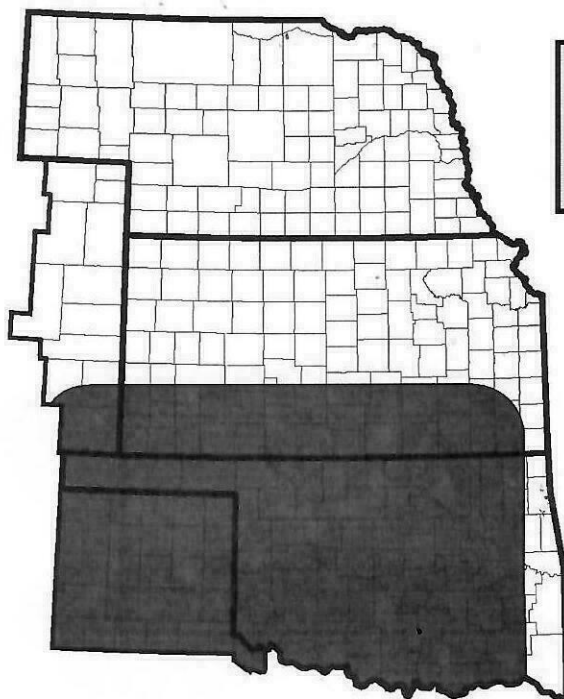


ORANGE BLOSSOM CL+

Optimal Uses

- ☒ Grain only
- ☒ Grain plus limited grazing
- ☒ Heavy grazing plus grain
- ☐ Pasture graze-out
- ☒ Irrigation
- ☐ Double Crop



- Class: Hard Red Winter, Clearfield
- Licensee: Oklahoma Genetics, Inc.
- Developer: Oklahoma State University
- Pedigree: 2/3 Doublestop CL+
- Year Released: 2025
- Variety Protection: PVP



DISEASE & PEST RATINGS

Barley yellow dwarf	Intermediate
Hessian Fly	Field Tolerant
Leaf Rust	Resistant
Stem Rust	N/A
Stripe Rust	Highly Resistant
Powdery Mildew	Moderately Resistant
Scab (FusariumHB)	Presumed Susceptible
Septoria Leaf Blotch	M.Resistant - Intermediate
Soilborne Mosaic	Susceptible
Tan Spot	M.Resistant - Intermediate
Wheat Streak Mosaic	Moderately Resistant

AGRONOMICS

Acid Soil Tolerance	Tolerant
Coleoptile Length	Longer than most
Drought Tolerance	Good
Early Spring Greenup	Moderately Late
Fall Ground Cover Capability	Good
Fall Grazing Potential	Good
Height	Tall Semidwarf
Maturity (Heading Date)	Moderately Late
Protein	Above Average
Quality: Baking	Acceptable
Quality: Milling	Desirable
Seed Size	Large
Shattering Reputation	Good
Straw Strength	Very Good
Test Weight	Exceptionally High
Tillering	Good
Winterhardiness	Good
Overall Yield Record	Very Good

Comments:

Orange Blossom CL Plus is a superior successor to Doublestop CL Plus, wherever the latter is currently grown. These two varieties share more than 60% of their genes in common, so familiarity with one guarantees familiarity with the other. Orange Blossom CL Plus does, however, differ from Doublestop CL Plus (and Strad CL Plus) in three key areas:

- 1) 14% greater yield across multiple site-years, usually in the absence of a fungicide,
- 2) categorical improvement in stripe rust resistance expressed earlier in plant development, and
- 3) lower mixing tolerance detectable by the farinograph.

Strengths:

- Better test weight than most HRW varieties
- High protein, high yield
- Tall wheat with good standability; long coleoptile

Weaknesses:

- Lacks resistance to WSBM/WSSM complex

Notes:

- Breaks dormancy slightly earlier than Doublestop CL+

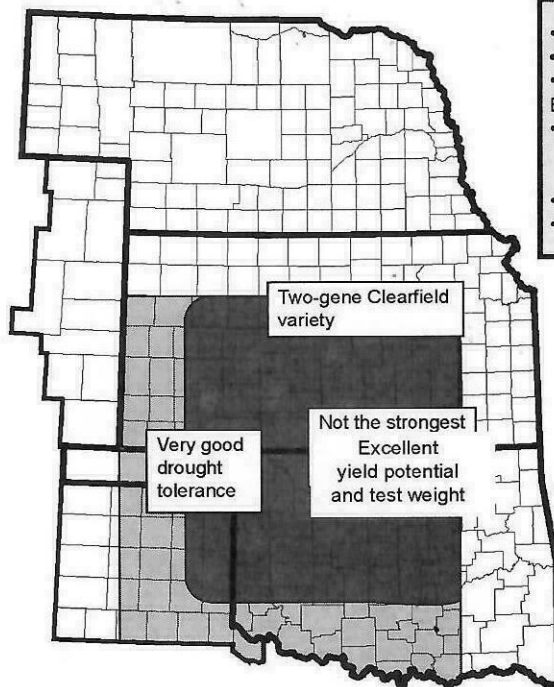
Special notes on cultural practices:

- Clearfield Production System

DOUBLESTOP CL +

Optimal Uses

XX	Grain only
XX	Grain plus limited grazing
XX	Heavy grazing plus grain
	Pasture graze-out
	Irrigation
	Double Crop



- **Class:** Hard Red Winter, Clearfield
- **Licensee:** Oklahoma Genetics, Inc.
- **Developer:** Oklahoma Agricultural Experiment Station, OSU
- **Pedigree:** Experimentals with lineage to Mason, Jagger, 2174, TAM 110, and Intrada, (OK09915C-1)
- **Year Released:** 2013
- **Variety Protection:** PVP



Comments:

Doublestop CL Plus is a very consistent two-gene Clearfield variety. By having two genes for herbicide tolerance, Doublestop CL Plus has much better tolerance to Beyond® herbicide than one-gene Clearfield varieties. You can also use methylated seed oil (MSO) with Beyond® when making the herbicide application to this variety, which can improve control of feral rye, cheatgrasses, jointed goatgrass, and other problem grasses.

Doublestop CL Plus generally has a good yield record in K-State and OSU tests and predictable field reports from Oklahoma and southern Kansas. It has also performed with good results in Colorado trials. It is resistant to Soilborne Mosaic and tolerant to acid soils, which gives it adaptability to both central and western Oklahoma and Kansas. Its protection against wheat streak mosaic was discovered recently in field trials in Oklahoma and Nebraska.

Its pedigree includes a wide range of different lines and varieties, giving it a well-buffered genetic background.

Listed as a Grain Craft Preferred Variety.

Strengths:

- Very good yield potential with very good yield protection
- Very good test weights
- Long coleoptile
- Strong herbicide tolerance for Clearfield system

Weaknesses:

- Can be late maturing in most years.

Special notes on cultural practices:

- Adapted to both central and western areas.
- Two-gene Clearfield variety for improved crop safety and feral rye control.

DISEASE & PEST RATINGS

Barley yellow dwarf	Moderately Susceptible
Hessian Fly	Susceptible
Leaf Rust	Resistant
Stem Rust	Resistant
Stripe Rust	Resistant
Powdery Mildew	Intermediate
Scab (FusariumHB)	Susceptible
Septoria Leaf Blotch	Intermediate
Soilborne Mosaic	Resistant
Tan Spot	Intermediate
Wheat Streak Mosaic	Intermediate

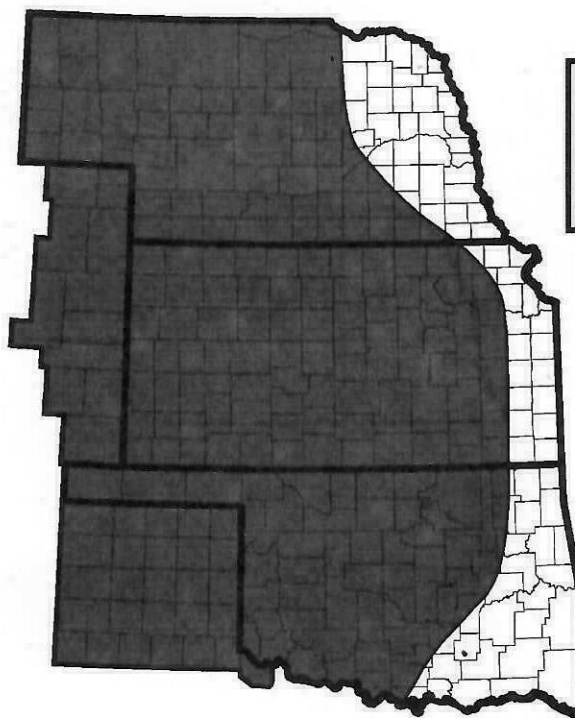
AGRONOMICS

Acid Soil Tolerance	Tolerant
Coleoptile Length	Very Long
Drought Tolerance	Very Good
Early Spring Greenup	Starts later than most
Fall Ground Cover	Very Good
Fall Grazing Potential	Excellent
Height	Tall
Maturity (Heading Date)	Late
Protein	Higher than most
Quality: Baking	Highly Desirable
Quality: Milling	Exceptional
Seed Size	Large
Shattering Reputation	Good
Straw Strength	Good
Test Weight	Very Good
Tillering	High
Winterhardiness	Very Good
Overall Yield Record	Excellent

LCS ATOMIC AX

Optimal Uses

X	Grain only
X	Grain plus limited grazing
X	Heavy grazing plus grain
X	Pasture graze-out
X	Irrigation
XX	Double Crop



- **Class:** Hard Red Winter, CoAxiium
- **Licensee:** Limagrain Cereal Seeds
- **Developer:** Limagrain Cereal Seeds
- **Pedigree:** Undisclosed
- **Year Released:** 2019
- **Variety Protection:** PVP, CSO



DISEASE & PEST RATINGS

Barley yellow dwarf	Intermediate
Hessian Fly	Susceptible
Leaf Rust	Intermediate
Stem Rust	Susceptible
Stripe Rust	Resistant
Powdery Mildew	Moderately Susceptible
Scab (FusariumHB)	Moderately Resistant
Septoria Leaf Blotch	Moderately Susceptible
Soilborne Mosaic	Moderately Resistant
Tan Spot	Susceptible
Wheat Streak Mosaic	Moderately Resistant

AGRONOMICS

Acid Soil Tolerance	Tolerant
Coleoptile Length	Medium-Short
Drought Tolerance	Average
Early Spring Greenup	Intermediate
Fall Ground Cover Capability	Very Good
Fall Grazing Potential	Good
Height	Medium
Maturity (Heading Date)	Early
Protein	Above Average
Quality: Baking	Acceptable
Quality: Milling	Acceptable
Seed Size	Large
Shattering Reputation	Very Good
Straw Strength	Good
Test Weight	Good
Tillering	Intermediate
Winterhardiness	Very Good
Overall Yield Record	Excellent

Comments:

LCS Atomic AX is a medium-short wheat with early maturity (It matures a few days earlier than LCS Helix AX.) This variety handles heat and drought well, providing yield stability in dry years, and reaching top-end yields in better conditions. Due to its early maturity, it can be planted later in the optimal planting window, or grazed.

LCS Atomic AX is rated intermediate or better on Wheat Streak Mosaic Virus complex, demonstrating field resistance, while not carrying genetic resistance to wheat curl mite. It ranks alongside LCS Galloway AX, which does carry curl mite resistance. See the variety comparison chart in Chapter 5, *Wheat Streak Mosaic Virus*.

Its disease package also includes resistance to stripe rust, and carries the highest-rated resistance to scab/FHB.

As a CoAxiium variety, it is resistant to Aggressor® brand herbicides, making it a tool for cleaning up fields with bromus species, feral rye, cereal rye, jointed goatgrass, wild oats, and volunteer cereals.

Strengths:

- Widely adapted
- Consistency with top-end potential
- Stripe Rust Resistance
- Heat tolerance

Weaknesses:

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Special notes on cultural practices:

- Use with Aggressor® herbicide, avoid environmental extremes when applying Aggressor® herbicide



ROCK STAR

Optimal Uses

X	Grain only
X	Grain plus limited grazing
	Heavy grazing plus grain
	Pasture graze-out
	Irrigation
	Double Crop



- **Class:** Hard Red Winter
- **Licensee:** Polansky Seed
- **Developer:** Undisclosed
- **Pedigree:** Undisclosed
- **Year Released:** 2019
- **Variety Protection:** PVP

DISEASE & PEST RATINGS

Barley yellow dwarf	Intermediate
Hessian Fly	Susceptible
Leaf Rust	Intermediate
Stem Rust	Moderately Resistant
Stripe Rust	Resistant
Powdery Mildew	Moderately Susceptible
Scab (FusariumHB)	Moderately Susceptible
Septoria Leaf Blotch	Resistant
Soilborne Mosaic	Resistant
Tan Spot	Moderately Resistant
Wheat Streak Mosaic	Moderately Resistant

AGRONOMICS

Acid Soil Tolerance	Tolerant
Coleoptile Length	Medium-Long
Drought Tolerance	Good
Early Spring Greenup	Intermediate
Fall Ground Cover Capability	N/A
Fall Grazing Potential	Good
Height	Medium
Maturity (Heading Date)	Medium
Protein	Average
Quality: Baking	More Desirable
Quality: Milling	More Desirable
Seed Size	Medium
Shattering Reputation	Very Good
Straw Strength	Very Good
Test Weight	Good
Tillering	High
Winterhardiness	Excellent
Overall Yield Record	Excellent

Comments:

Rock Star has been a standout variety since its release in 2019 from Polansky Seed. In high-yield environments, Rock Star is a leading variety.

Rock Star is positioned over a wide geographical area spanning Kansas (a top-planted variety in north east Kansas), Northern Oklahoma, and the south half of Nebraska.

It is a medium-maturing variety with an excellent leaf/stem/stripe rust package, and resistance to main diseases. As it tolerates FHB, it is a good option following corn.

Strengths:

- Disease package, scab resistance
- Leader in high-yield environments

Weaknesses:

- Hessian fly
- Powdery mildew

Special notes on cultural practices:

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GOLDEN HAWK

Optimal Uses

X

Grain only

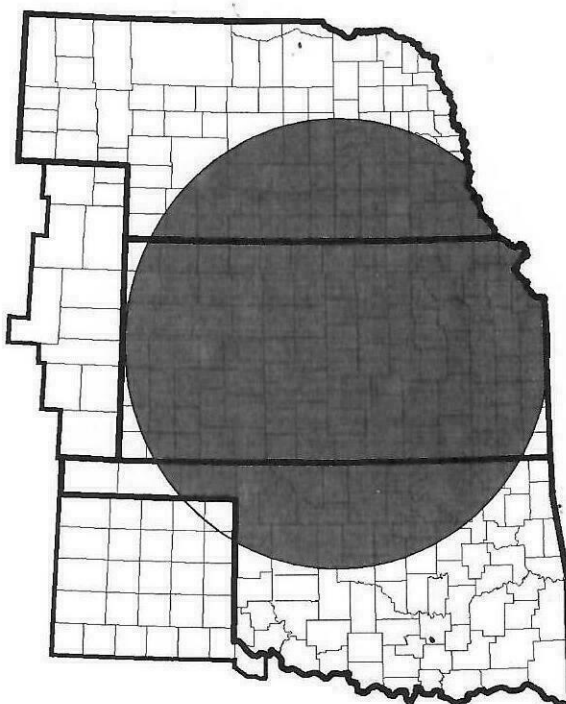
X

Grain plus
limited grazingHeavy grazing
plus grain

Pasture graze-out

Irrigation

Double Crop



- **Class:** Hard Red Winter
- **Licensee:** Polansky Seed
- **Developer:** Undisclosed
- **Pedigree:** Undisclosed
- **Year Released:** 2024
- **Variety Protection:** PVP

DISEASE & PEST RATINGS

Barley yellow dwarf	Moderately Resistant
Hessian Fly	Susceptible
Leaf Rust	Intermediate
Stem Rust	Resistant
Stripe Rust	Moderately Resistant
Powdery Mildew	N/A
Scab (FusariumHB)	Intermediate/MS
Septoria Leaf Blotch	Moderately Resistant
Soilborne Mosaic	Resistant
Tan Spot	Intermediate
Wheat Streak Mosaic	Intermediate

AGRONOMICS

Acid Soil Tolerance	Tolerant
Coleoptile Length	Medium
Drought Tolerance	Very Good
Early Spring Greenup	Intermediate
Fall Ground Cover Capability	Good
Fall Grazing Potential	Good
Height	Medium-Short
Maturity (Heading Date)	Medium
Protein	Average
Quality: Baking	More Desirable
Quality: Milling	More Desirable
Seed Size	Medium
Shattering Reputation	Very Good
Straw Strength	Very Good
Test Weight	Good
Tillering	High
Winterhardiness	Very Good
Overall Yield Record	Excellent

Comments:

Golden Hawk, from Polansky Seed, is a medium-maturing variety that stands well and has a wide geographical area of adaptation along with an exceptional disease package. Golden Hawk is targeted for all of Kansas except the far west, northern Oklahoma, and the southern half of Nebraska.

It tolerates FHB as well as the leading varieties, and has very good Aluminum tolerance in low PH soils. Golden Hawk can be planted following corn or soybeans or continuous wheat / wheat fallow.

Golden Hawk has a very good track record in K-State variety trials, showing consistency across all environments.

Strengths:

- Can be planted behind corn, beans or wheat
- Excellent overall plant health
- Consistent over a wide area of adaptation

Weaknesses:

- Susceptible to Hessian Fly

Special notes on cultural practices: