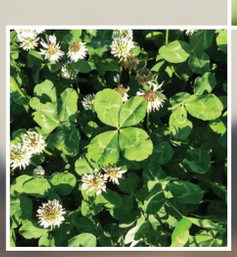
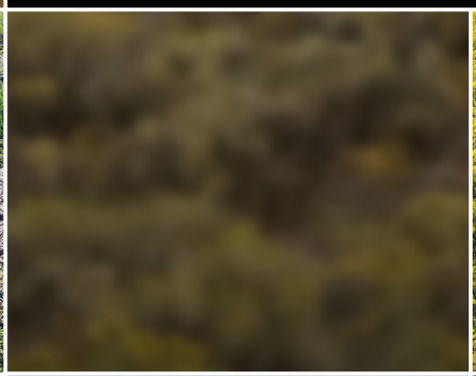
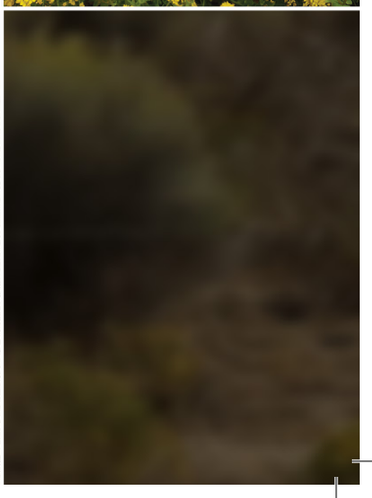


2020
Oregon Seed Certification Service
HANDBOOK





Oregon State University

2020 Oregon Certified Seed Handbook and Crop Standards Changes

Approved during the Certification, Foundation Seed and Plant Materials Board Meeting on February 19, 2020

Hemp

1. Approval of the Hemp Advisory Committee.
2. Amend the name of the previously approved Industrial Hemp Standards to Food Fiber and Grain Industrial Hemp Standards.
3. Amend the by-laws changing "researches" to "researchers".
4. Update the standards for "other crop" to be in line with AOSCA.
5. Approval of new standards for Essential Oil.
6. Approval to create a list available to the public for companies that have current production of certified hemp which includes: company name, email and phone number.

Small Grains

1. Update Corn Standards* to allow a 1/10th of an acre or less of other corn at 660 ft or greater for Foundation class.
2. Update Small Grains Standards removing the restriction of cereal hay livestock feeding in the field history.
3. Update the Small Grains Standards to require a seedling for all Foundation fields.
4. Update the Small Grains Standards to change the Special Requirements portion section L. Additional Certification Requirements to no longer refer to only one type of special testing, but to be inclusive to any type of additional lab testing.

Grass and Legumes

1. Update the rough bluegrass standards. Removing the words "as may be designated by the varietal description" from footnote 1.
2. Approval of new lentil standards.

Potato*

1. Update terminology from a generation system to a field year system to be in line with other potato programs.
2. Update the Winter Grow-Out to remove the downgrade system and have maximum tolerances allowed for lots to be allowed to be re-certified.
3. Update Potato Standards for how to report injury observed from chemical damage.

*Potato and corn standards can be found online at seedcert.oregonstate.edu.

Table of Contents

Specific Crop Standards

Legumes:

Grasses:

Other:

Cereals:

Additional Crop Standards can be found on the website: http://seedcert.oregonstate.edu

The Oregon Seed Certification Service program includes those crops listed above and Peppermint, Spearmint, Sugar Beets, Forest Tree Seeds, Native Plants, Lily bulbs, Potatoes and Corn. Separate requirements are maintained for these. For information about requirements not listed in this handbook, please contact the Seed Certification Office, 31 Crop Science, Oregon State University, Corvallis OR 97331-3003.

Sign-Up Deadlines[1]

Seedling Inspections:

Seedling Inspection: Within 60 days of planting, unless otherwise noted below.

Within 15 days for Alfalfa planted between January 1 and July 1.
Within 15 days for Red Clover planted between April 1 and July 1.
Within 15 days for spring planted Camelina.
Within 30 days for spring planted Utah Sweetvetch & Rocky Mountain Penstemon

Modified Land History and Pre-Plant Inspections:

Within 60 days of planned working of ground (see procedures http://seedcert.oregonstate.edu)

Crop Inspections:

March 15: Chickpea, Field Pea[2], Mustard, Oil Rape, Hybrid Annual Rape/Type Canola, Sunflower, Hybrid Sunflower; or within 30 days of planting if planted after March 1.

April 15: Chicory, Flax, Grasses (except Bermudagrass, Seashore Paspalum, Sudangrass & Teff), Buckhorn Plantain, Kale, Little Burnet, Meadowfoam, Radish[2], Rocky Mountain Penstemon, Sugar Beets, Swede, Turnip, Legumes (except Alfalfa, Field Bean, Field Pea, Red Clover, Soybean[2] & Trefoil), Utah Sweetvetch.

June 15: Alfalfa, Bermudagrass, Buckwheat[2], Lentils[2], Red Clover, Safflower, Seashore Paspalum, Soybeans[2], Sudangrass[2], Trefoil, Field Bean[2], Teff[2].

<u>Sign-up Deadlines for Small Grain and Small Grain Identity Preservation</u>

Seedling Application: When required (see Small Grain Standards) to be submitted within 60 days of fall planting or earlier (if row closure is expected to occur rapidly), or within 15 days of spring planting.
Crop Application: April 15 for fields planted on or before January 31; June 1 or within 15 days of planting, whichever occurs last for fields planted after April 15.

[1] Field must be ready for inspection, including isolation stakes, at final sign-up deadlines

[2] Buckwheat, Field Beans, Field Peas, Lentils, Soybean and Sudangrass planted after crop sign-up deadline must be signed up within 15 days after planting. Teff must be signed up within 10 days of planting. Radish must be signed up within 30 days of planting.

Extension Office Phone Numbers by County

County	Telephone
Benton (Contact the OSCS Office)	541-737-4513
Clackamas	503-655-8631
Crook	541-447-6228
Douglas	541-672-4461
Gilliam	541-384-2271
Harney	541-573-2506
Jackson	541-776-7371
Jefferson	541-475-7107
Klamath	541-883-7131
Lane (Contact the OSCS Office)	541-737-4513
Linn	541-967-3871
Malheur	541-881-1417
Marion	503-588-5301
Morrow	541-676-9642
Polk	503-623-8395
Sherman	541-565-3230
Umatilla	541-567-8321
Union	541-963-1010
Wallowa	541-426-3143
Wasco	541-296-5494
Washington	503-821-1150
Yamhill	541-434-7517

2020 Oregon Seed Certification Service Fees

(See General Standards: Section VIII)

All Fees: Credit cards are accepted for certain online payments; all other fees are to be paid by check. Checks may be made payable to "Oregon Seed Certification Service" and sent directly to:

Oregon Seed Certification Service, Oregon State University, 31 Crop Science Bldg, Corvallis, OR 97331-3003

Seedling Inspections[1]	**Fee**
Application submitted within 60 days after planting	$50.00/field
Late sign-up: 61-120 days after planting	$70.00/field
Late sign-up: 121 days or more after planting	$100.00/field
Re-inspection of seedling	$40.00/field
Re-inspection signed up after the date specified on rejection notice	$60.00/field
Establishment of Crop History (ECH) – Perennial Ryegrass only	$50.00/field
Modified Land History (includes preplant inspection)	$65.00/field
(Late requests requiring added inspections will be assessed an additional fee of $50.00)	

Seed Crop Inspections[1,2] Minimum charge for Crop Inspection: $50.00/field	**Fee**
Seed Stock Fields (Pre-Basic, Basic, Fnd & Reg) of Grass, Beets, Beans, Alfalfa Clovers, Vetches, Sunflower & Stolon Beds,	$65.00 plus per acre fee
Certified Class (Blue Tag)	
Grasses, Legumes, Small Grains, Sugar Beets, Kale, Stolon Beds & Misc. Crops	$ 3.90/ac
Beans, Chickpea, Sunflower, Hybrid Annual Rape/Type Canola	$ 4.90/ac
Pre-Variety Germplasm Increases	$ 4.50/ac
Late sign-up fees: 1-50 acres initial acreage fee or minimum charge plus $37.50 per field. 51 acres or more; initial acreage fee plus an additional $0.75 per acre.	
Re-Inspection of crop	$40.00/field
Re-Inspections signed up after the date specified on the rejection notice	$60.00/field

Refund: To be eligible for refunds, seedling and/or seed crop applications must be withdrawn prior to field inspection. To initiate refund, seed grower must submit a written request to Seed Certification for a refund (a special request charge will be withheld for processing). No refunds on rejected fields: either seedling or seed crop.

Additional & Special Fees:	
All Grasses, Legumes, Misc. Crops & OECD[3] Crops	$0.29/cwt-Sampled[4,5]
Re-Samples for all Grasses, Legumes, Misc. Crops & OECD Crops	$0.07/cwt-Sampled[5,6]
Cereals	$0.19/cwt-Sampled[4]
OECD Certificates 5,000 pounds or less[7]	$35.00/each
OECD Certificates 5,001 pounds or more[7]	$60.00/each
Second Issuance of Tags	$0.06/tag (Min of $30.00)
Additional Charge for Adhesive Tags	$0.10/tag
Pre-Printed Tags on Seed Containers	$0.03/tag (Min of $30.00)
Revising OECD Certificates	$30.00
Field Status Reports for Contractors	$30.00 (under 25 pages) $60.00 (over 25 pages)
Special Inspections or Audits - $70.00/hr ($30 min. charge) plus standard OSU mileage rate and per diem	
Special Requests – Process review of Reissuance/Blends/Mixtures/Coated Seed & other manual reviews & entries	$35.00 each
Movement of Untagged Seed Lots (no charge if completed using eCertification)	$15.00 per request

[1] Check specific crop standards for special requirements
[2] Contact OSCS for current fee list for Corn, Potato, Mint & Hemp
[3] OECD – Organization for Economic Cooperation and Development
[4] $35.00 minimum charge
[5] Additional charge for lots tagged in 25 lbs or less, $0.07/tag (min. of $35.00)
[6] $20.00 minimum charge
[7] An additional OECD assessment will be billed on each OECD seed lot, as assessed by USDA-OECD authorities. Current assessment is: $0.15/cwt for Grasses, Cereals, Legumes, Brassicas, Beets, Sunflowers, Mixtures. $0.26/cwt for Corn. These charges to be billed in addition to other listed fees.

Varieties and Classes Eligible for Planting in Oregon

This is a list of the varieties that have been Certified in the last 10 years.
For a complete list of eligible varieties as well as length of stand information go to:
seedcert.oregonstate.edu

Legumes

Alfalfa

Breeder, Foundation, or Registered
Ceres

Breeder or Foundation
54Q25, 55Q28, 55V50, 6401N, Baralfa 32 IQ, Baralfa 42 IQ, Baralfa 53HR, Camas, CW 4957, DG 4210, DKA40-16, DKA43-13, DS 1168, ForageGold, HybriForce-2400, HybriForce-2600, Integra 8600, Ladak+, LegenDairy XHD, Magna 601, Magna 715, Magnum 7-Wet, PGI 215, PGI 529, Prolific II, Triple Play, Triple Trust 500, WinterKing II, WL 319HQ, WL 353LH, WL 358LH, WL 372HQ.RR

Chickpea

Breeder, Foundation, or Registered
CDC Frontier, CDC Orion, HB-14, Sierra

Breeder or Foundation
Troy

Clover – Arrowleaf

Breeder, Foundation, or Registered
Apache, Blackhawk

Clover – Balansa

Breeder, Foundation, or Registered
FIXatioN

Clover – Berseem

Breeder, Foundation, or Registered
Frosty

Clover – Ball

Breeder, Foundation, or Registered
AU Don

Clover – Crimson

Breeder, Foundation, or Registered
AU Sunrise, Contea, Dixie, KY Pride, White Cloud

Clover – Red

Breeder, Foundation, or Registered
Barduro, Emarwan, Renegade, Resilience, WildCat

Breeder or Foundation
Bearcat, Dominion, Duration Extra, Evolve, Freedom!, FreedomMR, FSG 401RC, FSG 402, GA-9908, Gallant, Kenland, LS 9703, Orbit, PGI 33, Raven, Redkin, Scarlett, Scarlett II, Southern Belle, StarFire, StarFire II

Breeder
Rustler

Clover – White

*classified as Ladino Clover

Breeder, Foundation, or Registered
Advantage*, Cashmere, Campanion*, Durana, Pipolina, Rampart*, Renovation, Will*

Breeder or Foundation
Crescendo*, KY Select, Mink*, Neches, Pinnacle*, Regal*, RegalGraze*

Breeder
Grasslands Colt

Field Bean

Breeder, Foundation, or Registered
California Early Light Red Kidney, Eclipse Black, Indi Navy, Vibrant Pinto

Lentil

Breeder, Foundation, or Registered
Avondale, Brewer

Lupine

Breeder or Foundation
Hederma (Riverbank)

Peas

Breeder, Foundation, or Registered
Granger (Austrian Winter Pea)

Breeder or Foundation
Fiji, Hampton, Miami

Soybean

Breeder, Foundation, or Registered
Owyhee1

Utah Sweetvetch

Breeder, Foundation, or Registered
Timp

Vetch

Breeder, Foundation, or Registered
Cahaba white (Common), Cold Green (Hairy), Purple Bounty (Hairy), Purple Prosperity (Hairy)

Breeder or Foundation
AU Merit (Hairy), AU Olympic (Common)

Grasses

Alkaligrass

Breeder, Foundation, or Registered
SeaSalt (Weeping)

Bentgrass – Colonial

Breeder, Foundation, or Registered
Capri, Heriot, Highland, Musket, Puritan, SR 7100, SR 7150, Tiger 2, Vision

Bentgrass – Creeping

Breeder, Foundation, or Registered
007, 777, 962, 13M, Alpha, Armor, AU Victory, Barracuda, Bengal, Brighton, Cato, Chinook, Cobra 2, Coho, CY-2, Declaration, Flagstick, Focus, Independence, Kingdom, Kingpin, L-93 XD, Lofts L-93, LS-44, Luminary, MacDonald, MacKenzie, Mariner, Match Play, Memorial, Nightlife, PC2.0, Pin-Up, Piranha, Providence, Pure Distinction, Pure Eclipse, Pure Select, S1, Samurai, Sandhill, Southshore, SR 1020, SR 1119, SR 1150, T-1, TourPro, Trueline, Tyee, V8

Breeder or Foundation
Crystal BlueLinks, Penn G-2, Penneagle II, PennLinks II, Putter, Seaside II

Breeder
18th Green, Authority, Penn A-1, Penn A-2, Penn A-4, Penn G-1, Penn G-6, Penncross (stolons), Princeville, Seaside, Shark

Bentgrass – Redtop

Breeder, Foundation, or Registered
Streaker

Bentgrass – Velvet

Breeder, Foundation, or Registered
Legendary, Vesper, Villa

Bermudagrass

Breeder, Foundation, or Registered
HotSummerGreen, Mirage 2

Breeder or Foundation
Yukon

Bluegrass – Big

Breeder, Foundation, or Registered
Sherman

Bluegrass – Kentucky

Breeder, Foundation, or Registered
Abbey, After Midnight, Alexa II, Amaze, Argos, Aries, Armada, Avalanche, Aviator II, Avid, Award, Bandera, Barduke, Bariris, Baron, Barrari, Barrister, Barserati, Barvette, Bedazzled, Bewitched, Beyond, Blackjack, Blue Coat, Blue Ghost, Blue Gem, Blue Note, Blue Star, Bluebank, BlueChip Plus, Blue-Mazing, Blue-Sation, Blue-tastic, Bolt, Bonaire, Bordeaux, Brooklawn, Cannon, Champagne, Concerto, Conquistador, Corsair, Courtyard, Crest, Dauntless, Delta Blue, Denali, Denali II, Desert Moon, Diva, Dynamo, Ein Gedi, Empire, Endurance, Envicta, Everest, Fahrenheit 90, Fielder, Finish Line, Front Page, Full Moon, Fullback, Gaelic, Geisha, Geronimo, Ginney, Ginney II, Gladstone, Green Star, Hampton, Heartland, Heidi, Impact, J-1136, Jackpot, Jackrabbit, Jump Start, Katie, Kelly, Krypton, Legend, Liberator, Lunar, MacMillan, Mallard, Martha, Mazama, Mercury, Merit, Midnight, Midnight II, Midnight Star, Milagro, Mongoose, Monte Carlo, Moon Beam, Moonlight SLT, Moonshadow, Moonshine, Mystere H2O, Nassau, Navy, Noble, Nu Destiny, NuBlue, NuBlue Plus, Nuglade, Oasis, Odyssey, Pivot, Princeton P-105, Prosperity, Quantum Leap, Quartz, Rampart, Rhapsody, Rhythm, Ridgeline, Right, River Run, RockStar, Royce, Rubix, Rugby II, Shamrock, Shannon, Showcase, Skye, Solar Eclipse, Solar Green, Sombrero, SPF-30, Spitfire, SR 2100, SR 2150, SR 2284, Tejas, Thermal Blue, Tirem, Touchdown, Touche, Tumalo, Twilight, Ulysses, Unique II, United, Valley View, Volt, Voyager II, Waterworks, Wild Horse, Zedor, Zinfandel, Zinger

Breeder or Foundation
Aramintha, Opti-Green

Bluegrass – Rough

Breeder, Foundation, or Registered
Bariviera, Cypress, Cypress 2, Darkhorse, Duo, Havana, Laser, ProAm, Quasar, Racehorse, RAM100, Sabre III, Sabre 4, Stardust, Startdust 2, Starlite, Starlite II, Sun-Up, Winterlinks, Winterplay, Winterstar

Breeder or Foundation
Winterway

Brome

Breeder or Foundation
Cache (Meadow), Montana (Meadow), York (Smooth)

Dogtail – Crested

Breeder, Foundation, or Registered
Shade Star

Fescue – Annual

Breeder, Foundation, or Registered
Zorro

Fescue – Blue

Breeder, Foundation, or Registered
SR 3210

Fescue – Chewings

Breeder, Foundation, or Registered
7 Seas, Ambassador, Ambrose, Bridgeport, Bridgeport II, Brittany, Brittany 2, Cara, Cascade, Castle, Chancellor, Compass, Compass II, Culumbra II, Enchantment, Heathland, Intrigue, J-5, Jamestown II, Jamestown IV, LaCrosse, Leeward, Longfellow II, Longfellow 3, LS3000, Musica, Radar, Rushmore, Seducer, Shadow II, Shadow III, Silhouette, Sonar, SR 5100, SR 5130, Survivor, Treazure II, Victory II, Windward, Woodall, Wrigley 2, Zodiac

Breeder or Foundation
Koket, Tiffany

Fescue – Hard

Breeder, Foundation, or Registered
AHF116, Aurora, Aurora II, Aurora Gold, Beacon, Berkshire, Bighorn, Bighorn GT, BLUERAY, Chariot, Discovery, Durar, Ecostar, EcoStar Plus, Eureka II, Firefly, Gladiator, Gotham, Granite, Hardtop, Harpoon, Heron, Jetty, Little Bighorn, Minimus, Minotaur, Nanook, Nordic, Oxford, Predator, Reliant II, Reliant IV, Rescue 911, Resolute, Rhino, Scaldis II, Soil Guard, Spartan II, SR 3150, Stonehenge, Stonehenge II, Sword, Viking, Viking H2O, Warwick

Fescue – Red

*Classified as Slender Red Fescue

Breeder, Foundation, or Registered
Aberdeen, Audubon, Barcrown II*, Camilla, Cardinal, Cardinal II, Celestial, Chantilly, Cindy Lou, Class One, Contender, Epic, Fenway, Florentine GT, Fortitude, Foxfire, Foxfire 2, Garnet, Gibraltar, Gibraltar Gold, Jasper II, Kent, Kevin, Lighthouse*, Lustrous, Marvel, McAlpin, Navigator, Navigator II, Orbit, Park Bench, Pathfinder, Pennington ASC295, Razor, Rosecity, Ruddy, Seabreeze*, Seabreeze GT*, SeaFire*, SeaLink*, Shademaster III, Shoreline*, Silverlawn, SR 5250, Trapeze, Valeria, Wendy Jean, Xeric

Breeder or Foundation
Dawson

Fescue – Sheep

Breeder, Foundation, or Registered
Azure, Blue Mesa, Dall, Marco Polo, Quatro, Whisper

Breeder or Foundation
Covar

Fescue - Tall

Breeder, Foundation, or Registered
2nd Millennium, 3rd Millennium SRP, 4th Millennium SRP, Adams Valley, Alta, Amity, ANNAPOLIS, Annihilator, Apache III, Aquaduct, Aquavita, Arabia, Ares, Arid 3, Armory, AST1001, AST5112, AST5118, AST7001, AST7002, AST7003, AST8118LM, AST8218LM, AST9001, AST9002, AST9003, ATV, AU Triumph, Avenger, Avenger II, Aztec II, Bandit, Banshee, Barbarian, Bardurum, Barlexas, Barlexas II, Barolex, BarOptima, BarRepair, Barrera, Barrington, Barrington II, BarRobusto, Barvado, Biltmore, Bingo, Black Tail, Black Tie, Blackwatch, Blackwatch 2, Blade Runner, BladeRunner II, Bloodhound, Bonsai 2X, Bonsai 2000, Bonsai 3000, Bravo, Bravo 2, Brockton, Brute, Bullseye, Caesar, Cajun 2, Cannavaro, Catalyst, Cayenne,

Cezanne Rz, Chapel Hill, Chenelle, Cheyenne, Chipper, Cochise III, Cochise IV, Compete, Constitution, Copious, Corbett, Corgi, Corona, Coronado, Coronado Gold, Coronado TDH, Cortez II, Covenant, Covenant II, Cowgirl, Coyote, Coyote II, Crewcut II, Crossfire II, Crossfire 3, Crossfire 4, Cumberland, Dakota, Dallas, Darlington, DaVinci, Daytona, Deputy, Desire, Diablo, Dorado, Doubletake, Drover, DTT-20, DTT-43, Duramax, Durana, Duration, Dynamic, Dynamic II, Dynamite LS, Dynasty, Embrace, Endeavor, Endeavor II, Escalade, Essential, Expedition, Faith, Falcon III, Falcon IV, Falcon V, Fantasia, Fat Cat, Fayette, Festival, Fidelity, Finelawn Elite, Finelawn H2O, Finelawn Petite, Firebird, Firebird 2, Firecracker LS, Firecracker SLS, Firenza, Firewall, Five Point, Flame, Focus, Forrest Green, Forte, Foxhound, Frontline, FSG 402TF, Fuego, Fury, Future, GA-51, Gabrina Platinum, Garrison, Gazelle II, Golconda, Gold Medallion, Grande II, Grande 3, Grasslands Flecha, Green Hornet, Greendale, Greenkeeper – WAF, Greystone, Greystone II, GTO, Guardian 21, Guardian 41, Hemi, Heritage, Hoedown, HonkyTonk, Horizon, Hot Rod, Houndog 5, Houndog 6, Houndog 8, Hudson, Hunter, Hymark, Inferno, Innovator, Inspiration, Integrity, Jaguar, Jaguar 3, Jaguar 4G, Jamboree, Jesup, JT-4, JT-783, Justice, Kalahari, Kentucky 31, Kentucky 32, Kingdom, Kitty Hawk SST, Kora, KY-41, Labarinth, Lacefield, Laramie, Leonardo, Lexington, Lifeguard, LS 1010, LS 1200, Maestro, Magellan, Marauder, Martin 2, Mason, Mason II, Masterpiece, Matador, Matador GT, Memphis, Meridian, Michelangelo, Micro, Millennium, Monet, Montana, Moondance GLX, Motif, Mustang 3, Mustang 4, Naturally Green, Nightcrawler, Ninja II, Ninja III, Olympic Gold, Olympus, OnCue, Oregon's Greenest, Padre, Padre 2, Paladin, Paraiso, Paramount, Patagonia, Payload, Pedestal, Pedigree, Penn RK4, PENN1901, Pennington ATF1254, Pennington ATF1258, Pennington ATF1376, Persuasion, Phoenix, Picasso, Piedmont, Pixie, Pro Gold, Prospect, PST-5BGR, PST-5V4, Quantum II, Quest, R&R Gold, RainDance, Ranchero, Raptor, Raptor II, Raptor III, Rebel II, Rebel III, Rebel IV, Rebel V, Rebel 2000, Rebel Advance, Rebel Exeda, Rebel Pro, Rebel Sentry, Rebel XLR, Rebel Xtreme, Rebounder, Reflection, Regenerate, Regiment II, Rembrandt, Rendition, Rendition Rx, Renegade DT, Renegade H2O, Renovate, Resolute, Restore, Reunion, Rhambler, Rhambler 2 SRP, Rhizing Moon, Rhizing Star, RNP, Rockwell, Roman, Rowdy, Safe, Saltillo, Savory, Scorpion, Scorpion II, Screamer LS, Seine, Sequester, Shelby, Shenandoah II, Shenandoah III, Shenandoah Elite, Shenandoah Sport, Shortstop 3, Showdown, Sidewinder, Siesta, Signia, Silver Hawk, Silverado II, Silverstar, Sitka, Six Point, Skyline, Solara, Southern Cross, Speedway, Spyder LS, SR 8500, SR 8550, SR 8600, SR 8650, Stagecoach, Standout, Starfire, Starfire II, Starlet, Stetson II, StingRay, Suede, Summer, SunDevil, SunDial, Sungazer, Sunset Gold, SuperSonic, Swagger, Tahoe, Tahoe II, Talladega, Tango, Tanzania, Taos, Tar Heel, Tar Heel II, Tara, Tarnation GT, Technique, Tempest, Temple, Temptation, Terrier, Teton, Teton II, Texoma MaxQ II, TF-66, Thor, Thunderstruck, Titan, Titan Ltd., Titan Rx, Titan Ultra, Titanium, Titanium LS, Titanium 2LS, Toccoa, Toltec, Tomahawk, Tomahawk GT, Tombstone, Tonto, Top Shelf, Tower, Tracer, Traverse, Traverse 2 SRP, Trending, Tribute II, Trinity, Trio, Triumphant, Trooper, Tulsa Time, Turbo, Turbo RZ, Turfway, Turnberry, Tuscany II, Tuxedo, Ultimate, Unitus, Valkyrie LS, Van Gogh, Venture, Vert, Virtue II, Virtuoso, Wichita, Wolfpack, Wolfpack II, Xtender, XtremeGreen, ZigZag

Breeder or Foundation
Arido, AST5119, AST5120, Brutus, Fawn, FSG 402TF, Gazelle, Hummer, Johnstone, Select, SOUTHEAST, SS-0705TFSL, Stockman

Festulolium

Breeder, Foundation, or Registered
Barfest, Spring Green

Orchardgrass

Breeder, Foundation, or Registered
Alpine II, Ambassador, Bacchus, Baridana, Berber, Cheam-VR, Chilliwack-VR, Crown Royale, Devour, Dividend VL, Echelon, Elise, Elsie, Endurance, Grasslands Tekapo, Harvestar, Inavale, Instensiv, Kayak, Latar, Mammoth, Okay, Olathe, Olympia, Paiute, Persist, Pizza, Potomac II, Prairie, Prodigy, Pro-File, Profit, Rushmore II, Summer Green, Takena, Tucker

Breeder or Foundation
Ambrosia, Benchmark Plus, Blizzard, Bounty, Bounty II, Century, Checkmate, Command, Early Arctic, FSG 506OG, Icon, Kay, Orca, Orion, Pawnee, Potomac, Seco, SS-0708OGDT, Trailburst

Ricegrass – Indian

Breeder, Foundation, or Registered
Nezpar

Ryegrass – Annual

Breeder, Foundation, or Registered
Ace, Andes, Angus 1, Angusta, Annuity, Approach, Assist, Attain, Attitude, Axcella 2, Barextra, Barterra, Big Boss, Big Daddy, Billiken, Breakout, Candidame, Credence, Diamond T, Dipper, Dryann, Ed, Fade, Fantastic, Firkin, Florida 4N, Florida 80, Flying A, Fox, GameChanger, Grazer, Green Farm, Greenlinks, Gulf, Hanamiwase, Hulk, Jackson, Jumbo, KB Supreme, Kodiak, KoSpeed, KoWinearly, Lowboy, Madrone, Marshall, Max, Maximus, McKinley, Nelson, New Dawn, Nioudachi, NuSprint, Ocala, Palmetto, Panterra, Panterra V, Passerel Plus, PPERC2, Quickdraw, Quickston, Ration, Ribeye, Rockin' R, Sprite, Striker, Tachimasari, Tachimusha, Tachiwase, TAM 90, TAMTBO, TetraPrime, TXR, Verdure, Waseaoba, Winter Hawk, Yushun

Breeder or Foundation
Barmultra, Crusader, FSTII

Ryegrass – Intermediate

Breeder, Foundation, or Registered
Bison 2, Boost, Fuse, LH 08, Maximo, Outlaw, Rogue, Solstice II, Tetrelite II, Transaction, TransAm, Transcend, Transeze, TransFix, Transist 2400, Transist 2600

Ryegrass – Perennial

Breeder, Foundation, or Registered
1G2, 1GSquared, Acappella, Accent, Accent II, Affinity, Align, Align II, Allante, Allsport 3, Allsport 4, Allsport 5, AllStar 3, Amazing A+, Amazing GS, Amazing XL, Amazon, Americus, Applaud, Applaud II, Apple GL, Apple 3GL, Apple SGL, Aquarius 4, Arrival, ASP0112, ASP0113, ASP0116EXT, ASP0117, ASP0118GL, ASP0218, ASP1001 GL, ASP3120HS, ASP3216HS, ASP3316HS, ASP6001, ASP6002, ASP6003, ASP6004, ASP6006, Aspire, Attribute, Aubisque, Baccarat, Bandalore, Banfield, Baralpha, Barbeta, Bargamma, Barlennium, Benchmark, BigLeague, Black Cat II, Black Pearl, Blackhawk, Blackstone, Blazer 4, Bonneville, Brea, Brightstar SLT, Buccaneer II, Buena Vista, Cabo II, Caddieshack, Caddieshack II, Calypso II, Calypso III, Carly, Cascadia, Casper, Ceres One50, Ceretec Centurion, Chaparral, Charger II, Charasmatic, Charasmatic II GLSR, Chivalry, Citation III, Citation Fore, Coda, Commander ST, Confetti, Confetti 2, Confetti III, Continental, Covet, Crescendo, CT7, Cutter II, Darklink, Dasher 3, Defender, Derby Xtreme, Deschutes, Diligent, Dinella Gold, Divine, Dominator, Double Time GLS, Driver, Ecologic, Edge II, Electra 37, Elgon, Envy, Esquire, Estelle, Evening Shade, Evening Star, Evolution, Evolve, Exacta II GLSR, Excellence, Expedite, Express II, Fastball 3GL, Fastball RGL, Fiesta 3, Fiesta 4, Fiji, Fiji 2, Fireball, Flash II, Frontier, Frontrunner, Full Throttle, Fusion, Gallop, Gator 3, Goalkeeper, GoalKeeper II, Golden Hawk, Grand Slam, Grand Slam 2, GrandSlam GLD, Gray Fox, Gray Goose, Gray Hawk, Gray Star, Gray Wolf, Green Supreme, Greenville, Greenville 4, GT24, Halo, Hancock, Harrier, Haven, Hawkeye, Hawkeye 2, Headstart 2, High Life, Home Run, Homerun LS, Icon, Indy, Indy D, Infusion, Insight, Inspire, Integra, Integra II, Intense, iQ, Jet, JS501, Karma, Kentaur, Keystone 2, Kokomo, La Quinta, Legato, Line Drive II, LineDrive GLS, Linn, LS 2100, LS 2300, Majesty II, Manhattan 5 GLR, Manhattan 6, Manhattan 7 GLR, Mara, Mensa, Metolius, Metropolitan, Mighty, Millennial, Molalla, Monsieur, Monterey 3, Monterey 4, New Arrival GLR, New Sealand, Newgreen, Nexus XD, Nexus XR, NightSky, Nobility, Notable, Notable 2, Oahu, Octane, Orantas, Overdrive, Overdrive 5G, Pacesetter, Pacesetter II, Pacific Gem, Palace, Palmer III, Palmer IV, Palmer V, Pangea GLR, Panther GLS, Panther H2O, Paradox GLR, Paragon, Paragon GLR, Paragon 2 GLR, Parkside, Pasco, Passport, Patriot 4, Pavilion, PayDay, Penguin 2, Pennant II, Pennant III, Pennant H2O, Pennington APR2105, Pennington APR2116, Pennington APR2154, Pennington APR2190, Pennington APR2237, Pentium, Pepper, Peridot, Pershing, Phaeton, Phenom, Pillar, Pillar II, Pinball, Pinnacle, Pinnacle II, Pinnacle III, Pinstripe II, Pirouette, Pirouette II, Pistol, Pizzazz, Pizzazz 2, Plateau, Playfast, Playoff 2, PNW, PR 8820, Prelude GLS, Prelude IV, Premier II, Premium, Presidio, Presidio II, Primary, Principal II, Private, Process, Proline ST, Prominent, Prosport 2, Prosport 4, Protege GLR, Prototype, Provocative, Provost, PST-2M20, Quartermaster, Quebec, Quicken, Quicksilver, Quickstart II, Racer 2, Rainwater, Reatta, Red Hawk, Remington, Repell GLS, Replay, Replicator, Respect, Revenge GLX, Ringer, Ringer II, Rinovo, Rio Vista, Riptide, Roadster, Saint, Salinas, Salinas II, Saltinas, Santiam, Savant, Secretariat, Secretariat II GLSR, Seductive, Serenity, Seville 3, Shield, Shining Star, Shining Star II, Sideways, Sienna, Sierra, Signet, Silver Dollar, Silver Sport, Silver Sun, Singular, Slider LS, Slugger, Slugger II, Slugger 3GL, Sonata, Soprano, Sox Fan, Spark, Spike GLS, Spirit, Spyglass, SR 4100, SR 4220, SR 4420, SR 4550, SR 4600, SR 4650, SR 4660ST, Stamina, Stanton, Stardust, Stellar GL, Stellar 3GL, Sunkissed, Sunrise, Sunstreaker, T3, Tee-Lee, Tee-Me-Up, Tetradark, TetraGain, Tetrasweet, Thrive, Tier 4, Top Gun, Top Gun II, Top Hat 2, Torsion, Umqua, Uno, Veracruz, Vintage, Virte, Vision, Vixen, Wayfarer, Wicked, Wind Dance 2, Wizard, Xcelerator, YatsuGreen, Zoom, Zurich

Breeder or Foundation
ASP3120HS

Breeder
Arena, Colosseum, Friend

Seashore Paspalum

Breeder, Foundation, or Registered
Trident

Breeder or Foundation
Neptune, Sea Spray

Sudangrass

Breeder, Foundation, or Registered
Piper

Teff

Breeder, Foundation, or Registered
Tiffany

Timothy

Breeder, Foundation, or Registered
Zenyatta

Breeder or Foundation
Hiro, Kittitas KA

Wheatgrass

Breeder, Foundation, or Registered
Arriba (Western), Bannock (Thickspike), Discovery (Snake River), Goldar (Bluebunch), Hycrest (Crested), Luna (Pubescent), Manska (Pubescent), Rosana (Western), San Luis (Slender), Secar (Snake River), Vavilov II (Siberian)

Breeder or Foundation
Critana (Thickspike), Reliant (Intermediate), Stabilizer (Siberian)

Wildrye

Breeder, Foundation, or Registered
Arlington (Blue), Elkton (Blue)

Small Grains

Barley – Spring

Breeder, Foundation, or Registered
Tamalpais, ***2 Row***: AAC Synergy, Bob, Camas, CDC Copeland, Champion, Chowford, Explorer, Full Pint, Havener, Haybet, Hays, Kardia, Lavina, Lenetah, Oreana, Radiant, Salute, Spaulding, Stockford, Survivor, ***6 Row:*** Belford, Washford

Barley – Winter

Breeder, Foundation, or Registered
6 Row: Alba, Buck, Eight-Twelve, Hoody, Strider

Buckwheat

Breeder, Foundation, or Registered
Koma, Koto

Cereal Rye

Breeder, Foundation, or Registered
AGS 104, Goku, Oklon

Oat – Spring

Breeder, Foundation, or Registered
Red: Kanota, Montezuma, ***White:*** 114, 126, AC Morgan, Ajay, Cayuse, Intimidator, Kona, Magnum, Magnum 2000, Monico, Monida, Otana, Swan, Tachiibuki, UC 113, UC 132, UC 148

Oat – Winter

Breeder, Foundation, or Registered
White: TAMO 411 ***Red:*** California

Triticale

Breeder, Foundation, or Registered
102, 103BB, 141, 348, 718, 815, 841446398, Camelot, Forerunner, HyOctane, Lance, Merlin, NE422T, Pacheco

Wheat – Hard Red Spring

Breeder, Foundation, or Registered
Alum, Bullseye, Cabernet, Expresso, FV2808, Glee, Hank, Jefferson, Kelse, Solano, SY605 CL, SY Clearstone 2CL, SY Coho, SY Gunsight, SY Selway, SY Steelhead, Tara 2002, WB9200, WB9350, WB9411, WB9518, WB9662, WB9668, WB9717, WB9904, WB-Fuzion, WB-Gunnison, WB-Patron, WB-Rockland, Yecora Rojo

Breeder or Registered
4941026

Wheat – Hard Red Winter

Breeder, Foundation, or Registered
AP503 CL2, Boundary, Keldin, LCS Aymeric, LCS Colonia, LCS Evina, LCS Fusion AX, LCS Jet, LCS Rocket, Norwest 553, SY Touchstone, WB4311, Whetstone

Breeder
Excede

Wheat – Soft White Spring

Breeder, Foundation, or Registered
Alpowa, Alturas, AP Badger, Babe, Dirkwin, Diva, Eden (Club), JD (Club), Kaseberg, LCS Biancor, Louise, Melba (Club), New Dirkwin, Nick, Ryan, Seahawk, SY Saltese, Tekoa, Twin, UI Stone, WB-1035CL+, WB6121, WB6341, WB6430, WB-Hartline (Hard), Whit

Wheat – Soft White Winter

Breeder, Foundation, or Registered
Amber, AP700 CL, AP Legacy, Bobtail, Bruehl (Club), Brundage 96, Cara (Club), Chukar (Club), Coda (Club), Concept, Curiosity CL+, Eltan, Goetze, Ladd, LCS Artdeco, LCS Drive, LCS Shark, LCS Sonic, Legion, Madsen, Mary, Mpress, Norwest Duet, Norwest Tandem, ORCF-101, ORCF-102, ORCF-103, ORSS-1757, Otto, PNW Hailey, Puma, Resilience CL+, Rosalyn, Salute, Skiles, Stephens, SY 107, SY Assure, SY Dayton, SY Ovation, Tubbs, Tubbs 06, UI Castle, UICF-Brundage, UI Magic, UI Palouse, UI-WSU Huffman, WB 523, WB-528, WB1376CLP, WB1529, WB1604, WB1783, WB-Junction, WestBred 456, Xerpha, Yamhill

Miscellaneous Crops

Brown Mustard

Breeder or Foundation
Kodiak

Burnet – Little

Breeder, Foundation, or Registered
Delar, Persist

Chicory

Breeder or Foundation
TFI200

Ethiopian Cabbage

Breeder or Foundation
PG584

Flax

Breeder or Foundation
Linore, Omega, York

Blue Flax

Breeder or Foundation
Appar

Kale

Breeder or Foundation
Regal

Oriental Mustard

Breeder or Foundation
Pacific Gold, IndiGold

Meadowfoam

Breeder, Foundation, or Registered
Crane, Ross

Radish

Breeder, Foundation, or Registered
Aerifi, CCS 779, Nitro, WSHY

Breeder or Foundation
Ceres Graza

Rape – Annual

Breeder, Foundation, or Registered
Winfred (Winter)

Rocky Mountain Penstemon

Breeder, Foundation, or Registered
Bandera

Safflower

Breeder, Foundation, or Registered
CW 99-OL, CW 3268-OL

Turnip

Breeder, Foundation, or Registered
Barkant

Breeder or Foundation
CeresHunter, PG 1500

Breeder or Registered
New York

White Mustard

Breeder or Foundation
IdaGold, Master, White Gold

Other Species with Accepted Standards

Grasses
Altai Wildrye, Basin Wildrye, Creeping Bluegrass, Crested Hairgrass, Hardinggrass, Idaho Bentgrass, Koleagrass, Meadow Fescue, Meadow Foxtail, Oatgrass, Reed Canarygrass, Tufted Hairgrass, Wood Bluegrass

Legumes
Rose Clover, Sickle-Keeled Lupine, Subterranean Clover, Trefoil

Misc. Crops
Camelina, Corn, Crownvetch, Hemp, Lewis Flax, Mint, Plantain, Potatoes, Prairie Flax, Sugar Beet, Sunflower, Swede

Oregon Seed Certification Service General Standards

The following standards are applicable to eligible crops and, with the individual crop standards, constitute the Oregon Seed Certification Service (OSCS) Handbook.

I. Certification in Oregon

Certification in Oregon is authorized by Revised Statues 633.620 and 633.630. It is administered by the Dean of the College of Agriculture Sciences, Oregon State University and his appointed representatives. A certification board, appointed by the Dean of the College of Agricultural Sciences, develops and determines policy; accepts, rejects, and deletes varieties from the certification program; evolves, modifies, and alters standards for certification subject to the approval of the dean. The certification program is a service of the College of Agricultural Sciences administered through the Oregon State University Extension Services. Certification is divided into two projects. The Foundation Seed and Plant Materials Project is responsible for making available sufficient improved planting stock to ensure a continuous supply of early generation material for later increase by Oregon growers engaged in the certification program. The Certification Project is responsible for maintaining the pedigree of superior varieties under a generation system by appropriate inspection and records to ensure that genetically pure varieties are produced under the Oregon certification program. County agricultural extension agents are the certification representatives within counties. Assistance with online sign-ups, lists of eligible varieties, and the Oregon standards for seed certification can be obtained at most county offices or accessed online at seedcert.oregonstate.edu.

II. Purpose of Certification

The purpose shall be to provide a service to the public for the maintenance and increase of quality seed and propagating material of varieties grown and distributed in such a manner as to ensure varietal purity through the appropriate application of these rules.

III. Varietal Eligibility and Acceptance Requirements for Certification

Seed stock and propagating material must be approved by the Oregon State University Seed Certification Board to be eligible for certification. Crop species not previously certified in Oregon must have Oregon Certification Crop Standards established and approved, by the Board, prior to review or acceptance of a new variety through the Oregon Experimental or Oregon Certification Variety Review Committee. Eligibility requirements for certification of publicly and privately developed varieties are the same. In Oregon, certification does not imply recommendation. Variety recommendations for the state of Oregon are the responsibility of staff members within the College of Agricultural Sciences working in the area of the crops involved. Recommendations are based on research data and knowledge of the variety under consideration.

A list of crops approved for certification in Oregon is prepared each year. Varieties to be considered for certification may be submitted from the following sources:

1. The Oregon Agricultural Experiment Station, after being approved by the New Crops Variety Committee of the Oregon Agricultural Experiment Station.
2. The Oregon Agricultural Experiment Station in cooperation with other public agencies.
3. Developments of other state or governmental agricultural experiment stations.
4. Private or commercial plant breeding programs.

A grower, breeder or originator shall submit the appropriate form (obtained from the Seed Certification Service, 31 Crop Science Building, Corvallis, Oregon 97331-3003 or online at seedcert.oregonstate.edu) to the Seed Certification Office to have a crop variety considered for entry in the certification program. For newly developed varieties, this request must be submitted one year prior to the time certification is desired. For varieties previously accepted by other certification or regulatory agencies, this request must be submitted prior to the time of planting. At the time the request is initiated, a two-cup sample of stock seed must be submitted to the Seed Certification Service, 31 Crop Science Building, Corvallis, Oregon 97331-3003.

Acceptance of a variety, developed through traditional or biotechnological means, for certification by the Certification Board shall be based on the following information (this information shall be considered confidential):

A. A statement by the person or firm requesting certification that the variety has been adequately tested to determine its value and probable area of adaptation, that it merits certification, and that it is distinguishable from other varieties as set forth in Article V of the International Code of Nomenclature of Cultivated Plants, which reads as follows: "The term cultivar (variety) denotes an assemblage of cultivated individuals that is distinguished by any characters (morphological, physiological, cytological, chemical, or others) significant for purposes of agriculture, forestry, or horticulture, and which when reproduced (sexually or asexually) retain their distinguishing features."

   When any stock being presented for certification has been previously released under a different designation, the Certification Board reserves the right to refuse further consideration until the sponsoring breeder or originator files documentary evidence from the United States Department of Agriculture (USDA) Seed Branch indicating that such a stock of seed is free to move in interstate commerce under the new designation being proposed.

B. A statement on origin and breeding procedure.

C. A description of the morphological characteristics (such as color, height, uniformity, leaf, head, or flower characteristics, etc.), physiological characteristics of value to field inspectors, and such other factors as the breeder or sponsor considers pertinent to show uniqueness.

D. Evidence of performance including data on yield, insect or disease resistance, turf, and other factors supporting the value of the variety. These performance tests may be conducted by private seed firms or agricultural experiment stations and shall include appropriate check varieties that are used extensively in the area of intended usage.

E. A statement giving the probable region of adaptation and purposes for which the variety will be used. This should include areas within states or countries where the breeder of the variety has tested the variety and in which the variety will be recommended and marketed.

F. Procedure for maintenance of stock seed classes shall be described. At the time a variety is accepted for certification, a two-cup sample of stock seed (class-designated) or sample of propagating material, if requested, shall be presented to the certifying agency. The certifying agency can request a sample of the stock seed or propagating material, at any time while the variety is in the certification program.

G. When varieties are reviewed for acceptance into the Oregon Certification program, a favorable report from the appropriate national variety review boards and the Plant Variety Protection office will be considered.

H. For the purpose of certification it will be assumed that all perennial ryegrass varieties are 100 percent non-fluorescing and all annual ryegrass varieties are 100 percent fluorescing. If contrary evidence is available; it may be presented to the National Certified Grass Variety Review Board. The Board is to make its finding available to the Administrator of the Federal Seed Act.

I. A ploidy test must be conducted on all Organization for Economic Cooperation and Development (OECD) annual ryegrass pre-control samples as a condition of acceptance into the OSCS program.

J. Seed will be eligible for certification upon meeting the appropriate certification standards. Information pertaining to the certification of a private variety will be made available only to the specified firm or individual (owner/agent) upon written request to the Seed Certification Service.

K. A variety may be deleted from the Oregon list of eligible varieties after several consecutive years of non-certification. Upon receiving a request from the owner, agency, or breeder to discontinue certification of a variety, a producer will be allowed nine months to sign up recently planted fields for certification (seedling inspection). After this time, no new fields will be accepted for certification. Existing perennial fields will be allowed to complete their "life of stand" limitation established at time of varietal acceptance. If no life of stand has been established for the variety a four-calendar year limit will apply.

IV. Production of Certified Seed

A. Application for Field Inspection

1. Application for field inspection serves as notification, registration, and as an agreement to abide by all rules and regulations governing certification in Oregon.

   Where application for certification is made in the name of someone other than the individual or organization that is physically doing the farming, a copy of the planting stock invoice must be provided in addition to all certification tags at sign-up (invoice to include name of farmer, variety and crop, poundage, lot number, generation and date of invoice).

   Inspections of certified fields are of two types, seedling and seed crop. Inspection of some annual crops combines aspects of both seedling and seed crop.

   A standard field number system will be year of planting followed by a hyphen and up to three digits thereafter. No letters can be accepted.

2. Seedling application and inspections are to be made on all perennial grass, annual ryegrass, perennial legumes, and on all OECD crops. An inspection will be made at planting time on vegetatively propagated grasses. An adequate map must accompany the seedling inspection form and must include a detailed boundary of the area to be inspected. Applicants are strongly advised to utilize the OSCS online mapping system when preparing the initial field application.

   A seedling field will be checked for eligibility of *Stock Seed*, adherence to *Land Requirements*, potential *Isolation* problems, presence of *Prohibited Weeds*, *Field Management*, and *Location*.

   Application for seedling inspection must be submitted immediately after planting. Each crop has deadlines for applying for seedling and crop inspections; check with the Certification Office for specific deadlines. All of the stock seed tags from seed used for planting should accompany the seedling application; see Small Grain Seed Standards for requirements specific to these crops. In case of a thin stand or stand failure, the seedling application and inspection may serve as a record to substantiate declared land history and variety seeded for reseeding qualifications.

3. Seed Crop Application and Inspection: The grower must apply for a seed crop inspection before the specified deadline each year if a certified seed crop is to be harvested. A seed field will be checked for eligibility (having a prior seedling inspection, or if an annual, stock seed and land requirement eligibility), potential *Isolation* problems, presence of *Prohibited Weeds*, and *Field Management*. A field will be checked for compliance with individual field standards listed for the crop and items listed in the Handbook.

B. Stock Seed

1. The grower must plant eligible varieties of the proper class or generation. Documentary evidence of the seed source (such as certification tag, sales record, etc.) must be furnished when applying for certification. All planting stock tags are to accompany seedling applications.

2. Four seed classes meeting or exceeding the standards of the Association of Official Seed Certifying Agencies (AOSCA) are used in Oregon seed certification: Breeder, Foundation, Registered, and Certified.

   a. Breeder Seed is the original source of all classes of certified seed. It is stocked directly, maintained, and controlled by the originating or sponsoring plant breeder or institution, and provides the direct source of Foundation seed.

   b. Foundation Seed (White tag) is produced from fields planted with Breeder seed (except potatoes). Oregon public varieties will be grown under the supervision of, or under contract with, the Foundation Seed Project.

c. Registered Seed (Purple tag) is produced from fields planted with Foundation seed. In some varieties, there is no Registered class - check the variety list in front of the Handbook for this information.

d. Certified Seed (Blue tag) is produced from fields planted with Registered seed or Foundation seed if there is no Registered class. Exceptions to this are as follows:

Note: Limitations of Generations: The number of years and/or generations through which a variety may be multiplied shall be limited to that number specified by the originating breeder or owner of the variety, and shall not exceed two generations beyond the Foundation class with the following exceptions:

a. Recertification of Certified class of seed may be permitted for older varieties where Foundation seed is not being maintained.

b. The production of an additional generation of the Certified class may only be permitted on a one-year basis, when the certifying agency declares an emergency prior to the planting season, stating that the Foundation and Registered seed supplies are not adequate to plant the needed certified acreage of the variety. The permission of the originating or sponsoring plant breeder, institution, firm, or owner of the variety, if existent, must be obtained. The additional generation of Certified seed produced to meet the emergency need is ineligible for recertification.

3. Stock Seed Increase of an Experimental Line: The field increase of stock seed to be used for experimental purposes may be examined by the Seed Certification personnel, provided such a request is made, including a brief variety description, before planting. A request for Experimental Variety status will be allowed for a production period **of three years only** in the Oregon certification program. An additional one-year extension for the production of Experimental Seed will be allowed, upon written request by the originator, for extenuating circumstances. An appropriate tag will be issued to declare the intended use of the seed for experimental purposes. This tag will not imply that the experimental line has been accepted into the certification program. Fees for this service are the same as for other certification services.

4. Substandard Seed: Seed that fails to meet certification requirements of genetic purity is not eligible for tagging. At the discretion of the certifying agency, seed that fails to meet requirements of factors other than genetic purity may be designated substandard and tagged. The reasons for substandard classification must be shown on the tag. Seed that could be re-cleaned to meet minimum seed standards cannot be tagged in this manner.

5. The Foundation Project: within reason shall produce or purchase sufficient stock material to meet the demands of the certified seed producer.

C. Land Requirements

The seed must be planted on clean land. Crops must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting. The land must not have been previously planted to or have grown another variety or class of seed that might volunteer and affect genetic purity. Adding manure or other contaminating amendments may constitute a basis for not meeting land requirements. The land for the production of legumes must have been free of volunteer plants of the crop kind during the year immediately prior to establishment.

1. Land History must not have included another variety or class of seed that would be a source of volunteers from seed in the soil. The duration between classes and varieties is based on longevity of viable crop seed in the soil. Specific land history and planting procedure requirements are established for each crop, variety, and class of seed.

2. Modified Land History (MLH) may be approved by the Seed Certification Office when a cultural practice has proven to be successful. Cultural practice may include mechanical means such as deep plowing and/or chemical means such as fumigants or other materials for seedbed preparation. Materials and

methods must be a matter of record. Whichever method is used, it must be approved and adequate to maintain varietal purity. Modified Land History (MLH) will be permitted on Registered and Certified generations. The field must be out of production of the same crop for at least one winter. For crops/generations requiring five years out of the same crop, MLH can reduce this requirement to a minimum of three years with conventional tillage, or two years for certified annual ryegrass production if the field history has been continuous no-till since the previous annual ryegrass. To aid in distinguishing between volunteers and the crop seeded, the seed must be planted in distinct rows but may vary in row spacing.

3. Volunteer Plants may arise from seed of another class or variety, or from vegetative portions of a plant (such as old crowns, stems, stolons, rhizomes, etc.). Volunteer plants, whether from seed or from vegetative parts, may be cause for rejection or reclassification of a seed field.

D. Isolation

1. Isolation: All fields used for the production of certified seed must have the minimum specified isolation distances (see individual crop standards) from fields of any other variety of the same species or closely related species unless of the same variety, generation, and certified, or as modified by the 10% Rule or Border Removal rule (see 10% Rule and Border Removal below). Adequate distance between seed crops must be maintained to prevent overlapping seed heads of lodged plants; this isolation distance is called a mechanical separation.

2. Isolation Strip: The isolation distance determines the size of this strip, which may be located adjacent to, or within the certified field. If adjacent, then the strip may be used to:

   a. Produce a crop of another species.

   b. Grow the same species but a different variety which must then be cut prior to pollination (which may be subject to inspection; e.g., adjacent pasture or hay).

   c. To grow the same variety and generation, but the crop in this strip **must remain standing** to serve as a pollen trap until the certified crop has completed pollination (this is an application of Border Removal; see below); seed from this strip must be harvested separately and conditioned as uncertified.

3. 10% Rule: Applicable to alfalfa and grass seed fields 5 acres or larger, Certified class only; fields that have a "total isolation zone" of less than 10% of the entire field, require mechanical separations only. An isolation zone is calculated by multiplying the length of the border, in common with other varieties of the same kind, by the average width of the certified field falling within the required isolation distance (usually 165 feet and measured from the edge of the contaminating pollen source). All isolation zones in a field must be added together to determine the total isolation zone for the entire field, therefore sum the total square footage in isolation zones and divide by 43,560 square feet/acre, then divide by the field acreage, and multiply by 100. If the total isolation zone is less than 10% of the entire field, then only mechanical separations are required.

4. Border Removal: Applicable to grass seed fields 5 acres or larger, all generations. If it is not possible to provide minimum required isolation distances between fields, and the seed field does not meet the 10% Rule, then border removal is permitted. This is the removal, **after flowering, and as uncertified,** of a portion of the seed field adjacent to the contaminating pollen source, as indicated in Table 1. Re-inspections in the field and warehouse may be made to ensure the identity is maintained for seed from border removal strips.

5. 25% Rule: Fields of the same variety but of differing generations or classes must be isolated by a distance of 25 percent of that otherwise required between varieties. This standard is applicable to all crops unless otherwise noted in the specific crop standard.

Table 1

Border Removal for Grass Isolation (for fields 5 acres or larger)		
Generation/Class of Inspected Crop	Distance from the contaminating pollen source	Width of Border Removal area[1] within the seed field
Foundation	900 feet or more	0 feet
	600-899 feet	9 feet
	450-599 feet	15 feet
	Less than 450 feet	465 feet[2]
Registered	300 feet or more	0 feet
	225-299 feet	9 feet
	150-224 feet	15 feet
	Less than 150 feet	165 feet[2]
Certified	165 feet or more	0 feet
	105-164 feet	9 feet
	75-104 feet	15 feet
	Less than 75 feet	90 feet[2]

[1]The Border to be removed from the certified field shall be clearly marked with an adequate number and height of stakes (at least one every 300 feet and taller than the mature canopy height) so that the inspector can determine the distance. Inadequate or improper staking will require re-inspections.
[2]The required Border Removal is measured from the edge of the contaminating pollen source.

E. Field Management and Inspection

1. Field Management Prior to Field Inspection:

   a. The field shall be in such condition that genetic purity is maintained. Any condition that shall not permit adequate inspection to determine genetic purity shall be cause for rejection. Plant growth regulators may not be applied to legume seed production fields of Foundation or Registered (or equivalent) classes of certified seed.

   b. Field or seedling identity shall be maintained throughout the life of the stand. In all cases, a field number system is required. The field number designated by the grower must be unique (i.e., two fields belonging to a grower may not carry the same designation). A standard field number system will be year of planting followed by a hyphen and up to three digits thereafter. No letters can be accepted.

   c. Roguing of objectionable weeds, other crops, and off-type plants difficult to separate in cleaning should be done before inspection. Failure to rogue will constitute a basis for refusal to approve for certification.

   d. The certification inspector may refuse to approve a field for certification due to unsatisfactory appearance due to weeds, insufficient growth, inadequate stand, disease, insect damage, and/or any condition that prevents thorough inspection or that may reflect unfavorably upon the certification program.

   e. The certification unit is the entire field. When a portion of the field is to be certified; this portion must be properly identified by a fence, ditch, other crops, mowed strip, or adequate stakes. This boundary is to be approved by the inspector as to its adequacy and may be subject to re-inspection.

   f. Evidence of seed-borne disease at the time of field inspection or presence of seed-borne disease in the seed lot may constitute basis for rejection, reclassification, or recommendation for seed treatment.

g. The presence of smut balls in a seed stock field (Foundation or Registered class) shall be basis for reclassification to the Certified class.

2. Re-inspection: A seedling or seed field which fails to meet the minimum standards may be Rejected Subject to Re-inspection (RSR). The grower may apply for re-inspection but must have the cause for rejection corrected and apply online before the deadline specified on the initial inspection form. There will be only one re-inspection per field.

3. Basis for Refusal to Inspect: The Oregon Seed Certification Service reserves the right to refuse certification and in some instances return fees when:

   a. The location of the field is such that inspection would be unduly expensive.

   b. The grower fails to follow the rules governing certification, including a failure to pay for services previously rendered.

   c. Heavy weed infestation, lodging, etc., or storm, frost or other conditions beyond the control of the grower do not permit satisfactory inspection.

   d. A field is harvested before inspection.

4. Appeal Procedures:

   a. Appealing a Decision: If a grower disagrees with a decision rendered by the primary inspector of the field, this decision may be appealed. The grower must file a letter or email notice of appeal within 15 days of receiving notice of the decision. The appeal notification should include the crop type, the variety and the certification field number. The letter of appeal must be signed by the grower or the grower's agent and forwarded to the Oregon Seed Certification Service, 31 Crop Science Building, Corvallis, Oregon 97331-3003 or osu-cert@oregonstate.edu. The grower must include with the appeal letter or email any additional information that may be appropriate to the resolution of the appeal.

   b. Appeal Process: When a notice of appeal is received by the Oregon Seed Certification Service (OSCS) office, the Certification manager will review the notice of appeal. If, in the judgement of the Certification manager a second inspection would assist in resolution of the matter, he/she will instruct a second inspector to review the field or fields in question when time, weather, and crop conditions still permit a valid assessment. The Certification manager will review all relevant information held by the OSCS office and determine whether or not the appeal needs to go forward. The Certification office will notify the grower of the Certification manager's decision and the reasons for the decision. Within 15 days of notification of that decision, the grower must notify the OSCS office in writing if the grower continues to dispute the decision. As promptly as possible the OSCS office will then forward all information to the chair of the Certification Board, or his/her representative for consideration by the Appeal Advisory Panel.

   c. Appeal Advisory Panel and Notification: A confirmation notice letter or email will be sent out by the OSCS office to the grower or grower's agent who sent in the notice of appeal. This will acknowledge that the notice of appeal has been received and that a Certification Appeal Advisory Panel will be assembled. The grower must provide any additional pertinent information in writing to the OSCS office within one week of the notice. The Appeal Advisory Panel will be composed of Oregon certified seed growers and an OSU Extension staff member when available. The recommendations by the Appeal Advisory Panel members and all relevant information held by the OSCS office will be sent to the OSU Dean of Agricultural Sciences for review. Once the Dean has made a decision, a letter will be sent to the grower or grower's agent who sent in the appeal letter explaining the Dean's decision. The Dean's decision is final and is not subject to further appeals.

V. Weeds Prohibited in All Oregon Certified Seeds

Seeds of the following list of weeds are prohibited in certified seed.

Austrian fieldcress (*Rorippa austriaca*)
Austrian peaweed (*Sphaerophysa salsula*)
Bearded creeper (*Crupina vulgaris*)
Camelthorn (*Alhagi maurorum* [=*A.camelorum*])
Canada thistle (*Cirsium arvense*)
Carolina horsenettle (*Solanum carolinense*)
Dalmatian toadflax (*Linaria dalmatica*)
Diffuse knapweed (*Centaurea diffusa*)
Dodder (*Cuscuta* spp.)
Dogbane (*Apocynum* sp.)
Dyers woad (*Isatis tinctoria*)
Field bindweed (*Convolvulus arvensis*)
Hairy whitetop (*Lepidium appelianum* [=*Cardaria pubescens*])
Halogeton (*Halogeton glomeratus*)
Iberian starthistle (*Centaurea iberica*)
Italian spiny thistle (*Carduus pycnocephalus*)
Johnsongrass (*Sorghum halepense*)
Jointed goatgrass (*Aegilops* spp.)
Leafy spurge (*Euphorbia esula*)
Malta starthistle (*Centaurea melitensis*)
Medusahead rye (*Taeniatherum* [=*Elymus*] *caput-medusae* subsp. *caput-medusae*)
Musk thistle (*Carduus nutans*)
Perennial pepperweed (*Lepidium latifolium*)
Perennial sowthistle (*Sonchus arvensis*)
Purple starthistle (*Centaurea calcitrapa*)
Quackgrass (*Elymus* [=*Elytrigia =Agropyron*] *repens*)
Ragweed (*Ambrosia artemisiifolia*)
Rush skeletonweed (*Chondrilla juncea*)
Russian knapweed (*Rhaponticum* [=*Centaurea =Acroptilon*] *repens*)
Serrated tussock (*Nassella trichotoma*)
Silverleaf nightshade (*Solanum elaeagnifolium*)
Slender foxtail or Blackgrass (*Alopecurus myosuroides*)
Slenderflower thistle (*Carduus tenuiflorus*)
Spotted knapweed (*Centaurea stoebe* subsp. *micranthos* [=*C. maculosa*])
Squarrose knapweed (*Centaurea virgate* subsp. *squarrosa* [=C. *vigata*])
Tansy ragwort (*Jacobaea* [=*Senecio*] *vulgaris*)
Whitetop (*Lepidium* [=*Cardaria] draba* and *L. appelianum* [=*Cardaria pubescens*])
Wild garlic (*Allium vineale*)
Yellow starthistle (*Centaurea solstitialis*)

VI. Conditioning Certified Seed

The sampling and tagging of certified seed is coordinated under the auspices of the county extension offices. A list of county extension offices is in the front of this Handbook and can be obtained from the Seed Certification Office.

A. Inter-county or Interstate Seed Movement

1. Identity of seed must be maintained during any seed movement.
2. When seed that is eligible for certification, but not in condition for sale, is moved from one warehouse to another, the Oregon Seed Certification Service Office must be notified.
3. The Oregon Seed Certification Service must be notified when seed is shipped interstate. At the discretion of the certifying agencies concerned, the seed may or may not be tagged when moved between Idaho, Washington, and Oregon. When seed is moved for further conditioning to other than contiguous states, it must be tagged. Any additional expense incurred in such shipment must be paid by the party desiring the service.

B. Storage and Conditioning

1. All warehouses conditioning certified seed must be inspected and approved. Additional inspections may be conducted at the discretion of the Oregon Seed Certification Service.

   a. All warehouses conditioning or blending seed eligible for Oregon Certification shall be inspected and approved by a representative of the Oregon Seed Certification staff. Evidence of facilities and records to adequately maintain identity and separation of varieties will be required.

b. Applications for warehouse approval shall be filed with the Oregon Seed Certification Service Office no later than four months prior to receiving seed that is eligible for certification to allow time for inspection. Seed Certification can re-assign the code of old warehouses that have been out of business for at least ten years or get permission from the previous owners if it is less than ten years.

2. Identity, purity, and uniformity of certified seed must be maintained at all times.

   a. Lot uniformity is the responsibility of the seed conditioner. Appropriate steps in seed storage, conditioning, and handling must be taken to assure uniformity.

   b. Mode of operation and facilities must be such that conditioning and/or storage is performed without introducing admixtures. Evidence of varietal mixture in a seed lot may constitute a basis for further investigation or rejection.

   c. Certified seed containers must be identified with a permanent lot number stenciled on each individual unit prior to sampling for seed quality. Sewn on or attached tags with lot numbers are not acceptable. In instances where stenciling is not feasible; adhesive lot number identification tags may be allowed, with prior approval by Oregon Seed Certification. The lot number indicates the county and warehouse where seed was conditioned, year of harvest and the unique lot number. Example: B8-20-XXXX where, "B8" represents the warehouse/conditioner number assigned by the Seed Certification Office, "20" indicates the year the crop was harvested and "XXXX" represents the location where the warehouse can assign their own identification number for specific lot identity.

   d. Re-use of fifty pound polypropylene bags for conditioned grass seed may be allowed for Oregon Certification with prior approval by Oregon Certification and may only be used for internal handling of seed (contact Certification Office for current procedures). Paper bags should not be re-used when a certification lot is re-cleaned. Bagged Foundation or Registered cereal seed must be in new bags; bagged Certified class seed must be in new or cleaned used bags. In all cases, the lot number must be clearly visible and legible.

   e. Oregon lot size is regulated by State Seed Law on certain seed crops. See section IX, E.

   f. OECD lot size: See section IX, G.

3. Bulk Containers.

   a. Only clean bulk containers may be used in conditioning certified seed. Conditioned grass seed is to be packaged in new containers. Re-use of bulk bags for conditioned grass seed may be allowed for Oregon Certification with prior approval by Oregon Certification (contact Certification Office for current procedures).

   b. Bulk bags or boxes that will be transferred for further conditioning within Oregon without stenciled lot numbers must obtain prior approval from Oregon Seed Certification.

4. Complete records of all operations involving certified seed must be maintained and available to the Oregon Seed Certification Service Representative.

5. Prior approval to blend different growers' lots of seed must be received from the Certification Office. The blending request forms may be obtained from this office. See also Small Grains Certification Standards, Special Requirements regarding commingling.

C. Sampling and Testing Seed

1. After conditioning, a representative sample of each lot of seed considered for certification must be drawn by a representative from Oregon Seed Certification for testing in the Oregon State University Seed Laboratory. The Dean may enter into agreements with appropriate public or private agencies to assist the Oregon State University Seed Laboratory in the testing and analysis of seed samples. Probe samples will be taken by Oregon Certification personnel; automatic samples by approved cross-cut or pelican

type samplers will be taken under the supervision of Oregon Certification personnel. The seed must meet the minimum seed standards. Lots showing Oregon prohibited weeds must be reconditioned before being re-sampled or blended. All lots must be sampled and tested before being blended. The testing costs are in addition to certification costs.

2. Seed tests and analytical terms are used in accordance with the rules and regulations of the Association of Official Seed Analysts.

3. Tags may be issued upon receipt of either a *tetrazolium* test or a *germination* test which meets Oregon minimum viability standards, providing all other requirements are met. Ryegrass seed must have a germination and fluorescence before the lot can be tagged. An ammonia test is required on all hard fescue, sheep fescue, Idaho fescue and blue fescue samples, as well as Foundation and Registered generation for chewings fescue, red fescue, and annual fescue, before the lot can be tagged. A supplemental test may be used for tagging purposes. Specific molecular tests may be used for tagging purposes.

4. For Certification purposes, a recleaned lot can be tagged on the original viability test, but a follow-up germination should be requested to comply with Federal Seed Laws.

D. Tags, Labels, Seals, and Shipping Certificates

1. All classes of certified seed when offered for sale shall have an official certification label affixed to each container clearly identifying the Oregon Seed Certification Service, the variety name, kind, and class of seed.

2. Certification tags and labels are only for use on certified seed that is produced in accordance with the standard rules and regulations established under authority of Oregon Revised Statute Chapter 633. The tag or label indicates that the seed has passed all the inspections and seed tests required by certification rules and regulations.

3. Certification tags, labels and seals will be affixed to seed containers under the supervision of the certifying agency.

4. Tags assigned to a given lot must not be attached to a different lot. When a seed lot is reconditioned, certification tags removed from seed containers shall not be re-attached and shall be returned to the Oregon Seed Certification Service office.

5. In the case of seed sold by use of a Certificate of Final Certification or Transfer of Seed Pending Final Certification, the Certificate must be created using the eCertification online system at Oregon Seed Certification Service. This Certificate is to accompany the seed shipment to the final destination.

E. Labeling of Mixtures of Certified Seed

When approved by the Certification Office, mixtures of certified seed packaged under the supervision of the Oregon Seed Certification Service may be labeled with a special blue tag indicating all the components are certified seed.

F. Interagency Certification

1. Interagency certification may be accomplished by participation of more than one official certifying agency in performing the services required to certify a lot of seed.

    a. The certifying agency issuing labels for all classes of certified seed shall require the seed on which the labels are used to meet standards at least equal to the minimum genetic standards for the seed in question as specified in the Federal Seed Act rules and regulations. Seed that is re-bagged, blended, or put into a mixture of certified seed for Oregon Interagency Certification must have an all-states noxious weed seed examination in addition to meeting either, another state's or Oregon's certification field and seed standards, prior to approval.

b. Seed to be recognized for interagency certification must be received in containers carrying official certification labels, or if shipped for conditioning, evidence of its eligibility from another official certifying agency, together with the following information:

(1) Variety (if certified as to variety) and kind.
(2) Quantity of seed (pounds or bushels).
(3) Class of certified seed.
(4) Inspection or lot number traceable to the previous certifying agency's records.

c. Each label used in interagency certification shall be serially numbered or shall carry the certification identity number and clearly identify the certifying agencies involved, the variety (if certified as to variety), kind, and class of certified seed.

G. Complying with Federal and State Seed Laws

Responsibility for meeting requirements of Federal and State Seed Laws in selling or shipping certified seed rests with the grower and/or seed dealer.

VII. Organization for Economic Cooperation and Development (OECD) Certification Scheme

A. OECD is an international program, with membership limited to national governments of participating countries. The USDA Agricultural Marketing Service has been assigned the responsibility of implementing the OECD Seed Schemes in the United States, with the cooperation of official state seed certifying agencies. The Oregon Seed Certification Service, Oregon State University, is the legally designated authority for OECD certification in Oregon.

B. The objective of the OECD Seed Schemes is to encourage the exchange of improved varieties among cooperating nations. Certain rules and principles are followed to maintain varietal identity and genetic purity.

C. Grass and legume varieties eligible for OECD certification appear in the OECD List of Varieties Eligible for Certification. OECD seed stock must be sampled by the Oregon Seed Certification Service and receive official approval prior to multiplication. Domestic varieties must meet all Oregon genetic certification requirements, plus any relevant OECD regulations, in order to be eligible for OECD tagging.

D. All certified seed produced must be directly related through one or more generations to Breeder seed. OECD white Basic seed tags denote the OECD equivalent to U.S. Foundation or Registered seed. OECD blue and red tagged seed are first-and-second generation from Basic seed, and are intended for no further seed production.

E. Satisfactory conditions for the production and conditioning of OECD seed must be verified by the Oregon Seed Certification Service. All OECD varieties must have a seedling inspection. In addition, field requirements as listed in the Certification Handbook will be used to govern field inspections.

F. The Scheme authorizes the use of labels and certificates for seed produced and conditioned for international trade. All seed to be tagged must have a certificate of seed analysis prior to tagging. Seed analysis information for OECD certificates will be provided by 1) OSU Seed Testing Laboratory or 2) other seed testing laboratories that may be recognized by the Dean and by OECD authorities. Each specific seed lot is issued a reference number, which is reflected on the tags and certificates. This reference number will be assigned after permission has been granted from the U.S. registered contractor.

VIII. Fees

A. Field Inspection Fees: Certification fees must be paid at the time of application. Credit cards may be accepted for certain payments, checks are required for all other fees. Checks must be made payable to Oregon Seed Certification Service, and submitted to the OSCS office or the county extension office. These fees are periodically adjusted to meet expenses.

1. Crop inspection fees are assessed each year in which an application is submitted. Application received after the deadline will be charged a late fee.
2. Seedling inspections are assessed a flat fee, regardless of acreage.
3. Late applications may not be accepted into the certification program if:

   a. the crop is past the stage when a proper inspection can be made,

   b. the inspection will not fit within the workload of inspection personnel or

   c. other reasons listed in this Handbook.
4. Special Request: Special out-of-the-routine requests will be subject to a fee.
5. Re-inspection requires a flat fee per field.
6. In addition to the regular acreage fee, an additional fee is required for each Pre-Basic, Basic, Foundation, and Registered field entered for field inspection. If the additional fee is not paid, the field will be eligible for the Certified Class only.

B. Additional and Special Fees: These charges are billed by the Oregon Seed Certification Service directly to the grower or warehouse. Payment for these charges must be sent or submitted to Seed Certification Service, 31 Crop Science Building, Corvallis, OR 97331-3003.

1. A per-cwt fee will be charged on all lots sampled by Oregon Seed Certification Service.
2. Where growers or dealers wish to merchandise certified seed in specially sealed packages, such as small boxes, plastic, paper or cloth bags, or in other distinctive packages weighing 25 pounds or less, or in cases where special tags or seals must be devised, or where the labor of sealing and tagging such packages involves greater cost, special fees shall be charged to cover the extra expense.
3. Advance tagging of seed lots is permitted when preliminary seed test results meet Oregon Certification Standards. Advance tagging for annual and perennial ryegrass seed lots is done at the full risk of the individual and/or seed contractor. Contact OSCS office for current procedures.
4. Early Sampling and Tagging of annual and perennial ryegrass seed lots is permitted under certain conditions. Early sampling and tagging of annual and perennial ryegrass seed lots is done at the full risk of the individual and/or seed contractor. Contact OSCS office for current procedures.

C. Refunds and Adjustments: All fees for overpayment or duplicate charges will be refunded. Other fees paid where a grower decides not to harvest his crop for seed, and so notifies the OSCS Office before seedling and field inspections are made, will be refunded upon written request by the seed grower (a special request charge will be withheld for processing). None of the acreage fee will be refunded if the acreage is rejected at the time of inspection.

D. Stock Material Fees: Foundation Seed Program will charge such fees as necessary to purchase or produce stock material in sufficient amounts to assure a continuing supply of basic material for the certified grower of Oregon.

IX. Definitions

A. Isolation Zone: The area of a certified field representing the isolation requirement for a given crop. (See Section IV D for instructions to calculate the isolation zone.) Isolation problems must be staked after sign-up.

B. Off-Type: Any seed or plant not a part of the variety in that it deviates in one or more characteristics from the variety described and may include seeds or plants of other varieties; seeds or plants not necessarily any variety; seed or plants resulting from uncontrolled self-pollination during production of hybrid seed, or segregates from any of the above plants.

C. None or Zero Tolerance: None or zero means none found visually during the normal inspection procedures. Zero or none is not a guarantee to mean the field or seed lot inspected is free of the factor.

D. Seed Tests and Analytical Terms: Used in accordance with the rules and regulations of the Association of Official Seed Analysts (AOSA) and Oregon Seed Certification:

1. AOSA Seed Test: A test required for determining the seed quality of certified seed for either Oregon or OECD tagging.
2. AOSA-EC: OECD tags can be printed with "Meets EC Norms & Standards" if the AOSA seed test is completed using the European Community (EC) standards and the lot meets these standards. An EC Norms determination is not done automatically and must be requested when ordering lab testing.
3. Ammonia Test: A test required on fine fescue species to distinguish chewings, red and annual fescue from blue, hard, and sheep fescue, which is done automatically on Certified samples of blue, hard and sheep fescue and Foundation and Registered samples of chewings, red and annual fescue.
4. Dodder Exam: A 500 gram sample of alfalfa and red clover is required to be examined the presence of dodder and is done automatically on certified samples.
5. Ploidy Test: A test used to establish the ploidy level in grass varieties to assist in determining certification eligibility. A ploidy test is required on all tetraploid ryegrass and should be requested at the time of sampling.
6. Molecular Test: These are tests of either nucleic acid or proteins in plant cells. The tests are related to specific genes controlling plant characteristics that are used for certification purposes. These marker tests may be used for trait presence verification or as genetic identity tests.
7. Allelic Discrimination Test: A ryegrass allelic discrimination (RAD) test may be used in lieu of an AOSA Grow-Out test to separate annual and perennial ryegrass types for certified samples.
8. Fluorescence Test: A fluorescence test shall be made on all samples of ryegrass for which the percentage of perennial ryegrass and annual ryegrass is to be reported. The seedlings shall be grown on filter paper and the number of fluorescent seedlings determined under ultraviolet light at the end of the germination period.
9. Other Bentgrass Species: A seed separation test will be done on any bentgrass seed sample where other bentgrass species are observed. A specific number of seeds are separated and examined for the presence of other bentgrass species.

E. Oregon Seed Lot Size: The maximum seed lot size is 55,000 pounds for bentgrass, bluegrass, smooth brome, fescue, meadow foxtail, orchardgrass, ryegrass, timothy, wheatgrass, clover and vetch. A tolerance of 5% is permitted on this maximum. (Dept of Ag 603-056-0125)

F. OECD Seed Lot Size: For seeds the size of wheat or larger, one seed lot shall not exceed 44,000 pounds. For seeds, smaller than a kernel of wheat, the seed lot shall not exceed 22,000 pounds. Grass seed lots of *Poaceae* species may have a maximum size of 55,000 pounds if produced according to international methods. A tolerance of 5% is permitted on this maximum.

G. The Plant Variety Protection Act: Every certificate of plant variety protection shall certify that the breeder (or successor in interest) or heirs or assignees, has the right, during the term of the plant variety protection, to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or using it in producing (as distinguished from developing) a hybrid or different variety there from, to the extent provided by this Act. If the owner so elects, the certificate shall also specify that in the United States, seed of the variety shall be sold by variety name only as a class of certified seed and, if specified, shall also conform to the number of generations designated by the owner.

H. Title V of the Federal Seed Act: Sale of Uncertified Seed of Protected Variety, Sec. 501, states: "It shall be unlawful, in the United States or in interstate or foreign commerce to sell by variety name seed not certified by an official seed certifying agency when it is a variety for which a certificate of plant variety protection

under the Plant Variety Protection Act specifies sale only as a class of certified seed: provided, that seed from a certified lot may be labeled as to variety name when used in a mixture by, or with approval of the owner of the variety."

X. Disclaimer of Warranty

The Oregon State University Seed Certification Service expressly represents that it has acted in accordance with those standards and procedures established for seed certification in Oregon. The issuance of a certified seed label or certificate for a lot of seed neither warrants that any other person or entity has acted in accordance with such standards and procedures, nor constitutes any other warranty, express or implied, including merchantability or fitness for purpose or otherwise which extends beyond the certification that the seeds inspected met the regulations of the agency.

The OSU Seed Certification, Foundation Seed and Plant Materials Program

Seed Certification, Foundation Seed and Plant Materials Board

OSU Representatives (ex officio, voting)

Chairman of the Board[1]
Assistant to the Chairman[2]

OSU Representatives (ex officio, non-voting)

Crop & Soil Science Department Head[3]
Director of Seed Services[4]
Seed Certification Manager
Seed Laboratory Manager
Horticulture Department Head

OSU Board Members (appointed[5] voting)

Cereal Specialist
Dean of Outreach and Engagement
Extension Specialist
Mint Specialist
Plant Breeder
Plant Pathologist
Potato Specialist
Research Geneticist

Affiliate Agencies (voting)

ODA representative
USDA Representative

Oregon Industry Members[6] (voting)

Cereal Advisory Committee Representative
Grass & Legume Advisory Committee Representative
Mint Advisory Committee Representative
Potato Advisory Committee Representative
Hemp Advisory Committee Representative
Seed Conditioners Advisory Committee Representative
Seed Industry Representative

Variety Acceptance Panel [7]

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[1] Dean, OSU College of Agriculture and Director of the Experiment Station. Will appoint Board members, advisory committee members, variety acceptance panels, management staff and appeal panels.

[2] OSU College of Agriculture Associate Dean or Dean representative.

[3] Will serve as program administrator and coordinator and supervise over-all handling of budgets, management, staffing and operations.

[4] At Chairman's request, coordinates the Seed Certification, Foundation Seed & Plant materials Board meeting; Appoints Appeals Panel members.

[5] Appointed by the Chairman of the Board; Three-year duration, with eligibility for re-appointment. Will meet at least once per year and additional meetings by call of the chairman. Will set policy and establish standards.

[6] Will advise the Board on all relevant industry considerations and recommend modifications in procedures as appropriate. Will make summary reports at each Board meeting and will set policy and establish standards.

[7] Accept varieties into the program based upon criteria established by Board.

Committees Advisory to the Board

GRASS & LEGUME ADVISORY COMMITTEE AFFILIATION

Voting	
Seed Dealer Representative (6)	Oregon Seed Association
Seed Producer Representative (6)	Oregon Seed Growers League
Turfgrass Breeders Assn Representative	Turfgrass Breeders Association
OSU Extension Specialist	Oregon State University
Forage Researcher	Oregon State University
OSU Extension Representative (2)	Oregon State University
Non-Voting	
Department Head of Crop & Soil Sciences	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University
OSU Seed Laboratory, Manager	Oregon State University
ODA Representative	Oregon Department of Ag.

CEREAL ADVISORY COMMITTEE AFFILIATION

Voting	
Seed Grower Representative (3)	Oregon Wheat Grower League
Seed Producer or Dealer Rep - minor crops	Oregon Wheat Commission
Seed Dealer Representative (3)	Oregon Feed & Grain Assn.
Corn Seed Producer	Corn Sub-Committee
OSU Cereal Breeder	Oregon State University
OSU Cereal Extension Specialist	Oregon State University
OSU Extension Representative	Oregon State University
Non-Voting	
Department Head of Crop & Soil Sciences	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University
OSU Seed Laboratory, Manager	Oregon State University
ODA Representative	Oregon Department of Ag.

SEED CONDITIONERS ADVISORY COMMITTEE AFFILIATION

Voting	
Seed Grower Representative (3)	Oregon Seed Growers League
Seed Conditioner Representative (3)	Oregon Seed Growers League
Seed Dealer (3)	Oregon Seed Association
OSU Seed Conditioning Researcher	Oregon State University/USDA
OSU Extension Representative (2)	Oregon State University
Non-Voting	
Department Head of Crop and Soil Science	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University
OSU Seed Laboratory, Manager	Oregon State University
Oregon Seed Certification Service, Sampler	Oregon State University

POTATO ADVISORY COMMITTEE AFFILIATION

Voting	
Seed Potato Grower (3)	Klamath Basin Potato Growers Assn.
Seed Potato Grower (2)	Blue Mt Potato Growers Assn.
Seed Potato Grower (2)	Central Oregon Potato Growers Assn.
Seed Potato Grower	Oregon Potato Grower Assn.
Commercial Grower Representative (2)	Oregon Potato Commission
OSU Researcher (Pathologist)	Oregon State University
OSU Extension Representative (2)	Oregon State University
Non-Voting	
Department Head of Crop and Soil Sciences	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University
ODA Representative	Oregon Department of Ag.

HEMP ADVISORY COMMITTEE AFFILIATION

Voting	
Grower	Central Oregon
Grower	Columbia Basin
Grower	Northeast Oregon
Breeder	Willamette Valley
Breeder (2)	Southern Oregon
Breeder	Southeast Oregon
OSU Hemp Center	Oregon State University
OSU Weed Specialist	Oregon State University
OSU Pathologist	Oregon State University
Non-Voting	
Department Head of Crop & Soil Sciences	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University
OSU Seed Laboratory, Manager	Oregon State University
ODA Representative	Oregon Department of Ag.

MINT ADVISORY COMMITTEE AFFILIATION

Voting	
Root Stalk Grower (6)	Essential Oil Growers Assn.
Mint Commission Representative	Essential Oil Growers Assn.
OSU Plant Pathologist	Oregon State University
OSU Extension Representative	Oregon State University
Non-Voting	
Department Head of Crop & Soil Sciences	Oregon State University
OSU Seed Services, Director	Oregon State University
Oregon Seed Certification Service, Manager	Oregon State University

Cereals Advisory Committee

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Alex Albion (Committee Sec.)
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Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
ALFALFA
(Medicago sativa)
Revised February 15, 1994

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Alfalfa standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must be free from volunteer Alfalfa before planting for at least 4 years to produce Foundation seed, for at least 3 years to produce Registered seed, and for at least 1 year to produce Certified seed. At least two years must elapse between destruction of indistinguishable varieties or varieties of dissimilar adaptation and establishment of the stand for the production of the certified class of seed. Dissimilar adaptation will be determined as a difference of four or more fall dormancy values between that of the previous variety and the variety being planted. Fall dormancy values will be determined from descriptions prepared by the breeder for accepted varieties. With Registered and Certified fields, the time interval between harvest and new planting must be one year if the previous crop was of the same variety and generation. Alfalfa must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. For fields planted prior to January 1 the seedling application must be submitted within 60 days of planting. For fields planted between January 1 and July 1 the seedling application must be submitted within 15 days of planting. The seed crop application must be submitted by June 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted			Isolation Requirements[1]	
	Other varieties[2]	Sweet Clover	Red Clover	Less than 5 acres	More than 5 acres
Foundation	0.10%	None	None	900 ft.	600 ft.
Registered	0.25%	10 plants/acre	None	450 ft.	300 ft.
Certified	1.00%	10 plants/acre	--	165 ft.	165 ft.
Only 10 ft. isolation is required between seed fields of different classes but of the same variety.					
No White top, Leafy spurge, nor Russian knapweed allowed in any class of seed.					

Special Requirement: CUF101 limited to one harvest – must be same year as planting.

Seed Standards: (Minimum Sample Size – 1,000 grams)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	99.00%	99.00%	99.00%
Other crops, maximum	0.10%	0.10%	0.25%
Sweet Clover, maximum	None	45/lb.	90/lb.
Inert matter, maximum	1.00%	1.00%	1.00%
Weed seed, [3,4] maximum	0.10%	0.20%	0.25%
Weed seed, GROUP A[5], singly or combined	45/lb.	45/lb.	45/lb.
Germination, including hard seed	85%	85%	85%

[1] See Section IV, D in the OSCS Handbook
[2] Includes off-type plants.
[3] The presence of Dodder is not allowed in any class of seed. See Section IX, D4 in the OSCS Handbook.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort is allowed in any class of seed.
[5] GROUP A – Buckhorn plantain, Docks, Sheep sorrel, and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
CRIMSON CLOVER
(Trifolium incarnatum)
Revised February 12, 2013

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Crimson Clover standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown or been seeded to any Crimson Clover during the previous five years to be eligible to produce Foundation seed; during the previous three years to produce Registered seed. Land must not have grown or been seeded to Crimson Clover during the previous two years to produce Certified seed, unless the crop was of the same variety and certified. Crimson clover must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

If Foundation seed is planted, one Registered seed crop and two Certified seed crops may be harvested.

If Registered seed is planted, two consecutive Certified seed crops may be harvested.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation[3]	None	1320 ft.	1320 ft.
Registered[8]	0.2%	660 ft.	330 ft.
Certified[8]	0.5%	330 ft.	165 ft.
Between classes of same variety		10 ft.	

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	0.25%	0.40%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[4], maximum	0.25%	0.25%	0.50%
Weed seed, GROUP A[5], singly or combined	None	27/lb.	45/lb.
Germination, including hard seed	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV D, General Standards in the OSCS Handbook.
[3] An OSU Seed Lab Orobanche exam is required if Small Broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobanche exam, the other for standard purity and viability testing.
[4] None of the prohibited weeds listed in Section V of the OSCS Handbook, nor any Chess, St. Johnswort, or Small Broomrape allowed in any class of seed.
[5] Group A – Buckhorn Plantain, Docks, Sheep Sorrel, Bedstraw and Brassica spp.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
RED CLOVER
(Trifolium pratense)
Revised February 12, 2019

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Red Clover standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To produce Foundation seed, land must not have been seeded or grown Red Clover for at least six years (three of which have been cultivated). To produce Registered or Certified seed, land must not have been seeded to or grown Red Clover for at least three years (Certified time interval may be shortened by one year if one cultivated crop or clean fallow intervened). Red Clover must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting; fields planted between April 1 and July 1 must be filed within 15 days of planting. Seed crop application must be submitted by June 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation[3]	None	1320 ft.	1320 ft.
Registered[8]	0.2%	660 ft.	330 ft.
Certified[8]	0.5%	330 ft.	165 ft.
Between classes of same variety		10 ft.	
Tetraploid and diploid varieties need only be isolated 15 ft. from each other			

Special Requirements: A field of Red Clover may produce only two seed crops of any given generation.

Seed Standards: (Minimum Sample Size – 1,000 grams)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	99.00%	99.00%	99.00%
Other crops, maximum	0.10%	0.25%	0.25%
Sweet clover, maximum	9/lb.	45/lb.	90/lb.
Inert matter, maximum	1.00%	1.00%	1.00%
Weed seed[4,5] maximum	0.15%	0.15%	0.25%
Weed seed, GROUP A[6], singly or combined	45/lb.	45/lb.	45/lb.
Germination, including hard seed	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV D, General Standards in the OSCS Handbook.
[3] An OSU Seed Lab Orobanche exam is required if Small Broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobanche exam, the other for standard purity and viability testing.
[4] The presence of Dodder is not allowed in any class of seed. See section IX, D4 in the OSCS Handbook.
[5] None of the prohibited weeds listed in section V in the OSCS Handbook, nor any St. Johnswort or Small broomrape allowed in any class of seed.
[6] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, Wild Carrot, Giant Bristlegrass (Foxtail), and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
WHITE CLOVER
(Trifolium repens)
Revised February 12, 2019

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified White Clover standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To produce Foundation seed, land must never have been seeded to or grown any White Clover; must have been five years free to produce Registered seed (three of those years cultivated); must have been three years free to produce Certified seed. (With Certified class, the time interval may be shortened by one year if one cultivated row crop or clean fallow intervened). White Clover must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation[3]	None	1320 ft.	1320 ft.
Registered[3]	0.2%	660 ft.	330 ft.
Certified[3]	1.0%	330 ft.	165 ft.
Between classes of same variety		10 ft.	

Special Requirements: A Foundation and/or Registered field may produce only two successive seed crops following seeding, except that each may be reclassified to the next lower class after being harvested for two years. A Certified field on which a stand of perennial plants is maintained may produce a maximum of four successive seed crops following seeding. Volunteer plants will be cause for rejection at the end of the second seed crop.

Seed Standards: (Minimum Sample Size – 1/4 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	450 seeds of one crop or 0.25% combined	
Sweet Clover, maximum	None	90/lb.	180/lb.
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[4], maximum	0.10%	0.30%	0.30%
Weed seed, GROUP A[5], singly	None	23/lb.	23/lb.
Weed seed, GROUP A[5], combined	None	69/lb.	69/lb.
Germination, including hard seed	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook.
[3] An OSU Seed Lab Orobanche exam is required if Small Broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobanche exam, the other for standard purity and viability testing.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any St. Johnswort, Wild Carrot, or Small Broomrape allowed in any class of seed.
[5] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
COLONIAL BENTGRASS
(*Agrostis capillaris***)**
Revised February 10, 2009

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service Handbook (OSCS) are basic to all crops, and together with the following specific regulations constitute the certified Colonial Bentgrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown or been seeded to any other Agrostis species for the previous five years. Fields of Highland Colonial Bentgrass planted with Foundation seed must have been deep-cultivated for a minimum of two years to qualify for Registered seed production. To qualify for Certified seed production, fields of Highland Colonial Bentgrass must have been cultivated, allowing an opportunity for seedlings to grow. Colonial Bentgrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.1%	660 ft.	300 ft.
Certified	2.0%	300 ft.[3]	165 ft.

Seed Standards: (Minimum Sample Size – 1/4 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	0.10%	0.50%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[4], maximum	0.10%	0.10%	0.25%
Mouse-ear Chickweed and Annual Bluegrass	0.05%	0.05%	0.05%
Weed seed, GROUP A[5], singly or combined	None	None	180/lb.
Germination, minimum	85%	85%	85%

Appearance: Bentgrass seed lots composed of 75% or more hulled (groated) seed will not be certified unless blended with unhulled certified eligible lots of seed in reasonable amount to present good appearance of less than 75%.

[1]Includes off-type plants.
[2]This distance must be maintained between all other varieties, such as Colonial, Creeping and Velvet Bentgrass. For additional details, see Section IV, D in the OSCS Handbook.
[3] Certified class fields less than 5 acres must be 165 ft. from all Velvet Bentgrass.
[4]None of the prohibited weeds listed in Section V, nor Corn Bedstraw is allowed in any class of seed.
[5]GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and St. Johnswort.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
CREEPING BENTGRASS
(*Agrostis stolonifera* var. *palustris***)**
Revised February 10, 2009

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Creeping Bentgrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook. These standards do not include Penncross Creeping Bentgrass.

Field History: Land must not have grown or been seeded to any Agrostis species for five years, unless previous crop was of the same variety, class and certified. Creeping bentgrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.1%	660 ft.	300 ft.
Certified	2.0%	300 ft.[3]	165 ft.

Seed Standards: (Minimum Sample Size – 1/4 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)	Penn A-1, Penn A-4, Crystal BlueLinks, Penneagle II, PennLinks II, Pure Distinction, Pure Select, Seaside II Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%	98.00%
Other crops, maximum	None	0.10%	0.50%[4]	0.04%[5]
Inert matter, maximum	2.00%	2.00%	2.00%	2.00%
Weed seed[6], maximum	None	0.10%	0.25%	0.03%
Mouse-ear Chickweed and Annual Bluegrass	None	None	0.05%	None
Weed seed, GROUP A[7], singly or combined	None	None	180/lb.	None
Weed seed, GROUP B[8], singly or combined	---	---	---	None
Germination, minimum	85%	85%	85%	85%

Appearance: Bentgrass seed lots composed of 75% or more hulled (groated) seed will not be certified unless blended with unhulled certified eligible lots of seed in reasonable amount to present good appearance of less than 75%.

[1] Includes off-type plants.
[2] This distance must be maintained between all other varieties, such as Colonial, Creeping and Velvet Bentgrass. For additional details, section IV, D in the OSCS Handbook.
[3] Certified class fields less than 5 acres must be 165 ft. from all Velvet Bentgrass.
[4] Other bentgrass species limited to 1.00% in Seaside Creeping Bentgrass.
[5] No Rough Bluegrass allowed.
[6] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor Corn Bedstraw is allowed in any class of seed. No Annual Bluegrass allowed in Penn A-1, Penn A-4, Crystal BlueLinks, Penneagle II, Pennlinks II, Pure Distinction, Pure Select, Seaside II.
[7] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and St. Johnswort.
[8] GROUP B – Shepherd's Purse, Mouse-ear Chickweed, Yarrow, and Speedwell.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
KENTUCKY BLUEGRASS
(Poa pratensis)
Revised February 14, 2012

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Kentucky Bluegrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To produce Foundation and Registered seed, land must have been free of Kentucky Bluegrass for five years. Land must not have grown or been seeded to another variety of Kentucky Bluegrass for production of Certified seed during the previous three years, unless the previous crop was of the same variety and passed certification field requirements. When the field is being planted back to the same Kentucky bluegrass variety, and the variety was certified, the time interval may be eliminated. Kentucky Bluegrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Rough Bluegrass in Kentucky Bluegrass	Minimum isolation[2,3] (varieties ≥ 80% apomictic
Foundation	None	None	60 ft.
Registered	0.1%	None	30 ft.
Certified	2.0%	---	15 ft.

Seed Standards: (Minimum Sample Size – ¼ Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Other varieties Certified (Blue tag)	Mazama, Prosperity Certified (Blue tag)	America Certified (Blue tag)
Pure Seed, minimum	95.00%	95.00%	95.00%	95.00%	92.00%
Other crops[4] maximum	0.10%	0.10%	0.25%	0.25%	0.25%
Inert, maximum	5.00%	5.00%	5.00%	5.00%	8.00%
Weed seed[5], maximum	0.10%	0.30%	0.30%	0.30%	0.30%
Weed seed, GROUP A[6], singly or combined	None	None	45/lb.	45/lb.	45/lb.
Germination, minimum	80%	80%	80%	75%	75%
Germination, Waterworks	75%	75%	75%	--	--

[1] Includes off-type plants as may be designated by the varietal description.
[2] See Section IV, D in the OSCS Handbook. For varieties <80% apomictic, isolation distances of 900, 300, and 165 feet are required for Foundation, Registered, and Certified classes, respectively. For Certified class only, varieties that are ≥95% apomictic shall have an isolation requirement reduced to only a mechanical separation. Mechanical separation is required between Rough Bluegrass and Kentucky Bluegrass, and between Wood Bluegrass and Kentucky Bluegrass.
[3] The following isolation rules may be applicable to Kentucky Bluegrass fields to reduce isolation requirements: (a) The 10% Rule for Certified class fields ≥5 acres, when the isolation zone is less than 10% of the field [use 15 ft. to calculate the area of the isolation zone]; (b) Border Removal for fields ≥5 acres [for varieties <80% apomictic, see Section IV, D; for varieties ≥80% apomictic, 9 feet of border removal within the field can reduce isolation to 30 ft. for Foundation and 15 ft. for Registered; no further reduction is allowed for Certified class]; and (c) The 25% Rule for isolation between generations of the same variety.
[4] No Rough Bluegrass allowed in Foundation or Registered class of Kentucky Bluegrass (10 gram test).
[5] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any St. Johnswort allowed in any class of seed. No Annual Bluegrass allowed in Foundation or Registered class of Kentucky Bluegrass.
[6] GROUP A - Buckhorn Plantain, Docks, Sheep Sorrel and Bedstraw.

CERTIFICATION STANDARDS
ROUGH BLUEGRASS
(*Poa trivialis*)
Revised February 12, 2008

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Rough Bluegrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To produce Foundation and Registered seed, land must have been free of Rough Bluegrass for five years. Land must not have grown or been seeded to another variety of Rough Bluegrass for production of Certified seed during the previous two years, unless the previous crop was of the same variety and passed certification field requirements. When the field is being planted back to the same Rough Bluegrass variety, and the variety was certified, the time interval may be eliminated. Rough Bluegrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.1%	660 ft.	300 ft.
Certified	2.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/4 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	95.00%	95.00%	95.00%
Other crops maximum	0.10%	0.10%	0.25%[3]
Inert matter, maximum	5.00%	5.00%	5.00%
Weed seed[4], maximum	0.10%	0.30%	0.30%
Weed seed, GROUP A[5], singly or combined	None	None	45/lb.
Germination, minimum	75%	75%	75%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook. Mechanical isolation is required between Rough Bluegrass and Kentucky Bluegrass.
[3] Kentucky Bluegrass limited to 3.00% in Colt, Laser, Laser II and Sabre Rough Bluegrass and 2.00% in all other Rough Bluegrass varieties.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any St. Johnswort allowed in any class of seed. No Annual Bluegrass allowed in Foundation or Registered class of Rough Bluegrass.
[5] GROUP A - Buckhorn Plantain, Docks, Sheep Sorrel and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
CHEWINGS and SLENDER CREEPING RED FESCUE
(*Festuca rubra* subsp. *fallax,* and *rubra*)
Approved February 12, 2019

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Chewings and Slender Creeping Red Fescue (42 chromosomes) standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To be eligible to produce Foundation seed, land must not have grown or been seeded to any fine fescue species (Chewings, Red, Hard, Sheep, Blue, Idaho, Annual) during the previous five years. Land must not have grown or been seeded to these grasses during the previous 18 months to produce Registered or Certified seed unless the previous crop was of the same variety and class, and certified. Fine fescue must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	97.00%
Other crops, maximum	0.10%	0.10%	0.25%
Ammonia Test[3], maximum	Zero Green	One Green	N/A
Inert matter, maximum	2.00%	2.00%	3.00%
Weed seed[4], maximum	0.10%	0.30%	0.30%
Weed seed, GROUP A[5], singly or combined	None	15/lb.	15/lb.
Germination	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook. Isolation is required between varieties of Chewings, Slender Creeping Red Rescue, and Annual Fescue. Isolation is not required between Red Fescue varieties having 56 chromosomes (Strong Creeping) and those having 42 chromosomes (including Chewings) where satisfactory documentary evidence of each variety's ploidy is accepted. Experimental, and OECD varieties for which an authentic sample has not been provided, will continue to require isolation distances for cross-pollinating varieties. 42 chromosome Red Fescue varieties (Slender Creeping) include, but may not be limited to: Barcrown II, Lighthouse, Seabreeze, Seabreeze GT, SeaLink, and Shoreline. Isolation is not required between varieties in the Chewings - Slender Creeping Red Fescue group and varieties in the Hard – Sheep – Blue - Idaho Fescue group.
[3] The ammonia test is used to determine the presence of Hard, Sheep, Blue and Idaho Fescue. See Section IX, D3 in the OSCS Handbook.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort allowed in any class of seed.
[5] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

CERTIFICATION STANDARDS
STRONG CREEPING RED FESCUE
(Festuca rubra subsp. *rubra)*
Revised February 12, 2019

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Strong Creeping Red Fescue (56 chromosomes) standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To be eligible to produce Foundation seed, land must not have grown or been seeded to any fine fescue species (Chewings, Red, Hard, Sheep, Blue, Idaho, Annual) during the previous five years. Land must not have grown or been seeded to these grasses during the previous 18 months to produce Registered or Certified seed unless the previous crop was of the same variety and class, and certified. Fine fescue must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	97.00%
Other crops, maximum	0.10%	0.10%	0.25%
Ammonia Test[3], maximum	Zero Green	One Green	N/A
Inert matter, maximum	2.00%	2.00%	3.00%
Weed seed[4], maximum	0.10%	0.30%	0.30%
Weed seed, GROUP A[5], singly or combined	None	15/lb.	15/lb.
Germination	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook. Isolation is required between varieties of Strong Creeping Red Fescue. No isolation is required between Red Fescue varieties having 56 chromosomes and those having 42 chromosomes (including Chewings) where satisfactory documentary evidence of each variety's ploidy is accepted. Experimental, and OECD varieties for which an authentic sample has not been provided, will continue to require isolation distances for cross-pollinating varieties. Isolation is not required between Strong Creeping Red Fescue varieties and varieties of Hard, Sheep, Blue, Idaho or Annual Fescue.
[3] The ammonia test is used to determine the presence of Hard, Sheep, Blue and Idaho Fescue. See Section IX, D3 in the OSCS Handbook.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort allowed in any class of seed.
[5] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

Oregon Seed Certification Service
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CERTIFICATION STANDARDS
HARD, SHEEP, BLUE & IDAHO FESCUE
(Festuca trachyphylla, Festuca ovina, Festuca ovina subsp. *glauca, Festuca idahoensis)*
Revised February 12, 2013

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Hard, Sheep, Blue and Idaho Fescue standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To be eligible to produce Foundation seed, land must not have grown or been seeded to any fine fescue species (Chewings, Red, Hard, Sheep, Blue, Idaho, Annual) species during the previous five years. Land must not have grown or been seeded to these grasses during the previous 18 months to produce Registered or Certified seed unless the previous crop was of the same variety and class, and certified. Fine fescue must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	97.00%
Other crops, maximum	0.10%	0.10%	0.25%
Ammonia Test[3], maximum	Zero Yellow	One Yellow	2% Yellow
Inert matter, maximum	2.00%	2.00%	3.00%
Weed seed[4], maximum	0.10%	0.30%	0.30%
Weed seed, GROUP A[5], singly or combined Only in Idaho fescue	None None	23/lb. 15/lb.	23/lb. 15/lb.
Germination	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook. Isolation is required between varieties of Hard, Sheep, Blue and Idaho Fescue, and between varieties of Hard or Sheep Fescue and varieties of Annual Fescue. Isolation is not required between varieties in the Hard –Sheep – Blue – Idaho Fescue group adjacent to varieties in the Red Fescue - Chewings Fescue group.
[3] The ammonia test is used to determine the presence of Strong, Slender and Chewings Fescue. See Section IX, D3 in the OSCS Handbook..
[4] None of the prohibited weeds listed in section V in the OSCS Handbook, nor St. Johnswort allowed in any class of seed.
[5] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
TALL FESCUE
(Festuca arundinacea)*
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Tall Fescue standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required		
	Foundation	Registered	Certified
Annual Ryegrass	0	0	0
Perennial Ryegrass	0	0	0
Intermediate Ryegrass	0	0	0
Festulolium 2x/4x	0	0	0
Festulolium 6x	5 yrs.	18 mos.	18 mos.
Tall Fescue	5 yrs.	18 mos.	18 mos.
Meadow Fescue	5 yrs.	18 mos.	18 mos.

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. Tall Fescue must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	0.10%	0.50%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[3], maximum	0.30%	0.30%	0.30%
Weed seed, GROUP A[4], singly or combined	None	27/lb.	27/lb.
Germination, minimum	85%	85%	85%
Germination, minimum Alta, Fawn, Kentucky 31	90%	90%	90%

*Taxonomists place Tall fescue in one of three genera: as *Festuca arundinacea* (see USDA Germplasm Resource Information Network – GRIN); as *Schedonorus arundinaceus* (see Flora of North America, Vol. 24, pgs. 446-448; USDA, NRCS Plants Database; and Integrated Taxonomic Information System –ITIS); and as *Lolium arundinaceum* (see USDA, NRCS Plant Guide and Plant Fact Sheet for Tall fescue).

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook. This distance must be maintained from Tall Fescue and Festulolium 6x, and for Foundation and Registered classes from Meadow Fescue.
[3] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort is allowed in any class of seed.
[4] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

Oregon Seed Certification Service
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CERTIFICATION STANDARDS
FESTULOLIUM 2x/4x
(diploid & tetraploid hybrids of Lolium spp. and Festuca arundinacea or F. pratensis)*
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service Handbook (OSCS) are basic to all crops, and together with the following specific regulations constitute the certified Festulolium 2x/4x standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required, in years		
	Foundation	Registered	Certified
Annual Ryegrass	5	5	5
Perennial Ryegrass	5	5	2
Intermediate Ryegrass	5	5	5
Festulolium 2x/4x	5	5	5
Festulolium 6x	0	0	0
Tall Fescue	0	0	0
Meadow Fescue	5	5	2

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. Festulolium 2x/4x must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspection: A seedling and seed crop inspection(s) are required. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 pound)

Factor	Foundation (White Tag)	Registered (Purple Tag)	Certified (Blue Tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	0.10%	0.50%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[3], maximum	0.15%	0.15%	0.50%
Weed seed, Group A[4], singly or combined	None	45/lb.	45/lb.
Germination	75%	75%	75%

*Taxonomists place Tall and Meadow Fescue in one of three genera: as *Festuca arundinacea* and *F. pratensis* (see USDA Germplasm Resource Information Network – GRIN); as *Schedonorus arundinaceus* and *S. pratensis* (see Flora of North America, Vol. 24, pgs. 446-448; Integrated Taxonomic Information System – ITIS; and USDA, NRCS Plants Database); and as *Lolium arundinaceum* (see USDA, NRCS Plant Guide and Plant Fact Sheet for Tall Fescue and as *Lolium pratense* (see Integrated Taxonomic Information System – ITIS).

[1] Includes off-types plants.
[2]This distance must be maintained from Festulolium, Meadow Fescue and all ryegrass of the same ploidy; no less than 15 feet isolation is required between diploids and tetraploids. A mechanical separation must be maintained from Tall Fescue. See Section IV D, General Standards in the OSCS Handbook.
[3]None of the prohibited weeds listed in Section V, General Standards in the OSCS Handbook, nor any St. Johnswort allowed in any class of seed.
[4]GROUP A -- Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
FESTULOLIUM 6x
(hexaploid hybrids of Lolium spp. and Festuca arundinacea)*
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service Handbook (OSCS) are basic to all crops, and together with the following specific regulations constitute the certified Festulolium 6x standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required		
	Foundation	Registered	Certified
Annual Ryegrass	0	0	0
Perennial Ryegrass	0	0	0
Intermediate Ryegrass	0	0	0
Festulolium 2x/4x	0	0	0
Festulolium 6x	5 yrs.	18 mos.	18 mos.
Tall Fescue	5 yrs.	18 mos.	18 mos.
Meadow Fescue	5 yrs.	18 mos.	18 mos.

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. Festulolium 6x must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspection: A seedling and seed crop inspection(s) are required. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 pound)

Factor	Foundation (White Tag)	Registered (Purple Tag)	Certified (Blue Tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.10%	0.10%	0.50%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[3], maximum	0.15%	0.15%	0.50%
Weed seed, Group A[4], singly or combined	None	45/lb.	45/lb.
Germination	75%	75%	75%

*Taxonomists place Tall Fescue in one of three genera: as *Festuca arundinacea* (see USDA Germplasm Resource Information Network – GRIN); as *Schedonorus arundinaceus* (see Flora of North America, Vol. 24, pgs. 446-448; USDA, NRCS Plants Database; and Integrated Taxonomic Information System – ITIS); and as *Lolium arundinaceum* (see USDA, NRCS Plant Guide and Plant Fact Sheet for Tall fescue).

[1] Includes off-type plants.
[2]This distance must be maintained from Festulolium 6x and Tall Fescue, and for Foundation and Registered classes from Meadow Fescue. A mechanical separation must be maintained from all ryegrass. See Section IV D, General Standards in the OSCS Handbook.
[3]None of the prohibited weeds listed in Section V, General Standards in the OSCS Handbook, nor any St. Johnswort allowed in any class of seed.
[4]GROUP A -- Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
ORCHARDGRASS
(*Dactylis glomerata*)
Revised February 12, 2013

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Orchardgrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: To be eligible to produce Foundation seed, land must not have grown or been seeded to any Orchardgrass during the previous five years. Land must not have grown or been seeded to Orchardgrass during the previous 18 months to produce Registered or Certified seed unless the previous crop was of the same variety, class and certified. Orchardgrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	92.00%	92.00%	92.00%
Other crops, maximum	0.10%	0.10%	0.50%
Inert matter, maximum	8.00%	8.00%	8.00%
Weed seed[3], maximum	0.30%	0.30%	0.30%
Weed seed, GROUP A[4], singly or combined	None	15/lb.	45/lb.
Germination, minimum	85%	85%	85%

[1] Includes off-type plants.
[2] See Section IV, D in the OSCS Handbook.
[3] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort is allowed in any class of seed.
[4] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
ANNUAL RYEGRASS
(Lolium multiflorum)
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Annual Ryegrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook. A ploidy test must be conducted on all OECD Annual Ryegrass pre-control samples as a condition of acceptance into the OSCS program, and must meet a minimum 95% ploidy level for both tetraploid and diploid varieties.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required, in years		
	Foundation	Registered	Certified
Annual Ryegrass	5	5	5
Perennial Ryegrass	5	5	2
Intermediate Ryegrass	5	5	5
Festulolium 2x/4x	5	5	5
Festulolium 6x	0	0	0
Tall Fescue	0	0	0
Meadow Fescue	0	0	0

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. See OSCS General Standards IV, C. Land Requirements #2 for Modified Land History provisions, PLEASE NOTE: If the two year out no-till MLH option is used, an Annual Ryegrass crop planted the following two years must also be no-till to qualify for certification. Annual Ryegrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Total ryegrass, minimum	99.00%	99.00%	99.00%
Crops other than ryegrass, maximum	0.10%	0.25%	0.50%
Perennial Ryegrass, maximum[3]	0.10%	1.00%	2.00%
Total other crop including perennial ryegrass, maximum	0.20%	1.25%	2.50%
Inert matter, maximum	1.00%	1.00%	1.00%
Weed seed[4] maximum	0.15%	0.15%	0.30%
Weed seed, GROUP A[5], singly or combined	None	45/lb.	45/lb.
Germination, minimum	90%	90%	90%
Ploidy test, minimum[6]	100%	99%	95%

[1] Includes off-type plants.
[2] This distance must be maintained from all Ryegrass, Meadow fescue and Festulolium of the same ploidy. Isolation between diploids and tetraploids shall be no less than 15 feet. See Section IV, D in the OSCS Handbook.
[3] See Section IX, D8 in the OSCS Handbook.
[4] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort is allowed in any class of seed.
[5] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.
[6] Ploidy Test: A test required to establish the incidence of diploid ryegrass in all tetraploid ryegrass varieties and assists in determining certification eligibility. A ploidy test should be requested at the time of sampling. Only varieties described as tetraploid must be tested, those described as diploid or those of 'unknown' ploidy need not be tested.

Oregon Seed Certification Service
http://seedcert.oregonstate.edu

CERTIFICATION STANDARDS
INTERMEDIATE RYEGRASS
(Lolium hybridum)
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Intermediate Ryegrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required, in years		
	Foundation	Registered	Certified
Annual ryegrass	5	5	2
Perennial ryegrass	5	5	2
Intermediate ryegrass	5	5	2
Festulolium 2x/4x	5	5	2
Festulolium 6x	0	0	0
Tall fescue	0	0	0
Meadow fescue	0	0	0

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. Intermediate Ryegrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2,3]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound) Intermediate Ryegrass seed lots must have a full purity, including a germination and fluorescence before the lot can be considered for certification.

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	97.00%	97.00%	97.00%
Other crops, maximum	0.10%	0.25%	0.50%
Inert matter, maximum	3.00%	3.00%	3.00%
Weed seed[4], maximum	0.15%	0.30%	0.50%
Weed seed, GROUP A[5] singly or combined	None	45/lb.	45/lb.
Germination, minimum	90%	90%	90%
Germination, minimum Transcend, Transeze, Transist 2400, Transist 2600	85%	85%	85%
Ploidy test[6], minimum	100%	99%	95%

[1] Includes off-type plants.
[2] This distance must be maintained from all Ryegrass, Meadow Fescue and Festulolium of the same ploidy. Isolation between diploids and tetraploids shall be no less than 15 feet. See Section IV, D in the OSCS Handbook.
[3] Foundation and Registered fields of Intermediate Ryegrass must be isolated 300 ft from Tall fescue and Festulolium 6x. Border removal is allowed for fields over five acres. See Section IV, General Standards in the OSCS Handbook.
[4] None of the prohibited weeds listed in Section V, General Standards in the OSCS Handbook nor St. Johnswort allowed in any class of seed.
[5] Group A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.
[6] Ploidy Test: A test required to establish the incidence of diploid ryegrass in all tetraploid ryegrass varieties and assists in determining certification eligibility. A ploidy test should be requested at the time of sampling. Only varieties described as tetraploid must be tested, those described as diploid or those of 'unknown' ploidy need not be tested.

CERTIFICATION STANDARDS
PERENNIAL RYEGRASS
(Lolium perenne)
Revised February 10, 2015

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Perennial Ryegrass standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: Land must not have grown nor been seeded to these listed species and for the periods of time, as follows:

Previous crop	Time out required, in years		
	Foundation	Registered	Certified
Annual Ryegrass	0	0	0
Perennial Ryegrass	5	5	2
Intermediate Ryegrass	5	5	2
Festulolium 2x/4x	5	5	2
Festulolium 6x	0	0	0
Tall Fescue	0	0	0
Meadow Fescue	0	0	0

For Registered and Certified classes, these requirements are waived if the previous crop was of the same variety, same or higher class and certified. Perennial Ryegrass must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Field Inspections: Include a seedling and a seed crop inspection. The seedling application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of seed produced	Maximum permitted Other Varieties[1]	Isolation Requirements[2, 3]	
		Less than 5 acres	More than 5 acres
Foundation	None	900 ft.	900 ft.
Registered	0.5%	660 ft.	300 ft.
Certified	1.0%	330 ft.	165 ft.

Seed Standards: (Minimum Sample Size – 1/2 Pound) Varieties**: Friend, Linn, Taptoe**

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Total ryegrass, minimum	99.00%	99.00%	99.00%
Crops other than ryegrass, maximum	0.10%	0.25%	0.50%
Annual Ryegrass[4], maximum	0.32%	1.00%	3.00%
Total other crops incl. Annual ryegrass, maximum	0.42%	1.25%	3.50%
Inert matter, maximum	1.00%	1.00%	1.00%
Weed seed[5], maximum	0.15%	0.30%	0.50%
Weed seed, GROUP A[6] singly or combined	None	45/lb.	45/lb.
Germination, minimum	90%	90%	90%
Germination, minimum Linn	85%	85%	85%
Ploidy test, minimum[7]	100%	99%	95%

[1] Includes off-type plants.
[2] This distance must be maintained from all Ryegrass, Meadow fescue and Festulolium of the same ploidy. Isolation between diploids and tetraploids shall be no less than 15 feet. See Section IV, D in the OSCS Handbook.
[3] Foundation and Registered fields of Perennial Ryegrass must be isolated 300 ft. from Tall Fescue and Festulolium 6x. Border removal is allowed for fields over five acres. See Section IV, D in the OSCS Handbook.
[4] See Section IX, D8 in the OSCS Handbook.
[5] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort allowed in any class of seed.
[6] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel, and Bedstraw.
[7] Ploidy Test: A test required to establish the incidence of diploid ryegrass in all tetraploid ryegrass varieties and assists in determining certification eligibility. A ploidy test should be requested at the time of sampling. Only varieties described as tetraploid must be tested, those described as diploid or those of 'unknown' ploidy need not be tested.

Seed Standards: All other varieties not listed as requiring 99% total ryegrass minimum

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Total ryegrass, minimum	97.00%	97.00%	97.00%
Crops other than ryegrass, maximum	0.10%	0.25%	0.50%
Annual Ryegrass[1], maximum	0.32%	1.00%	3.00%
Total other crops incl. Annual Ryegrass, maximum	0.42%	1.25%	3.50%
Inert matter, maximum	3.00%	3.00%	3.00%
Weed seed[2], maximum	0.15%	0.30%	0.50%
Weed seed, GROUP A[3] singly or combined	None	45/lb.	45/lb.
Germination, minimum	90%	90%	90%
Germination, minimum – 1GSquared, AllStar 3, Americus, Applaud II, Apple GL, Apple SGL, Aspire, Aubisque, Banfield, Black Cat II, Blazer 4, Brightstar SLT, Cabo II, Calypso III, Casper, Chaparral, Charger II, Citation III, Citation Fore, Confetti, Confetti 2, Confetti III, Cutter II, Dasher 3, Derby Xtreme, Diligent, Edge II, Estelle, Excellence, Express II, Fastball RGL, Fiesta 3, Fiesta 4, Frontier, Gator 3, Grand Slam, Grand Slam 2, Grandslam GLD, Gray Fox, Gray Goose, Gray Star, GT24, Harrier, Hawkeye, Hawkeye 2, Headstart 2, Home Run, Integra II, iQ, Karma, Keystone 2, La Quinta, Mighty, Monsieur, Monterey 4, Nightsky, Notable 2, Pacific Gem, Palace, Passport, Pavilion, Penguin 2, Pennington APR2154, Pennington APR2237, Primary, Provocative, PST-2M20, Quicksilver, Racer 2, Replicator, Revenge GLX, Rinovo, Salinas, Seductive, Seville 3, Sideways, Silver Sport, Singular, Slugger, Soprano, SR 4100, SR 4200, SR 4220, SR 4420, SR 4550, SR 4600, SR 4650, SR 4660ST, Stamina, Stardust, Stellar 3GL, Stellar GL, Sunrise, Sunstreaker, T3, Tetradark, Top Gun II, Top Hat 2, Vintage, Wicked, Wind Dance 2, Zoom	85%	85%	85%
Ploidy test, minimum[4]	100%	99%	95%

[1] See Section IX, D8 in the OSCS Handbook.
[2] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor St. Johnswort allowed in any class of seed.
[3] GROUP A – Buckhorn Plantain, Docks, Sheep Sorrel and Bedstraw.
[4] Ploidy Test: A test required to establish the incidence of diploid ryegrass in all tetraploid ryegrass varieties and assists in determining certification eligibility. A ploidy test should be requested at the time of sampling. Only varieties described as tetraploid must be tested, those described as diploid or those of 'unknown' ploidy need not be tested.

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops and, together with the following specific regulations, constitute the certified Essential Oil Industrial Hemp standards.

Varieties Certified: Only varieties approved for production by Federal or local regulatory authorities may be eligible for seed certification.

Field History: To produce Foundation or Registered seed, land must not have been grown or seeded to any *Cannabis sp.* during the previous three years. To produce Certified seed, land must not have grown or been seeded to any *Cannabis sp*. in the previous 2 years. This may be reduced to one year if the same variety and certified. Hemp must be planted in distinct rows. OSCS must approve exceptions prior to planting. To produce Certified Seed in greenhouse production, the greenhouse must be free of all plants a minimum of six weeks prior, unless the previous variety was the same variety and Certified. Sanitation may be considered in lieu of the six weeks, and a plan must be submitted to and approved by OSCS prior to production.

Greenhouse and Field Inspections: Three inspections may be required depending on the variety type and production generation; at least two inspections are required prior to seed harvest. Crop inspection of pollen donor and pollen receptors must be inspected at a stage of growth when varietal purity is best determined. Crops not inspected at the proper stage for best determining variety purity may be cause for declining certified status. The first inspection for pollen donor and pollen receptor types occurs just before or at early flowering, the second must occur at mid-bloom with active pollen shed, normally within 3 weeks after first inspection; the third inspection, if necessary, occurs when off- type female flowers can be identified. Applications shall be made within 7 days of placement of seedlings in the greenhouse or field. For fields directly seeded, applications shall be made within 14 days of planting.

Field Standards:

Class of Seed Produced	Variety Type	Maximum Number of Dioecious Male Plants Shedding Pollen[1]	Off Types	Number of Inspections	Isolation Distance Required		
					From different varieties of hemp or contaminating pollen source that has pollen present, or non-certified Hemp	Fields planted with Certified seed of the same variety	From same variety and meets certification standards
Foundation[2]	Conventional	1	0	3	21,120 ft	15,840 ft	16 ft
	Clonal	--	0	3			
Registered[101]	Conventional	2	10	3	21,120 ft	15,840 ft	3 ft
	Clonal	--	10	2			
Certified[101]	Conventional	100	10	2	21,120 ft	15,840 ft	3 ft
	Clonal	--	10	2			
	Hybrid	100	10	2			
	Feminized	0	20	2	21,120 ft	15,840 ft	3 ft

[1] If Dioecious male plants start flowering before removal from field, all plants around them should be destroyed for a radius of 10 feet for Foundation and 7 feet for Registered seed crops.
[2] An OSU Seed Lab Orobanche exam is required if Small Broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobanche exam, the other for standard purity and viability testing.

Greenhouse Standards: Each greenhouse facility is limited to one pollen source

Class of Seed Produced	Variety Type	Maximum Number of Dioecious Male Plants Shedding Pollen[100]	Off Types	Number of Inspections	Isolation Distance Required*		
					From different varieties of hemp or contaminating pollen source that has pollen present, or non-certified Hemp	Fields planted with Certified seed of the same variety	From same variety and meets certification standards
Foundation[10][1]	Conventional	1	0	3	21,120 ft	15,840 ft	16 ft
	Clonal	--	0	3			
Registered[10][1]	Conventional	2	1	3	21,120 ft	15,840 ft	3 ft
	Clonal	--	1	2			
Certified[101]	Conventional	100	2	2	21,120 ft	15,840 ft	3 ft
	Clonal	--	2	2			
	Hybrid	100	2	2			
	Feminized	0	2	2	21,120 ft	15,840 ft	3 ft

***Isolation distances may be waived is pollen exclusion methods are documented and submitted prior to inspection.**

Seed Standards: (Minimum Sample Size – 1 Pound)

Factor	Foundation	Registered	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.01%	0.03%	0.08%
Inert matter, maximum[1]	2.00%	2.00%	2.00%
Weed seed[2], maximum	0.10%	0.10%	0.10%
Other varieties (maximum)	0.005%	0.01%	0.05%
Other kinds[3] (Maximum)	0.01%	0.03%	0.07%
Germination	85.00%	85.00%	85.00%
Feminized Seed[4]	- -	- -	99.9%

Special notes:

A. Greenhouse production – For certification purposes, a greenhouse will be identified as a single "field." This should match the warehouse information given to ODA.

B. Growers may be required by Federal or local regulations to obtain THC test results from a recognized laboratory verifying that the THC content of their Industrial Hemp crop complies with applicable regulations. Growers may be required to submit these results to OSCS to complete seed certification, and the results will be verified with ODA.

[1] Inert Matter shall not include more than 0.5% of material other than seed fragments of the variety under consideration

[2] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any Docks, Sheep Sorrel or St. Johnswort allowed in any class of seed.

[3] Other kinds shall not exceed 2 per lb. (454 grams) for Foundation; 6 for Registered; 10 for Certified

[4] Determined by Variety Verification Trial or approved molecular testing.

CERTIFICATION STANDARDS
FOOD, FIBER, AND GRAIN INDUSTRIAL HEMP
(*Cannabis sativa* L.)
Revised February 19, 2020

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops and, together with the following specific regulations, constitute the certified Industrial Hemp standards.

Varieties Certified: Only varieties approved for production by Federal or local regulatory authorities may be eligible for seed certification. Varieties may represent the following types[1]: Monoecious, with male and female flowers on the same plant; Dioecious, with male and female flowers on separate plants; and (unisexual female) Hybrids, with sterile male and fertile female flowers on the same plant.

Field History: To produce Foundation and Registered seed, land must not have grown or been seeded to any *Cannabis sp.*, Hops or Tobacco during the previous five years, for Certified seed three years, unless the previous crop was of the same variety and certified. Hemp must be planted in distinct rows. OSCS must approve exceptions prior to planting.

Field Inspections: Three inspections may be required depending on the variety type and production generation; at least two inspections are required prior to seed harvest. The first inspection occurs before female (pistillate) flowers of the crop are receptive and after the formation of male (staminate) flowers, preferably before pollen is shed; the second inspection occurs during the receptive stage of female plants, normally within 3 weeks after first inspection; the third inspection, if necessary, occurs when off-type female flowers can be identified. The field application must be submitted within 60 days of planting, and a seed crop application must be submitted by April 15 of each year in which seed is produced.

Field Standards:

Class of Seed Produced	Variety Type	Maximum Number of "Too Male" Monoecious Plants[2]	Maximum Number of Dioecious Male Plants Shedding Pollen[2,3]	Maximum Number of Other Impurities[2]	Number of Inspections	Isolation Distance Required	
						From Different Varieties or Types	From Lower Certified Class of Same Variety
Foundation[4]	Monoecious	500	1	3	3	3 miles	2 miles
	Dioecious	--	--	3	3		
Registered[4]	Monoecious	1000 (10%)	2	10	3	3 miles	1 mile
	Dioecious	--	--	10	2		
Certified[4]	Monoecious	--	100	10	2	1 mile	--
	Dioecious	--	--	10	2		
	Hybrid	--	100	10	2		

Seed Standards: (Minimum Sample Size – 1 Pound)

Factor	Foundation (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops, maximum	0.01%	0.03%	0.08%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[5], maximum	0.10%	0.10%	0.25%
Germination	85%	85%	85%

Special notes:

C. Greenhouse production – For certification purposes, a greenhouse will be identified as a single "field."

D. Growers may be required by Federal or local regulations to obtain THC test results from a recognized laboratory verifying that the THC content of their Industrial Hemp crop complies with applicable regulations. Growers may be required to submit these results to OSCS to complete seed certification.

[1] Although traditionally a crop with a Dioecious plant type, many Monoecious varieties of hemp have been developed. Hemp is sexually polymorphic and often produces many different ratios of intersexual plant types that can increase rogueing requirements. Variety descriptions normally define these ratios.

[2] Maximum impurities allowed per 10,000 plants; applied as an average of six counts involving at least 10,000 plants each. Includes off-types or other varieties.

[3] If Dioecious male plants start flowering before removal from field, all plants around them should be destroyed for a radius of 10 feet for Foundation and 7 feet for Registered seed crops.

[4] An OSU Seed Lab Orobanche exam is required if Small Broomrape is found in a certification field inspection. Two samples are to be submitted in separate containers: one for the Orobanche exam, the other for standard purity and viability testing.

[5] None of the prohibited weeds listed in Section V in the OSCS Handbook, nor any Docks, Sheep Sorrel or St. Johnswort allowed in any class of seed.

Certification Standards: The general standards for seed certification found in the Oregon Seed Certification Service (OSCS) Handbook are basic to all crops, and together with the following specific regulations constitute the certified Small Grain standards.

Varieties Certified: Varieties and classes eligible for planting may be found in the OSCS Handbook.

Field History: For **Foundation Seed** - Land must not have been seeded to, grown and/or harvested for a small grain variety of the same kind (for example, Wheat to Wheat) for two years; land must be 3 years out of Triticale prior to producing a Foundation class of Wheat. A seedling inspection is required for the Foundation fields. Exception: the previous crop was of the same variety and passed certification field standards for varietal purity at the Foundation class. For **Registered & Certified Seed** - Land must not have been seeded to, grown and/or harvested for a small grain of the same kind (for example, Wheat to Wheat) for at least 12 months. Where an indistinguishable variety of small grain of the same kind was grown between the previous 12 and 24 month period, a seedling inspection is necessary on all new cereal plantings (for example, Stephens to ORCF-101 Wheat). If the previous crop was of the same variety and passed certification field standards for varietal purity at the same or higher generation, then the above time intervals are not necessary. Where a distinguishable variety of small grain of the same kind was grown between the previous 12 and 24 month period, no seedling inspection is necessary on new plantings of cereals (for example, Yamhill to Stephens Wheat). Small grains must be planted in distinct rows. Exceptions must be approved by the Seed Certification Office prior to planting.

Application and Field Inspections: Application for seedling inspection must be submitted within 60 days of fall planting (or earlier, if row closure is expected to occur rapidly), or within 15 days of spring planting. Application for crop inspection must be submitted by April 15 for small grains planted on or before January 31; for plantings after January 31, the deadline is June 1, or within 15 days of planting, whichever occurs last. Crop inspection will be completed after plant and head maturity show specific variety distinguishing characteristics. Stock seed documentation shall be either: (1) all original certification tags, (2) one original certification tag for each lot and a copy of the sales invoice [showing the receiver, variety and crop, poundage, lot number(s), generation, and date of sale], or (3) Certificate of Final Certification. Volunteer fields are not eligible for seed certification.

Field Standards, Seedling Inspection (when required):

Factor	Maximum permitted in each class		
	Foundation	Registered	Certified
Other varieties total[1]	None	0.01%	0.03%

Field Standards, Crop Inspection:

Factor	Maximum permitted in each class		
	Foundation	Registered	Certified
Other varieties total[1]	None	0.02% (1/5,000)	0.05% (1/2,000)
Other small grains[2, 3] (incl. Wild oats)	None	0.01% (1/10,000)	0.02% (1/5,000)
Chemically controllable cereal smuts[4]	0.01% (1/10,000)	0.01% (1/10,000)	0.10% (1/1,000)
Non-controllable cereal smuts	None	None	None
Prohibited weeds *(Lack of evidence of control will be cause for rejection)*			

[1] Includes off-type plants. Phenotypic variants may be specified in a variety description by the variety originator/maintainer, and would not be counted as part of the tolerance for other varieties.
[2] No Cereal Rye allowed in or out of count during seed crop inspection, except in the Certified class of Triticale and then not to exceed 1:20,000; further, no re-inspection is allowed in the Foundation class of small grains.
[3] No Triticale allowed in "other small grains" in or out of the inspection count in any class of small grain; further, no re-inspection is allowed in the Foundation class of Wheat.
[4] For a list of chemically controllable cereal smuts, see Pacific Northwest Plant Disease Control Handbook.

Special Requirements:

A. An extremely weedy field, regardless of type of weeds present, will be rejected. In Foundation fields, no seed may be allowed to form of species listed either as 'Prohibited in all Oregon Certified Seeds' (see Sec. V, this Handbook) or listed as prohibited in the Small Grains Seed Standards. Other provisions in the Small Grain standards regarding Cereal Rye, Jointed Goatgrass and Skeletonweed take precedence.

B. Isolation (Wheat, Oat, or Barley – self pollinating cereal crops) – (1) Adjacent fields of different cereal crop kinds, or different classes of the same variety, must be isolated by a distance adequate to prevent mechanical mixing. (2) Adjacent fields of different varieties of the same kind must be isolated 90 feet for Foundation production, or 10 feet for Registered or Certified production.

C. Isolation (Cereal Rye) — All classes of rye must be isolated 660 feet from other varieties of rye. Fields of the same variety but of a different generation must be isolated by a distance of 25 percent of that listed between varieties.

D. Isolation (Triticale) — Foundation class must be isolated 90 feet from other varieties of Triticale, Registered and Certified, 10 feet. Fields of the same variety but different generations must be isolated by a mechanical break. Triticale must be isolated 10 feet from all other small grains.

E. Mechanical separation, genetic isolation zones, and other excluded areas of a seed field must be designated by physical markings placed in the field that are easily observed and readily recognized to be designating a boundary. See also: https://seedcert.oregonstate.edu/sites/seedcert.oregonstate.edu/files/pdfs/smallgrainsisolation.pdf

F. Evidence of seed-borne disease at the time of field inspection or presence of seed-borne disease in the seed lot may constitute basis for rejection, reclassification or recommendation for seed treatment. Evidence of ergot found during field inspection will be noted in the inspection report.

G. If chemically controllable seed borne diseases are noted upon field inspection or Laboratory examination, appropriate seed treatment, to be determined by Seed Certification Office is required.

H. Transfer of seed may be documented using one of several shipping certificates available at the OSCS website:

(1) **Field Transfer Certificate**, to move in-the-dirt seed from farm storage to an out-of-state warehouse.

(2) **Transfer of Presampled Seed Certificate**, to move seed (usually for planting), prior to availability of an OSU Seed Lab test number.

(3) **Transfer of Seed Pending Final Certification**, to move seed following availability of the test number and prior to completion of testing.

(4) **Certificate of Final Certification**, to move seed following completion of testing and setting eligibility for tagging. Previously prepared documents for Transfer of Presampled Seed and for Transfer of Seed Pending Final Certification can be finalized with a Certificate of Final Certification. Seed previously documented with a Certificate of Final Certification for transfer from one approved warehouse to another for further distribution, can be further documented with Certificates of Final Certification. Seed is not officially and finally certified until it has been tagged or documented by a Certificate of Final Certification.

I. No re-inspection is allowed if Jointed Goatgrass, and/or its hybrids, or Skeletonweed is found in the seedling, seed crop, or seed test inspection.

J. Reseeding with another variety or lower generation within a field applied for certification will necessitate that the boundaries of the certified portion be redrawn to completely exclude reseeded areas. Application for a seedling inspection is required to verify that the certified portion is free of contamination from the reseeding and properly isolated from the reseeded areas(s).

K. Bagged Foundation or Registered cereal seed must be in new bags; bagged Certified class seed must be in new or cleaned used bags.

L. Additional Certification Requirements (ACR) – The developer/owner/maintainer of a variety may request a requirement (e.g., a herbicide resistance trait test) additional to certification standards for purity and viability. A proposed ACR shall be submitted to the Association of Official Seed Certifying Agencies for review and approval; individual seed certifying agencies may accept or decline to administer an ACR. Contact the OSCS office for specifics regarding ACRs currently being administered. An ACR shall be completed prior to issuance of a certificate (tag) of final certification.

M. Seed from a field in another state, that is contracted by an Oregon Seed Certification Service client, and has passed field inspection for certification and moved to Oregon with a transfer/shipping certificate from the state of origin, may be commingled with an Oregon seed lot of the same variety with OSCS field blend approval; a fee will apply. Additional testing for noxious weed seeds (500 grams per million pounds, or part thereof) is required. The commingled lot must meet Oregon requirements for final certification. This provision is allowed only at warehouses that have an approved, operating automatic sampler.

Seed Standards: (Minimum Submitted Sample Size -- 2 Pounds. All Wheat seed lots will be tested for seeds per pound and reported on the OSU Report of Seed Analysis. Treated cereal seed will not be accepted by the OSU Seed Laboratory for purity testing.) *No Retests Permitted.*

Factor[1]	Foundation[2] (White tag)	Registered (Purple tag)	Certified (Blue tag)
Pure seed, minimum	98.00%	98.00%	98.00%
Other crops[3,118], excluding other cereals, maximum	None	0.03%	0.05%
Inert matter, maximum	2.00%	2.00%	2.00%
Weed seed[4], maximum	0.01%	0.01%	0.03%
Off-type[5] and/or other cereal[6], maximum (determined on 500 g.)	None	2/lb.	4/lb.
Wild Oats, maximum (determined on 500 g.)	None	None	None (1/lb. in Oats)
Smut balls, maximum (determined on 500 g.)	None	None	None
Ergot, maximum, (determined on 500 g.)	0.05% (0.10% in Triticale)	0.05% (0.10% in Triticale)	0.05%
Germination, minimum	85%	85%	85%

[1] Percentages of pure seed, other crop, inert and weeds will be based on 75 g. for Oat and Cereal Rye, and 100 g. for Barley, Triticale and Wheat; #/lb. of all seed contaminants will be based on 500 g. Seed lots moved to Oregon for final certification must be tested for the factors listed in these standards using at least these working weights. Seed containing a contaminant with "0" or "None" tolerance must be re-cleaned before being re-sampled (except as noted in Special Requirements, I).

[2] Foundation seed will be tested and labeled to indicate seeds per pound; a 2 lb. sample will be inspected for off-type, other cereals and noxious weeds.

[3] No Vetch is allowed in "Other crops" (determined on 500 g.)

[4] None of the prohibited weeds listed in Section V of the OSCS Handbook, nor any Bedstraw, Buckhorn Plantain, Docks, Dogfennel, Sheep Sorrel, or St. Johnswort, is allowed in any class of Certified seed. Immature and/or mature seeds of the weeds referenced or listed in this footnote, or of Cereal Rye (as a contaminant), Vetch and Wild Oats, except as provided in Oats, are prohibited in certified seed (determined on 500 g.)

[5] Seed variants may be specified in a variety description by the variety originator/maintainer, and would not be counted as part of the tolerance for off-type; if a seed count were required, then the fee will be charged to the client submitting the sample.

[6] No Cereal Rye is allowed in "other cereal", except in the Certified class of Triticale, and then not to exceed 1/lb. (determined on 500 g.)

Variety Fluorescence Levels Recognized by the
AOSCA Grass Variety Review Board
As of April 16, 2020

Variety and Kind	Experimental Designation	Foreign Synonym Name [1]	Year Approved	Variety Fluorescence Level
02.0384 Perennial ryegrass[2]	2.0384, Drifter		2004	0.91%
246 Perennial ryegrass			1991	0.27%
08-16 Lp Perennial ryegrass[2]	08-16 Lp		2012	0.94%
856 Perennial ryegrass	Prestige, PR 856		1991	0.87%
9.1580 Annual ryegrass	B-9.1580AR, 8.1301, 9.1580		2012	98.05%
1G2 Perennial ryegrass	1G2		2004	0.63%
1GSquared Perennial ryegrass	APR1664		2007	1.06%
2CB Perennial ryegrass	2CB, PST-2CB		1996	1.97%
4.625 (ProTyme) Perennial ryegrass[2]	4.625, ABT-99-4.625, 625		2004	0.77%
89-90 Perennial ryegrass	WVPB 89-90		1994	2.15%
90-14 Perennial ryegrass[2]	WVPB PR 90-14		1996	7.12%
96-KSOS-L-1-PR-WVPB-C-24 Perennial ryegrass[2]	96-KSOS-L-1-PR-WVPB-C-24, WVPB-PR-C-24, Wilco-C-24		2000	6.50%
A.S.A.P. Perennial ryegrass	JR-265, A.S.A.P.		2000	1.42%
A+ Perennial ryegrass[2]	A+, WVPB-PR-D-9, PRO Seeds D-9, PS-D-9		2000	6.23%
Academy Perennial ryegrass	WVPB-PR-93-1, PC-93-1, WVPB-PR-P.C.-93-1		1997	2.33%
Academy III Perennial ryegrass[2]	LF-156, MVS-156, Academy III		2010	1.33%
Accent Perennial ryegrass	Med-393, GII, Ma-GII	Jackento	1995	2.96%
Accent II Perennial ryegrass	JR-119	Caddieshack	2007	1.04%
Accolade Perennial ryegrass	HR-1		1992	4.83%
Accord Perennial ryegrass	Devon Eaver		1993	4.08%
Achiever Perennial ryegrass	Pick 1800		1994	0.93%
Admire Perennial ryegrass	JR-151, Admire		2000	2.37%
Advent Perennial ryegrass	PJC, JC		1991	0.14%
Affinity Perennial ryegrass	GEN-90		1996	0.77%
Affirmed Perennial ryegrass	A95-95-1 X A95-4551		2000	2.59%
Agresso Perennial ryegrass			1991	2.00%
Align Perennial ryegrass	LCR		2012	0.67%
Allaire II Perennial ryegrass	All-2, All 2, AL-2		1995	1.15%
Allaire 3 Perennial ryegrass			2015	1.30%
Allante Perennial ryegrass	SD-3	Confidence	2013	0.81%
AllSport Perennial ryegrass	A+96		1999	0.92%
Allsport 2 Perennial ryegrass	ALS2		2007	0.86%
Allsport 3 Perennial ryegrass	NA-C3X		2010	4.43%
Allsport 4 Perennial ryegrass	945x		2017	1.69%
Allsport 5 Perennial ryegrass	ALS5		2017	1.45%
All*Star Perennial ryegrass	Allstar		1992	0.47%
AllStar 3 Perennial ryegrass	IS-PR 274	Allstarter	2007	0.65%
Amazing Perennial ryegrass	B1, Amazing		2004	0.72%
Amazing A+ Perennial ryegrass	PPG-PR 138		2015	0.73%
Amazing GS Perennial ryegrass	IS-PR 276		2008	1.84%
Americus Perennial ryegrass	A4-01.0613		2003	0.04%
Annuity Annual ryegrass	FLRS		2017	98.24%
APM Perennial ryegrass	MS		1994	0.59%

1. Name not acceptable for sales in the USA.
2. Experimental designation and/or variety.
3. Exempt from varietal fluorescence testing calculations.

Variety Fluorescence Levels Recognized by the
AOSCA Grass Variety Review Board
As of April 16, 2020

Variety and Kind	Experimental Designation	Foreign Synonym Name [1]	Year Approved	Variety Fluorescence Level
Applaud Perennial ryegrass	11301		2003	0.39%
Applaud II Perennial ryegrass	APR1665		2007	0.11%
Apple GL Perennial ryegrass	AAZ-B104, UP-4		2007	0.76%
Apple 3GL Perennial ryegrass	PPG-PR 339		2020	0.19%
Apple SGL Perennial ryegrass	PPG-PR 140		2015	0.57%
APR1472 Perennial ryegrass	APR1472		2005	0.68%
Aquarius Perennial ryegrass	KWS A1-2		1996	0.97%
Aquarius 3 Perennial ryegrass[2]	Aquarius 3		2002	1.24%
Aquarius 4 Perennial ryegrass	Aquarius 4		2008	1.97%
Archer Perennial ryegrass	CAS-MP21		1998	1.51%
Arctic Green Perennial ryegrass	MHT		2008	0.22%
Arrival Perennial ryegrass	CIS-PR 84, Arrival		2005	0.48%
Ascend Perennial ryegrass	MB 45		1999	3.09%
ASP0112 Perennial ryegrass	A-35		2013	0.29%
ASP0113 Perennial ryegrass	D-10		2015	0.99%
ASP0116EXT Perennial ryegrass	A-18		2018	0.65%
ASP0117 Perennial ryegrass	A-PR15		2019	1.17%
ASP0118GL Perennial ryegrass	A-4G		2019	0.53%
ASP0218 Perennial ryegrass	A-6D		2019	0.44%
ASP1001 GL Perennial ryegrass	A-36G		2012	0.24%
ASP410 Perennial ryegrass	APR120		1998	0.18%
ASP3216HS Perennial ryegrass	HS-35		2018	0.81%
ASP3316HS Perennial ryegrass	HS-36		2018	0.65%
ASP6001 Perennial ryegrass	RTS		2007	0.57%
ASP6002 Perennial ryegrass	BPR		2007	1.13%
ASP6003 Perennial ryegrass	TRS		2007	0.85%
ASP6004 Perennial ryegrass	EXS54		2007	0.45%
ASP6005 Perennial ryegrass	AJM		2007	0.76%
ASP6006 Perennial ryegrass	LPFG		2007	0.38%
Aspire Perennial ryegrass	IS-PR 489, S82		2013	0.06%
Assure Perennial ryegrass	FZ 2FZ		1991	0.72%
Attitude Annual ryegrass	PPG-TAR 106	Thunder	2017, 2019	94.25%
Attribute Perennial ryegrass	IS-PR 270		2007	0.70%
Axcella 2 Annual ryegrass	TXR2003-TF1	Axceletto	2007	87.24%
B-16.3752 (Octave) Perennial ryegrass	B-16.3752		2020	0.56%
Bandalore Perennial ryegrass	IS-PR 463		2015	0.72%
Banfield Perennial ryegrass[2]	IS-PR 491		2013	0.23%
BAR LM 10725 Annual ryegrass[2]	BAR LM 10725		2014	92.01%
Baralpha Perennial ryegrass	BAR Lp 7610, 06-LpC 10		2011	0.13%
Barbeta Perennial ryegrass	BAR Lp 7613, 06LpC13		2011	0.14%
Bargamma Perennial ryegrass	BAR Lp 7614, 06-LpC 14		2013	0.59%
Barlennium Perennial ryegrass	BARUSA 95-1, 95-1, Lp 95-1, BARUSA Lp 95-1		2006	0.21%
Barterra Annual ryegrass[2]	BAR LM 10723		2016	94.22%

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Bayou Perennial ryegrass[2]	LF-107		2001	1.33%
Bedford Perennial ryegrass[2]			1991	1.40%
Bella Perennial ryegrass	LRF-94-B7, LRF-94-B7E		1997	0.65%
Benchmark Perennial ryegrass	2BNS, PST-2BNS		2016, 2019	0.39%
BigLeague Perennial ryegrass	PPG-PR 321		2018	0.19%
Black Cat II Perennial Ryegrass	PPG-PR 119		2012	1.90%
Black Pearl Perennial ryegrass	PPG-PR 308		2018	0.35%
Blackhawk Perennial ryegrass	WVPB-PR-93-41, TMI-EXFLP-94		1996	1.17%
Blackstone Perennial ryegrass	PPG-PR 303		2018	0.47%
Blazer III Perennial ryegrass	PR 89-8 DDO, Pick 928, Pick DDO		1996	1.18%
Blazer 4 Perennial ryegrass	Pick MDR		2004	0.47%
Boardwalk Perennial ryegrass	WVPB 88-PR D-4		1995	2.72%
Boost Intermediate ryegrass[3]	ORTET, ORTET-05		2006	49.83%
Brea Perennial ryegrass	04-BRE	Breanna	2019	0.87%
Breakout Annual ryegrass	PPG-TAR 102		2015	97.25%
Breeze Perennial ryegrass	WVPB-PR-89-666, PR-89-666, WVPB PR 89-666		1995	1.57%
Brightstar Perennial ryegrass	GH 89, GH-89		1993	1.79%
Brightstar II Perennial ryegrass	PST-2M3	Polarstar	1997	2.24%
Brightstar SLT Perennial ryegrass	PST-2A6B, Brightstar SLT	Vantage	2002	0.55%
Buccaneer Perennial ryegrass	Koos 90-1, WVPB-PR-90-1, WVPB PR 90-1		1994, 1998	7.44%
Buccaneer II Perennial ryegrass	WVPB-PR-92-4		1998	5.48%
Buena Vista Perennial ryegrass	CIS-PR 208, IS-PR 208		2005	2.01%
C-21 Perennial ryegrass	WVPB 88-PR C-21 (Miss Kitty)		1996	6.28%
Cabo Perennial ryegrass	CIS-PR80, Cabo		2002, 2005	2.62%
Caddieshack Perennial ryegrass	MED-5071		1999, 2001	1.57%
Caddieshack II Perennial ryegrass	JR-163	Equate	2007	2.70%
Cadence Perennial ryegrass	Cadence, MRF 44		2004	3.32%
Calibra Perennial ryegrass	Calibra		2006	6.70%
Caliente Perennial ryegrass	UA		1992	0.74%
Calypso Perennial ryegrass	SWRC		1993	1.29%
Calypso II Perennial ryegrass	Agway PR-92		1996	0.47%
Calypso III Perennial ryegrass	MS2	Castanet	2007	1.04%
Candidame Annual ryegrass	IS-TAR 12		2015	94.22%
Carly Perennial ryegrass	PST-2TSE	Carleve	2012	0.07%
Cascadia Perennial ryegrass	DC-1		2013	0.42%
Casper Perennial ryegrass	01.0618		2005	1.07%
Catalina Perennial ryegrass	PST-GH-94		1996	3.18%
Catalina II Perennial ryegrass	PST-CATS, Catalina II		2003	1.31%
Cathedral Perennial ryegrass	WX9-1		1995	0.85%
Ceres One50 Perennial ryegrass	PG 150		2013	2.76%
Ceretec Centurion Perennial ryegrass	PG970		2013	0.77%
Chaparral Perennial ryegrass	PST-2DLM		1997	1.62%

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Chaparral II Perennial ryegrass	PST-2VL, Wimbleton	Paradise	2003	0.43%
Charger II Perennial ryegrass	PST-2QM	Fairway	1998	0.54%
Charisma Perennial ryegrass	WVPB-89-92		1995	2.39%
Charismatic Perennial ryegrass	LTP-98-501, Charismatic		2003	1.39%
Charismatic II GLSR Perennial ryegrass	LTP-PG-GLSR, LTP-PG2, PG2		2010	2.35%
Chatham Perennial ryegrass	CAS-SRX, MP-5, Catia		1996	2.11%
Churchill Perennial ryegrass	LTP-DLM, LTP-ELMD		2000	2.93%
Cinderella Perennial ryegrass	LF-103, Barefoot, Bigfoot, Cinderella		2002	1.59%
CIS-MBH Perennial ryegrass	ISI-MBH, ISI-MHB, Platinum	Platinum	1998	1.27%
Citation III Perennial ryegrass	PST-2DGR		1996	0.96%
Citation Fore Perennial ryegrass	PST-2BR, Citation Fore		2002	0.13%
Colosseum Perennial ryegrass	PG967		2013	1.31%
Commander Perennial ryegrass	259		1996	1.02%
Confetti Perennial ryegrass	STP, Confetti		2007	1.06%
Confetti 2 Perennial ryegrass	MVS-071		2010	3.27%
Confetti III Perennial ryegrass	PPG-PR 117		2012	1.59%
Continental Perennial ryegrass	LF-100, Continental		2000	5.88%
Continental II Perennial ryegrass	STPRG10-3		2019	2.64%
Cosaco Perennial ryegrass			2017	1.03%
Covet Perennial ryegrass	LF-104, Covet		2002	2.71%
Cruiser Perennial ryegrass	ABT-99-4.709, Cruiser, UT1000, 99.022		2003	0.59%
Cutter Perennial ryegrass	PICK 89-4		1995	1.65%
Cutter II Perennial ryegrass	PM101		2008	0.78%
Dancer Perennial ryegrass	ISS-E		1996	0.78%
Dandy Perennial ryegrass	Cosmos DBS		1991	2.00%
Dasher 3 Perennial ryegrass	Pick RB-1		2008	0.40%
Dazzle Perennial ryegrass	4.724, Dazzle		2004	0.98%
Defender Perennial ryegrass	D04-UP, 4UP		2008	0.84%
Delaware Dwarf Perennial ryegrass	4dd		1992, 1998	2.60%
Delaware XL Perennial ryegrass	Pick 01-2 PRG		2005	0.71%
Derby Supreme Perennial ryegrass	PR 852		1991	2.85%
Derby Xtreme Perennial ryegrass	IS-PR 268		2007	0.30%
DEVO Perennial ryegrass[2]	DEVO		2005	4.98%
DH-3 Annual ryegrass[2]	DH-3		2008	98.93%
Diligent Perennial ryegrass	IS-PR 492		2015	0.30%
Dillon Perennial ryegrass	ISI - K-2		1992	4.14%
Dinella Gold Perennial ryegrass	HYP-08		2013	1.28%
Dipper Annual ryegrass	B-14.0047, B-14.2139		2015	99.21%
Divine Perennial ryegrass	MB 1-1		1995	3.09%
DLF LGT 4182 (Tetradark) Perennial ryegrass	DLF LGT 4182		2017	25.03%
Dominator Perennial ryegrass	PST-2AG4		2011	0.09%
Driver Perennial ryegrass	B-06.0756		2008	1.02%

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DS 95-201 (Enchanted) Perennial ryegrass[2]	DS 95-201		1999	1.12%
Easy Livin' Perennial ryegrass	LF-119, Easy Livin'		2002	1.50%
Ecologic Perennial ryegrass	LF-102		2002	1.49%
Edge Perennial ryegrass	Pick 715 , PR 872		1992	1.73%
Edge II Perennial ryegrass	AC2		2008	0.52%
Electra 37 Perennial ryegrass	B-7.0860		2013	2.41%
Elegance Perennial ryegrass	WVPB 88-PR F-7		1995	1.51%
Elena DS Perennial ryegrass			2015	58.18%
Elf Perennial ryegrass	BJ 1991		1994	0.75%
Elfkin Perennial ryegrass	EL-2, Elfkin		2002	0.89%
Elite Perennial ryegrass	WVPB 88-PR C-23, Night Hawk		1995	4.84%
Enterprise Perennial ryegrass	Enterprise, MRF 45		2004	2.76%
Envy Perennial ryegrass	SMTR		1991	0.22%
EP136 (Winterhawk) Perennial ryegrass[2]	EP136		2003	1.63%
EP39 (Pronto II9 (Pronto II) EP39 Perennial ryegrass[2]	EP39, Pronto II		2000	1.75%
Equal Perennial ryegrass	WVPB 89-PR 89-57		1994	1.98%
Esquire Perennial ryegrass	WX2-64		2000	3.10%
Esteem Perennial ryegrass	MP88, Tiarra, Esteem		2002	0.43%
Estelle Perennial ryegrass	PST-2BRT		2014	0.02%
Evening Shade Perennial ryegrass	VD3cl, VD 3cl		1995	1.17%
Evolve Perennial ryegrass	PST-2NKM		2016	0.07%
Exacta Perennial ryegrass	LTP-3351, Exacta		2000	1.22%
Exacta II GLSR Perennial ryegrass	LTP-611-GLSR, LTP-611		2010	2.22%
Excel Perennial ryegrass	M-B 1-5	Romareda	1995	1.53%
Express Perennial ryegrass	NY88		1992, 1998	4.00%
Express II Perennial ryegrass	Pick EJ, 05-EJPR		2009	0.69%
Extreme Perennial ryegrass	JR-317, Superfly, Extreme		2000	1.32%
Fade Annual ryegrass	PPG-TAR 108		2019	93.89%
Fastball 3GL Perennial ryegrass	PPG-PR 329		2019	0.40%
Fastball RGL Perennial ryegrass	PPG-PR 133		2014, 2016	2.63%
Federation Perennial ryegrass	MRF 41, Federation		2002	2.74%
Fiesta II Perennial ryegrass	D114		1994	1.14%
Fiesta 3 Perennial ryegrass	Pick F3		2000	1.02%
Fiesta 4 Perennial ryegrass	Pick F4		2007	1.58%
Firebolt Perennial ryegrass	PRG HS-01-09		2005	0.63%
Florida 80 Annual ryegrass			1992	98.89%
Frontier Perennial ryegrass	C-35		2008	1.82%
Full Throttle Perennial ryegrass	CAS-MP64, MP64		2006	7.05%
Galaxy Perennial ryegrass	JR-128, Spyglass, Galaxy		2000	1.19%
Gallery Perennial ryegrass	MB 412, Gallery		2002, 2004	1.68%
Gallop Perennial ryegrass	B-7.1373		2015, 2017	6.39%
GameChanger Annual ryegrass	PPG-Transrye 107		2018	94.64%

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Garibaldi Perennial ryegrass	Garibaldi		2008	13.01%
Gator Perennial ryegrass			1995	0.88%
Gator II Perennial ryegrass	ISI-RUPR, RUPR, Gator II		1997	2.50%
Gator 3 Perennial ryegrass	CIS-PR 85, PR 85	Stravinsky	2012	0.32%
Gettysburg Perennial ryegrass	WVPB 88-PR PRDR (NJDR-87), pr dr		1996	2.74%
GL3 Perennial ryegrass[2]	GL3		2008	0.20%
GO-DHS(Barbados) Perennial ryegrass[2]	GO-DHS		2017	1.03%
Goalkeeper Perennial ryegrass	J-1704		1999	3.03%
GoalKeeper II Perennial ryegrass	JR-114	Verona	2007	4.62%
Grand Slam Perennial ryegrass	PST-2L96, Grand Slam		2003	0.40%
Grand Slam 2 Perennial ryegrass	PST-2GSM		2007	0.80%
Grasslands Samson Perennial ryegrass			2013	6.48%
Gray Fox Perennial ryegrass	PST-2MNG		2007	0.47%
Gray Hawk Perennial ryegrass	PST-2FIND		2018	0.06%
Gray Goose Perennial ryegrass	PST-2J15		2007	0.42%
Gray Star Perennial ryegrass	PST-2LGL		2005	1.20%
Grazer Annual ryegrass	Grazer Reseeding		1995	99.78%
Green Emperor Perennial ryegrass	Emerald Green, MSP, MSP 3956		2013	1.17%
Green Supreme Perennial ryegrass	PPG-PR 121		2015	0.99%
Greenland Perennial ryegrass	Pick 9100		1995	1.20%
Greenlinks Annual ryegrass	ARG-SOUTH		2020	98.91%
Greenville Perennial ryegrass	OSP-002, Greenville		2004	2.61%
Grimalda Perennial ryegrass			1991	2.00%
GT24 Perennial ryegrass	PST-224		2017	0.46%
Gulf Annual ryegrass			1996	99.02%
Halo Perennial ryegrass	KN42		2007	2.87%
Hancock Perennial ryegrass	IS-PR 479		2015	0.62%
Harrier Perennial ryegrass	SRX 4UP3, UP		2007	0.39%
Hawkeye Perennial ryegrass	SRX 4RHT, Hawkeye		2003	0.23%
Hawkeye 2 Perennial ryegrass	SRX 4692		2009	0.25%
Headstart Perennial ryegrass	Pick PR 84-91, Headstart		1997	2.09%
Headstart 2 Perennial ryegrass	PRG HS-01-07, Headstart 2		2005	0.65%
Hi-Q Perennial ryegrass	B-7.0516		2012	3.37%
High Life Perennial ryegrass	LF-105		2002	1.59%
Home Run Perennial ryegrass	RG3P, RG3EP		2007	0.58%
Homerun LS Perennial ryegrass	PPG-PR 419		2020	0.07%
Icon Perennial ryegrass	MB 414, Icon		2002	2.21%
Imagine Perennial ryegrass	OFI-DW2, QS-DW2		1995	1.31%
Indy Perennial ryegrass	BMX-99-228		2003	0.25%
Infusion Perennial ryegrass	JR-178		2019	1.33%
Insight Perennial ryegrass	SD-1RES.2S2		2013	0.80%
Inspire Perennial ryegrass	Rutgers 8000, R8000		2002, 2004	0.72%

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Integra Perennial ryegrass	FPT, Integra		2002	0.12%
Integra II Perennial ryegrass	APR1659		2007	0.07%
Interlude Perennial ryegrass			2011	1.07%
IS-OS (Ignite) Perennial ryegrass[2]	IS-OS		2007	25.53%
Jackson Annual ryegrass	MSR-86-1		1992	98.80%
Jet Perennial ryegrass	BFP, Pennington BFP		2000	0.84%
Jiffie Perennial ryegrass	Pick PR 15-91, Jiffie		1997	6.06%
Jiffie II Perennial ryegrass	Pick 01-3 PRG, Jiffie II		2005	1.55%
JS501 Perennial ryegrass	JR-501, Blitz TD		2012	0.93%
Karma Perennial ryegrass	CL 10401, Pick 10401		2012	3.41%
Kentaur Perennial ryegrass			2012	41.56%
Keystone 2 Perennial ryegrass	IS-PR 312, MCK		2007	0.12%
La Quinta Perennial ryegrass	JR-225		2007	4.47%
Laredo Perennial ryegrass	PNC-5		1996	0.53%
Laredo II Perennial ryegrass	LAR2		2012	3.42%
Legacy Perennial ryegrass	2WDR		1991	0.37%
Lindsay Perennial ryegrass	ISI PR 851		1991	1.72%
Line Drive Perennial ryegrass	MB 47		1997	2.72%
Line Drive GLS Perennial ryegrass	APR1797		2008	2.37%
Linn Perennial ryegrass			1991	5.00%
Lover Perennial ryegrass			2010	1.92%
Lowboy Annual ryegrass	PPG-TAR 113		2017	92.42%
Lowgrow Perennial ryegrass	Lex 86, PR 874, Pick LLG	Lex 86	1996	1.31%
Lowgrow II Perennial ryegrass	PICK Lp EE-93	Sunbright	1998	1.35%
LRF-94-C8 Perennial ryegrass[2]	LRF-94-C8		1997	0.64%
LS 2000 Perennial ryegrass[2]	LS 2000, LS-PRG-800		2004	2.29%
LS 2100 Perennial ryegrass	PST-2SBE, Sierra, LS 2100		2004	2.94%
LS2200 Perennial ryegrass	2.0383		2006	0.79%
Lynx Perennial ryegrass	Pick EEC		1997	4.19%
Mach 1 Perennial ryegrass	Roberts 627, Mach 1, Mach 1 R/S	KLM603	2003	0.47%
Magic Perennial ryegrass	TPR 88B, TPR88B		1994	1.21%
Magic II Perennial ryegrass	EP37, Magic II		2000	1.36%
Magnolia Annual ryegrass			1997	None[3]
Majesty Perennial ryegrass	MB 43		1997	1.59%
Majesty II Perennial ryegrass	VB-77		2008	0.77%
Manhattan II Perennial ryegrass		Numan	1991	0.65%
Manhattan 3 Perennial ryegrass	PST-2MS, Manhattan III	Triman	1996	0.88%
Manhattan 4 Perennial ryegrass	PST-2CRL, Manhattan 4		2003	0.26%
Manhattan 5 GLR Perennial ryegrass	PST-2AM		2007	0.54%
Manhattan 6 Perennial ryegrass	PST-2MAGS		2013	0.08%
Manhattan 7 GLR Perennial ryegrass	PST-2TFC		2020	0.15%
Mardi Gras Perennial ryegrass	ZPS-2NV		1998	1.07%
Marshall Annual ryegrass			1991	96.00%

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Mathilde Perennial ryegrass			2013	3.47%
MB Perennial ryegrass			2011	1.44%
MBH 2 Perennial ryegrass	MBH 2, IS-MBH2		2007	0.81%
Mensa Perennial ryegrass	SD-2		2012	0.25%
Meteoro Perennial ryegrass	Meteoro		2017	1.88%
Mighty Perennial ryegrass	06 B Lp		2011	0.76%
Molalla Perennial ryegrass	PST-2ETS		2018	0.10%
Monsieur Perennial ryegrass	IS-PR 488		2015	0.54%
Monterey Perennial ryegrass	J-1706		1999	2.64%
Monterey II Perennial ryegrass	JR-187		2001	1.94%
Monterey 3 Perennial ryegrass	JR-408		2007	1.63%
Monterey 4 Perennial ryegrass	JR-521		2012	1.35%
Morningstar Perennial ryegrass	SYN P, Morning Star		1994	0.87%
MP5 (PDQ) Perennial ryegrass [2]	CAS-MP5, MP55		2000	4.65%
MP58 (Splendor) Perennial ryegrass [2]	MP58, Splendor		2002	0.44%
Mulligan Perennial ryegrass	NK 89001		1995	1.86%
MVS-156 Perennial ryegrass [2]	LF-156, MVS-156		2010	1.33%
Navajo Perennial ryegrass	2DPR	Comanche	1991	0.37%
Newlinn Perennial ryegrass	WVPB PR N-33, N-33		1996	5.85%
Nexus Perennial ryegrass	MB 49, Nexus		2000	2.01%
Nexus XD Perennial ryegrass	SP4	Pearlgreen	2011	0.59%
Nexus XR Perennial ryegrass	SNR	Tavin	2011	0.20%
NightHawk Perennial ryegrass	WVPB 89-PR A-3, Eagle		1993	1.39%
NightSky Perennial ryegrass	07-4 PR		2010	0.50%
Nobility Perennial ryegrass	WVPB PR 91-131, Koos 91-131		1996, 1998	7.53%
Nomad Perennial ryegrass	JB-2, JB2		1995	1.03%
Notable Perennial ryegrass	AF		2007	0.54%
Nova Perennial ryegrass	SR 4031 PR 831		1991	1.00%
Nusprint Annual ryegrass	ARG-N		2008	98.77%
Oahu Perennial ryegrass	RAD-PR60, GO-PR60		2015	0.54%
Octane Perennial ryegrass	CL-301		2017	2.07%
Omega 3 Perennial ryegrass	PST-2DR, 2DR		1996	0.73%
Omni Perennial ryegrass	SRX 4220, Maxim, SRX 4210		1995	0.51%
Orantas Perennial ryegrass	CER 2062		2013	3.78%
OSC108 (Whitney) Perennial ryegrass [2]	OSC108, LF-108		2008	2.62%
OSC109 (Michelangelo) Perennial ryegrass [2]	OSC109, LF-109		2008	2.59%
OSC110 (Edison) Perennial ryegrass [2]	OSC110, LF-110		2008	1.61%
OSC112 (Newton) Perennial ryegrass [2]	OSC112, LF-112		2008	0.87%
OSC116 (Galileo) Perennial ryegrass [2]	OSC116, LF-116		2008	0.36%
Overdrive Perennial ryegrass	BSP-1, BSP		2007	0.67%
Pacesetter II Perennial ryegrass	PS-2, PS2		2009	0.99%
Pacific Gem Perennial ryegrass	PST-2MG7		2014	0.08%

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Variety and Kind	Experimental Designation	Foreign Synonym Name [1]	Year Approved	Variety Fluorescence Level
Pageant Perennial ryegrass	WVPB PR C-24, C-24, Shaft		1995	2.22%
Pageant II Perennial ryegrass[2]	Pratum P-2		2001	3.32%
Palace Perennial ryegrass	IS-PR 273		2007, 2011	1.99%
Palmer Perennial ryegrass			1993	1.04%
Palmer II Perennial ryegrass	P89		1993	1.51%
Palmer III Perennial ryegrass	LRF-94-MPRH		1997	0.23%
Palmer IV Perennial ryegrass	IG3, 1G3, Palmer IV		2004	1.76%
Palmetto Annual ryegrass	PPG-TAR 115		2018	94.82%
Panterra Annual ryegrass	BAR LM1001B, BAR Lm 1001b, TXR98-DBDF		2006	98.36%
Panterra V Annual ryegrass	BAR Lm 76TL	5ARLT	2010	99.84%
Panther Perennial ryegrass	ZPS PR1		1998	1.18%
Panther GLS Perennial ryegrass	APR1662		2008	0.83%
Paragon Perennial ryegrass	MML, TMI-MML		2001	0.88%
Paragon GLR Perennial ryegrass	12001		2012	1.08%
Parkside Perennial ryegrass	PST-2NJK, 2NJK		2017	0.39%
Partner Perennial ryegrass[2]	Partner, MRF 43		2004	2.83%
Passerel Plus Annual ryegrass	Passerel Select, AAR-1		2001	98.83%
Passion Perennial ryegrass[2]	RAD-PR9, PR9		2005	1.01%
Passport Perennial ryegrass	PST-2FF	Romeo	1996	1.06%
Patriot II Perennial ryegrass			1995	0.42%
Patriot 3 Perennial ryegrass[2]	Patriot 3		2002	2.10%
Patriot 4 Perennial ryegrass[2]			2008	0.88%
Pavilion Perennial ryegrass	HMX-99-226, HMX 226		2003	0.20%
PayDay Perennial ryegrass	PPG-FPRT 105		2015	5.42%
Pearl Perennial ryegrass	CAS-EP20, EP20 DR		1998	1.86%
Pearl II Perennial ryegrass	EDP, Pearl II, EPD		2002	1.00%
Pegasus Perennial ryegrass	WVPB-PR-A-5		1995	2.41%
Penguin 2 Perennial ryegrass	SRX 4SLT		2008	0.81%
Pennant Perennial ryegrass			1991	0.50%
Pennant II Perennial ryegrass	MB 42		1997	1.63%
Pennant III Perennial ryegrass	MP3		2006	2.20%
Pennington APR2105 Perennial ryegrass	APR2105	Greenslopes	2011	10.03%
Pentium Perennial ryegrass	NJ 6401	Marquez	2004	0.86%
Pepper Perennial ryegrass	RAD-PR62, PR62		2015	1.33%
Peregrine Perennial ryegrass	APR1425(SR), APR1425, Peregrine		2007	0.15%
Pershing Perennial ryegrass	RAD-PR39, PR39		2011	0.66%
Phantom Perennial ryegrass	A7 White, A7, 7311		1998	2.19%
Phenom Perennial ryegrass	APR1660		2007	0.19%
PI Perennial ryegrass			2011	1.61%
PICK Lp Q-93 Perennial ryegrass[2]	PICK Lp Q-93		1998	6.44%
Pinnacle II Perennial ryegrass	BAR Lp 9B-2, B-2, BAR 9 B2		2006	0.88%
Pinstripe II	PN II		2019	0.77%
Pirouette II Perennial ryegrass	BAR Lp 4317		2011	2.21%

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Pistol Perennial ryegrass	PST-2ACR		2015	0.08%
Plateau Perennial ryegrass	PST-2LAN		2007	0.50%
Playfast Perennial ryegrass	HX-091		2016	0.59%
Pleasure Perennial ryegrass	Syn Y		1992, 1998	4.09%
Pleasure Supreme Perennial ryegrass	PM 103		2008	0.49%
Pleasure XL Perennial ryegrass	Pick Lp I-93, Pleasure XL		2000	1.11%
PM 102 Perennial ryegrass	PM 102		2008	0.39%
PNW Perennial ryegrass	BNW		2011	0.53%
Polim Perennial ryegrass			2013	0.11%
Power Perennial ryegrass	CLP 94222	Godali 1	2010	4.83%
PPERC2 Annual Ryegrass	PPERC2	Pennington ARG-1	2012	99.23%
PPG-FPRT 107 (NutriGraze) Perennial ryegrass [2]	PPG-FPRT 107		2016, 2017	6.38%
PPG-LMT 102 (Maryna) Annual ryegrass [2]	PPG-LMT 102		2017	96.76%
PR 8820 Perennial ryegrass	PR 8820/PR 9122, Essence+	Essence	1995	0.79%
PR 8821 Perennial ryegrass	IS-PR 256	Elka 3	2008	1.06%
PR-194 Perennial ryegrass	Pick PR 1-94, PR-194		2003	0.95%
Preference Perennial ryegrass			2011	2.25%
Prelude Perennial ryegrass			1995	1.72%
Prelude II Perennial ryegrass	Lofts 2P2		1993	2.25%
Prelude III Perennial ryegrass	LRF-94-B6		1997	0.59%
Prelude IV Perennial ryegrass	A00, Prelude IV		2004	0.62%
Prelude GLS Perennial ryegrass	APR1619		2008	0.99%
Premier II Perennial ryegrass	BAR PRE II, BAR USA 94-II		2006	0.50%
Premium Perennial ryegrass	PPG-PR 137		2014	0.79%
Presidio Perennial ryegrass	CNV		2007	0.76%
Prevail Perennial ryegrass	B-6.1091		2011	2.06%
Primary Perennial ryegrass	IS-PR 269		2007, 2011	1.25%
Principal II Perennial ryegrass	PPG-PR 372		2020	0.12%
Priority Perennial ryegrass	Priority, DPR		2007	1.25%
Private Perennial ryegrass	ES45		2007	0.56%
Prizm Perennial ryegrass	ZPS-28D , 28D, PST-28D		1994	0.71%
Process Perennial ryegrass	PPG-PR 422		2020	0.20%
Prominent Perennial ryegrass	CS-20	Presidian	2014	0.34%
Prosport Perennial ryegrass	AG-P981, Prosport		2001	1.36%
Prosport 2 Perennial ryegrass	Prosport II, Pro2		2009	1.87%
Prosport 4 Perennial ryegrass	NA-13-1		2017	1.57%
Protocol Perennial ryegrass	WVPB-PR-93-3, Koos 93-3		1998	4.30%
Protocol II Perennial ryegrass [2]	PR2, Smith PR2, WVPB-PCII		2000	5.28%
Prototype Perennial ryegrass	DCM		2007	0.20%
Provost Perennial ryegrass	PPG-PR 143		2014	0.92%
Prowler Perennial ryegrass	APR777		2001	0.21%
PSG 4DFHM Perennial ryegrass [2]	PSG 4DFHM, Pick 4DFHM		2013	2.87%
PSG 4TPCS Perennial ryegrass [2]	SRX 4TPC, PSG 4TPCS		2010	0.76%

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PST-2M20 Perennial ryegrass	PST-2M20	PST2M20	2011	1.55%
Quartermaster Perennial ryegrass	RAD-LI101, LI101		2014	48.69%
Quartet Perennial ryegrass[2]	KLP947		2004, 2007	7.31%
Quebec Perennial ryegrass	Pick PR C-97		2005	1.14%
Quest II Perennial ryegrass[2]	Quest II, ABT 4.721		2006	0.83%
Quick Trans Perennial ryegrass	PST-3BK, Quick Trans		2002	0.11%
Quickdraw Annual ryegrass	PSAR09-2		2014	90.06%
Quicken Perennial ryegrass	LEL		2012	0.65%
Quicksilver Perennial ryegrass	PST-2G1, Quicksilver		2004	6.86%
Quickstart Perennial ryegrass	2FQR		1991	0.18%
Quickstart II Perennial ryegrass	PST-3BKM		2006	0.06%
Quickston Annual ryegrass	IS-TAR 11		2015	98.46%
Quijote Perennial ryegrass			2017	1.51%
R2 Perennial ryegrass	ISI-R2, R2		1997	1.25%
Racer Perennial ryegrass	Pick Lp H-93, Racer		1999	1.23%
Racer 2 Perennial ryegrass	Pick RC2	Pick RC2	2002	0.18%
RAD-PR27 (WinterStar) Perennial ryegrass	PR27, RAD-PR27, OS27		2008	2.25%
Radiant II Perennial ryegrass	APR1461, Radiant II		2004	0.80%
Ragnar Perennial ryegrass	P101		2006, 2014	10.23%
Ragnar II Perennial ryegrass	P201		2006	4.20%
Rainwater Perennial ryegrass	PST-2TQL		2017	0.12%
Reatta Perennial ryegrass	SD-0	Corsica	2013	0.28%
Red Hawk Perennial ryegrass	B-7.1372		2016	1.90%
Refine Perennial ryegrass	PST-2RT, Refine		2005	0.45%
Regal 5 Perennial ryegrass	IS-PR 271	Regal Nova	2007	0.20%
Regency Perennial ryegrass	75E		1991	0.99%
Remington Perennial ryegrass	LpT ROM 99, BAR LpT ROM99		2014	1.64%
Repell Perennial ryegrass			1992	0.33%
Repell II Perennial ryegrass	LDRD	Verdi	1993	1.56%
Repell III Perennial ryegrass	LRF-94-C7, C7, LRF-C7		1997	0.80%
Repell GLS Perennial ryegrass	APR1669		2008	0.90%
Replay Perennial ryegrass	JR-502, Intercept TD		2012	1.05%
Reveille Perennial ryegrass			1991	2.00%
Revenge GLX Perennial ryegrass	JR-348	Excite	2007	0.16%
Ribeye Annual ryegrass	BARUSA Lm 95, BAR LM95		2014	99.29%
Ringer II Perennial ryegrass	04-BEN		2019	1.50%
Rio Annual ryegrass[2]	WVPB LM AR-42 (Rio)		1995	98.97%
Rio Vista Perennial ryegrass	PPG-PR 139		2015,2016	2.08%
Riptide Perennial ryegrass	IS-PR 409		2013	0.09%
Riviera Perennial ryegrass	PICK 647		1992	0.58%
Riviera II Perennial ryegrass	Pick DKM		1995	1.08%
Roadrunner Perennial ryegrass	PST-2ET		1997	2.53%
Rodeo II Perennial ryegrass			1995	2.47%

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Rodeo 3 Perennial ryegrass			2015	1.15%
Rosalin Perennial ryegrass	HE 411		1999	3.26%
Royal Green Perennial ryegrass	MSP 3934; P201 x Spreader III		2013	1.50%
RRT (Alloy) Perennial ryegrass	IS-PR 488		2019	0.20%
Salinas Perennial ryegrass	PST-2SLX, Salinas		2003	0.85%
Salinas II Perennial ryegrass	PST-204D	Salado	2016	0.13%
Saturn II Perennial ryegrass	PST-2ST, Saturn II		1998	0.85%
Sauvignon Perennial ryegrass	DPL 9603, Sauvignon		2006	1.28%
Savant Perennial ryegrass	SD-1		2012	0.15%
Secretariat Perennial ryegrass	RPBD		2002	1.49%
Secretariat II GLSR Perennial ryegrass	LTP-101-GLST, LTP-101, 101		2010	1.52%
Seville Perennial ryegrass	PE8	Leonardo	1992	0.33%
Seville II Perennial ryegrass	WX9-2000, Seville II		2002	1.33%
Seville 3 Perennial ryegrass	GL3		2008	0.20%
Sherwood Perennial ryegrass	SRR		1996	1.08%
Shining Star Perennial ryegrass	PST-2B3		1994	0.10%
Shining Star II Perennial ryegrass	PST-2M*		2009	0.09%
Showtime Perennial ryegrass	PST-2LA, Showtime		2005	2.98%
Sideways Perennial ryegrass	PSG PR S84, PSRX S84		2012	2.62%
Sienna Perennial ryegrass	SD-20CI	New Orleans	2012	2.24%
Sierra Perennial ryegrass	CAS-EP66, EP66		2005	1.31%
Signet Perennial ryegrass	PPG-PR 172		2020	2.57%
Silver Dollar Perennial ryegrass	PST-2JS		2005, 2013	0.80%
Silver Sport Perennial ryegrass	PST-2CRP		2019	0.19%
Silver Sun Perennial ryegrass	PST-2ED1		2018	0.03%
Singular Perennial ryegrass	C-72		2013	1.39%
SkyHawk Perennial ryegrass	MP42, Sky Hawk, SkyHawk		2002	2.09%
Slider LS Perennial ryegrass	PPG-PR 241		2019	1.00%
Slugger Perennial ryegrass	OS, Slugger		2007	1.41%
Slugger 3GL Perennial ryegrass	PPG-PR 343		2019	0.12%
Sol Perennial ryegrass	EP 53, EP53, Sol		2002	0.55%
Sonata Perennial ryegrass	PST-2R3, 2R3		1998	1.20%
Soprano Perennial ryegrass	DP1	Totilas	2007	0.19%
Spirit Perennial ryegrass	LF-120, LF-120-A		2017	0.73%
Splendid Perennial ryegrass	MB 411, Splendid		2002, 2004	2.16%
Sprite Annual ryegrass	A-9.1580		2015	96.58%
Spyglass Perennial ryegrass	JR-192		2019	0.74%
SR 4100 Perennial ryegrass		Athena	1994	0.37%
SR 4200 Perennial ryegrass	SRDR		1994	0.34%
SR 4220 Perennial ryegrass	SRX 4801, SR 4220	Greenview	2003	0.27%
SR 4420 Perennial ryegrass	SRX 4820, SR 4420	Speedster	2003	0.28%
SR 4500 Perennial ryegrass	SRX NJPR, SRX 4NJPR, SRX 4500		2001	0.24%
SR 4550 Perennial ryegrass	APR1557		2007	0.04%

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SR 4600 Perennial ryegrass	SRX 4SP, SP	Galleon	2007	1.87%
SR 4650 Perennial ryegrass	PSRX 3701, JP 37-01		2012	3.66%
SR 4660ST Perennial ryegrass	PSG 4MSH, SRX 4MSH		2013	0.92%
Stallion Select Perennial ryegrass	WVPB 89-105		1994	2.37%
Stallion Supreme Perennial ryegrass	WVPB PR E-1, E-1		1998	1.16%
Stamina Perennial ryegrass	IS-PR 487, TRAF		2015	0.28%
Stanton Perennial ryegrass	B-6.1097		2011	0.37%
Stardance Perennial ryegrass	PST-2FE		1996	1.90%
Statesman Perennial ryegrass	WVPB 88-PR D-12		1993	1.27%
Statesman II Perennial ryegrass	SS 33 DS		1995, 1998	8.42%
Stellar Perennial ryegrass	CIS-PR-72, PR 72, CIS-PR72, Stellar		2002, 2007	2.46%
Stellar GL Perennial ryegrass	IS-PR 236		2011	1.12%
Stellar 3GL Perennial ryegrass	PPG-PR 134	Mistral	2013	0.82%
Summerset Perennial ryegrass	MB 413, Summerset		2002, 2004	1.35%
Sunkissed Perennial ryegrass	4.834, 834, ABT-99-4.834, fRTP, RTP, 99.0388		2004	0.83%
Sunrise Perennial ryegrass	JR-522		2019	0.75%
Sunshine Perennial ryegrass	Pick Lp 102-92		1999	2.65%
Sunshine 2 Perennial ryegrass	PRG HS-01-08, Sunshine 2		2005	2.01%
Sunstreaker Perennial ryegrass	APR2036		2014	0.46%
Superstar Perennial ryegrass	EP57, Superstar		2002	3.46%
Surrey Annual ryegrass	Florida 1986 LR		1992	98.91%
TAM 90 Annual ryegrass	TX-R-85-2		1994	98.45%
Target Perennial ryegrass	TPR 88A, TPR88A	Libra	1991	3.28%
Tee-Lee Perennial ryegrass	TR47		2007	1.22%
Terradyne Perennial ryegrass	BMX-99-225, ABT 4.960, 99-		2003	0.18%
TetraGain Perennial ryegrass	PST-2YUR		2013	81.78%
TetraPrime Annual ryegrass	PPG-LMT 103		2016,2019	91.87%
Tetrasweet Perennial ryegrass	PPG-FPRT 103		2012, 2020	6.18%
Thrive Perennial ryegrass	IS-PR 469, IS-PR 469 M2		2015	0.89%
Tonga Perennial ryegrass			1996	11.53%
Top Gun Perennial ryegrass	J-1703, TopGun, Top Gun		1999, 2001	1.15%
Top Gun II Perennial ryegrass	JR-324	Azimuth	2006	2.42%
Top Hat Perennial ryegrass	ISI APR		1995	0.77%
Topeka Perennial ryegrass	WVPB 88-PR D-10 , WVP 88-PR D10		1993	2.34%
Tove Perennial ryegrass[2]	Tove		1998	17.48%
Transformer Perennial ryegrass	APR1667		2008	0.38%
Twister Perennial ryegrass	WVPB-PR-90-2, KOOS 90-2, 90-2		1994	3.85%
TXR Annual ryegrass	TXR-2004-TF-EM		2015	97.13%
Ultra Perennial ryegrass	Ultra		2017	1.25%
Uno Perennial ryegrass	11T, D04-11T		2008	1.26%
Vail Perennial ryegrass	P22, LP22, Vail		2000	0.82%
Vantage Perennial ryegrass	PR 862		1991	2.19%

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Vibrant Perennial ryegrass[2]	Lewis Seed PR#1, Lewis #1, WVPB-PR-Lewis #1,		2000	4.30%
Vision Perennial ryegrass	CL11601		2018	1.32%
Vivid Perennial ryegrass	WX2-65		1998	1.24%
Vixen Perennial ryegrass	MRF 42, Vixen		2002	2.53%
Voyager Perennial ryegrass[2]	Voyager		2004	4.03%
Wayfarer Perennial ryegrass	L44		2007	1.41%
Whistler Perennial ryegrass	MP56, MP-56, Black Pearl, Whistler, LP56, EP56		2003	0.53%
Wicked Perennial ryegrass	PSG PR RHD, SRX 4RHD		2012	1.14%
Wilmington Perennial ryegrass	MB 48, Wilmington		2000	0.17%
Wind Dance Perennial ryegrass	MB 46, Wind Dancer		1998	1.17%
Wind Dance 2 Perennial ryegrass	PWDR		2007	0.98%
Wind Star Perennial ryegrass	PST 28M		1996	0.47%
Wizard Perennial ryegrass	MB-41	Sardinero	1995	2.57%
WVPB PR C-2 Perennial ryegrass[2]	WVPB PR C-2, C-2		1998	8.65%
WVPB-PR-93-KFK(Spellbound) Perennial ryegrass[2]	WVPB-93-KFK, WVPB-PR-93-KFK, WVPB-PR-KFK		1998	3.84%
WVPB-PR-Koos-95-9(Breeze II) Perennial ryegrass[2]	WVPB-PR-Koos-95-9, Koos 95-9		1999	6.85%
WVPB-PR-RS-2 Perennial ryegrass[2]	WVPB-PR-RS-2, WVPB-RS-2		1999	1.59%
WVPB-XB-2 Perennial ryegrass[2]	WVPB-XB-2, SB-2		2000	26.71%
WVPB-XP-6 Perennial ryegrass[2]	WVPB-XP-6, XP-6		2000	21.69%
Yorktown III Perennial ryegrass	LDRF		1993	1.42%
Zoom Perennial ryegrass	LCK		2009, 2013	0.31%

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Acres Passed for Seed Certification 2014 - 2019

Oregon Seed Certification Service, Oregon State University Extension Service

CROP		2019	2018	2017	2016	2015	2014
BENTGRASS *(Colonial, Creeping, Redtop, Velvet)*	Public - Highland	744	1,516	1,646	1,815	1,731	1,586
	Public - Seaside	0	0	21	21	0	0
	Private and OECD	2,284	2,551	2,656	2,780	3,033	2,146
	Experimental	15	153	174	196	46	40
	Total Acres of Bentgrass	**3,043**	**4,220**	**4,497**	**4,812**	**4,810**	**3,772**
BLUEGRASS *(Kentucky, Rough, Big, Wood)*	Public	0	0	0	34	34	34
	Private & OECD	14,783	13,168	12,444	12,578	12,641	10,389
	Experimental	154	81	82	48	218	134
	Total Acres of Bluegrass	**14,937**	**13,249**	**12,526**	**12,660**	**12,893**	**10,557**
FINE FESCUE *(Blue, Chewings, Hard, Red, Sheep)*	Public - Cascade	3	3	3	0	37	37
	Private and OECD	14,971	14,244	12,989	12,862	12,895	13,166
	Experimental	608	302	580	350	213	43
	Total Acres of Fine Fescue	**15,582**	**14,549**	**13,572**	**13,212**	**13,145**	**13,246**
TALL FESCUE	Public - Fawn	4,675	4,826	5,326	5,179	5,220	5,345
	Public - Kentucky 31	2,705	2,339	2,590	2,714	5,080	5,873
	Private and OECD	97,952	93,300	84,891	85,263	86,825	83,559
	Experimental	615	1,114	791	4,027	3,270	2,874
	Total Acres of Tall Fescue	**105,947**	**101,579**	**93,598**	**97,183**	**100,395**	**97,651**
ORCHARDGRASS	Public - Latar	54	54	0	54	54	54
	Public - Paiute	208	143	194	232	232	241
	Public - Potomac	2,047	2,177	2,040	1,757	1,752	1,923
	Private and OECD	6,241	6,518	5,464	4,816	4,164	3,403
	Experimental	0	250	356	50	39	2
	Total Acres of Orchardgrass	**8,550**	**9,142**	**8,054**	**6,909**	**6,241**	**5,623**
ANNUAL AND INTERMEDIATE RYEGRASS	Public - Gulf	0	88	0	0	80	80
	Private and OECD	10,449	11,605	11,726	9,765	11,558	14,733
	Experimental	168	87	273	431	191	548
	Total Acres of Annual & Intermediate Ryegrass	**10,617**	**11,780**	**11,999**	**10,196**	**11,829**	**15,361**
PERENNIAL RYEGRASS	Public - Linn	294	593	733	977	1,077	1,390
	Private and OECD	31,875	39,869	46,077	55,857	54,083	53,824
	Experimental	409	1,966	2,624	1,513	1,923	3,477
	Total Acres of Perennial Ryegrass	**32,578**	**42,428**	**49,434**	**58,347**	**57,083**	**58,691**
ALFALFA	Public	0	0	0	0	0	0
	Private and OECD	29	159	681	728	864	522
	Experimental	0	65	2,500	2,522	734	418
	Total Acres of Alfalfa	**29**	**224**	**3,181**	**3,250**	**1,598**	**940**
CLOVERS *(Berseem, Crimson , Ladino, Red, Arrowleaf, White)*	Public	299	252	235	517	267	203
	Private and OECD	4,851	5,025	5,551	4,123	4,677	4,069
	Experimental	171	144	211	333	150	13
	Total Acres of Clovers	**5,321**	**5,421**	**5,997**	**4,973**	**5,094**	**4,285**
MINT	Public	200	173	65	63	61	60
	Experimental	0	0	0	0	0	0
	Total Acres of Mint	**200**	**173**	**65**	**63**	**61**	**60**
SMALL GRAINS *(Barley, Oat, Red oat, Club wheat, Wheat, Triticale, Cereal rye)*	Public	3,111	3,688	3,692	6,482	6,475	7,726
	Private and OECD	21,008	17,421	19,666	18,812	19,671	16,921
	Experimental	11	25	45	441	363	40
	Total Acres of Small Grains	**24,130**	**21,134**	**23,403**	**25,735**	**26,509**	**24,687**

*Not Available for Crop Year
**Acres Applied For
***For one year ending on June 30th

Oct. 2019

Acres Passed for Seed Certification 2014 - 2019

Oregon Seed Certification Service, Oregon State University Extension Service

CROP		2019	2018	2017	2016	2015	2014
GRASS CROPS	Public	779	708	595	595	531	758
(Bermudagrass, Blue wildrye,	Private and OECD	672	895	715	592	471	138
Timothy, Brome, Sudangrass,	Experimental	46	34	74	59	7	0
Festulolium, Wheatgrasses)	***Total Acres Other Grass Crops***	**1,497**	**1,637**	**1,384**	**1,246**	**1,009**	**896**
OTHER	Public	95	93	212	56	569	67
LEGUME CROPS	Private and OECD	302	437	475	157	0	0
(Little burnet, Vetches,	Experimental	66	72	0	63	0	35
Field pea, Chickpea, Lentil)	***Total Acres Other Legumes***	**463**	**602**	**687**	**276**	**569**	**102**
OTHER CROPS	Public	6	0	7	5	5	97
(Radish, Plantain, Kale, Chicory	Private and OECD	3,850	5,848	4,870	4,551	4,107	11,508
Corn, Sunflower, Meadowfoam, Turnip,	Experimental	20	169	120	296	321	49
Rapes, Forage kochia, Flax, Mustard)	***Total Acres of Other Crops***	**3,876**	**6,017**	**4,997**	**4,852**	**4,433**	**11,654**
POTATO	Public	788	798	842	1,130	1,134	1,072
	Private	1,895	2,043	2,274	1,722	1,672	1,840
	Experimental	0	4	21	1	27	52
	Total Acres of Potatoes	**2,683**	**2,845**	**3,137**	**2,853**	**2,833**	**2,964**
	Winter Test (# of Seed lots)	*	*	134	139	150	161
TOTAL ACREAGE OF:	***All Crops Certified***	**229,626**	**235,145**	**236,660**	**246,669**	**248,643**	**251,093**
	Public Varieties	**16,008**	**17,451**	**18,201**	**21,631**	**24,339**	**26,546**
	Private and OECD Varieties	**211,162**	**213,083**	**210,479**	**214,606**	**216,661**	**216,218**
	Experimental Varieties	**2,283**	**4,466**	**7,851**	**10,330**	**7,502**	**7,725**
	Establishing Crop History**	**238**	**336**	**480**	**896**	**483**	**877**
	Modified Land History**	**1,303**	**1,339**	**2,605**	**1,298**	**1,777**	**2,434**
	Pre-Variety Germplasm	**173**	**145**	**129**	**102**	**141**	**604**
TOTALS FOR	***# Requests\# Separate Co.'s***	*	2,598/26	2,497/27	2,404/29	2,133/34	1,956/32
MIXTURES & BLENDS	***No. of Blends\# Companies***	*	23/6	17/9	32/11	49/12	62/18
	Pounds of Blends Certified	*	833,513	416,828	1,083,471	1,978,742	2,835,456
	No. of Mixtures\# Companies	*	2,575/26	2,480/26	2,372/26	2,084/27	1,894/26
	Pounds of Mixtures Certified	*	59,807,754	58,432,115	50,552,052	42,463,944	39,312,421
PRE-VARIETY							
GERMPLASM	G0 Collections (species/sites)	0	0	0	0/0	0/0	0/0
TOTALS	***Total Acres of P.V.G.***	**173**	**145**	**129**	**102**	**141**	**604**
OECD***	***Pounds tagged***	26,814,142	26,475,659	26,496,224	33,136,947	43,979,742	46,663,596
TOTALS	***No. of lots tagged***	1,017	1,038	995	1,246	2,025	2,274
	No. varieties tagged	229	227	239	258	260	279
	Foreign lots received in OR.	83	74	90	101	121	126

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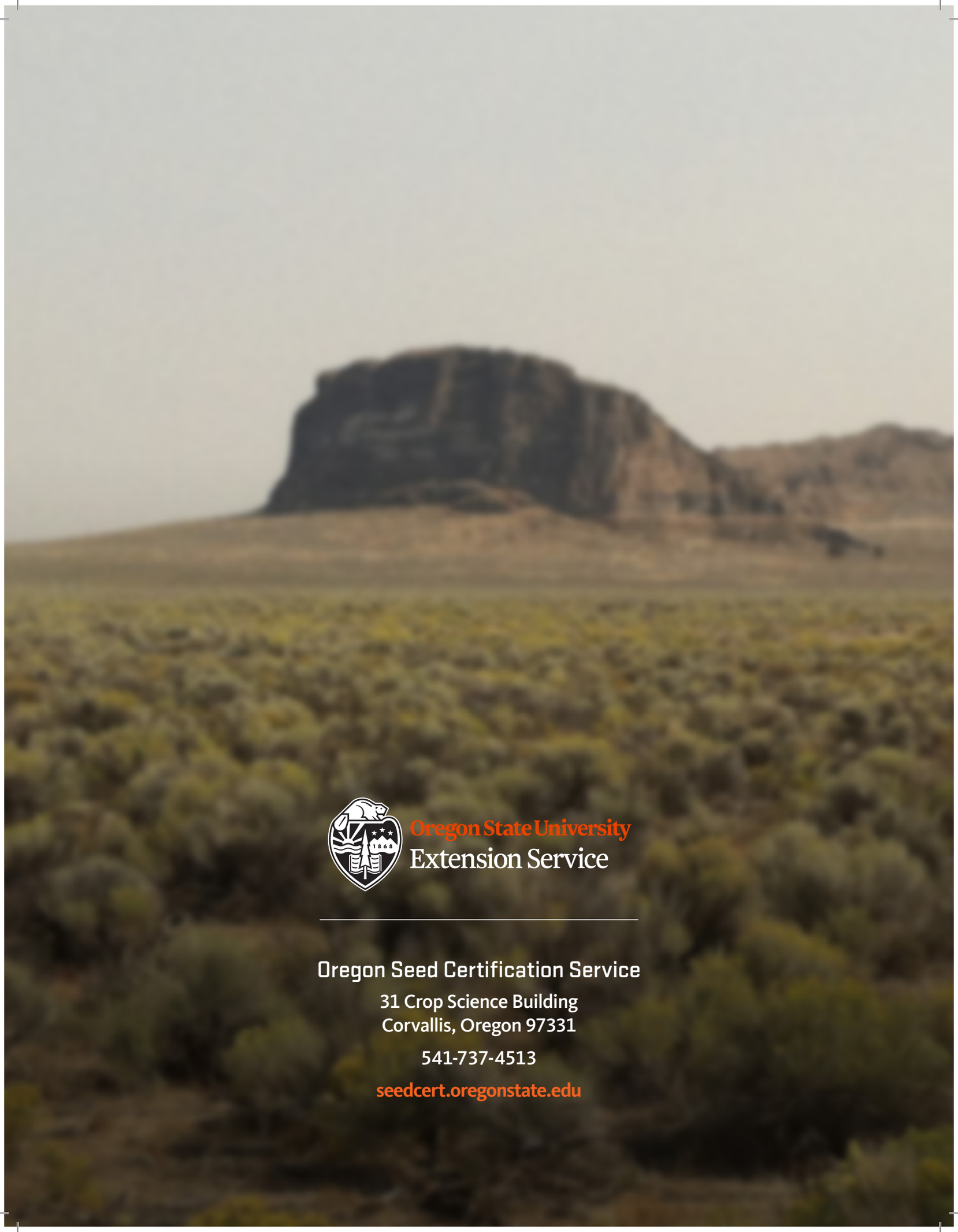

Oregon State University
Extension Service

Oregon Seed Certification Service

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