

# Growing Forward

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and Future Challenges



Washington State  
Tree Fruit Association

***111th Annual Meeting  
& NW Hort Expo***

**YAKIMA, WASHINGTON  
DECEMBER 7, 8 & 9, 2015**

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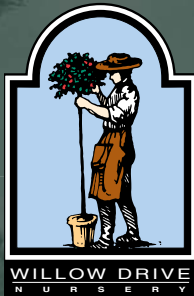
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It is my pleasure to welcome you to the 111th Annual Meeting of the Washington State Tree Fruit Association. Although it has only been a year since the merger of four of our industry associations to form the combined WSTFA, this meeting continues a tradition of industry education going back more than a century.

Our theme this year reflects this history of both continuity and change. While tree fruit growers have faced many challenges over the past 111 years, these challenges have been met and the industry has continued to grow because of our emphasis on finding, sharing, and implementing solutions to each new problem.

Problems such as drought, adverse global market conditions, and complex government regulations can sometimes seem insoluble—particularly when you are facing all of them at once. But solutions, or at least survival strategies, do exist! Our goal this year has been not just to describe the challenges we are facing, but to identify strategies and solutions that our members can use to overcome them.

We are deeply indebted to the volunteers who serve on our Education and Annual Meeting Committee and who serve as session chairs. These industry experts help us to identify those leaders who have valuable insights and experiences to share with each of you. Please take the opportunity to thank them for the important service they provide to our industry, and feel free to share any thoughts you may have about future topics or speakers.

Finally, remember that not every great idea is delivered from the podium. I encourage you to take the opportunity to ask questions and comment during the sessions. Visit and talk with the exhibitors at the trade show in the SunDome. And most of all, meet and reconnect with industry colleagues throughout the meeting.

I am proud of the program we are able to present to you this year, and your participation greatly adds to its value. Together, we will keep the Washington State tree fruit industry growing forward.

### Kevin Knight

2015 Chair

WSTFA Education and Annual Meeting Committee



**Kevin Knight,**  
WSTFA Education  
and Annual Meeting  
Committee Chair



Washington State  
Tree Fruit Association

105 S 18th St #116 | Yakima, WA 98901  
Phone: 509.452.8555 | Fax: 509.452.8754

2900 Euclid Avenue | Wenatchee, WA 98801  
Phone: 509.665.9641 | Fax: 509.665.8541  
Website: www.wstfa.org

### WSTFA STAFF

**Jon DeVaney, President**

**Ranie Haas, Director of Regulatory & Industry Affairs**

**Nicole Brunner, Director of Education & Member Services**

**Stephanie Chance, Communications Manager**

**Jayne Smith, Senior Data Analyst / Office Manager**

**Joanne Thomas, Education & Member Services Assistant**

**Emily Allwardt, Office & Data Assistant**

**Sabrina Schuller, Office & Data Assistant**

## WSTFA Mission Statement

The WSTFA's mission is to add value to all segments of the tree fruit industry through educational programs and conferences, statistics to enable growers and packers to plan for market opportunities, and engagement in Washington State government affairs to help address the market uncertainty driven by government policy.

### 2015 ANNUAL MEETING PLANNING COMMITTEE

**Aaron Avila**, G.S. Long Co.

**David Granatstein**, WSU Tree Fruit Research & Extension Center

**Desmond Layne**, WSU Tree Fruit Research & Extension Center

**Gwen Hoheisel**, Washington State University

**Ines Hanrahan**, WTFRC

**Jose Ramirez**, WSTFA Chairman of the Board

**Karen Lewis**, WSU Extension

**R. Karina Gallardo**, Washington State University

**Kevin Knight**, Knight Orchards

**Stefano Musacchi**, WSU Tree Fruit Research & Extension Center

**Steve Zediker**, Zediker Orchards

**Tom Auvil**, WTFRC

**Tory Schmidt**, WTFRC

### 2015 ANNUAL MEETING SESSION MANAGERS

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**Aaron Avila**, G.S. Long Co., Inc.

**Phil Doornink**, Doornink Fruit Ranch

**R. Karina Gallardo**, Washington State University

**Don Gibson**, Mt Adams Orchards Corporation

**Astrid H. Goplen**, Goplen Ag Services

**Dan Griffith**, G.S. Long Co., Inc.

**David Granatstein**, Washington State University

**Melba R. Salizar-Gutierrez**, AgWeatherNet-BSE, Washington State University

**Ines Hanrahan**, WTFRC

**Brent Huck**, Stemilt Growers

**Karen Lewis**, WSU Extension

**Kevin Knight**, Knight Orchards

**Jennifer Witherbee**, Washington Apple Education Foundation

**Jordan Matson**, Matson Fruit Company

**Tory Schmidt**, WTFRC

**Kyle Tynan**, WTFRC

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## NW HORT EXPO / TRADE SHOW HOURS — Yakima Valley SunDome

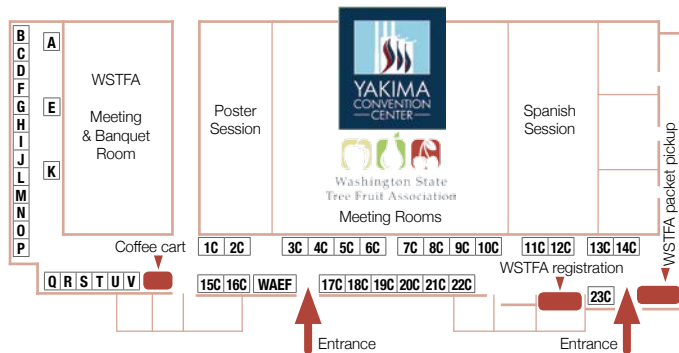
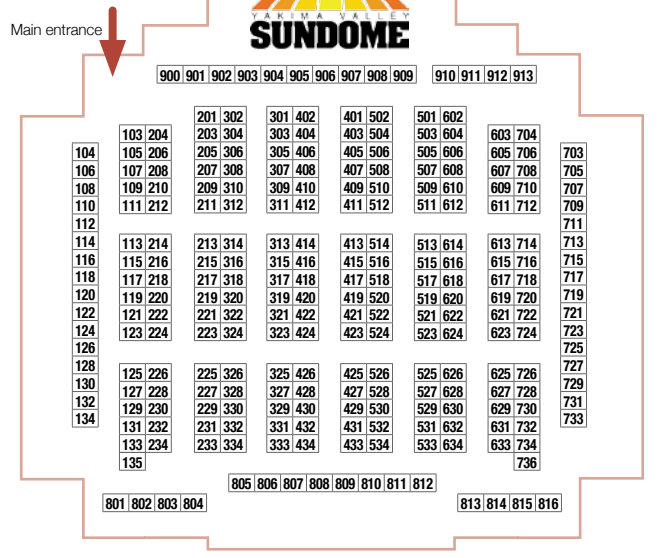
Monday: 8 a.m.–7 p.m. / Tuesday: 8 a.m.–5 p.m. / Wednesday: 8 a.m.–Noon

Shuttle Sponsored by ApRecs – Secure Data Awareness

Shuttle will run every 15 minutes between Convention Center and SunDome

Monday & Tuesday: 9:00 a.m. – 5:00 p.m. / Wednesday: 9 a.m. – Noon

VENDOR	BOOTH	VENDOR	BOOTH
2nd Sight BioScience	120	Felix Instruments	4C
A&B Packing	910	Firman Pollen Co., Inc.	304
AAg Solutions, Inc.	726	FirmYield Pollen	204
Aams-Salvarani-Arag	715	Frank's Tire Factory	234
Acadian Seaplants	214	Fruit Control	619
Accu-Label	426	Giro Pack	415
ADAMA	711	Good Fruit Grower	1C / 913
Ag Forestry	J	GP Graders	123
AgHeat	112	Graphic Label, Inc.	333
Agrian	114	Gripple, Inc.	434
Agro-Culture Liquid Fertilizers	430	GS Long	201
AgroFresh	6C	H.F. Hauff Company, Inc.	503
Air-O-Fan Products	211	Holtzinger Fruit Company	107
A-L Compressed Gases	705	Industrial Equipment Solutions, Inc.	317
Albion Minerals	616	Inland Environmental Resources	223
Alpha Scents, Inc.	417	Irrigation Specialist	232
Antles Pollen Supplies, Inc.	906	Jet Harvest Solution	617
Apple Tree Holder	329	JMC Enterprises, Inc.	731
ApRecs	12C	JMT	627
Arysta LifeScience	713	Kwik Lok Corporation	302
Atago USA	305	L&I	I
Ausley Assoc Inc	718	Liphatech	633
Automated Ag	806	Macro Plastics	805
Axiall Corp	423	MAF Industries, Inc	125
Banner Bank	416	Marchant Ladders	708
Barnel	424	Measure Tek	513
Besseling Group	321	Meister Media	907
Better Ladders, LLC	325	Meteos USA	727
Bio Gro Inc.	131	Mettler Toledo	122
BioSafe Systems	515	MGH Equipment	231
Bird Gard	3C	Mid Columbia Fork Lift	100
Bleyhl	902	Mohr & Associates	629
BlueLine Equipment & Manufacturing	427	Morgan Stanley	519
Brandt's Fruit Trees	322	Morton's Supply	420
Burrows Tractor	403	Natural Selection Farms	418
C & O Nursery	603	Nelson Irrigation	525
C & O Nursery	605	North Valley Mechanical	520
Cameron Nursery, LLC	410	Nutrient Technologies Inc.	327
Carlton Plants	425	NW Farm Credit Services	219
Carrier Transport	104	NW Harvest Yakima	K
Cascade Analytical, Inc.	421	Okanogan Specialty Fruits	116
CCTV CameraScan	709	On Target Spray Systems	10C
Certis	533	Orange Enterprises	631
C-Gro, Incorporated	725	Orchard Guard	315
Challenger Pipe	331	Oregon Blueberry	428
Clean Plant Center Northwest		Oregon Vineyard Supply	413
WSU-IAREC	N	OXARC, Inc.	210
Clifton Larson Allen	323	Pace International LLC	13C
Columbia Homes	628	Pacific Agriculture Laboratory	16C
Conover Insurance	216	Pacific CA	516
Copenhagen Farms Nursery	531	Pacific Calcium — Natures Intent	307
Creative Ag Products	721	Pacific Mobil Structures	527
CSC Exteriors	507	Pacific Weather Consulting	615
CSI Nutri-Cal	320	Packing House Services	630
Custom Technology	706	Panhandle Forest Products	517
CWR	135	Pear Bureau Northwest	T
DACO Corporation	501	Phil Brown Welding Corp	106
Data Pro Solutions	2C	Phytelligence	236
Decco US Post Harvest Inc.	904	PNASH	Q
Doubl-Kold	722	Pollen Nation	618
Dow AgroSciences	206	PrimusLabs	118
El Mundo	G	ProTree Nursery, LLC	309
Ewing Irrigation	723	Qingdao Rizome USA	621
Extenday USA	103	Rankin Equipment Co.	404
Fall Creek Farm & Nursery, Inc.	614	Ruggs Ranch	620
		Salco	529



VENDOR	BOOTH	VENDOR	BOOTH
Scentry Biologicals Inc.	526	US APPLE	R
Second Harvest	L	US Dept of Labor-Wage / Hour Division	M
Shillett's	720	USDA / NASS	S
Shur Farms Frost Protection	419	USDA Farm Service Agency	E
Simplicity Homes	717	Valley Tractor	117
Simplot Grower Solutions	109	Van Doren Sales, Inc	606
Sims Manufacturing	801	Van Well Nursery	712
Sinclair Systems International LLC	607	Versatile Refrigeration	207
Sky Predators		VineTech Equipment	609
Bird Abatement Service	221	Vitazyme	310
SNA Manufacturing	414	WA Apple Commission	U
Software Solutions	311	WA State Dept of Agriculture	V
Sorma	121	WA State Dept. of Ecology	D
Spectrum Technologies	313	Washington Farm Labor Association	H
Spring Creek Sales	228	Washington State Farm Bureau	P
SS EQUIPMENT	521	Washington Tractor	225
Steel Structures	634	Web Steel Buildings	716
Storage Control Systems	205	WECO Sorting	724
Superior Fruit Equipment	308	Westbridge Agricultural Products	613
Suterra	110	Western Scale, Inc	604
Syngenta	15C	Westmark	900
Tallman Ladders	108	Wilbur Ellis	908
Thermal Tech	133	Willamette Nurseries	901
Treco	222	Willow Drive Nursery	17C
TRECO	602	Wilson Irrigation	213
Tree Connection	703	WSU Ag Weather Net	O
Tree Top	432	WSU Enhancing Biological Control	F
Unitec USA	913	Yakima Implement	124
United Sales	113	Zenport	127

**MONDAY**

**8:00** **POSTER SESSION**  
8 a.m. – 5 p.m.  
**Room B**

**GROWING FORWARD: SOLUTIONS FOR CURRENT AND FUTURE CHALLENGES**  
8 a.m. – Noon  
Yakima Convention Center Rooms C & D  
See Page 10

**9:00** Details  
Page 10

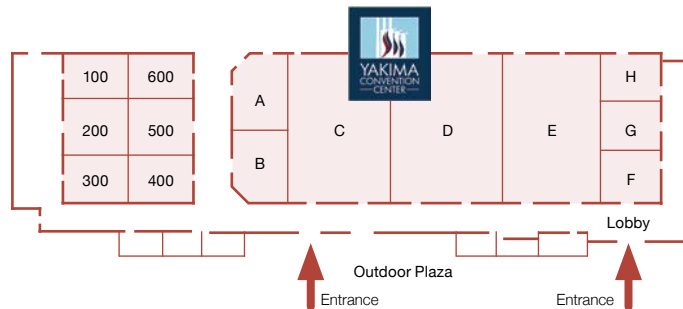
**11:00** **WSTFA Leadership Luncheon, Noon – 1 p.m.,**  
Yakima Convention Center, Room 400

**1:00**

**2:00** **WEATHER VARIABILITY AND WATER RESOURCES**  
1:30 p.m. – 5 p.m.  
Yakima Convention Center Rooms C & D  
See Page 12

**3:00**

**4:00**



**SUNDOME CONCURRENT SESSION**  
2:30 p.m. – 5 p.m.  
SunDome State Fair Room  
See Page 12

**REGISTRATION HOURS**  
Sponsored by ProTree Nursery, LLC  
Monday & Tuesday: 7 a.m. – 5 p.m.  
Wednesday: 7:30 a.m. – Noon

Evening NW Hort Expo Social & Cocktail Hour, 5 p.m. – 7 p.m., SunDome

**TUESDAY**

WAEF Alumni Breakfast, 7 a.m., Room 400

**8:00** **POSTER SESSION**  
8 a.m. – 5 p.m.  
**Room B**

**POLLINATION & FRUIT SET**  
8 a.m. – Noon  
Yakima Convention Center Room C  
See Page 14

**9:00** Details  
Page 14

**10:00** **ORGANIC TREE FRUIT — GONE GLOBAL**  
8 a.m. – Noon  
Yakima Convention Center Room D  
See Page 18

**11:00** **SPANISH LANGUAGE SESSION 1**  
8 a.m. – Noon  
Yakima Convention Center Room E  
See Page 18

**1:00** **NORTHWEST FRUIT CROPS: CHERRIES**  
1 p.m. – 5 p.m.  
Yakima Convention Center Room C  
See Page 22

**2:00** **LEVERAGE TECHNOLOGY TO INCREASE YOUR BOTTOM-LINE**  
1 p.m. – 5 p.m.  
Yakima Convention Center Room D  
See Page 22

**3:00** **SPANISH LANGUAGE SESSION 2**  
1 p.m. – 5 p.m.  
Yakima Convention Center Room E  
See Page 20

**4:00** Meet & Greet with Presenters  
6 p.m. – 7 p.m.

**Evening** WSTFA Banquet, 6 p.m. – 9 p.m., Room 400

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**WEDNESDAY**

**8:00** **POSTER SESSION**  
8 a.m. – 12:30 p.m.  
**Room B**

**PEST & DISEASE**  
8 a.m. – Noon  
Yakima Convention Center Room C  
See Page 26

**9:00** Details  
Page 26

**10:00** **BUILDING STRATEGIES & ORCHARD SYSTEMS FOR A SUSTAINABLE FUTURE**  
8 a.m. – Noon  
Yakima Convention Center Room D  
See Page 26

**11:00** **NORTHWEST FRUIT CROPS: PEARS**  
8 a.m. – Noon  
Yakima Convention Center Room E  
See Page 28

**1:00** **FOOD SAFETY**  
1 p.m. – 5 p.m.  
Yakima Convention Center Room C  
See Page 30

**Noon** Student FFA Leadership Luncheon, Noon – 1 p.m., Room 400

**MEETING ETIQUETTE**

- \* Cell phones and beepers must be turned off in session rooms.
- \* Please take conversations unrelated to the program outside the session rooms.
- \* Arriving on time to sessions will avoid entering/leaving session rooms when a speaker is presenting.

**POSTER SESSION**

8 A.M. – 5 P.M.

**Session Sponsor:** Papé Material Handling

**Session Manager:** R. Karina Gallardo,  
Associate Professor / Extension Specialist, WSU

**Location:** Yakima Convention Center “B”

**GROWING FORWARD: SOLUTIONS FOR  
CURRENT AND FUTURE CHALLENGES**

8 A.M. – NOON

**Session Sponsor:** AgroFresh

**Session Manager:** Kevin Knight, Annual Meeting  
& Education Committee Chair

**Location:** Yakima Convention Center “C & D”

- 8:15** **Welcome & Introduction** — Kevin Knight, Annual Meeting  
& Education Committee Chair & Jose Ramirez, WSTFA  
Chairman of the Board
- 8:30** **Merging into the Fast Lane** — Jon DeVaney, President,  
Washington State Tree Fruit Association
- 8:45** **36th Batjer Address: “Approaching the American Age”** —  
Peter Zeihan, Geopolitical Strategist, Zeihan on Geopolitics
- 10:00** **Space Invaders: Maintaining and Expanding Tree Fruit’s Retail Turf**  
— Steve Lutz, V.P. of Marketing, CMI
- 10:30** **Move it: Marketing Strategies for Larger Crops (PANEL)** —  
Moderator: Bruce Grim, Manager, The Marketing Associations;  
Panelists: Mike Taylor, V.P. of Sales and Marketing, Stemilt Growers;  
Robert Kershaw, President, Domex Superfresh Growers;  
Randy Abhold, V.P. of Sales and Marketing, Rainier Fruit Co.;  
Mac Riggan, Director of Marketing, Chelan Fresh
- 11:30** **Growing Global Market Share** — Todd Fryhover, President,  
Washington Apple Commission

**WSTFA LEADERSHIP LUNCHEON**

NOON – 1 P.M.

**Session Sponsor:** Key Bank

**Host:** Jon DeVaney, President, Washington State Tree Fruit Association

**Guest Speaker:** Senate Republican Leader, Mark Schoesler

**Location:** Yakima Convention Center “Room 400”

**BOARD & COMMISSION NOMINATIONS**

1:10 P.M.

**Location:** Yakima Convention Center “C & D”  
Board & Commission Nominations, WSDA



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**WEATHER VARIABILITY AND WATER RESOURCES 1:30 P.M. – 5 P.M.**

**Session Sponsor:** Banner Bank

**Location:** Yakima Convention Center “C & D”

- 1:30 Integrated Modeling over the PNW Region to Assess the Impacts of Climate Change on Water Resource Availability and Cropping Systems** — Dr. Jennifer Adam, Department of Civil and Environmental Engineering, WSU

**THE STATE’S RESPONSE**

- 2:00 Responding to Today’s Drought and Preparing for Tomorrow’s** — Derek Sandison, Washington State Director of Agriculture and Maia Bellon, Washington State Director of Ecology

**LOCAL ISSUES AND POTENTIAL SOLUTIONS**

- 3:00 Yakima Basin Integrated Water Resource Management Plan and Drought Response Strategies for 2016** — Urban Eberhart, Manager, Kittitas Reclamation District
- 3:30 Infrastructure and the Need to Improve and Adapt** — Tony Jantzer, Secretary Manager, Icicle-Peshastin Irrigation Districts
- 4:00 Icicle Creek Work Group: Meeting Multiple Water Resource Goals and Getting Along** — Mike Kaputa, Director, Chelan County Natural Resources
- 4:30 Horticultural Management and Environmental Manipulation to Limit the Effects of Water Stress** — Dr. Lee Kalcsits, Tree Fruit Physiology, WSU Tree Fruit Research & Extension Center

**SUNDOME CONCURRENT SESSION 2:30 P.M. – 5 P.M.**

**Session Sponsor:** Clifton Larson Allen

**Session Manager:** Jennifer Witherbee, Executive Director, Washington Apple Education Foundation

**Location:** Yakima Valley SunDome, State Fair Room

- 2:30 Recruit Talent through Internships and Summer Jobs** — Washington Apple Education Foundation
- 3:30 WSU Tree Fruit Internships: Work Force Development for the Future** — Herb Lengel, Internship and Career Development Coordinator, WSU
- 4:00 “Piece-Rate Break Pay: Try Saying That Ten Times Fast!” – A CPA’s Perspective on the Recent Piece-Rate Break Pay Ruling** — Kyle Strong, CPA; Eric Davis, CPA with Clifton Larson Allen
- 4:30 The Gift that Nobody Wants- Rest Breaks After Sakuma** — Sarah L. Wixson, Shareholder, Stokes Lawrence Law

**MONDAY EVENING 5 P.M. – 7 P.M.**

**NW Hort Expo Social & Cocktail Hour**

**Must be 21 or over – Registration Badge Required**

**Event Sponsor:** Domex Superfresh Growers

**Location:** Yakima Valley SunDome



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WAEF ALUMNI BREAKFAST

7 A.M.

**Sponsor:** Washington Apple Education Foundation

**Host:** Jennifer Witherbee, Washington Apple Education Foundation

**Location:** Yakima Convention Center "Room 400"

POSTER SESSION

8 A.M. – 5 P.M.

**Session Sponsor:** Papé Material Handling

**Session Manager:** R. Karina Gallardo,  
Associate Professor / Extension Specialist, WSU

**Location:** Yakima Convention Center "B"

POLLINATION & FRUIT SET

8 A.M. – NOON

**Concurrent Session**

**Session Sponsor:** Northwest Wholesale

**Session Manager:** Dan Griffith, Tree Fruit Consultant, G.S. Long Co., Inc.  
& Tory Schmidt, Project Manager, Washington Tree Fruit Research  
Commission (WTFRC)

**Location:** Yakima Convention Center "C"

- 8:00 Welcome & Introduction** — Dan Griffith, Tree Fruit Consultant,  
G.S. Long Co.
- 8:10 Fruiting Biology 101** — Dr. Matthew Whiting, Department of  
Horticulture, WSU-IAREC

PROBLEMS WITH POLLINIZERS

- 8:30 Quarantine Issues, Disease Biology, and Current Research  
with Pathogens of Manchurian Crabs** — Dr. Parama Sikdar,  
Postdoctoral Research Associate, WSU
- 8:50 Orchard Sanitation and Management of Manchurian Crabs** —  
Dr. Richard Kim, Postharvest Pathologist, Pace International
- 9:05 New Potential Pollinizers for Apple Orchards** — Dr. Stefano  
Musacchi, Endowed Chair for Tree Fruit Physiology and  
Management, WSU Tree Fruit Research & Extension Center
- 9:20 Pollen Tube Growth Model Update** — Tory Schmidt, Project Manager,  
WTFRC
- 9:30 Artificial Pollination to Improve Yield Security** — Dr. Matthew  
Whiting, Department of Horticulture, WSU-IAREC
- 9:50 Honey Bee Foraging Behavior** — Dr. Gloria Hoffman, Research  
Leader, USDA-ARS
- 10:20 Honey Bee Ecology** — Dr. Tim Lawrence, County Director, Island  
County, WSU Extension
- 10:40 Alternative Pollinator Species** — Dr. Steve Sheppard, Professor,  
Entomology Department Chair, WSU
- 11:00 Best Management Practices for Optimizing Fruit Set** — Eric Olson,  
Owner, Olson's Honey; Hermann Thoennissen, Owner, HTG  
International
- 11:30 Roundtable Q & A** — All Session Speakers

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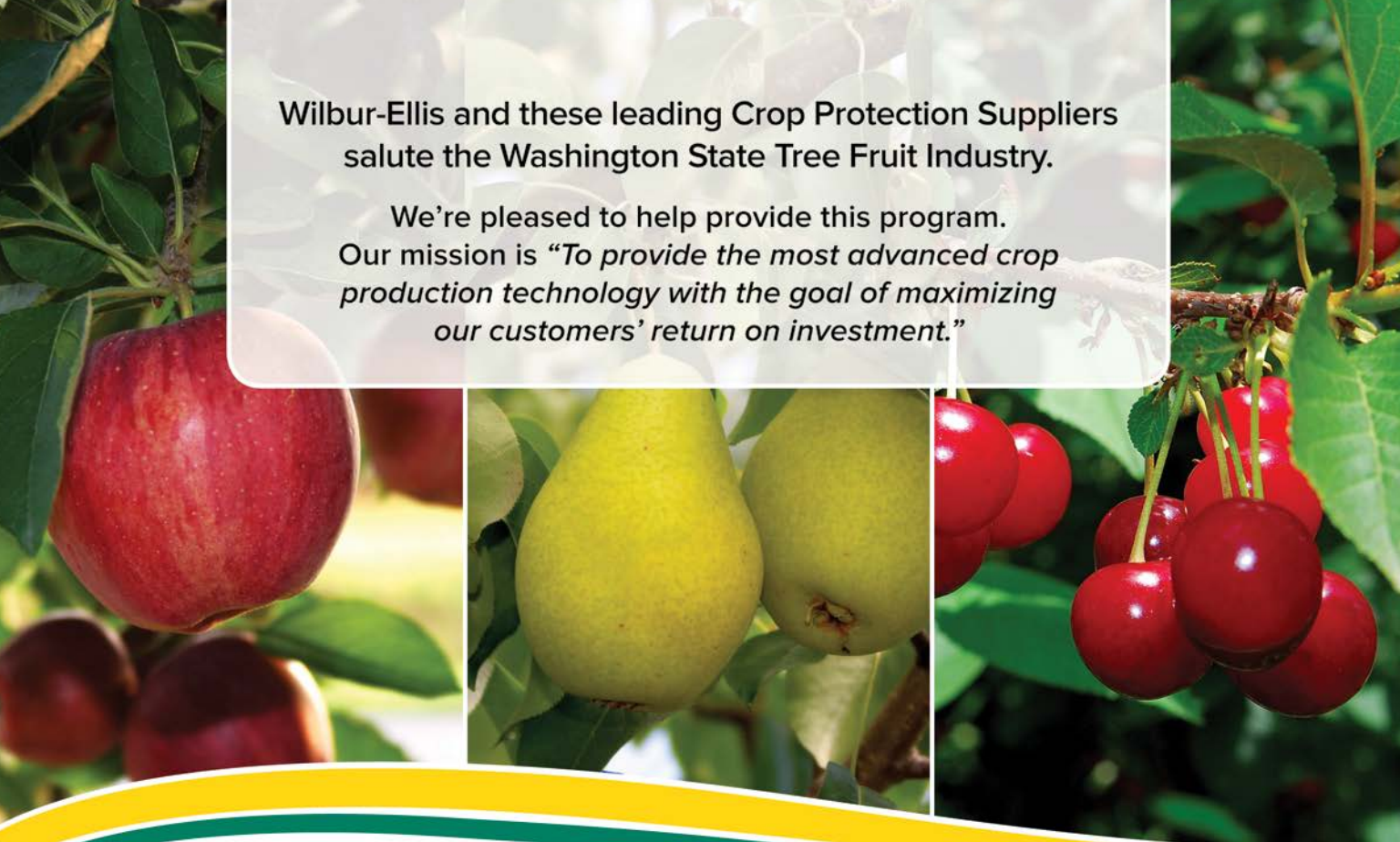
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*Ultror®*  
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◆ Dow AgroSciences LLC  
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**Concurrent Session**

**Session Sponsor:** Northwest Farm Credit

**Session Manager:** David Granatstein, Sustainable Ag Specialist,  
WSU Tree Fruit Research & Extension Center

**Location:** Yakima Convention Center “D”

**THE ORGANIC TREE FRUIT SECTOR**

- 8:00 **Welcome and Introduction** — David Granatstein, Sustainable Ag Specialist, WSU Tree Fruit Research & Extension Center

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- 8:05 **Sector Trends – Global to Local** — David Granatstein, Sustainable Ag Specialist, WSU Tree Fruit Research & Extension Center

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- 8:20 **View From the Retailer** — Frank Padilla, V.P. GMM Produce & Meat, Costco Wholesale

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- 8:40 **View from the Fresh Fruit Shipper** — Howard Nager, V.P. of Marketing, Domex Superfresh Growers

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- 9:00 **View from the Processor** — Cris Hales, V.P. Fruit Procurement & Grower Services, Tree Top Inc.

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- 9:20 **The Role of Fresh Sliced Organic** — Tony Freytag, Senior V.P., Crunch Pak

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- 9:35 **Q & A** — All Speakers

**ORGANIC TREE FRUIT PRODUCTION TIPS**

- 9:50 **Progress in Fire Blight Control** — Dr. Ken Johnson, Professor of Plant Pathology, OSU

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- 10:10 **Little Cherry Disease Insect Vectors** — Dr. Andrea Bixby-Brosi, Post-Doctoral Scientist, WSU Tree Fruit Research & Extension Center

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- 10:25 **Cost of Production Studies** — Suzette Galinato, Research Associate, School of Economic Sciences, WSU

**ORGANIC POLICY**

- 10:40 **National Organic Standards Board** — Harold Austin, Director of Orchard Administration, Zirkle Fruit; and NOSB

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- 11:00 **Proposed Organic Check-Off Program** — Nate Lewis, Senior Crops and Livestock Specialist, Organic Trade Association

**TRANSITIONING TO ORGANIC**

- 11:15 **Transitioning to Organic (Grower PANEL)** — Moderator: David Granatstein, Sustainable Ag Specialist, WSU; Panelists: Alan Groff, Manager, Foreman Land and Fruit Co.; Jeff Pheasant, Owner, Pheasant Orchards; Mike Brownfield, Owner, Brownfield Orchards

**Concurrent Session**

**Session Sponsor:** Broetje Orchards

**Session Manager:** Dr. Melba R. Salazar-Gutiérrez,  
Assistant Research Professor, AgWeatherNet-BSE, WSU

**Morning Session Moderator:** Alfredo Reyes, Washington Fruit & Produce

**Location:** Yakima Convention Center “E”

- 8:00 **Welcome / Bienvenida** — Dr. Melba R. Salazar-Gutiérrez, AgWeatherNet-BSE, WSU & Jose Ramirez, WSTFA Chairman of the Board



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- 8:15 Pruning for Cropload and Fruit Quality / Poda para control de la carga del árbol y calidad de la fruta** — *Jacqui Gordon, Department of Horticulture, WSU*
- 8:45 Tree Fruit Thinning: Why, When and How / Raleo de frutos: Cómo, cuándo y porqué** — *Dr. Melba R. Salazar-Gutiérrez, AgWeatherNet-BSE, WSU*
- 9:15 Using the Pollen Tube Model to Guide Chemical Thinning Program / Uso del modelo del tubo polínico como guía para programar el raleo químico** — *Héctor Camargo, Department of Biological Systems Engineering, WSU*
- 9:30 Break / Descanso**
- 9:45 WPS Violations Found in 2015 / Violaciones a WPS en el 2015** — *Jaime Ramon, Pesticide Management Division, Washington State Department of Agriculture*
- 10:45 Available Resources to Enhance Safety in the Tree Fruit Industry / Recursos disponibles para incrementar la seguridad en la industria frutícola** — *Flor Servin, Safety & Health Consultant, Washington State Department of Labor and Industries*
- 11:30 Lunch Break**

**SPANISH LANGUAGE SESSION 2**

**1 P.M. – 5 P.M.**

**Concurrent Session**

**Session Sponsor:** *Stemilt Ag Services*

**Session Manager:** *Dr. Melba R. Salazar-Gutiérrez, Assistant Research Professor, AgWeatherNet-BSE, WSU*

**Afternoon Session Moderator:** *Jesus Lamas, Manager C & M Orchards*

**Location:** *Yakima Convention Center "E"*

- 1:00 Strategies to Manage Tree Stress / Estrategias para manejar el estrés en arboles frutales** — *Dr. Lee Kalcsits, Tree Fruit Physiology, WSU Tree Fruit Research & Extension Center*
- 1:30 AgWeatherNet Tools for Making the Right Decisions in the Orchard / Cómo emplear las herramientas de AgWeatherNet para tomar buenas decisiones en la huerta** — *Andrés Peña, Department of Biological Systems Engineering, WSU*
- 2:00 Orchard Irrigation Practices and Strategies / Prácticas y estrategias de irrigación en huertas frutales** — *Antonella Valverdi, Department of Horticulture, WSU*
- 2:30 Cherry Powdery Mildew: Putting the Focus Back on the Cherry / Oidio de la Cereza: Poniendo la atención otra vez a la fruta** — *Dr. Claudia Probst, Plant Pathology & Microbiology, WSU-IAREC*
- 3:00 WSDA Updates & WPS Rule Changes / Información Actualizada de WSDA Y Cambios a la Regla de WPS** — *Ofelio Borges, Technical Services and Education Program Manager, Washington State Department of Agriculture*
- 4:00 How to be a Good Supervisor in the Orchard / Cómo ser un buen supervisor en la huerta** — *Alfredo Reyes, Orchard Manager, Washington Fruit & Produce*
- 4:30 Adjourn / Cierre**



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**NORTHWEST FRUIT CROPS: CHERRIES**

**1 P.M. – 5 P.M.**

**Concurrent Session**

**Session Sponsor:** Domex Superfresh Growers

**Session Manager:** Brent Huck, Stemilt Field Staff, Department /  
Regional Manager Ag Services Yakima, Grower

**Co-Session Managers:** Tom Auwil, Research Horticulturist,  
WTFRC & Mark Hanrahan, Grower

**Location:** Yakima Convention Center "C"

- 1:00** **Welcome & Introduction** — Brent Huck, Stemilt Field Staff,  
Department/Regional Manager Ag Services Yakima, Grower
- 1:05** **A Glance at the 2015 NW Cherry Season** — BJ Thurlby, President,  
Washington State Fruit Commission, NW Cherry Growers
- 1:20** **Little Cherry Virus, Detect it Early or Risk Losing Your Entire Orchard. Is LCV Epidemic History Being Repeated?** — Timothy J. Smith, Professor, Emeritus, WSU Extension
- 1:40** **Developing a Management Strategy for Little Cherry Disease**  
— Andrea Bixby-Brosi, Post-Doctoral Scientist, WSU Tree Fruit  
Research & Extension Center
- 2:10** **Orchard Performance of Advanced WSU Sweet Cherry Scion Selections in 2015** — Dr. Ines Hanrahan, Project Manager,  
Washington Tree Fruit Research Commission
- 2:40** **Diagnosing and Dealing with Stress** — Dr. Matthew Whiting,  
Department of Horticulture, WSU-IAREC
- 3:10** **Break**
- 3:25** **Cherry Powdery Mildew: Putting the Focus Back on the Cherry** —  
Dr. Claudia Probst, Plant Pathology & Microbiology, WSU-IAREC
- 3:55** **Ensuring Ocean Shipping Export Arrival Quality of PNW Sweet Cherries** — Yan Wang, Department of Horticulture, OSU
- 4:40** **Using Kestrels for Bird Control in Sweet Cherries: The Benefits of Encouraging Natural Predators** — Deanna Leigh, M.Sc. Candidate,  
Huxley College of the Environment, WWU

**LEVERAGE TECHNOLOGY TO**

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**1 P.M. – 5 P.M.**

**Concurrent Session**

**Session Sponsor:** Aweta Americas, Inc.

**Co-Session Managers:** Jordan Matson, Manager, Matson Fruit Company  
& Kyle Tynan, Research Assistant, WTFRC

**Location:** Yakima Convention Center "D"

- 1:00** **Welcome & Introduction** — Jordan Matson, Manager, Matson Fruit
- 1:10** **Data Security: How to Protect Your Information** — Michael Liddicoat,  
Customer Advocate, Alliant Communications
- 1:40** **Take Technology to Your Orchard** — Nick Loyd, Associate in  
Research, AgWeatherNet
- 2:40** **Data Management: Adding Value to Data** — Jon DeVaney, President,  
WSTFA; Josh Sundquist, Senior Category Analyst, Domex Superfresh  
Growers; Dennis Howell, Director of Planning, Stemilt Growers

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**3:40 Computer System Development & Deployment (PANEL) —**  
Moderator: Jordan Matson, Manager, Matson Fruit Company;  
Panelists: Mike Lewis, Systems Analyst, Monson Fruit Company;  
Autumn Bernier, Chief Information Officer & Systems Manager,  
Allan Bros; Lucas Hanson, IT Executive, Matson Fruit Company;  
Eric Skiles, IT Administrator, Domex Superfresh Growers

**WSTFA BANQUET**

**6 P.M. – 9 P.M.**

**Master of Ceremonies:** George Allan, Allan Brothers

**Banquet Sponsor:** Good Fruit Grower

**Hors d'Oeuvres Sponsor:** Wilbur Ellis

**Dessert Buffet Sponsor:** AgroFresh

**Commemorative Art Sponsor:** Western Fruit Grower

**Location:** Yakima Convention Center "Room 400"

**6:00 Reception and WAEF Silent Auction,  
Connecting with Poster Presenters**

**7:00 Dinner & Awards**



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POSTER SESSION

8 A.M. – 12:30 P.M.

**Session Sponsor:** *Papé Material Handling*

**Session Manager:** *R. Karina Gallardo,  
Associate Professor / Extension Specialist, WSU*

**Location:** *Yakima Convention Center "B"*

PEST & DISEASE

8 A.M. – NOON

**Concurrent Session**

**Session Sponsor:** *Dow AgroScience*

**Co-Session Managers:** *Astrid H. Goplen, Goplen Ag Services  
& Aaron Avila, Grower Services, G.S. Long Co., Inc.*

**Location:** *Yakima Convention Center "C"*

- 8:00** **Welcome & Introduction** — *Astrid H. Goplen, Goplen Ag Services*
- 8:05** **Systems Approaches as Alternatives to Fumigation/Cold Treatment for Quarantine Pest Management** — *Mike Willett, Vice President for Scientific Affairs, Northwest Horticultural Council*
- 8:40** **Fireblight Management: Progress & Perils** — *Dr. Ken Johnson, Professor Botany & Plant Pathology, OSU*
- 9:05** **Managing Codling Moth and Obliquebanded Leafroller in Extraordinarily Hot Years** — *Dr. Vince Jones, Director, WSU Tree Fruit Decision Aid System (DAS), WSU Tree Fruit Research & Extension Center*
- 9:30** **Current Status of the Brown Marmorated Stink Bug in the Pacific Northwest** — *Peter W. Shearer, Ph.D., Professor of Entomology, OSU*
- 9:50** **Seasonal Development of Aphids in Apples** — *Ute Chambers, DAS Manager & Educator, WSU Tree Fruit Research & Extension Center*
- 10:10** **Managing Spray Drift** — *Matt West, Pesticide Management Division, Washington State Department of Agriculture*
- 10:30** **Improving Your Spray Coverage, The Answer is Blowing in the Wind** — *Gwen Hoheisel, Regional Extension Specialist, WSU*
- 11:00** **WSDA Updates & Worker Protection Standard Rule Changes** — *Ofelio Borges, Technical Services and Education Program Manager, Washington State Department of Agriculture*
- 11:30** **Avoiding Pesticide Use Violations / Common Field Infractions** — *Michael Glazier, Industrial Hygienist, Washington State Department of Labor & Industries*

BUILDING STRATEGIES & ORCHARD SYSTEMS  
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8 A.M. – NOON

**Concurrent Session**

**Session Sponsor:** *Valent USA*

**Co-Session Managers:** *Karen Lewis, Regional Extension Specialist,  
WSU Extension & Tom Auvil, Research Horticulturist,  
Washington Tree Fruit Research Commission (WTFRC)*

**Location:** *Yakima Convention Center "D"*

- 8:00** **Chasing the Pot of Gold at the End of the Rainbow** — *Tom Auvil, Research Horticulturist, WTFRC*
- 8:15** **Replacing Labor with Capital – An AgBiz Logic Case Study** — *Dr. Clark Seavert, Department of Applied Economics, OSU*

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- 8:45 Short-Term Strategies for Managing Limited Labor Resources (PANEL)** — Moderator: Karen Lewis, Regional Extension Specialist, WSU Extension; Panelists: Dan Plath, Grower, Washington Fruit & Produce; Al Robison, Grower, A&D Orchards; Mike Robinson, Grower, Double Diamond Fruit
- 9:30 Technologies to Sustain a Competitive Future (PANEL)** — Moderator: Tom Auvil, Research Horticulturist, WTFRC; Panelist: Keith Stennes, Kevin Stennes, Mark Stennes with Stennes Orchards, TBA
- 10:30 Orchard Systems: Efficient to Establish, Farm and Harvest (PANEL)** — Moderator: Dr. Stefano Musacchi, Endowed Chair for Tree Fruit Physiology and Management, WSU Tree Fruit Research & Extension Center; Panelists: Dale Goldy, Assistant General Manager, Stemilt Ag Services; Jason Matson, Farm General Manager, Matson fruit Company; Travis Allan, President, Yakima Valley Orchards; Mark Stennes, Operations Manager, Cascade Crest Organics
- 11:30 Developing and Implementing New Technologies for and from the WSU Pomefruit Breeding Program** — Dr. Kate Evans, Department of Horticulture, WSU

**NORTHWEST FRUIT CROPS: PEARS**

**8 A.M. – NOON**

**Concurrent Session**

**Session Sponsor:** G.S. Long Co., Inc.

**Co-Session Managers:** Phil Doornink, GM Doornink Fruit Ranch, Sales Rep. Van Well Nursery & Don Gibson, President, Mt Adams Orchards Corporation

**Location:** Yakima Convention Center "E"

- 8:00 Welcome & Introduction** — Phil Doornink, GM Doornink Fruit Ranch, Sales Rep. Van Well Nursery
- 8:10 Building Pear Consumption Through Retail Promotions, Advertising and Social Media: A Panel of the Pear Bureau Regional Managers and the Marketing Team (US Pear PANEL)** — Moderator: Kevin Moffit, President & CEO; Panelists: Bob Koehler, Lead Regional Marketing Manager, N. Central US and Canada; Bob Catinella, Regional Marketing Manager, Eastern Seaboard; Ed Chambers, Regional Marketing Manager, Mid-West and South; Dave Howald, Regional Marketing Manager, West Coast and Southwest; Kathy Stephenson, Director of Communications
- 9:10 Growing Smarter Trees** — Amit Dhingra, Department of Horticulture, Washington State University
- 9:40 Directions in Mite Management** — Dr. Elizabeth Beers, Department of Entomology, WSU Tree fruit Research & Extension Center
- 10:00 Pear Psylla Outbreaks: Is it Heat or Pesticides or Nitrogen or All the Above** — Thomas Unruh, Research Entomologist, U.S. Department of Agriculture–Agricultural Research Service (USDA-ARS)
- 10:20 Messin' with Pear Trees: the Use of PGRs, Root Pruning and New, Dwarfing Rootstocks to Balance Vigor and Production** — Dr. Todd Einhorn, Department of Horticulture, OSU-MCAREC
- 11:00 Breaking the 'Pearidigm': Integrating New Technology and Orchard Design Concepts for Innovative Pear Orchards (PANEL)** — Moderator: Phil Doornink, GM Doornink Fruit Ranch, Sales Rep. Van Well Nursery; Panelist: Rudy Prey, Owner Prey's Fruit Barn & Orchards; Don Gibson, President, Mt Adams Orchards Corporation; Dr. Todd Einhorn, Department of Horticulture, OSU-MCAREC; Josh Koempel, Potentiality Orchards

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STATE FFA APPLE/PEAR JUDGING

10 A.M. – 11:45 A.M.

**Host:** Rick Adams

**Sponsor:** Washington Apple Education Foundation

**Location:** Yakima Convention Center, Rooms "200 & 300"

STUDENT FFA LEADERSHIP LUNCHEON

NOON – 1 P.M.

**Sponsor:** Washington Apple Education Foundation

**Host:** Jennifer Witherbee, Washington Apple Education Foundation

**Speaker:** Jennifer Witherbee, WAEF Executive Director

**Location:** Yakima Convention Center, Room "400"

FOOD SAFETY

1 P.M. – 5 P.M.

**Session Sponsor:** Cascade Analytical

**Session Manager:** Dr. Ines Hanrahan, Project Manager,  
Washington Tree Fruit Research Commission (WTFRC)

**Location:** Yakima Convention Center "C"

- 1:00** Welcome & Introduction — Dr. Ines Hanrahan, WTFRC
- 1:10** Food Safety: Year in Review — Dr. Ines Hanrahan, WTFRC; Kate Woods, V.P., Northwest Horticultural Council (NHC); Nicole Brunner, Director of Education and Member Services, Washington State Tree Fruit Association (WSTFA)
- 1:40** Challenges in Controlling *Listeria monocytogenes*: Problems, Solutions and Knowledge Gaps — Dr. Kathleen Glass, Food Research Institute, University of Wisconsin
- 2:10** The Food Safety Modernization Act: Final Rules Overview and Panel Discussion — Miriam Burbach, Health Communications Specialist, Food and Drug Administration (FDA), (PANEL) Moderator: Dr. Ines Hanrahan, WTFRC; Panelists: Jeremy Leavitt, Food Safety & Compliance Manager, Borton and Sons; Aaron Avila, Grower Services, G.S. Long Co.; TBD
- 3:25** The Food Safety Modernization Act: On-Farm Water Usage Regulations — Dr. Channah Rock, Water Quality Specialist, University of Arizona
- 4:05** Training and Information Resources (PANEL) — Moderator: Laura Grunenfelder, Technical Issues Manager, NHC; Panelists: Dr. Betsy Bihn, Director of Produce Safety Alliance (PSA); Nicole Brunner, Director of Education and Member Services, WSTFA; Claudia Coles, Administrator for the Office of Compliance & Outreach, Washington State Department of Agriculture (WSDA); Miriam Burbach, Health Communications Specialist, FDA; Kate Woods, V.P., NHC
- 4:50** Closing remarks — Dr. Ines Hanrahan, WTFRC

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