Agenda Pendleton Agricultural Research Center Field Day Tuesday June 11, 2013

Time	Activity		
7:45	**Registration**		
8:10	**Welcome and Introduction**		
8:15	**Dr. Dan Arp, OSU Dean of Agricultural Sciences**		
8:25	**Blake Rowe, CEO Oregon Wheat**		
	Group 1 Tour		Group 2 Tour
8:35	**Load Buses**		
8:45	***"New Insights into Diseases And Disease Management"",*** Dr. Dick Smiley, OSU Plant Pathologist	**8:45**	***"Nitrogen Fertilization Timing on Biennial Canola and the Potential for Forage Production"*** Dr. Jack Brown, UI Plant Breeder Dr. Don Wysocki, OSU Extension Soil Scientist
9:20	***"Update on Winter Wheat Breeding"*** Dr. Bob Zemetra, OSU Wheat Breeder	**9:20**	***"Screening for Resistance to Wheat Diseases"*** Dr. Chris Mundt, OSU Plant Pathologist
9:45	***"State Wide Wheat Variety Trials",*** Dr. Mike Flowers, Extension Cereal Specialist	**9:45**	***"Growth Regulator Herbicide Impacts on Seed Production in Downy Brome"*** Dr. Dan Ball, OSU Weed Scientist
10:05	**Break** *(refreshments available)*	**10:05**	**Break** *(refreshments available)*
10:25	***"Vegetation Index Development with Unmanned Aerial Systems"*** Dr. Dan Long, USDA-ARS Agronomist Dr. John Sulik, USDA-ARS Post Doc	**10:25**	***"Malt, Feed, and Food: An OSU Barley Update"*** Scot Fisk, OSU Barley Breeding Program Brigid Meints, OSU Barley Breeding Program
10:50	***"Malt, Feed, and Food: An OSU Barley Update"*** Scot Fisk, OSU Barley Breeding Program Brigid Meints, OSU Barley Breeding Program	**10:50**	***"Winter Field Peas: Alternative Fall Seeded Crop for NE Oregon"*** Dr. Kurt Braunwart, Progene Plant Research LLC
11:15	***"Winter Field Peas: Alternative Fall Seeded Crop for NE Oregon"*** Dr. Kurt Braunwart, Progene Plant Research LLC	**11:15**	***"Quinoa, a Potential Dryland Crop"*** Dr. Steven Petrie, Yara US Dr. Stephen Machado, OSU Agronomist
11:40	***"Quinoa, a Potential Dryland Crop"*** Dr. Steven Petrie, Yara US Dr. Stephen Machado, OSU Agronomist	**11:40**	***"Vegetation Index Development with Unmanned Aerial Systems"*** Dr. Dan Long, USDA-ARS Agronomist Dr. John Sulik, USDA-ARS Post Doc
12:00	**Hosted Lunch**		
12:55	**Load Buses**		
1:00	***"Nitrogen Fertilization Timing on Biennial Canola and the Potential for Forage Production"*** Dr. Jack Brown, UI Plant Breeder Dr. Don Wysocki, OSU Extension Soil Scientist	**1:00**	***"New Insights into Diseases And Disease Management"*** Dr. Dick Smiley, OSU Plant Pathologist
1:35	***"Screening for Resistance to Wheat Diseases"*** *Dr. Chris Mundt, OSU Plant Pathologist*	***1:35***	***"Update on Winter Wheat Breeding"*** Dr. Bob Zemetra, OSU Wheat Breeder
2:00	***"Growth Regulator Herbicide Impacts on Seed Production in Downy Brome"*** *Dr. Dan Ball, OSU Weed Scientist*	**2:00**	***"State Wide Wheat Variety Trials",*** Dr. Mike Flowers, Extension Cereal Specialist
2:25	**Ice Cream Social** (courtesy Oregon Wheat Growers League)		

Time	**Sherman Station Field Day Wednesday June 12, 2013**
7:00	Assemble at Sherman County Fair Grounds
7:25	Welcome and Introductions
7:30	Dr. Dan Arp, Dean of Agricultural Sciences, OSU
7:40	Board Buses for Tour
7:45	***"New insights into diseases and disease management "*** Dr. Dick Smiley, OSU Plant Pathologist
8:10	***"Biennial canola production"*** Dr. Don Wysocki, OSU Extension Soil Scientist
8:35	***"Screening for Resistance to Wheat Diseases"*** Dr. Chris Mundt, OSU Plant Pathologist
9:55	Break
10:15	***"Transitioning CRP to wheat production"*** Dr. Dan Ball, OSU Weed Scientist
10:40	***"Update on Winter Wheat Breeding"*** Dr. Bob Zemetra, OSU Wheat Breeder
11:00	***"State Wide Wheat Variety Trials",*** Dr. Mike Flowers, Extension Cereal Specialist
11:30	**Steve Burnet building dedication.**
12:00	Lunch Sherman County Fairgrounds

OSU Extension Cereals

2013 Oregon Soft Winter Elite Yield Trials - Hermiston SBMV

OSU Extension Cereals

Entry	Variety	Class		Soilborne Wheat Mosaic Virus Rating[†]
				4/3/2013
				1 to 10
1	STEPHENS*	SWW		6.0
2	TUBBS 06*	SWW		8.5
3	GOETZE	SWW		7.0
4	SKILES	SWW		6.3
5	MARY	SWW		6.0
6	KASEBERG	SWW		6.0
7	LADD	SWW		1.0
8	BRUNEAU	SWW		6.3
9	02-10606A	SWW		5.8
10	99-06202A	SWW		6.0
11	03-29902A	SWW		6.5
12	IDO 1108	SWW		4.8
13	LCS ARTDECO	SWW		7.0
14	LWW 10-1018	SWW		6.3
15	LWW 04-4009	SWW		6.0
16	WA 8151	SWW		9.3
17	WA 8153	SWW		7.8
18	YS 221	SWW		6.3
19	YS 461	SWW		6.5
20	YS 434	SWW		6.3
21	WESTBRED 528	SWW		6.3
22	WB JUNCTION	SWW		4.5
23	EXP-427	SWW		6.5
24	EXP-436	SWW		5.0
25	LEGION	SWW		8.0
26	SY 107	SWW		6.3
27	AP BADGER	SWW		6.3
28	SY OVATION	SWW		1.0
29	ORCF-101	SWW		5.3
30	ORCF-102	SWW		8.0
31	ORCF-103	SWW		1.8
32	ORI 2101840	SWW		7.0
33	ORI 2101841	SWW		9.5
34	WA 8143	SWW		5.5
35	AP 700 CL	SWW		6.5
36	WB 1070 CL	SWW		6.3
37	CARA	Club		6.8
38	ARS 010669-2C	Club		8.5
39	ROSALYN	SWW		7.3
40	OR 2080641	SWW		5.8
41	BOBTAIL	SWW		6.3
42	OR 2080924	SWW		9.8
43	OR 2080637	SWW		6.0
44	OR 2080926	SWW		8.8
45	OR 2090473	SWW		6.5
	LSD (0.05)			0.9

* Indicates check variety

[†]Ratings by Tim Murray and Henry Wetzel; WSU. Visual ratings of plot damage range from 1 to 10, where 1 represents no visible damage and 10 represents significant damage with severe discoloration and stunting of infected plants.
Overall disease pressure was very uniform across the plot area.

OSU Extension Cereals

2013 Oregon Hard Winter Elite Yield Trials - Hermiston SBMV

OSU Extension Cereals

Entry	Variety	Class		Soilborne Wheat Mosaic Virus Rating[†]
				4/3/2013
				1 to 10
1	SKILES*	SWW		6.0
2	NORWEST 553	HRW		6.7
3	UI SRG	HRW		5.3
4	IDO 1102	HRW		4.5
5	IDO 1103	HRW		5.0
6	IDO 816	HRW		4.8
7	AZIMUT	HRW		5.8
8	NSA 06-4663	HRW		6.5
9	DAS 001	HRW		3.5
10	DAS 002	HRW		5.3
11	GENESIS	HRW		1.0
12	WB-RIMROCK	HRW		5.3
13	WB-ARROWHEAD	HRW		3.0
14	KELDIN	HRW		3.5
15	WHETSTONE	HRW		1.3
16	AP 503 CL2	HRW		1.0
17	IDO 1101	HWW		3.8
18	UI SILVER	HWW		5.5
19	OR 2080156H	HWW		7.5
20	OR 2080227H	HWW		6.8
21	OR 2080229H	HWW		7.5
22	OR 2080236H	HWW		4.5
23	OR 2090107H	HWW		6.3
24	OR 2100061H	HWW		6.3
25	OR 2100081H	HWW		3.0
	LSD (0.05)			1.4

* Indicates check variety

[†]Ratings by Tim Murray and Henry Wetzel; WSU. Visual ratings of plot damage range from 1 to 10, where 1 represents no visible damage and 10 represents significant damage with severe discoloration and stunting of infected plants.
Overall disease pressure was very uniform across the plot area.

OREGON STATE UNIVERSITY EXTENSION SERVICE

CEREAL Newsletter

Vol. MMXIII No. 1 www.cerealcentral.com May 2013

Soil Borne Wheat Mosaic Virus Update

Soilborne Wheat Mosaic Virus (SBWM) has been found in our area for almost 10 years now. It has made itself know again this year. It appears to be affecting more fields and in larger areas east of Milton Freewater this spring.

The diseased wheat foliage exhibits mosaic symptoms similar to wheat streak mosaic, which is already known to occur in the region, but wheat streak mosaic is expressed later in the growing season.

In Oregon, this virus was first detected in winter wheat in the Willamette Valley in 1994 and in winter wheat in western Umatilla County in 2005 and 2006 in irrigated fields. The disease is transmitted from root to root by the fungus Polymyxa graminis. It is a virus that is only moved by soil, and likely to be a problem in years when cool moist conditions occur in the fall after seeding as moisture is needed for the infection to take place.

Progress is being made to identify varieties that have resistance to SBWM. Trials are being conducted in the Hermiston area this season and the visual ratings are included in the newsletter, and are posted on my cereal website: www.cerealcentral.com. In the soft white winter wheats – Ladd and SY Ovation are showing visual differences. There are several hard winter varieties that are showing promise. Yield results will be available later this summer. Check our website for postings over the course of harvest later this summer.

~MKC

Soilbourne Wheat Mosaic Virus, March, 2008

Stripe Rust Update

Stripe rust in around but only at low levels and on susceptible varieties is the story for stripe rust this year in local wheat fields. No rain and above average temperatures are in the forecast for the next 10 days so one can expect that high-temperature adult-plant resistance will like work better this year than in the past few years.

Dr. Chen in his stripe rust survey conducted on April 30- May 3, notes that no rust was found in winter wheat fields at the Columbia Basin Ag Research Center and nearby commercial fields. Stripe rust was easily found on some winter wheat entries at the Hermiston Ag Research and Extension Center. Stripe rust of resistant to moderately resistant reactions was found on triticale plants. No rust was found on barley plants at both locations.

If stripe rust starts developing, a fungicide application may be needed. Stripe rust will be likely developing faster in the next couple of weeks with warmer temperatures, but with high temperatures we also would expect the high-temperature adult-plant resistance to kick in.

OSU/Umatilla County Extension Service
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CALENDAR

June

May 21
North Valley Field Crop Tour
Location: Northern Willamette Valley
Contact: Yamhill Co. Extension 503-434-7517

May 22
1pm
South Valley Field Crop Tour
Location: Southern Willamette Valley
Contact: Paul Marquardt 541-967-3871

June 5
Hermiston Experiment Station Wheat Field Day
Location: HAREC
Contact: 541-567-8321

June 10
Pendleton -Ruggs Crop Tour
Location: CBARC
Contact: 541-278-4186

June 11
Pendleton Experiment Station Field Day
Location: CBARC
Contact: 541-278-4186

June 12
Sherman Experiment Station Field Day
Location: Moro, OR
Contact: 541-565-3230

June 18-19
Western Wheat Workers Meeting
Location: BMCC, Pendleton Campus
Contact: Mike Flowers, OSU
mike.flowers@oregonstate.edu

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