

Pacific Northwest Agroforestry Workshops: Final Accomplishment Report

**Badege Bishaw, Shannon Murray, Andy Perleberg, Kate MacFarland, Richard Straight,
Frank Lake, Jeremiah R. Pinto, Stephanie Gutierrez, Jocelyn Tutak, and Don Motanic**



National
Agroforestry
Center



Oregon State
University

Ecotrust



Forestry
WASHINGTON STATE UNIVERSITY
EXTENSION

OCTOBER 18, 2022

Pacific Northwest Agroforestry Workshops:

Final Accomplishment Report

Contributors

Dr. Badege Bishaw¹, Ms. Shannon Murray¹, Dr. Andy Perleberg², Ms. Kate MacFarland³, Mr. Richard Straight³, Dr. Frank Lake⁴, Dr. Jeremiah R. Pinto⁵, Ms. Stephanie Gutierrez⁶, Ms. Jocelyn Tutak⁶, and Mr. Don Motanic⁷

1. Oregon State University, College of Forestry, Corvallis, Oregon
2. Washington State University, Extension Forestry Program, Pullman, Washington
3. USDA National Agroforestry Center, Lincoln, Nebraska
4. USDA Forest Service, Southern Region, California
5. USDA Forest Service, Rocky Mountain Station, Montana
6. Ecotrust, Portland, Oregon
7. Intertribal Timber Council, Portland, Oregon

Suggested Citation

Bishaw, Badege, Shannon Murray, Andy Perleberg, Kate MacFarland, Richard Straight, Frank Lake, Jeremiah R. Pinto, Stephanie Gutierrez, Jocelyn Tutak, and Don Motanic 2022. Pacific Northwest Agroforestry Workshops: Final Accomplishment Report, Oregon State University, Corvallis, Oregon, USA.



National
Agroforestry
Center



Oregon State
University

Ecotrust



Forestry

WASHINGTON STATE UNIVERSITY
EXTENSION

Abstract

The USDA National Agroforestry Center (NAC), Agreement number 18-CA-11330152-071, funded the Pacific Northwest Agroforestry Workshops project. The goals of the project are to provide training to midcareer agroforestry professionals and practitioners that can reach out landowners and producers through “train the trainer” approach and facilitate the dissemination of agroforestry practices in the region. Oregon State University took the lead in partnership with Washington State University and the USDA, NAC. Later the USDA Forest Service Southern Region, the USDA Forest Service Rocky Mountain Research Station, Ecotrust and the Intertribal Timber Council joined as collaborators. Through this project, one face-to-face and one virtual workshops conducted based on the initial objectives of the project in Washington and Oregon States. Later Ecotrust, the USDA FS Southern Region, and the USDA FS Rocky Mountain Station were brought on board to organize and provide a Webinar on Tribal Agroforestry, organize a Roundtable discussion and develop a StoryMap for Tribal Agroforestry. This report is a compilation of the project activities undertaken by the collaborative team, including challenges faced to implement the project, and lessons learned from the project.

Acknowledgements

The team would like to thank the USDA NAC for providing funds for this project and being flexible to extend the completion of the project with no cost extension. Our special thanks to Richard Straight and Kate McFarland, USDA National Agroforestry Center for working with the team and providing valuable comments and guidance throughout the project. We would also like to thank the Oregon State University Research Office for managing the funds and being flexible on logistics. Stephanie Gutierrez and Jocelyn Tutak from Ecotrust for being very enthusiastic and energetic in organizing and conducting the Webinar, Roundtable discussion and developing the Tribal Agroforestry StoryMap. Dr. Frank Lake, USDA Forest Service Southern Region, and Dr. Jeremiah R. Pinto, USFS Rocky Mountain Station, and Mr. Don Motanic, Intertribal Timber Council (retired) for their active participations and make this project a success.

Table of Contents

1. Introduction and Overview	6
2. Project Objectives	8
3. Scope of Work.....	9
4. Methodology	10
5. Results and Discussions.....	11
6. Findings and Recommendations	14
7, Lessons Learned.....	15
8. References.....	16

Appendices

Appendix 1A: Washington Agroforestry Workshop Announcement.....	18
Appendix 1B: Washington Agroforestry Workshop Program Agenda.....	19
Appendix 2A: Oregon Virtual Agroforestry Workshop Announcement.....	22
Appendix 2B: Oregon Agroforestry Workshop Program Agenda.....	23
Appendix 3A: PNW Tribal Agroforestry Webinar Announcement.....	25
Appendix 3B: PNW Agroforestry Webinar Program Agenda.....	26
Appendix 4A: PNW Tribal Agroforestry Roundtable Announcement.....	28
Appendix 4B: PNW Tribal Agroforestry Roundtable Discussion Questions.....	29

Pacific Northwest Agroforestry Workshops:

Final Accomplishment Report

Introduction and Overview

Agroforestry is an intentional integration of trees, crops and livestock in the same unit of land to optimize the ecological, economic and social benefits of land. Native Americans and European pioneers have practiced this land-use system for millennium. As management activity, agroforestry can increase the resiliency of agricultural lands and provide environmental benefits by diversifying income sources for rural communities; protecting soil, air and water quality; providing wildlife habitat, and helping to reduce fire risk (Bishaw, 2013). According to the USDA National Agroforestry Center, there are five basic types of agroforestry practices today in North America: windbreaks, alley cropping, silvopasture, riparian buffers, and forest farming. Within each agroforestry practice, there is a continuum of options available to landowners depending on their own goals (e.g., whether to maximize the production of crops, animals, forages, or trees) (USDA-NAC [2012](#)).

In the Pacific Northwest Willamette Valley, Oregon, the Kalapuya managed oak savannas, vast woody huckleberry shrubs, and forests while also managing crops including camas and wapato (Goodness 2011, Lewis, 2022). Prescribed burning was a tool most Pacific Northwest Tribal communities used to maintain and enhance prairie edges and oak woodland savannas for vegetation and wildlife management for various food and cultural resource products throughout Western Washington and Oregon (Anderson, 2007, Lewis, 2022). The Pacific Northwest tribal communities also managed soil fertility (Petrie 2012). They gathered food, medicine, and other supplies in a rotational basis for sustained harvests. This management process, enforced by tribal

leaders (Anderson 2007; Goodness, 2011; Petrie 2012), was conducted by skilled and knowledgeable applied ecologists who actively managed the land (Bainbridge 1994). Some of these management practices, collectively referred to as Traditional Ecological Knowledge (TEK), are ongoing today. This regionally specific body of knowledge has tremendous potential for supporting sustainable agroforestry development in the Northwest.

The most common agroforestry practices in the Northwest region include silvopasture, riparian buffers, forest farming, agroforest, and windbreaks. Silvopasture used primarily for economic production and grazing shrubs for fire management. Riparian buffer implemented to address water pollution, create fish habitat, and control erosion. Forest farming often used for producing mushrooms, floral greenery, and juniper berries. Agroforests are part of whole-farm crop and income diversification using woody crops. Windbreaks protect high-value crops and animals. Recently Hazelnut is growing as alley cropping in the Willamette Valley and grass seed farms converted into Hazelnut alley cropping. These practices increase income and biological diversity in the region, and protect water and wind erosion (Bishaw 2013). In 1990, researchers surveyed non-industrial private forest landowners in Washington State and found that 57% practiced agroforestry (Lawrence et al. 1992). While many landowners in this region may not identify themselves as agroforesters or as practicing agroforestry, they are often engaged in practices that considered agroforestry (Bishaw and MacFarland, 2017).

The Pacific Northwest (PNW) Agroforestry Working Group formed as result of a workshop held in May 2013 at Oregon State University by the request of the USDA National Agroforestry Center to assess the status of agroforestry education, research and outreach activities in Oregon, Washington and Alaska. Participants to the workshop came from state and federal forestry and natural resource agencies, landowners, and academics. The group explored key issues on the

progress and challenges faced to promote agroforestry in the region, how to improve water quality for salmon and wildlife, and diversify rural economies through non-timber forest products. A subsequent workshop was held on October 2014 to provide training for midcareer natural resources professionals, where experts discussed the different agroforestry practices, agroforestry policy, basic economics of agroforestry, and other related topics such as, urban forestry. Currently the group is expanding to include faculty and agroforestry professionals from across Oregon State University, Washington State University, Natural Resource Conservation Service, landowners and practitioners in the region.

In the past 30 years, many effort and resources invested to develop agroforestry education, research and outreach at the national and regional levels in the United States. There is now sufficient knowledge and experiences in agroforestry in the Pacific Northwest (PNW) to share with landowners to practice agroforestry as sustainable land use to address production, environmental issues and climate change. Researchers and extension professionals from Oregon State University, (OSU) and Washington State University, (WSU) came together and proposed the Pacific Northwest Agroforestry Workshops. The goals of the workshops were to train midcareer agroforestry professional and practitioners that can reach out landowners and producers through “train the trainer” approach and facilitate the dissemination of agroforestry practices in the region.

Project Objectives

The goals of the PNW Agroforestry Workshops is to strengthen access to resources, and advance the adoption of agroforestry practices in the region by (1) promoting innovation and knowledge-sharing within a diverse audience of service providers and agroforestry practitioners, and (2)

extending the network of natural resource professionals who can support the use of agroforestry practices by landowners and producers.

The unforeseen circumstance of COVID19 in the United States and globally in 2019 to 2021 was a challenge to implement the workshops as initially planned. However, it has also created an opportunity to implement one of the Agroforestry workshops in Oregon virtually. This helped us save some grant funds to organize an Agroforestry Webinar, Roundtable discussion, and develop Tribal Agroforestry StoryMap, which were not part of the original goals of the project. The Tribal Agroforestry Meetings has helped us expand the reaches of this grant and its capacity building focus to additional audiences.

Scope of work

Advance on the ground adoption of agroforestry practices in the Pacific Northwest region by providing workshops that:

- Actively link on-the-ground practitioners, state and federal agencies, university researchers, nonprofits focused on agroforestry, and technical service providers;
- Promote innovation, conservation, adoption, and knowledge-sharing within and between audiences;
- Provide opportunities for further network development by creating a space for participants to strengthen partnerships, and identify opportunities and challenges;
- Improve capacity of technical service providers, extension agents, state and federal agencies, and other key stakeholders in the region;
- Provide region specific agroforestry information and knowledge to technical service providers, extension and agency personnel;

- Use “train the trainer” approach to extend the network of natural resources professionals who can work with landowners and producers on agroforestry practices.

Strengthen access to resources focused on agroforestry principles as well as practices suitable for the regional production through:

- Development of training materials that can be further adapted for future workshops.
- Providing an opportunity for service providers to gain TSP credentials.
- Recording workshop sessions and provide open access to online videos.

Methodology

The organizing team (Oregon State University, Washington State University, and the USDA National Agroforestry Center) planned and organized two workshops in 2019-2021. We engaged actively practitioners, researchers, state and federal agencies, and nonprofits to provide further opportunities for network development and region specific agroforestry knowledge through a “train the trainer” approach.

The first workshop conducted in-person in Spokane, Washington in September 2019 hosted by WSU. However, the Oregon Agroforestry workshop did not materialize as planned due to COVID19. The workshop organizing team has to reassess the situation and prepare a new plan to conduct the workshop virtually in Oregon. By conducting the workshop virtually in Oregon, the team saved grant funds that created new opportunities to reach additional audiences.

It also expanded the project team to include Ecotrust, the USDA Forest Service and Tribal Timber Council. The new team facilitated a series of meetings by working with Tribal communities, natural resource managers, and technical service providers with main goals to

promote knowledge sharing and network development, while focusing the discussions around priority topics for the PNW Tribal communities related to natural resource management, food sovereignty, and economic development. The remaining grant from the USDA National Agroforestry Center funded the additional project activities.

The project team was innovative and creative and organized additional Webinar and Roundtable discussion, which were not in the initial plan of the Agroforestry Workshops. In addition to organizing a Webinar and Roundtable discussion, the team also prepared a Tribal Agroforestry StoryMap based on the Webinar and the Roundtable discussions.

In all cases, the team used an approach by preparing a flyer to advertise the Workshops, Webinar and the Roundtable discussions to reach out to wider audiences of practitioners, midcareer professionals and extension service providers, please see appendix 1A, 2A and 3A.

Results and Discussions

The first workshop conducted face-to-face in Spokane, Washington on September 2019. There were over 30 participants at the workshop who came from different organizations. The workshop was organized for 2 ½ days. The first day was inside conference room and covered topics on the concepts of agroforestry and the different types of agroforestry practices in the United States.

Then followed by questions and discussions from the participants. Please see appendix 1B for Workshop specific topics covered and speakers. The second day was a field trip and the group visited a private Silvopasture farm in Spokane, Washington. The third day, which is ½ day, allotted for TSP training.

The Oregon workshop initially planned in person for April 2020 did not materialize due to COVID19. The team rescheduled the Oregon workshop to conduct face-to-face in October 2020,

but did not happen as planned. Finally, the team agreed to conduct the Oregon workshop virtually in November 2021. Please see Appendix 2B for planned topics, speakers and field trip. The unforeseen circumstance of COVID19 created an opportunity for the team to save grant funds to organize a Webinar, a Roundtable discussion, and to develop a Tribal Agroforestry StoryMap.

The Tribal Agroforestry Webinar organized by inviting Dr. Frank Lake, Research Ecologist from the USDA Forest Service Southern Region, to speak on Tribal Agroforestry practices in the United States and PNW region. Dr. Lake gave a PowerPoint presentation and addressed the historical development of agroforestry in the US and Tribal agroforestry practices in the PNW. The PowerPoint presentation for the Webinar is found on the PNW Agroforestry Working Group Website: https://media.oregonstate.edu/media/t/1_0hbob1f7

The main objectives of the Webinar is to share ideas and examples of how tribal land and resources stewardship and agroforestry practices relate to one another. Agroforestry is the intentional integration of trees or shrubs with crops and/or animal production to create environmental, economic, and social benefits. Tribal/Indigenous agroforestry includes culturally informed, Traditional Ecological Knowledge (TEK) based practices that integrate the management of trees, plants, fungi, and animals to serve the needs of indigenous communities, Tribes, and the broader society.

This event is part of a broader effort to promote knowledge sharing and network development of the PNW Agroforestry Workshops. Other topics explored include:

- The relevance of agroforestry concepts to Tribal agriculture and natural resource management.
- Silviculture and managing non-timber forest products.

- Fire management for cultural resources.
- Tribal nurseries and role of plant materials in agroforestry.

This event organized for 1 hour and 30 minutes for presentation and discussion. Over 100 participants attended the Agroforestry Webinar with diverse background and including landowners, producers, agroforestry service providers and extension professionals. Many questions raised from the audience that Dr. Lake addressed. Please see the Webinar agenda and flyer to announce the Webinar in Appendix 3A and 3B.

The PNW Tribal Agroforestry Roundtable discussion was part of the larger project aimed at strengthening knowledge sharing and access to agroforestry resources in the Pacific Northwest by natural resource professionals, technical service providers, and Tribal and Indigenous communities. The Roundtable also seeks to build connections and identify future opportunities to support and collaborate with Tribal and Indigenous communities and agroforestry practitioners in the Pacific Northwest.

Tribal staff and Indigenous community members that are interested in or already implementing agroforestry practices within their community and/or ancestral territories were invited to participate in this Roundtable. Participants discussed: 1) a range of existing and potential Tribal and/or Indigenous community-led agroforestry practices, 2) Challenges, barriers, and opportunities, for adopting and implementing agroforestry, and 3) Select a focused breakout conversation topic to join such as Workforce Development, Nurseries, Fire Management, and Non-Timber Forest Products (NTFPs). This Roundtable organized and led by Stephanie Gutierrez from Ecotrust and the organizing team. Please see the flyer to advertise the Roundtable discussion and the program agenda, and PowerPoint presentation in Appendix 4A and 4B.

The Tribal Agroforestry StoryMap is a product of a Webinar presented by Dr. Frank Lake, USDA Forest Service Research Ecologist. The Webinar organized by the collaborative team on May 2021. The event shared ideas of how Tribal land, resource stewardship, and agroforestry practices related to one another, and was part of the broader effort to promote knowledge sharing and network development. The overarching goals of the StoryMap were to promote innovation, knowledge sharing and network development in the realm of Tribal agroforestry. The intended focus was on priority topics for the Pacific Tribal communities related to natural resource management, food sovereignty, and economic development.

The Tribal agroforestry StoryMap was developed using ArcGIS and gone through many iteration of drafts. With feedback from the collaborative team the final StoryMap was developed. Please see the link for the Tribal Agroforestry StoryMap:

<https://storymaps.arcgis.com/collections/382778beae314c40a1261e4c3c9cdac5>

Findings and Recommendations

The Agroforestry Workshops, Webinar, Roundtable discussion and developing a Tribal Agroforestry StoryMap were the main outcomes of this project. By conducting the Agroforestry Workshops, both face-to-face and virtually we have reached over 200 participants, who are midcareer professionals, forestry/agroforestry practitioners, some landowners and Tribal communities. The number of participants is three folds from initially planned.

The Webinar, the Roundtable discussion and the Tribal agroforestry StoryMap were additional outcomes of the Agroforestry workshops not initially planned.

Expanding the collaborative team to include Ecotrust, USDA Forest Service Southern Region, USDA FS Rocky Mountain Station, and the Intertribal Timber Council has helped us bring additional knowledge and talents to the team. By working together on the PNW Agroforestry Workshops, the team has achieved better understanding among themselves and become innovative to propose a new joint project “*Building a Community of Practice for Tribal Agroforestry Producers and Youth in the Pacific Northwest*” to the USDA National Institute of Food and Agriculture.

Lessons Learned

The team was very creative and innovative to adjust to unforeseen circumstances of COVID19. Being flexible has benefited the team to overachieve from the initially planned goals of the project. By conducting the Oregon workshop, the Webinar and the Roundtable discussion virtually, the team has benefited to reach more audiences than we initially anticipated. Finding appropriate and qualified speakers for the workshops was a challenge. This seems sometimes a challenge but insurmountable with patience.

The USDA National Agroforestry Center and the OSU Research Office were very cooperative to give the collaborative team No-Cost extensions twice. This was mainly due to the COVID19.

References

Anderson, M.K. 2007. Indigenous uses, management, and restoration of oaks of the far Western United States. Technical Note No. 2. Davis, CA: U.S. Department of Agriculture, Natural Resources Conservation Service, National Plant Data Center. 24 Pp.

Bainbridge, D. 1994. Agroforestry in the southwest: A rich past and promising future. In Rietveld, W.J. (ed). Proceedings, Agroforestry and sustainable systems Symposium, August 7-10; Fort Collins, Co. General Technical Report RM GTR 261 USDA Forest Service Rocky Mountain Station. Pp 147-176.

Bishaw, B. and MacFarland, K. 2017. Appendix 1 Regional Summary: Northwest. In: T. Patel-Weynand et al. (eds), Agroforestry: Enhancing Resiliency in U.S. Agricultural Landscapes Under Changing Conditions. Gen. Tech. Rep. WO-96 U.S. Department of Agriculture, Forest Service.

Bishaw, B. 2013. Agroforestry: an integrated land-use system to meet agricultural production and environmental protection in the United States. Proceedings, international symposium on agroforestry, Xitou Nature Education Area, the Experimental Forest, National Taiwan University, Taiwan; July 15–19. Taipei, Taiwan, Taiwan Forestry Research Institute: 18–26.

Goodness, V. 2011. Traditional Ecological Knowledge in sustainable Ecosystems: Integrating Indigenous and Western science Philosophy. Capstone report, Masters of Natural Resources, Oregon State University, Corvallis, Oregon. P 78.

Lawrence, J.H.; Hardesty, L.H.; Chapman, R.C.; Gill, S.J., 1992. Agroforestry practices of non-industrial private forest landowners in Washington State. *Agroforestry Systems*. 19(1): 37–55.

Lewis, D. 2022. Changing the Valley and Removing the Tribes. A Paper presented at the 2022 National Traditional Ecological Knowledge Summit. Oregon State University, Corvallis, Oregon. <https://www.youtube.com/watch?v=cS4Wk2CHBgo> Accessed October 12, 2022.

Petrie, M. 2012. The Land Management Practices of Coos lower Umpqua, and Siuslaw Indians. Term Paper for RNG 477 Agroforestry course. Oregon State University, Corvallis, Oregon. p 1-7. 11 Pretty, J. 2008. Agricultural sustainability: concepts, principles and evidence. *Phil. Trans. R. Soc. B*. 363: 447-465

USDA National Agroforestry Center 2012. What is Agroforestry? Working Trees. <https://www.fs.usda.gov/nac/assets/documents/workingtrees/infosheets/WhatIsAgroforestry07252014.pdf> Accessed October 2022.

Appendices

Appendix 1A: Washington Agroforestry Workshop Announcement



SAVE THE DATE

**PACIFIC NORTHWEST AGROFORESTRY
WORKSHOP**

For technical assistance providers, extension staff, and anyone else who works with farmers, ranchers, and forest landowners to promote agroforestry in the Pacific Northwest.

September 17-19, 2019
Spokane, WA

- **September 17:** Presentations on windbreaks for livestock protection, plant materials, riparian buffer challenges, silvopasture options, pollinator habitat, and more
- **September 18:** Field trip to Davenport Living Snow Fence and other agroforestry discussion
- **September 19 (optional):** Become a registered NRCS Technical Service Provider

For more information contact Shannon Murray:
shannon.murray@oregonstate.edu

Coming spring 2020:
Oregon west side agroforestry workshop
Contact Shannon Murray or Badege Bishaw
(badege.bishaw@oregonstate.edu) for more information!

Appendix 1B: Washington Agroforestry Workshop Program Agenda

PNW Agroforestry Workshop and Field Tour

September 17th - 19th, 2019

Spokane, WA

Enduris Training Facility

1610 S Technology Blvd, Suite 100, Spokane, WA, 99224



**National
Agroforestry
Center**



Oregon State University
College of Forestry



Forestry

WASHINGTON STATE UNIVERSITY
EXTENSION

Program Agenda

Tuesday, September 17th, 2019

8:00am	Welcome and Introductions <i>Andy Perleberg; Washington State University Extension Forester</i>
8:15am	Introduction to Agroforestry & What Resource Managers Should Know About the USDA Agroforestry Strategic Framework 2019-2024 <i>Kate MacFarland; Assistant Agroforester USDA National Agroforestry Center</i>
9:00am	Living Fences in Agroforestry <i>Rich Straight; Technology Transfer Leader, USDA National Agroforestry Center</i>
9:45am	BREAK
10:15am	Management Considerations for Silvopastoral Systems <i>Tip Hudson; Washington State University Livestock and Rangeland Specialist</i>
11:15am	Soil Considerations in Agroforestry <i>Keith Harrington; USDA NRCS Soil Survey Scientist</i>
12:00pm	LUNCH 12:30-1:00PM Lunchtime Program: Introduction to the Silvopasture System at the Lazy R Ranch

Introduction to the Davenport Living Snow Fence (*Andy Perleberg*)

1:00pm	Pollinators in Agroforestry Systems <i>Mace Vaughan; Xerces Society for Invertebrate Conservation</i>
1:45pm	Culturally Important Native Plants: Considerations for Agroforestry Systems <i>Jeremy Pinto; US Forest Service Research Plant Physiologist/Tribal Nursery Specialist</i>
2:30pm	BREAK
2:45pm	Introduction to the USDA NRCS Plant Materials Center <i>Alan Casey; USDA NRCS Plant Materials Center</i>
3:15pm	Riparian Buffer Considerations <i>Richard Fleenor; USDA NRCS Rangeland Specialist</i>
3:45pm	Alley Cropping & Intercropping <i>Badege Bishaw; Senior Instructor, Oregon State University College of Forestry</i>
4:30pm	USDA Support of Agroforestry Systems <i>Carri Gaines; USDA NRCS State Forester</i>
5:00pm	Adjourn for the Day

Wednesday, September 18th, 2019: Field Tour

8:00am	Meet at the Enduris Training Facility
8:30am	Tour Departs
9:00am – 11:15am	Lazy R Ranch (Cheney, WA) <i>Beth Robinette; 4th-generation rancher</i> Lazy R Ranch is a fourth-generation family ranch in Cheney, WA. The Robinette Family raises 100% grass fed beef using Holistic Management principles, a framework that weaves sustainability into their business foundation and allows them to mimic natural ecosystem relationships between grazing animals and grasslands.
12:00pm	Lunch (provided) at Davenport Memorial Hall

1:00pm

Davenport Living Snow Fence Demonstration

Gary Kuhn; NRCS Forester (retired)

Bill Reinbold; Landowner

Snowfences are specialized windbreaks that divert drifting snow to a specific location. The Davenport Living Snow Fence was planted in 2003 to demonstrate establishment, growth, and value of this tool in eastern Washington using technologies developed in other regions. Tour participants will visit this site to learn about use of this windbreak type in agroforestry, including results of a recently published 15-year study of survival and growth at the demonstration.

5:00pm

Arrive at Enduris Training Facility

Thursday, September 19th, 2019: How to Become a TSP (Optional Training)

8:00am – 4:00pm

Optional Technical Service Provider (TSP) training

Carri Gaines; USDA NRCS State Forester

Appendix 2A: Oregon Virtual Agroforestry Workshop Announcement

PACIFIC NORTHWEST AGROFORESTRY VIRTUAL WORKSHOP: Register Now!

For technical assistance providers, extension staff, and anyone else working with farmers, ranchers, and forest landowners to promote agroforestry in the PNW.

November 9-10, 2021

November 9 from 1pm-4pm Pacific

November 10 from 8am-12pm Pacific

- Presentations about agroforestry practices (alley cropping, forest farming, riparian buffers, silvopasture, and windbreaks), related topics (pollinators, climate change), and more.
- Discussions about agroforestry opportunities and training needs in the Pacific northwest.

For more information, agenda, and registration visit:

<http://pnwagro.forestry.oregonstate.edu/eugene-workshop-2021>

Registration link:

https://apps.ideal-logic.com/osucof?key=F3T9-25VWY_K9KH-5PTF_86a6e23f033a

Zoom link and agenda will be shared after registration.

Society of American Foresters (SAF) - CFE credit approval pending.

This workshop was rescheduled from its original dates in April 2020 due to COVID-19.



Virtual field trip: My Brothers Farm, Creswell, OR

In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability. (Not all prohibited bases apply to all programs.)

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.



**National
Agroforestry
Center**



**Oregon State University
College of Forestry**



Forestry

WASHINGTON STATE UNIVERSITY
EXTENSION

Appendix 2B: Oregon Agroforestry Workshop Program Agenda

Pacific Northwest Agroforestry Virtual Workshop

November 9-10, 2021

Audience: For technical assistance providers, extension staff, and anyone else who works with farmers, ranchers, and forest landowners to promote agroforestry in the PNW.

Goals:

- *To provide a basic introduction to agroforestry practices*
- *To identify future training needs*

Program Agenda

Tuesday, November 9, 2021

1:00 pm	Welcome and Introduction <i>Badege Bishaw, Oregon State University</i>
1:15 pm	Windbreaks and Living Fences in Agroforestry <i>Rich Straight; Technology Transfer Leader, USDA National Agroforestry Center</i>
1:45 pm	Silvopasture in the Pacific Northwest <i>Cheyenne Rico, NRCS Soil Conservationist, Coos and Curry Counties</i>
2:15 pm	NRCS Agroforestry Opportunities and Support in Oregon and Washington <i>Arun Jani; USDA NRCS State Agronomist</i>
2:45 pm	Break
3:00 pm	PNW Climate Change Considerations for Agroforestry and the Role of Climate Hubs <i>Holly Prendeville, USDA Northwest Climate Hub</i>
3:30 pm	Producer Perspective My Brothers Farm, Creswell, OR <i>Taylor Larson</i>
4:00 pm	Adjourn

Wednesday, November 10, 2021

8:00 am	Welcome
8:05am	Riparian Buffer Considerations & Choices (including Non-Timber Forest Products) <i>Carrie Brausieck, Snohomish County Conservation District</i>
8:35am	Forest Farming & Non-timber Forest Products Panel <ul style="list-style-type: none">• Moderator: Andy Perleberg, Washington State University Extension• Forest Farming with Log-Grown Mushrooms <i>Justin O'dea, WSU Regional Agriculture Specialist</i>• Evergreen Boughs and Essential Oils (American Tree Farm System or Forest Stewardship Council certified) <i>Neil Schroeder, Oregon Woodland Cooperative</i>
9:20am	Break
9:30am	Alley Cropping <i>Abel Kloster, Resilience Permaculture</i>
10:00am	Pollinators in Agroforestry Systems <i>Corin Pease; Xerces Society for Invertebrate Conservation</i>
10:30am	Plant Materials in Agroforestry Systems <i>Ian Silvernail, NRCS Plant Materials Center, Corvallis</i> <i>Steven Lee, NRCS Plant Materials Center, Pullman</i>
11:15am	Discussion: Identifying Gaps and Opportunities for Agroforestry Training and Outreach <i>Kate MacFarland, USDA National Agroforestry Center</i>
11:45am	Evaluation and Next Steps
12:00pm	Adjourn for the Day



**National
Agroforestry
Center**



**Oregon State University
College of Forestry**



Forestry

WASHINGTON STATE UNIVERSITY
EXTENSION

Appendix 3A: PNW Tribal Agroforestry Webinar Announcement



Pacific Northwest Tribal Agroforestry Webinar

MAY 10TH, 2021: 11AM-12:30PM PDT

SPEAKER: FRANK LAKE, USDA FOREST SERVICE

This webinar will share ideas of examples for how tribal land and resource stewardship and agroforestry practices relate to one another. Agroforestry is the intentional integration of trees or shrubs with crop and/or animal production to create environmental, economic, and social benefits. Tribal/Indigenous agroforestry includes culturally-informed, TEK-based practices that integrate the management of trees, plants, fungi, and animals to serve the needs of Indigenous communities, Tribes, and the broader society.

This event is part of a broader effort to promote knowledge sharing and network development. Other topics to explore include:

- the relevance of agroforestry concepts to Tribal agriculture and natural resource management
- managing non-timber forest products
- fire management for cultural resources
- Tribal nurseries and role of plant materials in agroforestry
- workforce development

[Register Here](#)

Please join us to share your perspectives and learn from others.

Frank is a research ecologist with the USDA Forest Service-Pacific Southwest Research Station, conducting work with PNW and California tribes on Agroforestry, Landscape Restoration, and Wildland fire stewardship.



**National
Agroforestry
Center**



**Oregon State University
College of Forestry**



Forestry
WASHINGTON STATE UNIVERSITY
EXTENSION

Appendix 3B: PNW Agroforestry Webinar Program Agenda

Tribal Agroforestry Webinar Organizer Agenda – 5.10.21

Link to Event Website: [Tribal Agroforestry Webinar Registration](#)

Link to Flyer: [h](#)

<https://drive.google.com/drive/u/0/folders/12x8c00WbTM1xV5wsZa07sBhOZ7Sdv8lb>

Zoom Meeting Link:

Complete Draft of slide deck due Friday 5/7

Time	Session	Who	Description	Logistics
		Shannon Stephanie	Wait for People to log on and ask permission to record	Permission to record (video off/on, audio mute/unmute, Group chat will be saved (not DMs))
11:00-11:05 5 min.	Welcome + Invocation	Shannon introduces Don	Invocation and blessing	
11:05-11:10 5 min.	Agenda/Logistics	Shannon	Introduce the project, project partners, agenda; introduces Frank	<i>Shannon starts screen sharing; 3 slides Introducing project, project partners, agenda; Shannon stops screen sharing, introduces Frank</i>
11:10-11:50 40 min.	Presentation	Frank		<i>Frank starts screensharing</i>
11:50-12:00 10 min.	Q&A	Shannon (guides Q&A) Stephanie (monitors chat); Frank (answers questions)		<i>Shannon thanks Frank for his presentation and opens Q&A; (focus on clarifying questions; move larger questions to discussion); Stephanie monitors chat for questions</i>

12:00-12:25 25 min.	Discussion	Shannon (Lead) Stephanie (monitors chat)		<i>Shannon asks participants to take a minute and write in responses to the questions in the chat box. Remind participants that they can send it to the</i>
				<i>group or DM. enter questions/thoughts into chat. Stephanie will monitor chat and read off questions and comments; participants can unmute to clarify or follow up. .</i>
12:25-12:30 5 min.	Wrap up and evaluation		share out qualtrix webinar evaluation and contact information	

Discussion Questions

- What are some specific examples of Tribal Agroforestry practices in the Pacific Northwest?
 - Managing non-timber forest products
 - Fire management for cultural resources
 - Tribal nurseries and role of plant materials in agroforestry
 - Workforce development
- What are you interested in discussing for future roundtables relevant to Tribal Agroforestry?
- *(future roundtable)* What policies and/or organizations are currently supporting Tribal Agroforestry practices?
- *(future roundtable)* What are some of the barriers/challenges for applied Tribal Agroforestry practices across the region?

Next Steps:

- Frank slides, bio due to steph
- Shannon reach out to Don to ask for invocation per Jeremy's email
- Shannon slides project overview, project partners
- Steph agenda, discussion guidelines, discussion questions, script
- Steph email out discussion questions to group for feedback
- (Kate/Shannon) Qualtrix Webinar Evaluation
 - webinar evaluation
 - open comment box

Appendix 4A: PNW Tribal Agroforestry Roundtable Announcement

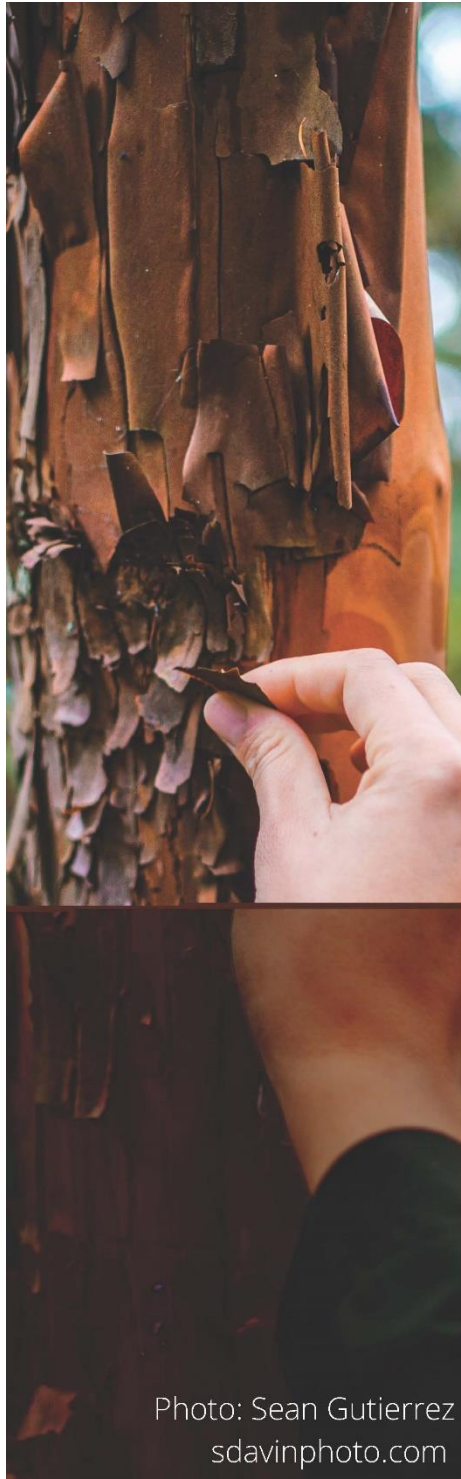


Photo: Sean Gutierrez
sdavinphoto.com

PNW Tribal Agroforestry Roundtable

Wednesday, August 25, 2021
10am - 12pm PT via Zoom

This roundtable is part of a larger project aimed at strengthening knowledge-sharing and access to agroforestry resources in the Pacific Northwest by natural resource professionals, technical service providers, and Tribal and Indigenous communities. This roundtable seeks to build connections and identify future opportunities to support and collaborate with Tribal and Indigenous community agroforestry practitioners in the Pacific Northwest.

Tribal staff and Indigenous community members that are interested in or already implementing agroforestry practices within their community and/or ancestral territories are invited to participate in this roundtable.

Participants will discuss:

- A range of existing and potential Tribal and/or Indigenous community-led agroforestry practices
- Challenges, barriers, and opportunities for adopting and implementing agroforestry
- Select a focused breakout conversation topic to join such as Workforce Development, Nurseries, Fire Management, and Non-Timber Forest Products (NTFPs)

Contact with any questions Stephanie Cowherd (scowherd@ecotrust.org) or Shannon Murray (shannon.murray@oregonstate.edu).

Register
Here



National
Agroforestry
Center



Oregon State
University

Ecotrust



Forestry
WASHINGTON STATE UNIVERSITY
EXTENSION

Appendix 4B: PNW Tribal Agroforestry Roundtable Discussion Questions

PNW Tribal Agroforestry Roundtable August 25, 2021

Discussion 1:

1. Given the recent presentation on agroforestry concepts, what would you like to add to or revise from the crosswalk?
2. Could you please describe examples of Indigenous stewardship practices that align or don't align with these agroforestry concepts and why/why not?
3. What questions come to mind about agroforestry and Indigenous stewardship?
4. Is there anything else you would like to share about these topics?

Discussion 2:

1. Thinking back to discussion 1, what opportunities (or interest) exist for implementing agroforestry concepts at your Tribe, organization, and/or community?
2. What challenges or barriers do you encounter or foresee in implementing agroforestry concepts?
3. Is there anything else you would like to share about these topics?

Discussion 3:

This discussion is meant to be more open ended and a deeper dive into the topics and some of the examples you may have shared during discussion 1 and 2. We want to hear from you about your past, current, future, and/or desired projects and activities related to agroforestry and silviculture and NTFPs, Workforce, Tribal Nurseries, and Fire Management.

1. Please describe some of the **past, current, future, or desired projects** related to [silviculture and NTFPs, Tribal Nurseries, Workforce, Fire Management].
2. What **partnerships** have been established to support these projects? Please describe your experience, what has made them **successful or not successful**?
3. What are some of the **immediate and long term needs** for implementing and supporting these projects and why?
4. Is there anything else you would like to share about these topics?

