

Apple Horticulture and Postharvest Research Review

Confluence Technology Center, Wenatchee January 30, 2025

Host: WA Tree Fruit Research Commission (WTFRC)

Chairs: Matt Miles & Anne Morrell

Time	Presenter	Title^	Status#	Year(s)
8:45		Registration		
9:00	Chair	Matt Miles & Anne Morrell: Welcome		
	Ines	Meeting Etiquette & Housekeeping & General Introduction (LIVE)		
Project Reports				
		Horticulture		
9:15	Kalcsits	Measuring Storage Reserves to Assess Severity of Biennial Bearing	NCE/FINAL	23
9:25	Kalcsits	Measuring the Impact of Leaf Removal on Spur and Tree Health	FINAL	22-24
9:40	Mendoza	Phase 3 Evaluations of WSU Apple Breeding Selections	CONT	23-25
9:50	Gallardo	Cost of Production Updates (LIVE)		
		Postharvest Biology, Technology & Food Safety		
10:00	Thoma	Life Cycle Assessment for Pacific Northwest Apple Production	CONT	23-25
10:10	Honaas*	Towards Next Generation Maturity Indices: Apple Biomarker Discovery	CONT	22-24
10:20	Amiri	Evaluation of an Alternative Postharvest Fungicide Applicator	NCE/FINAL	21-23
10:30	Zhu*	Efficacies of Biocontrol Agents Against Postharvest Decay in Apples	CONT	23-24
Break 10:40-11:15				
11:15	Kalcsits	Strengthening Pear and Apple Resilience to Climate: New SCRI grant (LIVE)		
11:25	Amiri*	Genomic Approaches to Understand the Etiology of Postharvest Decays	NCE/CONT	23-24
-----	Zhu*	Utilizing Far-UV Technology for Decay and Microbial Safety Management	CONT	24-26
11:35	Wang	UV-C and Antimicrobial Spray to Control Decay and Food Safety Risks	CONT	24-26
11:45	Zhu*	Interaction of Microbiome and Listeria on Apples During Storage	NCE/FINAL	20-22
11:55	Rudell*	Reducing CO2-Related Disorders During Honeycrisp Rapid CA Treatment	NCE/CONT	22-24
12:05	Zhu*	Fate of Listeria on Fresh Apples as Affected by Commercial Apple Waxes	NCE/FINAL	20-22
Lunch Break 12:15-2:15pm				
2:15	Amiri	OREI: Organic Storage (LIVE)		
2:25	Zhu*	Ozone Nanobubble to Control Listeria and Decay in Organic Apples	CONT	23-25
-----	Harkess*	Risk Assessment: Loss of Firmness During Gala Storage <i>(no ppt in 2025)</i>	CONT	24-25
-----	Zhu*	Optimizing the Lifespan of Chlorinated Dump Tank Water via Modeling	CONT	24-26
-----	Murphy	Tree Fruit Microbial Quality Under CA Storage <i>(FYI ONLY, EQUIPMENT GRANT)</i>	FINAL	23
2:35	Evans	WA 64: Sunflare™ (LIVE)		
Break 2:45-3:15				
		Cosmic Crisp® & Technology		
3:15	Hanrahan	The Apple Technology Roadmap (LIVE)		
3:25	Musacchi	Peel Surf. Properties Linked w. Green Spot of WA38	FINAL	23
3:40	Mendoza	Improving Apple Fruit Quality & postharvest Performance	CONT	23-25
3:50	Torres*	Mitigating WA38 Greasiness and Related Quality Defects	CONT/NCE	22-24
Adjourn 4:00 - Social hour at Chateau Faire Le Pont after review until 6:00pm				

* Altered report timeline of projects due to postharvest project: delayed reporting timelines to allow scientists to collect storage data, newly funded projects.....; ^Titles: some titles have been abbreviated to fit into table, see project reports for full titles; #CONT = continuing project report (10 min), FINAL = final project report (15 min), NCE: no-cost-extension (10 min)

All reports are available for download approximately two weeks prior to the research review from www.treefruitresearch.org. The ZOOM link will be posted prior to the meeting on the website. Final reports will be permanently added to the searchable database (<https://treefruitresearch.org/advanced-search/>) within three months of the research review. Additional inquiries may be addressed to Mackenzie Perrault (Mackenziep@treefruitresearch.com).