX and Kivari AX

HARD WHITE WINTER WHEAT

Antero	Breck
Monarch	Sunshine
Snowmass	Snowmass 2.0

Pawnee Buttes Seed Inc.
"We Sell More Than a Bag of Seed."

We Carry Seed for More than 500 Species!

Irrigated/Dryland Pasture

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- Custom Mixes

46 Years of Experience

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- Winter Wheat
- Winter Rye
- + More!

Alfalfa

- Ladak
- Ranger
- Vernal
- WL

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Cover Crops • CRP • Irrigated, Dryland & Custom Mixes • Organics

Seed Arbitration

The Colorado Seed Law mandates for the arbitration of disputes between seed buyer and seller. The law states that all seed sold shall be tagged with a notice of the required arbitration.

If the seed buyer believes that the seed did not perform as warranted, a claim may be filed with the Colorado Commissioner of Agriculture. The law provides for a board who will hear testimony, review evidence and decide the validity of the claim. Findings of the board are not binding but may be used as evidence in any civil suit.

Further information on arbitration or assistance in filing for arbitration should be directed to the Colorado Department of Agriculture at 303-869-9070.

NOTICE: Listings are based on acres applied for. Eligibility for certification will depend on satisfactory field and seed inspections.

Seed Classes

Seed certification relies on a generation sequence of seed increase from the original Breeder seed through two or three subsequent generations. The number of generations beyond Breeder seed is determined by the originator at the time a variety is formally released. These generations are often identified as classes, and each class is produced and handled to maintain genetic purity. The primary advantage is that seed sold to a farmer is never more than a limited number of multiplications from that produced under the breeder's control. The limited generation system, when coupled with strict production and seed standards, assures genetically pure high-quality seed.

Breeder - Breeder seed shall be that seed or vegetative propagating material directly controlled by the originating or sponsoring plant breeder, institution, or firm which provides the source for the initial and recurring increase of Foundation seed. (B)

Foundation - Foundation seed is produced from Breeder seed and maintained by state agricultural experiment stations or private companies. Foundation seed is the source of Registered and/or Certified seed. (F)

Registered - Registered seed is the progeny of Foundation seed. Registered seed, when a Registered class is designated, is the parent stock for the production of Certified seed. (R)

Certified - Certified seed is the progeny of Foundation or Registered seed. Certified seed is the planting stock recommended for commercial production. (C)

Plant Variety Protection Act and Federal Seed Law, Title V

The Plant Variety Protection ACT (PVPA) was signed into law on December 24, 1970. The PVPA's objective is to encourage the development of novel varieties of sexually-reproduced plants and make them available to the public, providing protection to those who breed, develop, or discover them, and thereby promoting agricultural progress in the public interest. The U.S. Dept. of Agriculture is responsible for administering the Act.

A Certificate of Protection is valid 20 years from date of issuance in most cases. The owner has the right to exclude others from selling, offering for sale, reproducing, importing, or exporting the variety during this time. The owner is responsible for enforcing these rights.

Two options for plant variety protection are available to the developer of the variety. The first option enables the developer to sell or authorize for sale either certified or uncertified seed of the variety. The second option is the "certification only" option which utilizes provisions of Title V of the Federal Seed Act. A variety protected in this manner may be sold by variety name only as a class of certified seed. Sale of non-certified seed by variety name is in violation of both the certificate owner's rights and federal and state seed laws. Seed may be called "Certified" only after meeting all requirements and standards of a member of the Association of Official Seed Certifying Agencies (AOSCA). Violators of Title V may be prosecuted by the federal or state government. Most newly released varieties are protected under the "certification only" option. Contact CSGA with questions regarding PVP status of varieties.

Utility Patents

Utility patents are another means of protection for developers of new plant varieties. The CLEARFIELD and COAXIUM wheat technologies are protected under U.S. Patent law and can be used by farmers only if they sign an appropriate Stewardship Agreement for the year in which they will grow CLEARFIELD or COAXIUM wheat. The agreement requires that the farmer, among other things, use CLEARFIELD or COAXIUM wheat solely for planting a single commercial crop.

Questions and Answers on Plant Variety Protection

Q: What are the benefits of PVP for farmers?

A: The Plant Variety Protection Act was designed to promote the development of new plant varieties. It allows the breeder to recoup some of the development costs, often through royalties, to reinvest in future variety development programs.

Q: What does PVPA Title V protection mean?

A: The variety can only be SOLD as a class of certified seed. Sales of non-certified seed of these varieties is illegal.

Q: Can a farmer save seed of a protected variety?

A: For varieties protected under 1994 PVPA, yes. A farmer can save seed to plant on his own holdings (land owned, leased, or rented). For varieties protected by CLEARFIELD or COAXIUM Utility Patent, no. New certified seed must be purchased each year.

Q: Can a farmer sell seed of a protected variety?

A: For varieties protected under 1994 PVPA or Utility Patent, no, unless permission is given by the variety owner. Contact CSGA if you do not know what protection a variety is covered by.

Q: In an effort to get around the law, can a farmer advertise farmer-saved seed of a protected variety as "Variety Not Stated" (VNS)?

A: No, selling a protected variety as VNS is a violation of the law.

Q: Can I condition/clean seed for a farmer?

A: Yes, but any actions taken as a step in marketing farmer-saved seed infringes upon the rights of the variety owner. Under the 1994 PVPA, cleaning or storing farmer-saved seed for sale are infringements. Anyone who cleans or conditions farmer-saved seed should keep written documentation from the farmer stating that the seed being cleaned is not in violation of PVP laws or patents.

Andrews Brothers

Seed Inc.

37803 County Road M

Yuma, Colorado

(970)848-0709

Certified Seed Growers

Airscreen Cleaner

Debearder

Length Graders

Gravity Table

Bagging Facility

Seed Treating

Varieties Available 2022

Hard Red Wheat:

AP Bigfoot, Avery, Byrd,

Byrd CL Plus, Fortify SF,

Langin, SY Sunrise

SY Wolverine

Hard White Wheat:

NuGrain

HARD RED WINTER WHEAT

AMPLIFY SF HARD RED WINTER WHEAT - Amplify SF hard red winter wheat was released by Colorado State University (CSU) in 2021. Amplify SF has a semi-solid stem conferring partial resistance to the wheat stem sawfly and has shown much less stem cutting than hollow-stem varieties under severe sawfly pressure. Amplify SF has a stem solidness rating of 16.5 on a scale of 5 to 25, with 5 being completely hollow and 25 being completely solid. Amplify SF is derived from the cross Bearpaw/Antero//Antero, and is thus 75% Antero by parentage. Amplify SF is an awned, white-chaffed, medium-late maturing wheat with medium plant height, a medium-long coleoptile, very good test weight, and good straw strength in the absence of the wheat stem sawfly. Amplify SF has shown good dryland yields (better under sawfly pressure), good drought stress tolerance and winterhardiness, intermediate grain protein content (measured as "grain protein deviation"), and average milling and baking quality. Amplify SF is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Certified seed of Amplify SF will be sold as "Certified Seed Only", grain production may not be saved for replanting under any circumstances. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Kalcevic FarmsInc.	Bennett 303-644-3443	R
Lewton, Curtis	Bennett 303-644-4327	R
Progressive Capital	Byers 720-244-6775	R
Trupp's Certified Seed	Bennett 303-644-3646	R
Elbert		
Kochis Farms	Matheson 719-775-2596	R
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	R

AMPLIFY SF HARD RED WINTER WHEAT (*cont.*)-

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	R
Ring, Terry	Crook 970-253-5009	R
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	R
Wickstrom, Inc.	Orchard 970-768-1384	R
Sedgwick		
Carlson Grain .	Julesburg 970-474-2715	R
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	R
Wagers Seed	Woodrow 970-842-2022	R
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	R
Mertens Bros.	New Raymer 970-370-0153	R
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	R

AP18 AX HARD RED WINTER WHEAT -
AP18 AX is a semidwarf hard red winter wheat developed by Colorado State University (CSU) and transferred to the Colorado Wheat Research Foundation (CWRF). CWRF has issued exclusive marketing rights for AP18 AX to Syngenta Seeds LLC in the United States. AP18 AX is a CoAXium wheat with tolerance to Aggressor® herbicide. AP18 AX is medium maturing, medium height with good tests weight, very good milling, and fair baking quality. AP18 AX has intermediate tolerance to stripe rust, leaf rust, and wheat streak mosaic virus. Growers must sign the CoAXium® Wheat Production System Stewardship Agreement at point of sale. **Grain production of AP18 AX may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY		*PH*	*CLASS*
Morgan			
	Knievel Seed	Wiggins 970-483-6166	C
Yuma			
	Andrews Brothers Seed, Inc.	Yuma 970-848-0709	C

AP BIGFOOT HARD RED WINTER WHEAT -
AP Bigfoot is a hard red winter wheat developed by Syngenta Crop Protection AG. AP Bigfoot was selected for height, maturity and green leaf duration. Selection in future generations was based on yield, disease, and quality. The area of adaptation includes Central, Southern, and Western Plains. No claims are made regarding pest resistance. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY		*PH*	*CLASS*
Sedgwick			
	Carlson Grain .	Julesburg 970-474-2715	R
Yuma			
	Andrews Brothers Seed, Inc.	Yuma 970-848-0709	R

AP EVERROCK HARD RED WINTER WHEAT - AP EverRock is a hard red winter wheat developed by Syngenta Crop Protection AG. AP EverRock was selected for height, maturity, green leaf duration, disease reaction, and end use quality. AP EverRock 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 and Western Irrigated High Plains. AP EverRock is moderately resistant to common races in the Central Plains of leaf and stripe rust. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Larimer		
Revolution Soil and Seed Fort Collins	970-666-1878	C

APROADRUNNERHARDREDWINTERWHEAT- AP RoadRunner is a hard red winter wheat developed by Syngenta Crop Protection AG. AP RoadRunner was selected for height, maturity, green leaf duration, disease reaction, and end use quality. AP RoadRunner is a well-adapted bread wheat to the irrigated and dryland production areas of the Central Dryland and Western Dry and Irrigated High Plains. 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. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Ring, Terry	Crook 970-253-5009	R & C
Sedgwick		
Carlson Grain .	Julesburg 970-474-2715	C

AP SOLID HARD RED WINTER WHEAT - AP Solid is a hard red winter wheat developed by Syngenta Crop Protection AG. AP Solid was selected for height, maturity, stem solidness, green leaf duration, disease reaction, and end use quality in yield and disease test plots following doubled haploid method. AP Solid was tested in Kansas, Oklahoma, Colorado, Nebraska, South Dakota and Montana and is well-adapted as to be a high yielding bread wheat in Montana. AP Solid is moderately susceptible to common stripe rust races in the Central Plains. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Variety Protection Applied For - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Ring, Terry	Crook 970-253-5009	R
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	R

AVERY HARD RED WINTER WHEAT -

Avery hard red winter wheat was released by Colorado State University (CSU) in 2015. Avery is an awned, white-chaffed, medium maturing wheat with medium -tall height, a medium coleoptile, good straw strength, and good test weight. Avery is derived from the cross TAM 112/Byrd. Avery is very similar to Byrd in having good winterhardiness, excellent drought stress tolerance, and very high yield potential. Avery differs from Byrd in having slightly larger kernels, and being two days later in heading date, Avery is susceptible to prevalent races of stripe rust, leaf rust and stem rust, but performs very well against wheat streak mosaic virus due to presence of the wheat curl mite resistance gene. Avery is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Trupp's Certified Seed	Bennett 303-644-3646	C
Baca		
Brooks, Bill	Walsh 719-523-4473	C
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C

Tests options include

- Purity
- Noxious
- Germination
- Vigor
- TZ
- KOH
- Clearfield ® Confirm
  AXigen™ Seed Assay
- Seed Count

AOSA & SCST Certified Analysts

ensure quality results every time!

The Colorado Seed Lab is your seed lab.
Drop in for a visit sometime!
We are located at ARDEC Headquarters
Just north of Fort Collins along I-25
Give us a call at 970-491-6406
Know of any up and coming Seed Analyst?
We welcome students to study here.
Randy Crowl, Seed Lab Manager

Contact us for tour and study info.

Colorado Seed Lab

2022 Wheat Guidelines

- Send us a (roughly) 2lb sample for Purity, Noxious and Germination tests (*enough to fill a cotton sample bag*)
- Specify *all tests* desired with sample for fastest turn around time
- Expect 2 week turn around for fresh seed through mid September
- 1 Day Shipping available in Colorado (Please provide shipping info to lab for even faster service)
- Need info even faster?? Ask for a TZ test. Get results in as little as 2 days! (*you will still need a Germination Test to fulfill Colorado labeling requirements*)
- Email official reports with real-time results online
- RUSH* and Priority service available
- Contact the lab for prices* and questions

Scan with QR reader for CSL website

Lab Hours: Mon – Fri, 7:30am – 4:30pm
Phone: 970-491-6406
Email: CAS_SeedLab@Mail.Colostate.edu
Lab Manager: randy.crowl@colostate.edu
Web: http://seedlab.colostate.edu
Mail: Colorado Seed Lab
ARDEC Headquarters
4616 NE Frontage Road
Fort Collins, CO 80524

AVERY (*cont.*) -

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	R & C
Dickinson, Danny	Crook 970-253-5005	C
Ring, Terry	Crook 970-253-5009	R & C
Weld		
Mertens Bros.	New Raymer 970-370-0153	C

BRAWL CL PLUS HARD RED WINTER WHEAT -

Brawl CL Plus was released by Colorado State University in 2011. It is an awned, white-chaffed, medium height, early maturing wheat with excellent straw strength and very good test weight. Brawl CL Plus is moderately susceptible to stripe rust, leaf rust and stem rust. Brawl CL Plus is a two-gene Clearfield wheat which allows growers to add methylated seed oil to the tank mix with Beyond™ herbicide and increase effectiveness of the herbicide, especially on jointed goatgrass. Brawl CL Plus makes protein very well and has very good milling and baking quality. **Grain production of Brawl CL Plus may not be saved for replanting under any circumstances.** Brawl CL Plus is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Dickinson, Danny	Crook 970-253-5005	R & C
Ring, Terry	Crook 970-253-5009	C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Sedgwick		
Carlson Grain .	Julesburg 970-474-2715	R & C

BYRD HARD RED WINTER WHEAT -

Byrd was released by Colorado State University (CSU) in 2011. It is an awned, white-chaffed, medium-early wheat that is medium in height, has very good test weight and fair straw strength. Byrd is susceptible to stripe rust, leaf rust, and stem rust. Byrd is resistant to prevailing biotypes of the wheat curl mite, the vector of wheat streak mosaic and other viruses. Byrd shows high dryland and irrigated yields, excellent drought stress tolerance, and very good milling and baking quality. Byrd is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	C

BYRD CL PLUS HARD RED WINTER WHEAT-

Byrd CL Plus was released by Colorado State University (CSU) in 2018 and is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. It is an awned, white-chaffed, medium-tall, and medium maturing wheat with a medium-short coleoptile, moderate straw strength, good milling and baking quality, and average test weight. Byrd CL Plus is a two-gene Clearfield wheat which allows growers to add methylated seed oil to the tank mix with Beyond™ herbicide and increase effectiveness of the herbicide, especially on jointed goatgrass.

BYRD CL PLUS HARD RED WINTER WHEAT *(cont.)* **-**

Byrd CL Plus is susceptible to stripe rust and stem rust, susceptible to stem rust, intermediately susceptible to leaf rust, and shows an intermediate reaction to wheat streak mosaic virus. **Grain production of Byrd CL Plus may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Lewton, Curtis	Bennett 303-644-4327	R & C
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	R
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	R & C
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	R & C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Sedgwick		
Carlson Grain .	Julesburg 970-474-2715	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C
Mertens Bros.	New Raymer 970-370-0153	C

CANVAS HARD RED WINTER WHEAT - Canvas hard red wheat was released by Colorado State University (CSU) in 2018. Canvas is an awned, white-chaffed, medium maturing wheat with medium-short plant height, a medium length coleoptile, and excellent straw strength and test weight. Canvas is derived from the cross Denali/Antero//Byrd, and is thus 50% Byrd and 25% each Denali and Antero by parentage. Canvas has shown high dryland yields and particularly good adaptation to high management under irrigation. Canvas has good winterhardiness, intermediate grain protein content (measured as "grain protein deviation"), and excellent milling and baking quality. Canvas is moderately resistant to prevalent races of stripe rust (including both 2010 and 2012 races), intermediate to leaf rust, resistant to stem rust, moderately resistant to wheat soilborne mosaic virus, susceptible to prevalent biotypes of Hessian fly, and resistant to the wheat curl mite which effectively reduces infection by wheat streak mosaic virus. Canvas is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Prowers		
Doug Melcher Seeds	Holly 719-537-6214	R & C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C
Weld		
Cooksey Farms	Roggen 970-396-9084	C
Mertens Bros.	New Raymer 970-370-0153	R & C

CRESCENT AX HARD RED WINTER WHEAT -

Crescent AX was released by Colorado State University (CSU) in 2018 and is marketed by the Colorado Wheat Research Foundation under the Plains-Gold™ Brand. It is an awned, white-chaffed, medium height, and early maturing wheat with moderate straw strength, very good milling and baking quality and good test weight. The pedigree of Crescent AX is (AF28/Byrd)//(AF10/2*Byrd), and thus is approximately 66% Byrd by parentage. Crescent AX carries two genes for tolerance to Aggressor® herbicide which has shown excellent selective control of cheatgrass, downy brome, feral rye, and jointed goatgrass with fall or spring herbicide application at labelled rates by weed species. Growers should note that Crescent AX is not tolerant to Beyond™ herbicide. Crescent AX has an intermediate reaction to stripe rust and leaf rust and is resistant to the wheat curl mite which effectively reduces infection by wheat streak mosaic virus. Growers must sign the CoAXium® Wheat Production System Stewardship Agreement at point of sale. **Grain production of Crescent AX may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

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CRESCENT AX HARD RED WINTER WHEAT (*cont.*) -

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Kalcevic Farms Inc.	Bennett 303-644-3443	C
Lewton, Curtis	Bennett 303-644-4327	C
Trupp's Certified Seed	Bennett 303-644-3646	C
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Ring, Terry	Crook 970-253-5009	R & C
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Sedgwick		
Carlson Grain .	Julesburg 970-474-2715	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C
Mertens Bros.	New Raymer 970-370-0153	C
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	C

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FORTIFY SF HARD RED WINTER WHEAT - Fortify SF hard red winter wheat was released by Colorado State University (CSU) in 2019. Fortify SF has a semi-solid stem conferring partial resistance to the wheat stem sawfly and has shown much less stem cutting than hollow-stem varieties under severe sawfly pressure. Fortify SF has a stem solidness rating of 12.3 on a scale of 5 to 25, with 5 being completely hollow and 25 being completely solid. Fortify SF is derived from the cross Byrd/Bearpaw//Byrd, and is thus 75% Byrd parentage. Fortify SF is an awned, white-chaffed, medium maturing wheat with medium plant height, a medium length coleoptile, good test weight, and fair straw strength in the absence of the wheat stem sawfly. Fortify SF has shown good dryland yields (better under sawfly pressure), good drought stress tolerance and winterhardiness, intermediate grain protein content (measured as "grain protein deviation"), and average milling and baking quality. Fortify SF is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Certified seed of Fortify SF will be sold as "Certified Seed Only", **grain production may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Kalcevic Farms Inc.	Bennett 303-644-3443	C
Lewton, Curtis	Bennett 303-644-4327	R
Progressive Capital	Byers 720-244-6775	
Trupp's Certified Seed	Bennett 303-644-3646	C
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	R & C

FORTIFY SF HARD RED WINTER WHEAT -

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Dickinson, Danny	Crook 970-253-5005	R & C
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	R & C
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C
Mertens Bros.	New Raymer 970-370-0153	R & C

GUARDIAN HARD RED WINTER WHEAT - Guardian hard red winter wheat was released by Colorado State University (CSU) in 2019. Guardian is derived from the cross Antero/Snowmass//Byrd, and is thus 50% Byrd by parentage. Guardian carries industry-leading resistance to wheat streak mosaic virus via excellent resistance to the wheat curl mite (from the Byrd parent) and excellent resistance to the virus itself (from the Snowmass parent). Guardian is an awned, white-chaffed, medium maturing wheat with medium plant height, a medium length coleoptile, average straw strength, and excellent test weight. Guardian has shown good dryland yields, good drought stress tolerance and winterhardiness, excellent grain protein content (measured as "grain protein deviation"), and very good milling and baking quality. In addition to excellent resistance to wheat streak mosaic virus, Guardian is resistant to moderately resistant to prevalent races of stripe rust, leaf rust, and stem rust and susceptible to wheat soilborne mosaic virus and prevalent biotypes of Hessian fly. Guardian is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Certified seed of Guardian will be sold as "Certified Seed Only", **grain production may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Trupp's Certified Seed	Bennett 303-644-3646	C
Kiowa		
Sand Creek, Inc.	Sheridan Lake 719-729-3367	C
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	R & C
Prowers		
Doug Melcher Seeds	Holly 719-537-6214	R
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	C

HATCHER HARD RED WINTER WHEAT - Hatcher was released by Colorado State University in 2004. Hatcher is marketed by the Colorado Wheat Research Foundation. Hatcher has established a very stable yield record in Colorado. Hatcher was developed via a three-way cross with Yumar (50% parentage), Vista (25% parentage), and an experimental hard white winter wheat from Kansas State University (25% parentage). Hatcher is an awned, white-chaffed, medium maturing, medium height variety. Hatcher has intermediate coleoptile length, good shattering tolerance, average straw strength and average test weight. Hatcher is moderately susceptible to leaf rust and moderately resistant to stripe rust. Milling and baking characteristics of Hatcher are good. Hatcher is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Elbert		
Kochis Farms Matheson	719-775-2596	C

KIVARI AX HARD RED WINTER WHEAT - Kivari AX was released by Colorado State University (CSU) in 2020 and is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ brand. It is an awned, white-chaffed, medium-height, and medium-early maturing wheat with fair straw strength, very good baking quality, and good test weight. The pedigree of Kivari AX is (AF28/Byrd)//(AF10/2*Byrd), and thus is approximately 66% Byrd by parentage. Kivari AX carries two genes for tolerance to Aggressor® herbicide, which has shown excellent selective control of cheatgrass, downy brome, feral rye, and jointed goatgrass with fall or spring herbicide application at labelled rates by weed species. Growers should note that Kivari AX is not tolerant to Beyond™ herbicide. Kivari AX is susceptible to stripe and leaf rust and is resistant to the wheat curl mite which effectively reduces infection by mite-transmitted viruses including wheat streak mosaic virus. Growers must sign the CoAXium® Wheat Production System Stewardship Agreement at point of sale. **Grain production of Kivari AX may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Kalcevic Farms Inc.	Bennett 303-644-3443	C
Lewton, Curtis	Bennett 303-644-4327	R
Progressive Capital	Byers 720-244-6775	C
Trupp's Certified Seed	Bennett 303-644-3646	R
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	R

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KS DALLAS HARD RED WINTER WHEAT -
KS Dallas is a hard red winter wheat developed at the Agricultural Research Center in Hays, KS – Kansas State University. KS Dallas is adapted to dryland production systems and was selected for its good test weight, baking quality and winter hardiness. It is resistant to wheat streak mosaic virus, stripe rust and stem rust. It is moderately resistant to leaf rust. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C

KS HAMILTON HARD RED WINTER WHEAT -
KS Hamilton is a hard red winter wheat variety developed at the Agricultural Research Center-Hays, Kansas State University. 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). KS Hamilton was extensively tested in Kansas and is adapted to the dryland production system in western Kansas. KS Hamilton is resistant to wheat streak mosaic virus, stem rust, soilborne mosaic virus, and Hessian fly. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety. - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C

LANGIN HARD RED WINTER WHEAT - Langin hard red winter wheat was released by Colorado State University (CSU) in 2016. Langin is an awned, white-chaffed, early maturing wheat with medium-short height, a medium length coleoptile, fair straw strength, and good test weight. Langin is derived from the cross CO050270/Byrd (CO050270 = Hatcher/NW97S295 pedigree). Langin is similar to Byrd and Avery in having good winterhardiness, excellent drought stress tolerance, and very high yield potential. Langin differs from Byrd in having improved stripe rust resistance and slightly improved baking quality characteristics. Langin is moderately resistant to prevalent races of stripe rust, susceptible to leaf rust and stem rust, moderately susceptible to wheat streak mosaic virus, and resistant to the wheat curl mite and wheat soil borne mosaic virus. Langin is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Lewton, Curtis	Bennett 303-644-4327	C
Trupp's Certified Seed	Bennett 303-644-3646	R & C
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	R
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Ring, Terry	Crook 970-253-5009	C

LANGIN HARD RED WINTER WHEAT *(cont.)*-

COUNTY/NAME/CITY	*PH*	*CLASS*
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Prowers		
Doug Melcher Seeds	Holly 719-537-6214	R & C
Schenck, Craig	Holly 719-688-6203	C
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	R & C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	C

The Colorado Seed Industry Association Wants YOU!

The Colorado Seed Industry Association (CSIA) is an organization dedicated to the enhancement and support of Colorado seed businesses. We work with the Colorado Legislature, Colorado Department of Agriculture, Colorado Seed Growers Association, and Colorado State University in representing the voice of the Seed Industry in issues that affect you and your enterprise. We also provide educational opportunities and serve as a source of information and feedback to our members. An Annual Meeting is held each year which provides a forum for making new acquaintances, renewing friendships, establishing business relationships, developing trade opportunities and discussing issues affecting all involved in the Seed Industry.

We are the only recognized organization in the state of Colorado that represents the entire Seed Industry. We can better represent that assembly if we have input from its many participants. Join us and add to the base of professional seedsmen who are making a difference and defining the future of the Colorado Seed Industry. Help us keep the voice of the Seed Industry strong!

Carrie Mullen, CSIA Secretary
970-356-7002

LCS HELIX AX HARD RED WINTER WHEAT - LCS Helix AX was released by Limagrain Cereal Seeds in 2019. This variety is a medium-early maturity with medium height. This variety stands exceptionally well and had very good yields last year and this year. LCS Helix AX has very good end-use quality and has an additional advantage of a long coleoptile. LCS Helix AX carries two genes for tolerance to Aggressor® herbicide, which has shown excellent selective control of cheatgrass, downy brome, feral rye, and jointed goatgrass with fall or spring herbicide application at labelled rates by weed species. LCS Helix AX is one of the most adaptable CoAXium® varieties available due to its top-end yield, high test weight, winterhardiness, acid soil tolerance, and resistances to stem and stripe rust. This variety has excellent tolerance to scab and stem rust. Growers must sign the CoAXium® Wheat Production System Stewardship Agreement at point of sale. **Grain production of LCS Helix AX may not be saved for replanting under any circumstances.** Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Weld		
Marc Arnusch Farms	Keenesburg 303-732-4074	C

LCS JULEP HARD RED WINTER WHEAT - LCS Julep is a newer release from Limagrain Cereal seeds. This variety comes from the LCS Mint pedigree, and acts very similar with added benefits. Released in 2019, this variety is a true medium with excellent end-use quality. LCS Julep's straw strength, quick emergence, and drought tolerance package are its main assets. It has a very high tiller count and late spring green up which has allowed this variety to handle late freezes very well. LCS Julep is a nice step up from an already great variety in LCS Mint. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Prowers		
Schenck, Craig	Holly 719-688-6203	C

LCS MINT HARD RED WINTER WHEAT -
LCS Mint is a hard red winter wheat that was released by Limagrain Cereal Seeds in 2012. LCS Mint has shown a broad adaptation across the Central Plains. LCS Mint is a medium maturing variety with excellent tolerance to both low pH soils and drought conditions. The disease resistance package for LCS Mint is headlined by resistance to the 2012 race of Stripe Rust and resistance to Soilborne Mosaic Virus. LCS Mint is susceptible to leaf rust, and can lodge under irrigation. Seed of LCS Mint must be grown by licensed Limagrain Cereal Seeds distributors. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C

RAY HARD RED WINTER WHEAT -
Ray is a dual-purpose forage/grain hard red winter wheat licensed from Montana Ag Experiment Station by Colorado Wheat Research Foundation, being marketed under the PlainsGold™ brand in Colorado as a Certified Seed Only variety. Ray is a winter hardy, late maturing, tall, very awnless variety with forage yield and quality similar to Willow Creek but superior grain yield compared to Willow Creek. Ray has good test weight and grain protein if taken for grain, but should be primarily utilized for grazing, hay, or haylage. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C

SY LEGEND CL2 HARD RED WINTER WHEAT -

SY Legend CL2 is a hard red winter wheat bred and developed by Syngenta Participations AG. SY Legend CL2 was selected for type, disease, Greenleaf duration, herbicide tolerance, test weight, yield and quality. SY Legend CL2 is primarily adapted to Western High Plains spanning from Texas panhandle through Oklahoma panhandle, western Kansas, eastern Colorado, and western Nebraska and panhandle. SY Legend CL2 demonstrates good tolerance to leaf rust, stripe rust, barley yellow dwarf virus and soil born mosaic virus. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Logan		
Ring, Terry	Crook 970-253-5009	R

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SY MONUMENT HARD RED WINTER WHEAT - SY Monument is a hard red winter wheat bred and developed by Syngenta Seeds, Inc. SY Monument is the result of a cross made in 2003 by Syngenta Seeds, Inc. in Junction City, KS. SY Monument was selected for height, straw strength, yield, bread making quality and resistance to leaf and stripe rust. SY Monument is best adapted to the winter wheat growing areas of the High Plains. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Certified seed will be available in the fall of 2015. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	C

SY SUNRISE HARD RED WINTER WHEAT - SY Sunrise is a hard red winter wheat and is the result of a cross made in 2006 by Syngenta Seeds, Inc. from an AgriPro experimental, CDC Falcon, and a University of Nebraska experimental. SY Sunrise was selected for test weight, height, green leaf duration, quality, winter hardiness and yield. SY Sunrise is adapted throughout the winter wheat growing areas of the United States Central Plains based on tests conducted in Kansas, Colorado, Nebraska, Wyoming and South Dakota. Target market is irrigated and high management dryland. Syngenta Seeds, Inc. maintains seed stock and certified classes of Foundation, Registered and Certified. Certified seed will be available in the Fall of 2016. Certified Seed will be sold as "Certified Seed Only" and growers are required to sign a stewardship agreement. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	R

SY WOLVERINE HARD RED WINTER WHEAT - SY

Wolverine is a hard red winter wheat developed by Syngenta Participations AG. SY Wolverine was selected for height, maturity, green leaf duration, disease reaction and end use quality. SY Wolverine has shown above average tolerance to leaf rust. It is broadly adapted across the Northern, Central, and Western Plains. Certified seed became available Fall - 2020. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Logan		
Ring, Terry	Crook 970-253-5009	R & C
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	C
Yuma		
Andrews Brothers Seed, Inc.	Yuma 970-848-0709	C

WB4418 HARD RED WINTER WHEAT -
WB4418, a Hard Red Winter wheat variety, Semi-Solid stem variety with excellent stand-ability and tolerance to the Wheat Stem Sawfly. a medium maturing variety with excellent yield potential Widely adapted from east to west, this variety provides very good resistance to leaf rust, strip rust and WSMV. Unauthorized Propagation Prohibited. U.S. Protected Variety- 1994 PVPA

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Ring, Terry	Crook 970-253-5009	C

WB4483 HARD RED WINTER WHEAT -
WB4483 is a Hard Red Winter wheat variety, a medium maturing solid stem variety which give excellent tolerance to the wheat stem sawfly. Also includes excellent winter hardiness and drought tolerance. This medium-tall variety also offers excellent test weight and overall great leaf health package. Unauthorized Propagation Prohibited. U.S. Protected Variety- 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Ring, Terry	Crook 970-253-5009	C
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	C
Wagers Seed	Woodrow 970-842-2022	R
Weld		
Marc Arnusch Farms	Keenesburg 303-732-4074	C

WB4595 HARD RED WINTER WHEAT -
WB4595, a Hard Red Winter wheat variety, Western High Plains medium-maturing, high tillering wheat variety with excellent yield potential. It carries an overall good disease resistance package with very good Leaf Rust and stripe resistance. This variety also has excellent winter hardiness, drought tolerance and tolerance to WSMV. Unauthorized Propagation Prohibited. U.S. Protected Variety- 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Weld		
Marc Arnusch Farms	Keenesburg 303-732-4074	C

WB4792 HARD RED WINTER WHEAT -
WB4792, a Hard Red Winter wheat variety, is a medium-late maturing wheat variety with excellent straw strength and drought tolerance. It has a very good overall health package in part due to its very good resistance to Leaf Rust and Yellow (Stripe) Rust and BYD. This medium height Hard Red Winter wheat variety also has very good winter hardiness and tolerance to WSMV. Unauthorized Propagation Prohibited. U.S. Protected Variety- 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Ring, Terry	Crook 970-253-5009	C
Morgan		
Midcap Seed & Grain	Wiggins 970-483-5566	C
Washington		
Wagers Seed	Woodrow 970-842-2022	R

WHISTLER HARD RED WINTER WHEAT - Whistler hard red wheat was released by Colorado State University (CSU) in 2018. Whistler is an awned, white-chaffed, late maturing wheat with tall plant height, a medium length coleoptile, and fair straw strength and test weight. Whistler is derived from the cross CO08W218/Snowmass//Byrd, and is thus 50% Byrd and 25% Snowmass by parentage. Whistler has shown high dryland yields, good drought stress tolerance and winterhardiness, intermediate grain protein content (measured as "grain protein deviation"), and excellent baking quality. Whistler is moderately resistant to prevalent races of stripe rust, intermediate to leaf rust, resistant to stem rust, resistant to wheat soilborne mosaic virus, susceptible to prevalent biotypes of Hessian fly, and resistant to the wheat curl mite which effectively reduces infection by wheat streak mosaic virus. Whistler is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Farm S Inc. (Tim Stahlecker)	Bethune 719-342-3197	C
Prowers		
Schenck, Craig	Holly 719-688-6203	C
Washington		
Pachner Agri-Enterprises	Akron 970-554-0645	R

HARD WHITE WINTER WHEAT

ANTERO HARD WHITE WINTER WHEAT - Antero hard white wheat was released by Colorado State University (CSU) in 2012. Antero is an awned, white-chaffed, medium maturing wheat with medium height, a medium length coleoptile, fair straw strength, and average test weight. Antero is derived from the cross KS01HW152-1 (Trego/Betty sib)/TAM 111. Antero has shown high dryland and irrigated yields, good drought stress tolerance, and good milling and baking quality. Antero is resistant to prevalent races of stripe rust, susceptible to leaf rust, resistant to stem rust and wheat soilborne mosaic virus, and has good pre-harvest sprouting tolerance (similar to Snowmass and Hatcher, better than Thunder CL). Antero is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Kiowa		
Thunderbird Commodities LLC	Sheridan Lake 800-289-1415	R

BRECK HARD WHITE WINTER WHEAT - Breck was released by Colorado State University (CSU) in 2017. Breck is an awned, white-chaffed, medium maturing wheat with medium height, a medium-long coleoptile, very good straw strength, and excellent test weight. Breck is derived from the cross Denali/HV9W07-482W//Antero, and is thus 50% Antero and 25% Denali by parentage. Breck has shown high dryland and irrigated yields, good drought stress tolerance and winterhardiness, and excellent milling and baking quality. Breck expresses a lower level of polyphenol oxidase (PPO) in the grain which favors its use in whole grain flour products.

BRECK HARD WHITE WINTER WHEAT (*cont.*)- Breck is resistant to prevalent races of stripe rust, intermediate to leaf rust, resistant to stem rust, moderately susceptible to wheat soilborne mosaic virus, intermediate to wheat streak mosaic virus, and resistant to prevalent biotypes of Hessian fly. Breck has very good pre-harvest sprouting tolerance, better than Snowmass, Antero, and Sunshine and at least as good as most adapted hard red winter wheat varieties grown in Colorado. Breck is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand as a Certified Seed Only variety. Grain of Breck is available for contracting in the CWRF-Ardent Mills Ultragrain® Premium Program. Participants in the program will need to sign a Grain Pricing Schedule with Ardent Mills which details contract terms and requires planting of certified seed. Breck is also available as a non-exclusive variety in the grain trade to other millers. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Adams		
Progressive Capital	Byers 720-244-6775	R & C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	R & C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	C
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C

MONARCH HARD WHITE WINTER WHEAT - Monarch hard white wheat was released by Colorado State University (CSU) in 2018. Monarch is an awned, white-chaffed, medium maturing wheat with medium-short plant height, a medium length coleoptile, excellent straw strength, and good test weight. Monarch is derived from a three-way cross that involves CO07W722-F5 (pedigree = KS02HW89 1/BC97ROM-41W) as 75% and Snowmass as 25% of the parentage. Monarch has shown superior grain yield under irrigation, good dryland yields, good drought stress tolerance and winterhardiness, medium grain protein content (measured as "grain protein deviation"), and good milling and baking quality. Monarch expresses a very low level of polyphenol oxidase (PPO) in the grain which favors its use in whole grain flour and noodle products. Monarch is moderately resistant to prevalent races of stripe rust, intermediate to leaf rust, resistant to stem rust, resistant to wheat soilborne mosaic virus, moderately tolerant of wheat streak mosaic virus, and susceptible to prevalent biotypes of Hessian fly. Monarch is moderately susceptible to pre-harvest sprouting. Monarch is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand as a Certified Seed Only variety and is available as a non-exclusive variety in the grain trade. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY PH CLASS

Kit Carson

Eastern Colorado Seeds, LLC. Burlington
866-655-7380 C

NUGRAIN HARD WHITE WINTER WHEAT - NuGrain was released by Syngenta in 2006. NuGrain's parentage is one-half Platte. It is a medium height semidwarf with medium late maturity. NuGrain has good straw strength and winter survival, with an intermediate reaction to stripe rust and moderate resistance to leaf rust. NuGrain has excellent test weight and grain quality, and is high in polyphenol oxidase. NuGrain is adapted to western Kansas, eastern Colorado, and southwestern Nebraska. Unauthorized Propagation Prohibited - To Be Sold By Variety Name Only As A Class Of Certified Seed - U.S. Protected Variety - 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Yuma		
Andrews Brothers Seed, Inc. Yuma	970-848-0709	C

SNOWMASS 2.0 HARD WHITE WINTER WHEAT -

Snowmass 2.0 hard white wheat was released by Colorado State University (CSU) in 2018. Snowmass 2.0 is an awned, white-chaffed, medium-early maturing wheat with medium height, a medium length coleoptile, and very good straw strength and test weight. Snowmass 2.0 is derived from the cross CO07W722-F5/Snowmass//Brawl CL Plus, and is thus 50% Brawl CL Plus and 25% Snowmass by parentage. While Brawl CL Plus is in the parentage, growers should note that Snowmass 2.0 is not tolerant to Beyond™ herbicide. Snowmass 2.0 has shown high dryland and irrigated yields, good drought stress tolerance and winterhardiness, good grain protein content (measured as "grain protein deviation"), and excellent milling and baking quality. Snowmass 2.0 expresses a significantly lower level of polyphenol oxidase (PPO) in the grain which favors its use in whole grain flour and noodle products. Snowmass 2.0 is moderately resistant to prevalent races of stripe rust, intermediate to leaf rust, resistant to stem rust, moderately susceptible to wheat soilborne mosaic virus, moderately resistant to wheat streak mosaic virus, and susceptible to prevalent biotypes of Hessian fly. Snowmass 2.0 has moderate pre-harvest sprouting tolerance, similar to Snowmass, Antero, and Sunshine and at least as good as most adapted hard red winter wheat varieties grown in Colorado. Snowmass 2.0 is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Grain of Snowmass 2.0 may only be grown under contract in the CWRF-Ardent Mills Ultragrain® Premium Program. Participants in the program will need to sign a Grain Pricing Schedule with Ardent Mills which details contract terms and requires planting of certified seed. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

SNOWMASS 2.0 HARD WHITE WINTER WHEAT (*cont.*)-

COUNTY/NAME/CITY	*PH*	*CLASS*
Adams		
Progressive Capital	Byers 720-244-6775	R & C
Elbert		
Kochis Farms	Matheson 719-775-2596	C
Logan		
Anderson Wheat Farms	Haxtun 970-774-4143	C
Ring, Terry	Crook 970-253-5009	C
Phillips		
Eagle Farms	Holyoke 970-854-5328	C
Sedgwick		
Carlson Grain	Julesburg 970-474-2715	C
Weld		
Cooksey Farms	Roggen 970-396-9084 970-396-8041	C

SUNSHINE HARD WHITE WINTER WHEAT - Sunshine was released by Colorado State University (CSU) in 2014. Sunshine is an awned, white-chaffed, early maturing wheat with medium height, a medium-long coleoptile, very good straw strength, and good test weight. Sunshine is derived from the cross KS01HW152-6/HV9W02-267W. Sunshine has shown good dryland and irrigated yields and very good milling and baking quality. Sunshine shows an intermediate reaction to prevalent races of stripe rust, moderate susceptibility to leaf rust, resistance to stem rust, moderate susceptibility to wheat soilborne mosaic virus, and good pre-harvest sprouting tolerance (similar to Hatcher, slightly better than both Snowmass and Antero). Sunshine is marketed by the Colorado Wheat Research Foundation under the PlainsGold™ Brand. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Prowers		
Schenck, Craig	Holly 719-688-6203	C

SOFT WHITE WINTER WHEAT

SY ASSURE SOFT WHITE WINTER WHEAT - SY Assure is a Soft White Winter Wheat developed by Syngenta Seeds, Inc. SY Assure was selected for high yield potential and test weight, lodging resistance and resistance to stripe rust. SY Assure has shown good adaptation in the high to moderate rainfall regions of western Idaho, eastern Washington, north-central and northeastern Oregon and irrigated production in the southern Snake River region of Idaho and the irrigated production areas of Washington.

SY Assure is resistant to the current predominant races of stripe rust and has no known insect resistance. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Larimer		
Revolution Soil and Seed	Fort Collins 970-666-1878	C

SY OVATION SOFT WHITE WINTER WHEAT - SY Ovation is a soft white winter wheat bred and developed by Syngenta Seeds, Inc. SY Ovation has shown good adaptation in the high to moderate rainfall regions of western Idaho, eastern Washington, north-central and northeastern Oregon and irrigated production in the southern Snake River region of Idaho and the irrigated production areas of Washington. SY Ovation is resistant to current predominant races of stripe rust. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety. – 1994 PVPA.

COUNTY/NAME/CITY	***PH***	***CLASS***
Larimer		
Revolution Soil and Seed	Fort Collins 970-666-1878	C

TRITICALE

SY TF 813 TRITICALE-
SY TF 813 is a tall semi-dwarf cultivar of winter triticale which is shorter statured than 348 triticale. It matures earlier and is more productive than 348 but somewhat later than TAMCALE 5019. Grain yields of SY TF 813 have been substantially higher than the silage variety 348 and significantly greater than the forage cultivar TAMCALE 5019. SY TF 813 is well suited for multiple uses. Its vegetative biomass production in the fall is superior to 348 and TAMCALE 5019 and silage harvests also have been equal to or greater than check cultivars. SY TF 813 is uniformly awnletted which is preferred for hay and silage over fully awned cultivars. SY TF 813 generally produces silage with higher crude protein and higher relative feed value than either 348 or TAMCALE 5019. SY TF 813 is sufficiently winter hardy to withstand the cold temperatures characteristic of the Texas Panhandle and western Kansas. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Kit Carson		
Eastern Colorado Seeds, LLC.	Burlington 866-655-7380	C
Rio Grande		
Colorado Seed LLC	Monte Vista 719-852-3505	R & C
Sedgwick		
Green Cover Seed	Bladen, NE 402-469-6784	C
Weld		
Revolution Soil and Seed	Fort Lupton 970-666-1878	R

841446398 WINTER TRITICALE-
841446398 is an awnletted winter triticale developed by Northern Agri-Brands LLC. 841446398 was selected for its awn length, lodging resistance, substantially higher seed yield, and high silage forage yield. It posseses excellent lodging tolerance. Certified seed of this variety became available in Fall 2017. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Weld		
PGS Hybrids	Longmont 303-827-5784	R
Revolution Soil and Seed	Fort Lupton 970-666-1878	C

934271498 WINTER TRITICALE-
934271498 is a winter triticale developed by Northern Agri-Brands LLC. It was selected for silage yield production, improved grain yield, winter hardiness and awnlessness. Certified seed of 934271498 became available in 2021. Unauthorized Propagation Prohibited – To Be Sold By Variety Name Only As A Class Of Certified Seed – U.S. Protected Variety – 1994 PVPA.

COUNTY/NAME/CITY	*PH*	*CLASS*
Rio Grande		
Colorado Seed LLC	Monte Vista 719-852-3505	R & C
Sedgwick		
Green Cover Seed	Bladen, NE 402-469-6784	C

APPROVED CERTIFIED SEED CONDITIONERS

The Approved Conditioner Program in Colorado is designed to fill the need for efficient cleaning and distribution of Colorado Certified Seed. Approved seed conditioners are regular members of the Colorado Seed Growers Association and provide quality assurance for the seed producer and the seed customer. An approved conditioner is not only responsible for cleaning certified seed, but also serves as a connection between the seed producer and the seed trade. Approved conditioners include: 1) firms that are authorized to purchase field-approved seed and move it into their plants for conditioning, submit samples for laboratory analysis, order tags, labels or bulk sales certificates, and merchandise the finished product, and 2) firms that provide seed cleaning and handling services which prepare the certifiable seed to be marketed by its grower. According to CSGA standards, all certifiable hard red winter wheat must be cleaned by an approved conditioner that has secondary equipment capable of removing jointed goatgrass. Such conditioners are noted with *. The following list does not include seed producers approved to condition only their own seed.

AAA Vidas Mobile Seed Cleaning*
Goodland, KS (Portable) 409-795-0123

Andrews Brothers Seed*
Yuma 970-848-0709

Colorado Seed, LLC*
Monte Vista 719-852-3505

Cooksey Farm*
Roggen (Portable) 970-396-9084
970-396-8041

Grain Conditioning 2 Inc.*
Conifer (Portable) 724-650-5774

Heritage Seed & Grain, LLC*
Flagler 719-760-9768

APPROVED CONDITIONERS
(cont.)

Kalcevic Farms Inc.*	
Bennett	303-644-3443
Curtis Lewton*	
Bennett	303-803-8581
Midcap Seed & Grain*	
Wiggins	970-483-5265
The Pachner Outfit*	
Gage, OK (Portable)	580-273-5094
Perry Bros. Seed, Inc.*	
Otis	970-246-3401
Producers Co-op	
Olathe	970-323-6343
Revolution Soil and Seed*	
Fort Lupton	970-666-1878
Roggen Farmers Elevator	
Roggen	303-849-5506
Southwest Seed Inc.	
Dolores	970-565-8722
Splitter Farms*	
Sheridan Lake (Portable)	719-729-3567
Twin Peaks Seed & Grain, LLC*	
Longmont	303-772-7333
Wagers Seed*	
Woodrow (Portable)	970-554-0057
Worley Family Farms, LLC	
Monte Vista (Portable)	719-852-4097

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