



Tier 1 Tower



Tier 1 Legacy



AgWeatherNet

State-of-the-art automated weather data collection and decision support system for Washington State

Our Mission:

Collect and deliver quality spatiotemporal weather data, site-specific forecasts, and drive decision support in crop, human, and animal health systems.

At a Glance:

In Data We Trust

AWN delivers accurate weather observations, site-specific forecasts, and AI/ML driven decision-support tools for precision agriculture, animal production, and ag-worker health and safety. Washington State agencies also rely on AWN's high-quality weather data and climatology, ensured through comprehensive end-to-end quality assurance.

Lets Connect



Website



Mobile App



weather@wsu.edu



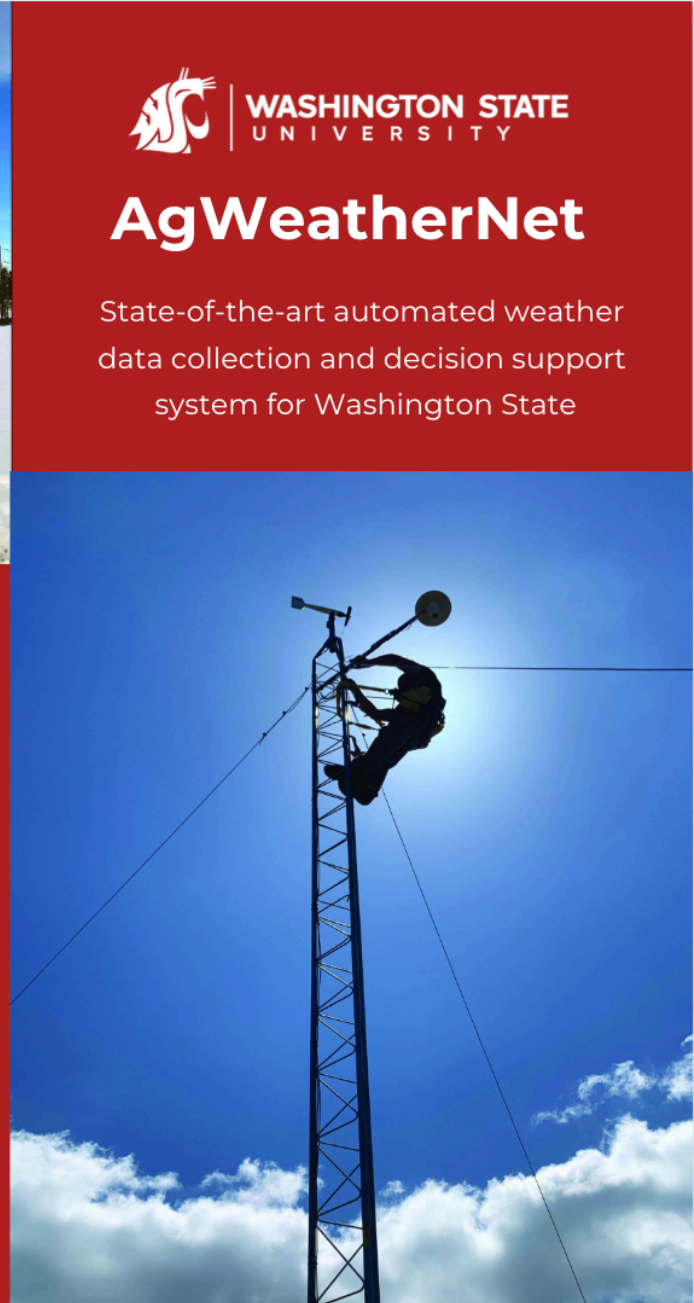
www.facebook.com/AgWeatherNet



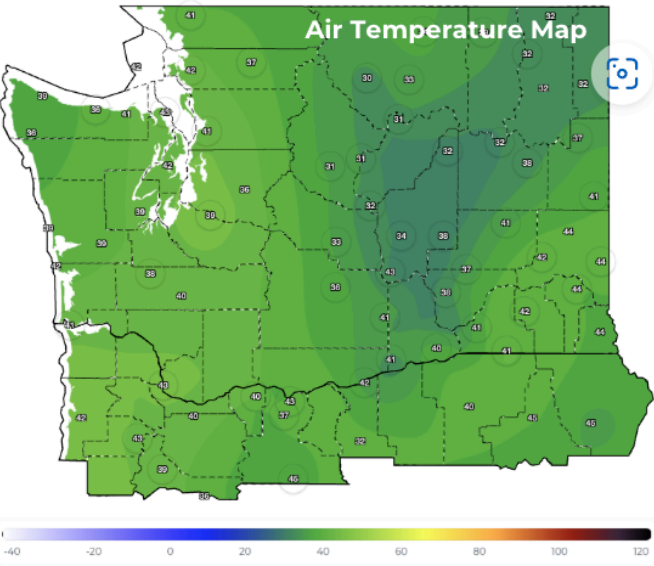
[@AgWeatherNet](https://twitter.com/AgWeatherNet)

WSU Campus Locations

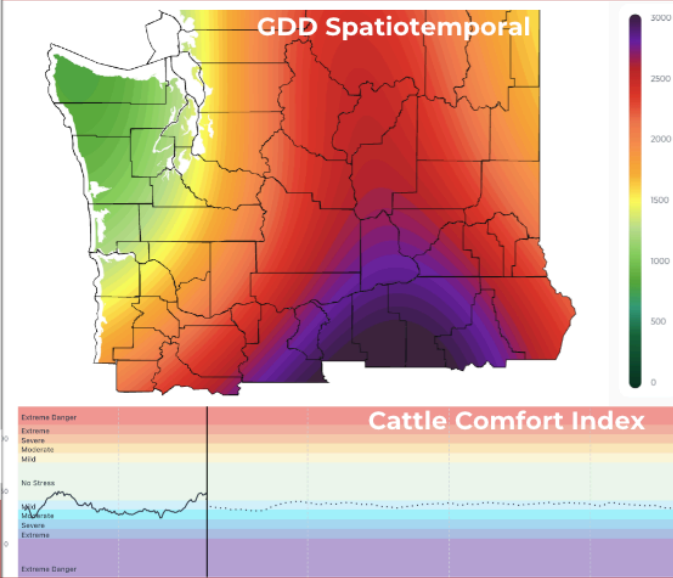
- IAREC Prosser (HQ)
- Pullman (Hulbert 303)
- Mt. Vernon NWREC



| | |
|--------------------------|------------|
| Stations | 369 |
| Years in Service | 39 |
| Registered Users | 27,026 |
| Page Views (2025) | 14.8M |



DECISION SUPPORT TOOLS



OUR NETWORK

AWN maintains three tiers of weather stations and integrates smart farms into our network.

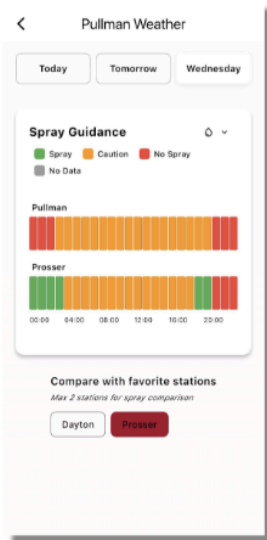
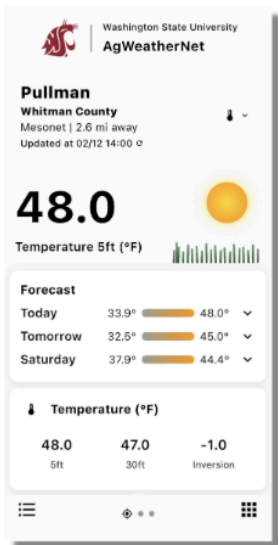
- Tier 1 – Mesonet & Legacy Stations:** Climate-grade Mesonet and Legacy stations meet World Meteorological Organization standards and provide highly accurate weather data across the state at 5 minutes interval. These stations also quantify Air Quality and Soil Attributes at four depths.
- Tier 2 Stations:** These complimentary low-maintenance stations deliver reliable microscale data in areas unsuitable for Mesonet towers and can be customized for stakeholder needs. For example, AWN has partnered with WA Cattle Feeders Association to build a micronet that aids in assessing and alerting weather-related risks to cattle health.
- Tier 3 – Private Stations & Smart Farm:** We also integrate privately owned stations and customized soil-plant-weather sensing networks through AWN Smart Farms platform for localized real-time data-driven inputs management decision making.

SIGN UP FOR A FREE ACCOUNT

<https://weather.wsu.edu>

By signing, users have access to all the data, and forecast driven decision support tools in english & spanish

Mobile App based Decision support



- Site-Specific Forecasts:** We fuse regional ensembles & AWN station data using AI/ML to forecast for next 10 days at hourly interval.
- Forecasts:** Temperature Inversion (36h), Daily Frost (Seasonal), Weekly weather outlook.
- Cold & Heat Stress Models:** For majority of tree fruit, berry crops, animal systems and ag-workers health and safety (e.g., Spray Guidance, AQI).
- Crop Phenology:** Spatiotemporal Growing Degree Days, Soil Degree Days & Chilling Hours tracking.
- Irrigation & Nutrient Management:** For annual and perennial crop systems.
- Custom Alerts:** Voice, Text & Email

