



AGRICULTURAL
AND FORESTRY
EXPERIMENT
STATION

- Parking
- Presentation or Tour
- Farm Road or Trail
- Research Plots
- Railroad Crossing

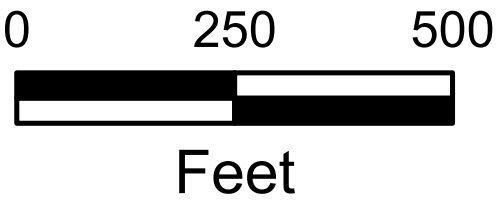
Georgeson
Botanical
Garden

W. Tanana Drive

University of Alaska Fairbanks
Farm

Parks Highway

Geist Road



SCHEDULE

Plan your visit! Select the presentations you would like to attend from the list on the right and choose the time to attend those presentations from the schedule below. Note that multiple presentations are happening at the same time and you won’t be able to attend them all.

2:00

- 1 Registration and welcome from Jodie Anderson, director of the Institute of Agriculture, Natural Resources and Extension

2:30

- 2 Botanical Garden Tour (45 minutes)
- 3 Managing Weeds for Sustainable Crop Production in Alaska
- 4 Cover Crop Effects on Root Maggots and Their Natural Enemies

3:00

- 3 Managing Weeds for Sustainable Crop Production in Alaska
- 4 Cover Crop Effects on Root Maggots and Their Natural Enemies
- 5 Small Grain Variety Trials
- 6 Vegetable Variety Trials for Alaska

3:30

- 5 Small Grain Variety Trials
- 6 Vegetable Variety Trials for Alaska
- 8 Soil Profile Characterization and Monitoring

4:00

- 7 Permafrost Grown: The Great Mulch Study
- 8 Soil Profile Characterization and Monitoring
- 9 Small Grain Research & Breeding
- 10 Forage Cover Crop Trials
- 2 Botanical Garden Tour (45 minutes)

4:30

- 7 Permafrost Grown: The Great Mulch Study
- 9 Small Grain Research & Breeding
- 10 Forage Cover Crop Trials

5:00

- 1 Visit with the researchers over refreshments

1 Registration + Refreshments

- 2 **Botanical Garden Tours** Lacey Higham & Tori Shoemaker
Go on a guided tour of the botanical gardens. Visit the research garden, food garden, native plant garden, children's garden, perennial display gardens and hedge maze.

- 3 **Managing Weeds for Sustainable Crop Production in Alaska** Magdi Elsayed
This research evaluates integrated weed control strategies to reduce weed pressure, enhance crop yield and minimize environmental impacts. This work supports local farmers in adopting effective, site-specific practices that improve long-term soil health and resilience in northern climates.

- 4 **Cover Crop Effects on Root Maggots and Their Natural Enemies** Gino Graziano
This project aims to identify how cover crops with different ratios of clover and radish affect root maggot damage on cabbage crops.

- 5 **Small Grain Variety Trials** Mingchu Zhang & Inga Peterson
These variety trials aims to develop a spring wheat variety for Alaska's climate, choose a feed barley cultivar for malting purposes and finalize a Polish canola variety to be used as an oilseed crop and rotational crop.

- 6 **Vegetable Variety Trials for Alaska** Glenna Gannon
This program grows and evaluates different varieties of fruits and vegetables to understand which are best suited to Alaska’s growing conditions. Researchers look for crops that do well in cold soils and long days, among many other characteristics.

- 7 **Permafrost Grown: The Great Mulch Study** Glenna Gannon & Melissa Ward Jones
The Permafrost Grown Research Project seeks to understand the interactions between agriculture and permafrost in Interior Alaska. The Great Mulch Study is a subset of this project and is focused on evaluating the thermal impacts of 12 mulch treatments on Alaska soils.

- 8 **Soil Profile Characterization and Monitoring** Caley Gasch
The soil science research program aims to characterize soil profiles and understand how soil properties change in response to different land uses across Alaska’s main agricultural regions. By analyzing soil samples for a long list of properties and collecting continuous climate data from the stations, researchers can learn how land use changes the soil ecosystem.

- 9 **Small Grain Research & Breeding Program** Jakir Hasan
This program is developing early-maturing, high-yielding barley, wheat and oat varieties suited to Alaska’s climate. Researchers focus on traits like drought tolerance, rapid growth, disease resistance and grain quality. This work aims to support local farmers, reduce dependence on imported grain and promote long-term food security in the North.

- 10 **Forage Cover Crop Trials** Mingchu Zhang & Inga Peterson
This cover crop experiment is an ongoing project that tests the forage quality of a various cover crops for their rotational schedule, biomass production, hay quality and impact on soil health indicators.