

59th ANNUAL WA COMMERCIAL SEED LOT TRIAL

June 2022

Cooperators:

WASHINGTON STATE UNIVERSITY

www.potatoes.wsu.edu

Departments of Horticulture, Plant Pathology & Cooperative Extension

WASHINGTON STATE POTATO COMMISSION

www.potatoes.com

WASHINGTON STATE POTATO FOUNDATION

WASHINGTON STATE DEPARTMENT OF AGRICULTURE

KEY TO FLAGS

MOSAIC: Yellow Flag (see description below in comment section)
BLACKLEG: Red Flag
LEAFROLL: Orange Flag

WHITE FLAGS (code to abbreviations)
Cal: Calico
Chem/Herb: Seed-borne herbicide carryover/chemical damage
PLO: Phytoplasma such as Witches broom, Haywire, Purple Top, BLTVA
VM, OT, OV: Variety Mix, Off-Type, Off-Type Variety

Comments:

Variety, seed grower, and source (state) is provided solely by the seed receiver. We transfer that information to this book and save the original tags. Please contact Mark Pavek with any concerns or changes.

There should be a plant every 10-12 inches. Exceptions: top of bottom of lot where planter ran out of seed, seed tubers too large for planter, or plant did not emerge. You may dig for seed pieces.

Lots are 2 rows wide each by 100 feet in length (200 ft total).

2022 EXCEPTION: ROWS 1-8 ARE EACH ONE ROW LOTS (small sample size, very few tubers submitted)

Plants were VISUALLY read, unless otherwise indicated. PVY test kits are used often.

MOSAIC does not necessarily mean the plant has PVY; rather, it is expressing symptoms that are commonly associated with PVY infection. It is likely, however, that those plants flagged with mosaic flags are infected with PVY. Moreover, PVY was confirmed in some flagged plants via an in-field test kit. PVS may be flagged as Mosaic.

NOTE: ALL PLANTS expressing visible symptoms were flagged (in the past, we never flagged more than 10 infected plants; the seed lot was recorded as having “Many”).

Additional copies may be obtained from the Washington State Potato Commission, 108 Interlake RD, Moses Lake, WA 98837, (509)765-8845; or from Dr. Mark Pavek, Washington State University, PO Box 646414, Pullman, WA 99164-6414 (509)335-6861. Electronic copies will also be available at potatoes.wsu.edu.

WSU Potato Field Day – Thursday June 23, 2022

Located at WSU Othello Research Unit – 1471 W Cox Rd, Othello
(4.5 miles east of Hwy. 26/17 Junction, On Booker Rd, ¼ Mile South of Hwy. 26)

8:30–8:55 am Coffee and donuts

8:55-9:00 am Sponsors recognition

9:00-9:15 am **Dog demo: A black Lab, Zora, will sniff out PVY**, *Andrea Parish* - Nose Knows Scouting

9:15-9:20 am **Potato Virus Y Demo Introduction**, *Mark Pavek* – WSU Pullman, *Jonathan Whitworth* (USDA-ARS, Idaho) *Nina Zidack* (MSU, Bozeman) and *Alex Karasev*– UI, Moscow

9:20-10:00 am **Commercial Seed Lot Trial and Potato Virus Y Demo Interactive Viewing**, *Mark Pavek* – WSU Pullman, *Jonathan Whitworth* (USDA-ARS, Idaho) *Nina Zidack* (MSU, Bozeman) and *Alex Karasev*– UI, Moscow

Concurrent Session I: Potato Cultural Management Practices Field Tour

10:10 **Promising chip and specialty selections from the Tri-state Breeding Program**
Vidyasagar “Sagar” Sathuvalli – OSU, Hermiston

10:25 **Breeding for Columbia root-knot nematode resistance**
Max Feldman– USDA-ARS, Prosser

10:40 **Ongoing potato physiology trials and program update**
Jacob Blauer – WSU, Pullman

10:55 **Impact of planting date on physiological age and seed performance**
Morgan Southern and Jacob Blauer – WSU, Pullman

11:10 **Role of seed wound healing intervals on field performance and environmental factors regulating periderm development** *Conor Buckley and Jacob Blauer* – WSU, Pullman

11:25 **Maximizing economic return by optimizing seed management practices for potato**
Alexa Hintze, Zach Holden, Rudy Garza, Vito Cantu, and Mark Pavek – WSU, Pullman & Othello

11:40 **Long season varieties: nitrogen application timing, potato canopy growth, and crop maturity**
Mark Pavek, Jacob Meeuwsen, Zach Holden, Rudy Garza, Vito Cantu – WSU, Pullman

11:55 am – 1:00 pm **HOSTED LUNCH**

Concurrent Session II: Potato Pest Management Field Tour

10:00 **Potato Virus Y strains circulating in the PNW across the past 10-11 years**
Alex Karasev– Univ. of Idaho, Moscow

10:20 **Solutions for Potato Virus Y control**
Jonathan Whitworth – USDA-ARS, Aberdeen, ID

10:40 **Alternative methods to initiate sprouting in potatoes to facilitate PVY testing.**
Nathan Gelles and Nora Olsen – Univ. of Idaho, Kimberly

11:00 **Classification of potato pathogenic and non-pathogenic strains of *Verticillium dahliae* with hyperspectral images** *Sudha Upadhaya, C. Zhang, S. Sankaran, T. Paulitz, and D. Wheeler* – WSU

11:20 **Control of Colorado potato beetle**
Tim Waters – WSU, Benton/Franklin Counties

11:40 **Potato mop-top virus in Washington seed lots**
Kylie Swisher Grimm, R. Quick, L. Cimrhakl, C. Brown, Z. Holden, R. Garza, V. Cantu, & M. Pavek

12:00 pm – 1:00 pm **HOSTED LUNCH**
CCA and pesticide recertification credits have been applied for (WA, OR, & ID)

*Thank to our 2022 Field Day Sponsors!
We appreciate your support!*

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NW FARM CREDIT SERVICES

**AG WORLD SUPPORT
SYSTEMS**

GROWER CHAMPION

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WASHINGTON STATE POTATO FOUNDATION

WASHINGTON STATE POTATO COMMISSION

WASHINGTON STATE UNIVERSITY POTATO GROUP

***Additional thanks to our 2022 seed lot readers and trainees!
We appreciate your efforts!***

Thanks to everyone behind the scenes:

Jake Blauer
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Montana Potato Seed Certification
Oregon State Department of Ag
Washington State Department of Ag
Washington State Potato Commission
Washington State University
Lamb Weston
McCain Foods Inc
Simplot Raw Products

	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting	Mosaic	Blackleg	
Row	W/M/E	Variety	Seed Receiver	Seed Grower	Source	Date	Yellow Flag	Red Flag	Comments and/or Other Flags
1	I	Umatilla	AgriNW - Boardman	Stoddard	ID	29-Mar	-	-	
2	I	Umatilla	AgriNW - Boardman	Beutler	ID	29-Mar	-	-	
3	I	Clearwater	AgriNW - Boardman	Beutler	ID	29-Mar	1	-	1 - Chemical
4	I	Umatilla	AgriNW - Boardman	Bill Buyan	MT	29-Mar	2	-	
5	I	Clearwater	AgriNW - Boardman	Stoddard	ID	29-Mar	-	-	3 - Variety Mix
6	I	Ranger	AgriNW - Boardman	Kimm Bros	MT	29-Mar	-	-	
7	I	Shepody	AgriNW - Boardman	Foth, Matt	MT	29-Mar	-	-	
8	I	Clearwater	AgriNW - Boardman	Schutter	MT	29-Mar	-	-	
9-10	I	Clearwater	AgriNW - Boardman	Jorgensen	ID	29-Mar	-	-	
11-12	I	Clearwater	Friehe Farms	Tobol Farms	MT	29-Mar	-	-	
13-14	I	Clearwater	Friehe Farms	EPG	CAN	29-Mar	-	-	
15-16	I	Clearwater	Friehe Farms	Spring Creek	ID	29-Mar	-	-	
17-18	I	Clearwater	Friehe Farms	Schutter	MT	29-Mar	-	-	
19-20	I	Clearwater	Friehe Farms	Droge Farms	MT	29-Mar	-	-	
21-22	I	Clearwater	Skone and Connors	Starkel Farms	MT	29-Mar	-	-	
23-24	I	Clearwater	Skone and Connors	Beutler	ID	29-Mar	6	-	
25-26	I	Clearwater	Skone and Connors	Bedlington	WA	29-Mar	-	-	
27-28	I	Clearwater	Skone and Connors	Foth Farms	MT	29-Mar	-	-	
29-30	I	Norkotah 278	Skone and Connors	Cotton Seed	MT	29-Mar	1	-	
31-32	I	Norkotah 296	Skone and Connors	Cal-Ore	OR	29-Mar	-	-	
33-34	I	Norkotah C-3	Skone and Connors	Skyline Farms	ID	29-Mar	-	-	
35-36	I	Norkotah	Skone and Connors	SHB	WA	29-Mar	1	-	
37-38	I	No tag	Skone and Connors	No tag	NA	29-Mar	-	-	
37-38	II	Pacific Russet	Skone and Connors	Real Potatoes	CAN	29-Mar	1	-	3 - Variety Mix
39-40	I	Umatilla	Skone and Connors	3 Rivers	WA	29-Mar	1	-	
39-40	II	Umatilla	Skone and Connors	Foth Farms	MT	29-Mar	-	-	
41-42	I	Alturas	Elite Seed	Lake, Jack	MT	29-Mar	-	-	
41-42	II	Atlantic	Elite Seed	Cal-Ore	OR	29-Mar	-	-	
43-44	I	Clearwater	Elite Seed	Lake, Jack	MT	29-Mar	-	-	
43-44	II	Chieftain	Elite Seed	Jorgensen	ID	29-Mar	1	-	
45-46	I	Clearwater	Elite Seed	Droge Farms	MT	29-Mar	-	-	
45-46	II	Dakota	Elite Seed	Cranney	ID	29-Mar	-	-	

* Tier I = South, II = Middle, III = North

Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting	Mosaic	Blackleg	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source	Date	Yellow Flag	Red Flag	
47-48	I	Ivory	Elite Seed	Starkel Farms	MT	29-Mar	-	-	
47-48	II	Dakota	Elite Seed	Stoddard	ID	29-Mar	1	-	
49-50	I	Ivory	Elite Seed	Arcadia	MT	29-Mar	-	1	
49-50	II	Norkotah	Elite Seed	Arnold Farms	ID	29-Mar	17	-	
51-52	I	Norkotah 278	Elite Seed	Cottom Seed	MT	29-Mar	-	-	
51-52	II	Lamoka	Elite Seed	Cal-Ore	OR	29-Mar	-	1	
53-54	I	Norkotah 296	Elite Seed	Arnold Farms	ID	29-Mar	1	-	1 - Variety Mix
53-54	II	Norkotah	Elite Seed	SHB	WA	29-Mar	2	-	
55-56	I	Ranger	Elite Seed	Triple R	ID	29-Mar	1	-	
55-56	II	Ranger	Elite Seed	Cottom Seed	MT	29-Mar	-	-	
57-58	I	Ranger	Elite Seed	Fleming	MT	29-Mar	-	-	
57-58	II	Ranger	Elite Seed	Foth Farms	MT	29-Mar	-	-	
59-60	I	Ranger	Elite Seed	Jorgensen	ID	29-Mar	11	-	
59-60	II	Ranger	Elite Seed	Lake, Jack	MT	29-Mar	-	-	
61-62	I	Shepody	Elite Seed	Foster	ID	29-Mar	8	-	
61-62	II	Alturas	AgriNW - Eureka	Haarsma	CAN	29-Mar	-	-	
63-64	I	Alturas	AgriNW - Eureka	Big Sky Seed	MT	29-Mar	1	-	
63-64	II	Umatilla	AgriNW	Gallatin	MT	29-Mar	-	-	
65-66	I	Clearwater	AgriNW - Eureka	Big Sky Seed	MT	29-Mar	-	1	
65-66	II	Umatilla	AgriNW - Eureka	Foth, Matt	MT	29-Mar	1	-	
67-68	I	Umatilla	AgriNW - Eureka	Haarsma	CAN	29-Mar	-	-	
67-68	II	Ranger	AgriNW	Kimm, Martin	MT	29-Mar	-	-	
69-70	I	Ivory	AgriNW	Streich	MT	29-Mar	-	-	
69-70	II	Ranger	AgriNW - McNary	Kimm, Martin	MT	29-Mar	-	-	
71-72	I	Clearwater	AgriNW	Foth, Matt	MT	29-Mar	-	-	
71-72	II	Ranger	AgriNW	Hensley, Tim	MT	29-Mar	-	-	
73-74	I	Clearwater	AgriNW - McNary	Foth, Matt	MT	29-Mar	-	-	
73-74	II	Clearwater	AgriNW - Eureka	Groot Farms	CAN	29-Mar	-	-	
75-76	I	Clearwater	AgriNW - McNary	Kimm, Bill	MT	29-Mar	-	-	
75-76	II	Clearwater	AgriNW	Schutter	MT	29-Mar	-	-	
77-78	I	Clearwater	AgriNW - McNary	Beutler	ID	29-Mar	4	-	
77-78	II	Umatilla	AgriNW - McNary	Spring Creek	MT	29-Mar	1	-	

* Tier I = South, II = Middle, III = North

Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting Date	Mosaic Yellow Flag	Blackleg Red Flag	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source				
79-80	I	Umatilla	AgriNW - McNary	Schutter, Nick	MT	29-Mar	-	-	
79-80	II	Umatilla	AgriNW	Foth, Matt	MT	29-Mar	3	-	
81-82	I	Ivory	AgriNW	Arcadia	MT	29-Mar	-	-	
81-82	II	Clearwater	AgriNW	Spring Creek	MT	29-Mar	-	-	
83-84	I	Alturas	Alford Farms	Foster	ID	29-Mar	3	-	
83-84	II	Alturas	Alford Farms	Droge Farms	MT	29-Mar	1	-	
85-86	I	Unknown	Alford Farms	Elite Seed	WA	29-Mar	-	-	
85-86	II	Alturas	Alford Farms	Crapo	ID	29-Mar	-	-	1 - Variety Mix
87-88	I	Clearwater	Alford Farms	Vanhuizen	MT	29-Mar	-	-	
87-88	II	Clearwater	Alford Farms	Neibaur	ID	29-Mar	1	-	
87-88	III	Alturas	Alford Farms	Jorgensen	ID	29-Mar	2	-	
89-90	I	Clearwater	Alford Farms	Crapo	ID	29-Mar	-	-	
89-90	II	Ivory	Alford Farms	Starkel Farms	MT	29-Mar	-	2	19 - Chemical
89-90	III	Ranger	Alford Farms	Lake, Dan	MT	29-Mar	1	-	
91-92	I	Ranger	Alford Farms	Cotton Seed	MT	29-Mar	-	-	
91-92	II	Ranger	Alford Farms	Gilbert Farms	ID	29-Mar	2	-	
91-92	III	Ranger	Alford Farms	Neibaur	ID	29-Mar	-	-	
93-94	I	Ranger	Alford Farms	Kandler Farms	ID	29-Mar	1	-	
93-94	II	Shepody	Alford Farms	Foth Farms	MT	29-Mar	2	-	
93-94	III	Shepody	Alford Farms	Foster	ID	29-Mar	7	-	
95-96	I	Umatilla	Alford Farms	Kandler Farms	ID	29-Mar	2	-	
95-96	II	Shepody	Alford Farms	Gilbert Farms	ID	29-Mar	22	-	
95-96	III	Shepody	Alford Farms	Belly River	CAN-AB	29-Mar	-	-	
97-98	I	Umatilla	Alford Farms	Kimm, Bill	MT	29-Mar	-	-	
97-98	II	Umatilla (not as listed)	Alford Farms	Arcadia	MT	29-Mar	-	-	1 - Variety Mix
97-98	III	Umatilla	Alford Farms	Beutler	ID	29-Mar	1	-	1 - Variety Mix
99-100	I	Hamlin	Alford Farms	CSS Farms (Holbrook)	ID	29-Mar	-	-	1 - Chemical
99-100	II	Umatilla	Alford Farms	Dykema	MT	29-Mar	-	1	
99-100	III	Umatilla	Alford Farms	Vanhuizen	MT	29-Mar	-	-	
101-102	I	Ivory	Alford Farms	Arcadia	MT	29-Mar	-	-	
101-102	II	Clearwater	Alford Farms	Kimm, Bill	MT	29-Mar	-	-	
101-102	III	Alturas	MHB	LHF	MT	29-Mar	-	-	

* Tier I = South, II = Middle, III = North

Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting Date	Mosaic Yellow Flag	Blackleg Red Flag	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source				
103-104	I	Alturas	MHB	Telford	ID	29-Mar	6	-	
103-104	II	Alturas	MHB	Telford	ID	29-Mar	11	-	
103-104	III	Alturas	MHB	Lake, Jack	MT	29-Mar	1	-	
105-106	I	Challenger	Kehl Farms	Spring Creek	MT	29-Mar	-	-	
105-106	II	Umatilla	Kehl Farms	Gallatin Valley Farms	MT	29-Mar	-	-	
105-106	III	Umatilla	Kehl Farms	Arcadia	MT	29-Mar	-	-	
107-108	I	Umatilla	Kehl Farms	Thompson Seed	NE	29-Mar	-	-	
107-108	II	Alturas	Kehl Farms	Starkel Farms	MT	29-Mar	-	-	
107-108	III	Alturas	Kehl Farms	Telford	ID	29-Mar	5	-	
109-110	I	Alturas	Kehl Farms	London Hills Farm	MT	29-Mar	-	-	
109-110	II	Clearwater	Skone and Connors	Cal-Ore	OR	12-Apr	-	-	1 - Chemical
109-110	III	Clearwater	Skone and Connors	Miller, Shane	ID	12-Apr	-	-	
111-112	I	Norkotah 296	Skone and Connors	Cal-Ore	OR	12-Apr	-	-	
111-112	II	Clearwater	Skone and Connors	Beutler	ID	12-Apr	7	-	
111-112	III	Clearwater	Skone and Connors	Bedlington	WA	12-Apr	-	-	
113-114	I	Norkotah C-3	Skone and Connors	Cotton Seed	MT	12-Apr	-	-	
113-114	II	Norkotah C-3	Skone and Connors	Skyline Farms	ID	12-Apr	-	-	
113-114	III	Ranger	Skone and Connors	Canyon View Farms	MT	12-Apr	-	-	
115-116	I	Umatilla	Skone and Connors	SHB	WA	12-Apr	-	-	
115-116	II	Umatilla	Skone and Connors	Bedlington	WA	12-Apr	-	-	
115-116	III	Burbank	Skone and Connors	Starkel Farms	MT	12-Apr	-	1	
117-118	I	Burbank	AgriNW	No tag	na	12-Apr	-	-	
117-118	II	Burbank	AgriNW - Eureka	Dyk	MT	12-Apr	-	-	
117-118	III	Burbank	AgriNW - Eureka	Groot Farms	CAN-AB	12-Apr	-	-	
119-120	I	Umatilla	AgriNW - McNary	Kimm, Bill	MT	12-Apr	-	-	
119-120	II	Burbank	AgriNW - Boardman	Schutter	MT	12-Apr	-	-	
119-120	III	Burbank	AgriNW - McNary	Gallatin Valley Farms	MT	12-Apr	-	-	
121-122	I	Umatilla	AgriNW - PE	Arcadia	MT	12-Apr	-	-	
121-122	II	Burbank	AgriNW - McNary	Kimm, Martin	MT	12-Apr	-	-	
121-122	III	Umatilla	AgriNW - McNary	Coles Corner	MT	12-Apr	-	-	
123-124	I	Burbank	AgriNW - McNary	Schutter	MT	12-Apr	-	-	
123-124	II	Burbank	AgriNW - McNary	Kimm, Bill	MT	12-Apr	-	-	
123-124	III	Burbank	AgriNW - McNary	Dyke, Dan	MT	12-Apr	-	-	
125-126	I	Umatilla	AgriNW - PE	Spring Creek	MT	12-Apr	2	-	
125-126	II	Umatilla	AgriNW - PE	Spring Creek	MT	12-Apr	-	-	
125-126	III	Umatilla	AgriNW - PE	Stoddard	ID	12-Apr	-	-	

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Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting	Mosaic	Blackleg	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source	Date	Yellow Flag	Red Flag	
127-128	I	Burbank	AgriNW - Boardman	Gallatin Valley Farms	MT	12-Apr	-	-	
127-128	II	Burbank	AgriNW - Boardman	Spring Creek	MT	12-Apr	-	-	
127-128	III	Umatilla	AgriNW - PE	Dykema	MT	12-Apr	-	-	
129-130	I	Burbank	AgriNW - Boardman	Stoddard	ID	12-Apr	-	-	
129-130	II	Umatilla	Friehe Farms	Schutter	MT	12-Apr	-	-	
129-130	III	Burbank	Friehe Farms	Lake Seed	MT	12-Apr	-	-	
131-132	I	Alturas	Weber Farms	Telford	ID	12-Apr	-	-	
131-132	II	Umatilla	Friehe Farms	Haarsma	CAN	12-Apr	-	-	
131-132	III	Burbank	Friehe Farms	Haarsma	CAN	12-Apr	-	-	
133-134	I	No tag	Weber Farms	No tag	na	12-Apr	-	-	
133-134	II	Clearwater	Weber Farms	SHB	WA	12-Apr	-	-	
133-134	III	Clearwater	Weber Farms	Tobol Farms	MT	12-Apr	-	-	
135-136	I	Alturas	Weber Farms	Starkel Farms	MT	12-Apr	1	-	
135-136	II	Clearwater	Weber Farms	Telford	ID	12-Apr	-	-	
135-136	III	Alturas	Weber Farms	Starkel Farms	MT	12-Apr	-	-	
137-138	I	Umatilla	Weber Farms	SHB	WA	12-Apr	-	-	
137-138	II	Burbank	Weber Farms	Kimm Bros	MT	12-Apr	-	-	
137-138	III	Clearwater	Weber Farms	Gallatin Valley Farms	MT	12-Apr	-	-	
139-140	I	Umatilla	Weber Farms	Tobol Farms	MT	12-Apr	1	-	
139-140	II	Alturas	Weber Farms	Starkel Farms	MT	12-Apr	4	-	
139-140	III	Alturas	Weber Farms	SHB	WA	12-Apr	-	-	
141-142	I	Umatilla	Kehl Farms	Weidenaar Farms	MT	12-Apr	-	-	
141-142	II	Clearwater	Kehl Farms	Telford	ID	12-Apr	-	-	
141-142	III	Umatilla	Kehl Farms	Schutter	MT	12-Apr	-	-	
143-144	I	Umatilla	Integrity Ag	Spring Creek	MT	12-Apr	-	-	
143-144	II	Umatilla	Integrity Ag	Weidenaar Farms	MT	12-Apr	-	-	
143-144	III	Umatilla	Kehl Farms	Streich	MT	12-Apr	-	-	
145-146	I	Umatilla	Integrity Ag	Schutter	MT	12-Apr	-	-	
145-146	II	Umatilla	Integrity Ag	Kandler Farms	ID	12-Apr	2	-	1 - Calico
145-146	III	AOR08540-1	WSU Experimental	not listed	na	12-Apr	-	-	3 - Variety Mix
147-148	I	Dark Red Norland	Morrison Farms	Pieper Farms	MN	26-Apr	-	-	
147-148	II	Chieftain	Morrison Farms	Van Erkle	MN	26-Apr	-	-	
147-148	III	Red Endeavor	Morrison Farms	Cascade Farms	WA	26-Apr	-	-	
149-150	I	Chieftain	Morrison Farms	Ebe Farms	WA	26-Apr	-	-	
149-150	II	Chieftain	Morrison Farms	Pacific Potato	CAN	26-Apr	-	-	
149-150	III	Chieftain	Morrison Farms	Cascade Farms	WA	26-Apr	1	-	

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Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting Date	Mosaic Yellow Flag	Blackleg Red Flag	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source				
151-152	I	Jelly	Smith	Gem Valley	ID	26-Apr	-	-	
151-152	II	Whitney	Morrison Farms	Kroeker	CAN	26-Apr	-	-	
151-152	III	Chieftain	Morrison Farms	Ebe Farms	WA	26-Apr	-	-	
153-154	II	Constance	Smith	Ebe Farms	WA	26-Apr	-	-	
153-154	III	Actrice	Morrison Farms	Ebe Farms	WA	26-Apr	-	-	
155-156	II	Columba	Morrison Farms	Norbest Farms	CAN	26-Apr	-	-	
155-156	III	Imola	Morrison Farms	Ebe Farms	WA	26-Apr	-	-	
157-158	II	Clearwater	Alford Farms	Beutler	ID	26-Apr	6	-	
157-158	III	Clearwater	Alford Farms	Ricks	ID	26-Apr	-	-	
159-160	II	Ivory	Alford Farms	Foster	ID	26-Apr	2	4	
159-160	III	Clearwater	Alford Farms	Foster	ID	26-Apr	4	-	
161-162	II	Ivory	Alford Farms	CSS Farms (Holbrook)	ID	26-Apr	-	-	
161-162	III	Ranger	Alford Farms	Ricks	ID	26-Apr	1	-	
163-164	II	Clearwater	WHB	Foth Farms	MT	26-Apr	-	-	
163-164	III	Clearwater	WHB	Schutter	MT	26-Apr	-	-	
165-166	II	Clearwater	WHB	Streich	MT	26-Apr	-	-	
165-166	III	Ranger	WHB	Scoular	ID	26-Apr	-	-	
167-168	II	Ranger	WHB	SHB	WA	26-Apr	-	-	
167-168	III	Ranger	WHB	Lake Seed	MT	26-Apr	1	-	
169-170	I	Umatilla	WHB	SHB	WA	26-Apr	-	-	1 - Chemical
169-170	II	Umatilla	WHB	Streich	MT	26-Apr	-	-	
169-170	III	Umatilla	WHB	Schutter	MT	26-Apr	-	-	
171-172	I	Burbank	Skone and Connors	Starkel Farms	MT	26-Apr	-	-	
171-172	II	Mountain Gem	Skone and Connors	Teton	ID	26-Apr	1	-	
171-172	III	Clearwater	Skone and Connors	Starkel Farms	MT	26-Apr	-	-	
173-174	I	Burbank	Skone and Connors	SHB	WA	26-Apr	-	-	1 - Chemical
173-174	II	Burbank	Skone and Connors	Lake Seed	MT	26-Apr	-	-	
173-174	III	Norkotah 296	Skone and Connors	Teton	ID	26-Apr	-	-	
175-176	I	Clearwater	Elite Seed	Foth Farms	MT	26-Apr	-	-	
175-176	II	Challenger	Elite Seed	Spring Creek	MT	26-Apr	-	-	
175-176	III	Clearwater	Elite Seed	Starkel Farms	MT	26-Apr	-	-	
177-178	I	Alturas	Elite Seed	London Hills Farm	MT	26-Apr	-	-	
177-178	II	Clearwater	Elite Seed	Spring Creek	MT	26-Apr	-	-	
177-178	III	Umatilla	Elite Seed	Schutter	MT	26-Apr	-	-	

* Tier I = South, II = Middle, III = North

Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting Date	Mosaic Yellow Flag	Blackleg Red Flag	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source				
179-180	I	Burbank	AgriNW - Eureka	Schutter	MT	26-Apr	-	-	
179-180	II	Clearwater	Elite Seed	Macy Farms	OR	26-Apr	-	-	
179-180	III	Burbank	Elite Seed	Spring Creek	MT	26-Apr	-	-	1 - Chemical
181-182	I	Burbank	AgriNW - Eureka	Stoddard	ID	26-Apr	-	-	
181-182	II	Burbank	Elite Seed	Kimm Bros	MT	26-Apr	-	-	
181-182	III	Clearwater	Elite Seed	Jorgensen	ID	26-Apr	-	-	
183-184	I	Burbank	AgriNW	Dykema	MT	26-Apr	-	-	
183-184	II	Burbank	AgriNW	Gallatin Valley Farms	MT	26-Apr	-	-	
183-184	III	Challenger	Elite Seed	Gem Valley	ID	26-Apr	-	-	
185-186	I	Burbank	AgriNW	Schutter	MT	26-Apr	-	-	
185-186	II	Burbank	AgriNW - McNary	Dykema	MT	26-Apr	-	-	1 - Chemical
185-186	III	Burbank	AgriNW - Eureka	Haarsma	CAN	26-Apr	-	-	
187-188	I	Burbank	WHB	SHB	WA	26-Apr	-	-	2 - Chemical
187-188	II	Burbank	WHB	Lake Seed	MT	26-Apr	3	-	
187-188	III	Burbank	AgriNW - McNary	Buyan	MT	26-Apr	-	-	
189-190	I	Burbank	WHB	Schutter	MT	26-Apr	-	-	
189-190	II	Burbank	WHB	Cotton Seed	MT	26-Apr	-	-	
189-190	III	Clearwater	WSU Experimental	na	na	26-Apr	-	-	
191-192	I	Alturas	Alford Farms	Gibbs	ID	26-Apr	-	-	
191-192	II	Alturas	Alford Farms	Ricks	ID	26-Apr	2	-	
191-192	III	Alturas	Alford Farms	Gilbert Farms	ID	26-Apr	-	-	
193-194	I	Burbank	Saddle View Farms	Lake, Dan	MT	26-Apr	1	-	12 - Chemical
193-194	II	Burbank	Saddle View Farms	SHB	WA	26-Apr	-	-	1 - Chemical
193-194	III	Burbank	Saddle View Farms	Penfold, Wyatt	ID	26-Apr	2	-	
195-196	I	Teton	WHB	Kamps Seed Farm	MT	26-Apr	-	-	
195-196	II	Burbank	WHB	Streich	MT	26-Apr	-	-	
195-196	III	Burbank	WHB	Reynolds Farm	ID	26-Apr	4	-	1 - Variety Mix
197-198	I	Burbank	WHB	Holbrook	MT	26-Apr	-	-	
197-198	II	Burbank	WHB	Stoddard	ID	26-Apr	-	-	
197-198	III	Roko	WHB	Sunnycrest Seed Farm	CAN	26-Apr	-	1	
199-200	I	Burbank	MHB	Telford	ID	26-Apr	-	-	
199-200	II	Nordona	MHB	Skyline Farms	ID	26-Apr	-	-	
199-200	III	Burbank	MHB	Streich	MT	26-Apr	-	-	
201-202	I	Burbank	MHB	Foth Farms	MT	26-Apr	-	-	
201-202	II	Burbank	MHB	Spring Creek	MT	26-Apr	-	-	
201-202	III	Burbank	MHB	Schutter	MT	26-Apr	-	-	

* Tier I = South, II = Middle, III = North

Row	Tier*	2022 Washington State Commercial Seed Lot Trial				Planting Date	Mosaic Yellow Flag	Blackleg Red Flag	Comments and/or Other Flags
	W/M/E	Variety	Seed Receiver	Seed Grower	Source				
203-204	I	Alturas	WSU Experimental	NA		26-Apr	5	-	
203-204	II	Burbank	WSU Experimental	NA		26-Apr	-	-	
203-204	III	No tag	NA	NA		26-Apr	-	-	66 - Chemical
205-206	I	Burbank	Skone and Connors	Dillon	MT	26-Apr	-	-	
205-206	II	Norkotah C-3	Skone and Connors	Skyline Farms	ID	26-Apr	2	-	
205-206	III	Norkotah C-3	Skone and Connors	Cottom Seed	MT	26-Apr	-	-	
207-208	I	Clearwater	Kehl Farms	White, Matt	MT	26-Apr	-	-	
207-208	II	Burbank	Kehl Farms	Macy Farms	OR	26-Apr	-	-	
207-208	III	Burbank	Kehl Farms	Foth Farms	MT	26-Apr	-	-	
209-210	I	Burbank	Kehl Farms	Foster	ID	26-Apr	8	-	
209-210	II	Umatilla	Kehl Farms	NPS	CAN	26-Apr	-	-	
211-212	I	Ranger	WSU Experimental	NA		26-Apr	-	-	
211-212	II	Burbank	Kehl Farms	Arcadia	MT	26-Apr	-	-	

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2022 Washington State Commercial Seed Lot Trial

Appendix A

Sorted by Seed Receiver

Row	Tier I-III	Seed Receiver
63-64	II	AgriNW
67-68	II	AgriNW
69-70	I	AgriNW
71-72	II	AgriNW
71-72	I	AgriNW
75-76	II	AgriNW
79-80	II	AgriNW
81-82	II	AgriNW
117-118	I	AgriNW
183-184	II	AgriNW
183-184	I	AgriNW
185-186	I	AgriNW
81-82	I	AgriNW
1	I	AgriNW - Boardman
2	I	AgriNW - Boardman
3	I	AgriNW - Boardman
4	I	AgriNW - Boardman
5	I	AgriNW - Boardman
6	I	AgriNW - Boardman
7	I	AgriNW - Boardman
8	I	AgriNW - Boardman
9-10	I	AgriNW - Boardman
119-120	II	AgriNW - Boardman
127-128	II	AgriNW - Boardman
127-128	I	AgriNW - Boardman
129-130	I	AgriNW - Boardman
61-62	II	AgriNW - Eureka
63-64	I	AgriNW - Eureka
65-66	I	AgriNW - Eureka
65-66	II	AgriNW - Eureka
67-68	I	AgriNW - Eureka
73-74	II	AgriNW - Eureka
117-118	II	AgriNW - Eureka
117-118	III	AgriNW - Eureka
179-180	I	AgriNW - Eureka
181-182	I	AgriNW - Eureka
185-186	III	AgriNW - Eureka
69-70	II	AgriNW - McNary
73-74	I	AgriNW - McNary
75-76	I	AgriNW - McNary
77-78	I	AgriNW - McNary
77-78	II	AgriNW - McNary
79-80	I	AgriNW - McNary
119-120	III	AgriNW - McNary
119-120	I	AgriNW - McNary

Row	Tier I-III	Seed Receiver
121-122	II	AgriNW - McNary
121-122	III	AgriNW - McNary
123-124	III	AgriNW - McNary
123-124	II	AgriNW - McNary
123-124	I	AgriNW - McNary
185-186	II	AgriNW - McNary
187-188	III	AgriNW - McNary
121-122	I	AgriNW - PE
125-126	I	AgriNW - PE
125-126	II	AgriNW - PE
125-126	III	AgriNW - PE
127-128	III	AgriNW - PE
83-84	II	Alford Farms
83-84	I	Alford Farms
85-86	I	Alford Farms
85-86	II	Alford Farms
87-88	III	Alford Farms
87-88	II	Alford Farms
87-88	I	Alford Farms
89-90	I	Alford Farms
89-90	II	Alford Farms
89-90	III	Alford Farms
91-92	III	Alford Farms
91-92	II	Alford Farms
91-92	I	Alford Farms
93-94	I	Alford Farms
93-94	II	Alford Farms
93-94	III	Alford Farms
95-96	III	Alford Farms
95-96	II	Alford Farms
95-96	I	Alford Farms
97-98	I	Alford Farms
97-98	II	Alford Farms
97-98	III	Alford Farms
99-100	III	Alford Farms
99-100	II	Alford Farms
99-100	I	Alford Farms
101-102	I	Alford Farms
101-102	II	Alford Farms
157-158	II	Alford Farms
157-158	III	Alford Farms
159-160	III	Alford Farms
159-160	II	Alford Farms
161-162	II	Alford Farms
161-162	III	Alford Farms

2022 Washington State Commercial Seed Lot Trial

Appendix A

Sorted by Seed Receiver

Row	Tier I-III	Seed Receiver
191-192	III	Alford Farms
191-192	II	Alford Farms
191-192	I	Alford Farms
41-42	I	Elite Seed
41-42	II	Elite Seed
43-44	II	Elite Seed
43-44	I	Elite Seed
45-46	I	Elite Seed
45-46	II	Elite Seed
47-48	II	Elite Seed
47-48	I	Elite Seed
49-50	I	Elite Seed
49-50	II	Elite Seed
51-52	II	Elite Seed
51-52	I	Elite Seed
53-54	I	Elite Seed
53-54	II	Elite Seed
55-56	II	Elite Seed
55-56	I	Elite Seed
57-58	I	Elite Seed
57-58	II	Elite Seed
59-60	II	Elite Seed
59-60	I	Elite Seed
61-62	I	Elite Seed
175-176	III	Elite Seed
175-176	II	Elite Seed
175-176	I	Elite Seed
177-178	I	Elite Seed
177-178	II	Elite Seed
177-178	III	Elite Seed
179-180	III	Elite Seed
179-180	II	Elite Seed
181-182	II	Elite Seed
181-182	III	Elite Seed
183-184	III	Elite Seed
11-12	I	Friehe Farms
13-14	I	Friehe Farms
15-16	I	Friehe Farms
17-18	I	Friehe Farms
19-20	I	Friehe Farms
129-130	II	Friehe Farms
129-130	III	Friehe Farms
131-132	III	Friehe Farms
131-132	II	Friehe Farms
143-144	II	Integrity Ag

Row	Tier I-III	Seed Receiver
143-144	I	Integrity Ag
145-146	I	Integrity Ag
145-146	II	Integrity Ag
105-106	I	Kehl Farms
105-106	II	Kehl Farms
105-106	III	Kehl Farms
107-108	III	Kehl Farms
107-108	II	Kehl Farms
107-108	I	Kehl Farms
109-110	I	Kehl Farms
141-142	I	Kehl Farms
141-142	II	Kehl Farms
141-142	III	Kehl Farms
143-144	III	Kehl Farms
207-208	III	Kehl Farms
207-208	II	Kehl Farms
207-208	I	Kehl Farms
209-210	I	Kehl Farms
209-210	II	Kehl Farms
211-212	II	Kehl Farms
101-102	III	MHB
103-104	III	MHB
103-104	II	MHB
103-104	I	MHB
199-200	III	MHB
199-200	II	MHB
199-200	I	MHB
201-202	I	MHB
201-202	II	MHB
201-202	III	MHB
147-148	III	Morrison Farms
147-148	II	Morrison Farms
147-148	I	Morrison Farms
149-150	I	Morrison Farms
149-150	II	Morrison Farms
149-150	III	Morrison Farms
151-152	III	Morrison Farms
151-152	II	Morrison Farms
153-154	III	Morrison Farms
155-156	III	Morrison Farms
155-156	II	Morrison Farms
203-204	III	NA
193-194	I	Saddle View Farms
193-194	II	Saddle View Farms
193-194	III	Saddle View Farms

2022 Washington State Commercial Seed Lot Trial

Appendix B

Sorted by Seed Grower

Row	Tier I-III	Seed Grower
39-40	I	3 Rivers
49-50	I	Arcadia
81-82	I	Arcadia
97-98	II	Arcadia
101-102	I	Arcadia
105-106	III	Arcadia
121-122	I	Arcadia
211-212	II	Arcadia
49-50	II	Arnold Farms
53-54	I	Arnold Farms
25-26	I	Bedlington
111-112	III	Bedlington
115-116	II	Bedlington
95-96	III	Belly River
2	I	Beutler
3	I	Beutler
23-24	I	Beutler
77-78	I	Beutler
97-98	III	Beutler
111-112	II	Beutler
157-158	II	Beutler
63-64	I	Big Sky Seed
65-66	I	Big Sky Seed
4	I	Bill Buyan
187-188	III	Buyan
31-32	I	Cal-Ore
41-42	II	Cal-Ore
51-52	II	Cal-Ore
109-110	II	Cal-Ore
111-112	I	Cal-Ore
113-114	III	Canyon View Farms
147-148	III	Cascade Farms
149-150	III	Cascade Farms
121-122	III	Coles Corner
29-30	I	Cottom Seed
51-52	I	Cottom Seed
55-56	II	Cottom Seed
91-92	I	Cottom Seed
113-114	I	Cottom Seed
189-190	II	Cottom Seed
205-206	III	Cottom Seed
45-46	II	Cranney
85-86	II	Crapo
89-90	I	Crapo
99-100	I	CSS Farms (Holbrook)

Row	Tier I-III	Seed Grower
161-162	II	CSS Farms (Holbrook)
205-206	I	Dillon
19-20	I	Droge Farms
45-46	I	Droge Farms
83-84	II	Droge Farms
117-118	II	Dyk
123-124	III	Dyke, Dan
99-100	II	Dykema
127-128	III	Dykema
183-184	I	Dykema
185-186	II	Dykema
149-150	I	Ebe Farms
151-152	III	Ebe Farms
153-154	II	Ebe Farms
153-154	III	Ebe Farms
155-156	III	Ebe Farms
85-86	I	Elite Seed
13-14	I	EPG
57-58	I	Fleming
61-62	I	Foster
83-84	I	Foster
93-94	III	Foster
159-160	III	Foster
159-160	II	Foster
209-210	I	Foster
27-28	I	Foth Farms
39-40	II	Foth Farms
57-58	II	Foth Farms
93-94	II	Foth Farms
163-164	II	Foth Farms
175-176	I	Foth Farms
201-202	I	Foth Farms
207-208	III	Foth Farms
7	I	Foth, Matt
65-66	II	Foth, Matt
71-72	I	Foth, Matt
73-74	I	Foth, Matt
79-80	II	Foth, Matt
63-64	II	Gallatin Valley Farms
105-106	II	Gallatin Valley Farms
119-120	III	Gallatin Valley Farms
127-128	I	Gallatin Valley Farms
137-138	III	Gallatin Valley Farms
183-184	II	Gallatin Valley Farms
151-152	I	Gem Valley

2022 Washington State Commercial Seed Lot Trial

Appendix B

Sorted by Seed Grower

Row	Tier I-III	Seed Grower
183-184	III	Gem Valley
191-192	I	Gibbs
91-92	II	Gilbert Farms
95-96	II	Gilbert Farms
191-192	III	Gilbert Farms
73-74	II	Groot Farms
117-118	III	Groot Farms
61-62	II	Haarsma
67-68	I	Haarsma
131-132	III	Haarsma
131-132	II	Haarsma
185-186	III	Haarsma
71-72	II	Hensley, Tim
197-198	I	Holbrook
9-10	I	Jorgensen
43-44	II	Jorgensen
59-60	I	Jorgensen
87-88	III	Jorgensen
181-182	III	Jorgensen
195-196	I	Kamps Seed Farm
93-94	I	Kandler Farms
95-96	I	Kandler Farms
145-146	II	Kandler Farms
6	I	Kimm Bros
137-138	II	Kimm Bros
181-182	II	Kimm Bros
75-76	I	Kimm, Bill
97-98	I	Kimm, Bill
101-102	II	Kimm, Bill
119-120	I	Kimm, Bill
123-124	II	Kimm, Bill
67-68	II	Kimm, Martin
69-70	II	Kimm, Martin
121-122	II	Kimm, Martin
151-152	II	Kroeker
129-130	III	Lake Seed
167-168	III	Lake Seed
173-174	II	Lake Seed
187-188	II	Lake Seed
89-90	III	Lake, Dan
193-194	I	Lake, Dan
41-42	I	Lake, Jack
43-44	I	Lake, Jack
59-60	II	Lake, Jack
103-104	III	Lake, Jack

Row	Tier I-III	Seed Grower
101-102	III	LHF
109-110	I	London Hills Farm
177-178	I	London Hills Farm
179-180	II	Macy Farms
207-208	II	Macy Farms
109-110	III	Miller, Shane
189-190	III	NA
203-204	III	NA
203-204	II	NA
203-204	I	NA
211-212	I	NA
87-88	II	Neibaur
91-92	III	Neibaur
37-38	I	No tag
117-118	I	No tag
133-134	I	No tag
155-156	II	Norbest Farms
145-146	III	not listed
209-210	II	NPS
149-150	II	Pacific Potato
193-194	III	Penfold, Wyatt
147-148	I	Pieper Farms
37-38	II	Real Potatoes
195-196	III	Reynolds Farm
157-158	III	Ricks
161-162	III	Ricks
191-192	II	Ricks
8	I	Schutter
17-18	I	Schutter
75-76	II	Schutter
119-120	II	Schutter
123-124	I	Schutter
129-130	II	Schutter
141-142	III	Schutter
145-146	I	Schutter
163-164	III	Schutter
169-170	III	Schutter
179-180	I	Schutter
185-186	I	Schutter
189-190	I	Schutter
201-202	III	Schutter
177-178	III	Schutter
79-80	I	Schutter, Nick
165-166	III	Scoular
35-36	I	SHB

