

<i>Phenotypic Variants Accepted as a Part of Variety Description</i>		
<b>(REVISED 6/22/16)</b>		
<b>10 centimeters = 3.937 inches</b>		
<b>VARIETY</b>	<b>PHENOTYPE OF VARIANT</b>	<b>ACCEPTANCE TOLERANCE IN EXCESS OF FIELD STANDARD</b>
<b>BARLEYS</b>		
BG 006 Hulless Spring Barley	Hulless variant Non Waxy endosperm	4/10,000 8/10,000
BG 012 Hulless Spring Barley	Covered Variant Non Waxy endosperm	8/10,000 8/10,000
BG 104 Hulless Spring Barley	Hulled Long Awned	18/10,000 plants 18/10,000 plants
BG 161 Hulless Spring Barley	Long awned (either 2 or 6 rowed)	5/10,000 plants (0.05%)
Champion Spring Barley	4" – 8" taller	4/10,000
Explorer Spring Barley	variable awn length height variation up to 10cm sterile heads	1/10,000 plants 1/10,000 plants 1/10,000 plants
Full Pint Spring Barley	slightly longer heads, deficiens type lateral florets. May be up to 6 inches taller.	1/1,000 **For 2016 production only**
Hoody Winter Barley	short awn, 6-row & 2-row	1/1,000 – Foundation 2/1,000 – Registered & Certified
LCS Genie Spring Barley	6-8" taller than canopy	1/1,000
LCS Saturn Winter Barley	Taller plants	0.25%
LCS Vespa Spring Barley	Taller plants	0.25%
Oreana Spring Barley	Taller plants 4-8"	4/10,000
Stockford Hooded Spring Barley	6 Rowed Awned 2 Rowed Awned 6 Rowed Hooded	4/10,000 4/10,000 2/10,000
Verdant Winter Hooded Barley	Hooded Heads 1 inch longer than average Awned heads Hooded Heads 1 inch longer than average Awned Heads	2.5/10,000 – Foundation Class 10/10,000 –Foundation Class 5/10,000 – Registered & Certified Class 20/10,000 – Registered & Certified Class
<b>BUCKWHEATS</b>		
Koto Buckwheat	Red pericarp(husk/hull)	1/10,000 plants
<b>CHICKPEAS</b>		
CDC Alma Spring Chickpea	Purple flower or unifoliate leaves	6/10,000 foundation 8/10,000 registered 10/10,000 certified
CDC Frontier Spring Chickpea	Purple Flower Unifoliate leaf Talls 60 cm Green cotyledons Simple leaf	6/10,000 Foundation per each 8/10,000 Registered per each 10/10,000 Certified per each
CDC Orion Spring Chickpea	Purple flower or unifoliate leaves	6/10,000 foundation 8/10,000 registered

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		10/10,000 certified
Troy Spring Chickpea	Simple leaf	0.02%
<b>OATS</b>		
114 Spring Oat	8" – 10" taller, with more open panicle with white seed	0.10%
Kona Oat	With awn, taller plant	Less than 1% combined
	With bent awn, taller plant	
<b>TRITICALES</b>		
0-107 Spring Triticale	Tip awns to 2 ½ Inches	1%
102 Winter Triticale	6" – 11" taller	1/6,500
	inclined spikes	1/6,000
	tan to light brown heads	1/5,000
118 Spring Triticale	Taller variants	0.50%
141 Spring Triticale	Awned variants	0.50%
	Tall variants	0.50%
336 Winter Triticale	20 – 25cm taller, white chaff	1%
	awnless, awnletted, or curled awns	0.10%
348 Winter Triticale	4 to 5 cm awns hairy neck	0.50%
765 Winter Triticale	Awnletted Head Possible pubescence on some stools	30%
815 Winter Triticale	5 – 10cm taller plants	3%
	brown, bronze, & red heads	2%
	awnless heads	0.50%
2700 Spring Triticale	spike attitude	1/6,000
	taller plants	1/6,500
	brown, bronze, & red heads	Not stated
	taller, awnless heads	Not stated
Bobcat Winter Triticale	Longer awns	1/5,000
Forerunner Winter Triticale	Elongated awns at various height and sterile spikes	Up to 0.5%
Merlin Spring Triticale	awnletted heads	up to 0.5%
<b>WHEATS</b>		
4941026 Hard Red Spring Wheat	10-15 cm Taller Awnless	.2% .01%
4951893 Hard Red Spring Wheat	15-20 cm taller Bronze Head Awnless	.2% .1% .1%

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4972951 Hard Red Spring Wheat	15-20 cm taller Bronze Head Awnless	.2% .1% .1%
Alzada Spring Durum Wheat	Black-awned	0.2% (20/10,000)
	15 – 30 cm taller	0.2% (20/10,000)
AP 503 CL2 Hard Red Winter Wheat	Taller plants 8-15 cm	Up to combination of 1.0%
	Awnletted	
AP604CL Hard Red Spring Wheat	Taller 1" to 3" awned	Up to combination of 1.0%
	Awnless plants	
AP700CL Soft White Winter Wheat	Taller	Up to 1%
AP Badger Soft White Winter Wheat	Taller Plants	Up to combination of 1.0%
	Awnletted Head	
AP Legacy Soft White Winter Wheat	Taller Plants	Up to combination of 1.0%
	Awnletted Head	
Bauermeister Hard Red Winter Wheat	2" – 10" taller	1/10,000
	Variable awn length	
	red/tan chaff or awns	
Bobtail Soft White Winter Wheat	Taller 2-4" and plants with an awned spike	1% combined
BR7030W Hard White Spring Wheat	Black awned plants	0.001%
Breaker Hard Red Spring Wheat	Taller 10-20 cm	Up to .1% foundation, up to .5% registered and certified
Bruehl Soft White Winter Club Wheat	Awnless, common, taller	
	Awned, common	
	Awnless, club	combination 1/10,000
	Awned, very compact club heads	
	Semi-compact intermediate heads	
	..... Awn length variability	.....
	8"-10" taller	combination 1/10,000
Buchanan Hard Red Winter Wheat	Red Chaff, awned	1/10,000
Bullseye Hard Red Spring Wheat	Taller or shorter plants	Up to 1.0% combination
Cara Soft White Winter Club Wheat	Awnless Common Head	1/10,000 Combined
	Awned or Partially Awned Common Head	
	Awned Club Head	
	Semi-Compact – Slim Heads Intermediate Between Club and Common Head Type	
	4" to 8" Taller	
Cabernet Hard Red Spring Wheat	10-25 cm taller	0.08%
	0-10 cm taller longer tapering head	0.05%
CDC Falcon Hard Red Winter Wheat	4" – 6" taller	1:1,250
	red chaff	1:1,666

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Chukar Soft White Winter Club Wheat	Awnless, common head	combination: 1/20,000
	Awned or partially awned common head	
	Awned, compact club head	
	Awnless, compact club head	
	Semi-compact heads, intermediate between club and common head types 4" – 6" taller	
Corbin Hard Red Spring Wheat	10-15 cm taller Awnless	.2% .1%
Declo Hard Red Winter Wheat	Brown chaff	All found
Eddy Hard Red Winter Wheat	4" – 8" taller	8/10,000
Eltan Soft White Winter Wheat	Taller Plants up to 3"	Less than 1%
Esperia Hard Red Winter Wheat	7-8" taller	1/15,000 heads
Espresso Hard Red Spring Wheat	Awnless	Up to .5%
	12-30 cm taller	Up to .5%
Fineway Hard Red Imi Winter Wheat	White chaff	1/5,000
Glee Hard Red Spring Wheat	taller by about 4" or 1 head	.005% (1/20,000 heads)
Goetze Soft White Winter Wheat	2-6" taller	5/10,000 combined
	Awnless spikes	
	Bronze(red or tan) chaff spikes	
Hank Hard Red Spring Wheat	4 to 8 inches taller	8/10,000 (0.08%)
Hill 81 Soft White Winter Wheat	Some taller plants	Not quantified
Jasper Soft White Winter Wheat	bronze-brown chaff color	1/10,000 combined
	variable head morphology including clavate/club type	
	plans up to 6" taller	
Jedd Hard Red Spring (Clearfield)	Tan and or Reddish Chaff Color	Up to .10% (10 per 10,000 plants)
Keldin Hard Red Winter Wheat	1 -2 heads taller	25/10,000
LCS Artdeco Soft White Winter Wheat	Awnless or Awnletted plants	1/1,000
	1-2 heads taller	1/1,000
LCS Aymeric	Talls up to 2 spike lengths above main canopy	5/1,000
	Red/brown glumed plants	1/1,000
	Awned plants	1/1,000
LCS Azimut Hard Red Winter Wheat	Awned Taller 1-2 heads	1/1,000 1/1,000
LCS Biancor Soft White Winter Wheat	Taller-up to 2 spike lengths above canopy	1/1,000 plants
	Awnless	1/1,000 plants

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LCS Colonia Hard Red Winter Wheat	Taller	1/1,000
	Awned Plants	1/1,000
LCS Drive	Up to 2 spike lengths taller	5/1,000
	Red/brown glumed plants	1/1,000
	Awnless plant	1/1,000
LCS Evina	Up to 2 spike lengths taller	5/1,000
	Red/brown glumed plants	1/1,000
	Awned plants	1/1,000
LCS Jet Hard Red Winter Wheat	Taller-up to 2 spike lengths above canopy Awnless	1/1,000 plants 1/1,000 plants
LCS Star	taller plants (1-3 spike lengths), earlier plants, red/brown glumed plants	up to 1% combination in the field
Ladd Soft White Winter Wheat	Awnless or Awnletted plant	1 per 20,000 plants (.005%)
Legion Soft White Winter Wheat	Taller Plants , Awnletted plants	Up to 1.0% combined
Madsen Soft White Winter Wheat	tan/red, common, long awn	combination: 1/337,000
	1 foot taller	
Malbec Hard Red Spring Wheat	Variable canopy by up to 8 inches	
Masami Soft White Winter Wheat	Awnless, common head	Combination 1/10,000
	2"-10" taller	
	Variable awn length	
	Red/tan chaff or awns	
Mohler Soft White Winter Wheat	Awnless	1/10,000
	Red chaff	1/10,000
	1-2 heads taller	8/10,000
Nick Soft White Spring Wheat	4 – 8" taller	15 /10,000
Norwest 553 Hard Red Winter Wheat	2" to 6" taller	1 / 10,000 Combined
	Awnless spike – bronze (red or tan)	
	Chaff spike	
ORCF-101 (Clearfield) Soft White Winter Wheat	8 – 15 cm taller	1/10,000 Combined
	Bronze (red or tan) heads	
ORCF-102 (Clearfield) Soft White Winter Wheat	8 – 15 cm taller	1/10,000 Combined
	Bronze (red or tan) heads	
ORCF-103 (Clearfield) Soft White Winter Wheat	8-21 cm taller	2/10,000 combined all variants
	Bronze (red or tan) chaff spikes	
Otto Soft White Winter Wheat	Taller	5/10,000
Rimrock Hard Red Winter Wheat	1 -2 heads taller	45/10,000
	Red Chaffed	1/10,000
	Awnless	1/10,000
Rod Soft White Winter Wheat	Variable canopy height	All Clavate type common heads acceptable
Salute Soft White Winter Wheat	Awnletted common head Taller	combination: 2/10,000

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SAS W4 Hard Red Spring Wheat	taller and shorter 2-4 inches	Frequently
Seahawk Soft White Spring Wheat	Taller 4"	.005% 1/20,000 heads
Sinope Hard Red Winter Wheat	White chaffed awned	1/10,000 heads
Skiles Soft White Winter Wheat	2" to 6" taller (more distinct in high production)	Up to 2/10,000 combined
	Plants with awnless spike	
	Bronze(red or tan) chaff spikes	
Snowcrest HW Spring Wheat	15 – 30 cm Taller	Up to .2%
Solano Hard Red Spring Wheat	12 - 24 cm taller	0.10%
	Awnless	0.10%
Sprinter Hard Red Winter Wheat	Dark Chaff	1/10,000 plants
SY 107 Soft White Winter Wheat	3 – 6 inches taller	1.00%
SY605 CL Hard Red Spring Wheat	8 – 15 cm taller	1.00%
SY Basalt Hard Red Spring Wheat	Taller 5-10 cm and/or 2-3 days early maturity	combination of up to 1%
SY Capstone Hard White Spring Wheat	Heads vary in canopy	All found
	By 20 cm	
SY Clearstone 2CL Hard Red Winter	Talls and Red chaffed	25/10,000 plants and 3/10,000 plants
SY Coho Hard Red Spring Wheat	1.6 to 3.2 inches taller	up to 1% combined
SY Ovation Soft White Winter Wheat	3 – 6 inches taller	Up to 1.0%
SY Selway Hard Red Spring Wheat	1.2 to 4 inches taller	up to 1% combined
Tubbs 06 SW Winter Wheat	8 – 15 cm Taller	1/10,000
	Bronze (red or tan) heads	
UI Stone SW Spring Wheat	1 – 2 Inches taller	Up to 1 in 10,000 combined
	Bronze or Tan Chaff Spikes	
UI-WSU Huffman Soft White Winter Wheat	Red Chaff	up to 2/1,000
	Talls	up to 2/1,000
UI Magic	awnless plants	5/1,000
	later flowering or greener	3/1,000
	taller plants, up to 8" above canopy height	2/1,000
UI Palouse	blue-green color	1/1,000
	awned plants	1/1,000
	taller plants, up to 8" above canopy height	1/1,000
Volt Hard Red Spring Wheat	taller 1-2 heads	.1%
	Awnless	.01%
Waieka Hard White Spring Wheat	1 to 2 heads taller	4/10,000
WB 456 SW Winter Wheat	Red Chaff	1/10,000
	Taller plants – 1 to 2 heads taller	8/10,000
WB 523 Soft White Winter	Red chaff	1/10,000
	1 - 2 heads taller	8/10,000
WB 528 Soft White Winter Wheat	1 to 2 heads taller	15/10,000

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WestBred 926 Hard Red Spring Wheat	10 cm taller	1/20,000
WestBred 936 Hard Red Spring Wheat	1 - 2 heads taller red chaff	all found
WB 1020CL Soft White Winter Wheat	1 – 2 Head taller	45 plants/10,000
WB-1035CL+ Soft White Spring Wheat	4 -8 Inches Taller Red or Brown Chaff	.1% (10/10,000 plants) .01% (1/10,000 plants)
WB 1066CL Soft White Winter Wheat	1 -2 Heads taller	15/10,000
WB 1070 CL Soft White Winter Wheat	1 – 2 heads taller	15/10,000
WB-1081CL+ Soft White Winter Wheat	1 -2 Head taller	30 plants per 10,000
WB1529 Soft White Winter Wheat	Taller 1-2 heads	10 plants/10,000
WB1604 Soft White Winter Wheat	Taller 1-2 heads	10 plants/10,000
WB1843 Soft White Winter Wheat	Taller 1-2 heads	10 plants/10,000
WB 3768 Hard White Winter Wheat	Taller Dark Chaff	<5/10,000 <1/10,000
WB4059CLP Hard Red Winter Wheat	Taller Taller and awned Red chaffed	80/10,000 20/10,000 10/10,000
WB4303 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
WB4458 Hard Red Winter Wheat	White Chaff Talls	up to .25% up to .01%
WB4462 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
WB4483 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
WB4515 Hard Red Winter Wheat	10-15 cm Taller Awnless Bronze Head	0.2% 0.1% 0.1%
WB4614 Hard Red Winter Wheat	Taller 15-30 cm	Up to .2%
WB4623CLP Hard Red Winter Wheat	10-15 cm taller	0.15%
WB6121 Soft White Spring Wheat	Taller 1-2 heads	Up to .15%(15 plants/10,000)
WB6341	1-2 heads taller	15/10,000 plants
WB6430 Soft White Spring Wheat	Taller 1-2 heads	10/10,000
WB7328 Hard White Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000 plants) .02% (2/10,000)

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WB7390 Hard White Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% .1% .1%
WB7417 Hard White Spring Wheat	10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
WB7589 Hard White Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .01% .10%
WB7618 Hard White Spring Wheat	Taller 15-30 cm	0.20%
WB9112 Hard Red Spring Wheat	12-30 cm taller	20/10,000
WB-9229 Hard Red Spring Wheat	12 – 30 cm Taller	0.2%;
WB9377 Hard Red Spring Wheat	10-20 cm Taller Awnless Bronze Head	.2% .01% .1%
WB9411 Hard Red Spring Wheat	10-15 cm Taller Awnless Bronze Head	.2% .02% (2/10,000) .01% (1/10,000)
WB9507 Hard Red Spring Wheat	10 cm taller	1/500 = 20/10,000
WB9518 Hard Red Spring Wheat	1-2 heads taller	15/10,000
WB9576 Hard Red Spring Wheat	Taller 1-2 heads	Up to 10 plants/10,000
WB9653 Hard Red Spring Wheat	15-20 cm Taller Bronze Head Awnless	.2% .1% .1%
WB9668 Hard Red Spring Wheat	Taller 1-2 heads	10/10,000 plants
WB9879CLP Hard Red Spring Wheat	1-2 heads taller	30/10,000
WB-Arrowhead Hard Red Winter Wheat	1 – 2 heads taller	.1% (10/10,000 plants)
	White chaffed plants	.005% (5/100,000 plants)
WB Caliente Hard Red Spring Wheat	12 – 24 cm taller	0.20%
	Awnletted head	0.20%
WB-Cedar Hard Red Winter Wheat	5-10 cm taller	0.50%
	Brown/Bronze chaff	0.10%
WB-Cristallo Hard White Spring Wheat	12 – 25 cm Taller	0.20%
WB-Fuzion Hard Red Spring Wheat	Taller Plants – 1-2 heads higher	10 /10,000
	White Chaff	1/10,000
WB-Gunnison Hard Red Spring Wheat	1-2 heads taller	10/10,000 plants(.10%)
	Red chaffed	5/100,000 plants(.005%)
WB-Hartline Hard White Spring Wheat	1-2 heads taller	10/10,000 plants (0.10%)
	Red chaffed plants	5/100,000 plants (0.005%)
WB-Idamax Hard White Spring Wheat	1 -2 heads taller	.1% (10/10,000 plants)
	Awnless plants	.01% (1/10,000 plants)
	Red Chaff	.005% (5/100,000 plants)
WB-Junction Soft White Winter Wheat	1 -2 Heads taller	20/10,001



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WB-Matlock Hard Red Winter Wheat	20-25 cm taller Red Glume	.5% 1/10,000
WB-Mayville Hard Red Spring Wheat	15 – 30 cm Taller	.1% Foundation .05% Reg/Cert Class
WB-Paloma HW Spring Wheat	12 – 25 cm Taller	0.50%
WB-Patron HR Spring Wheat	12-30 cm Taller	0.20%
	Awned	0.20%
WB-Perla HW Spring Wheat	12 – 30 cm Taller	0.20%
WB-Prestea Hard White Spring Wheat	1-2 heads taller white chaff awnless	.1% .1% .1%
WB – Rockland Hard Red Spring Wheat	12 – 30 cm taller	0.20%
	Awnletted variant	0.20%
WB-Tucson Hard Red Winter Wheat	1 – 2 Heads Taller	45/10,000
	Red Chaff	1/10,000
Whetstone Hard Red Spring Wheat	Taller	1/1,000 (1.0%)
	Awnless	
	Bronze Chaff	
Xerpha Soft White Winter Wheat	2" to 8" taller	1/10,000
	Awnless heads, Club type heads	1/80,000