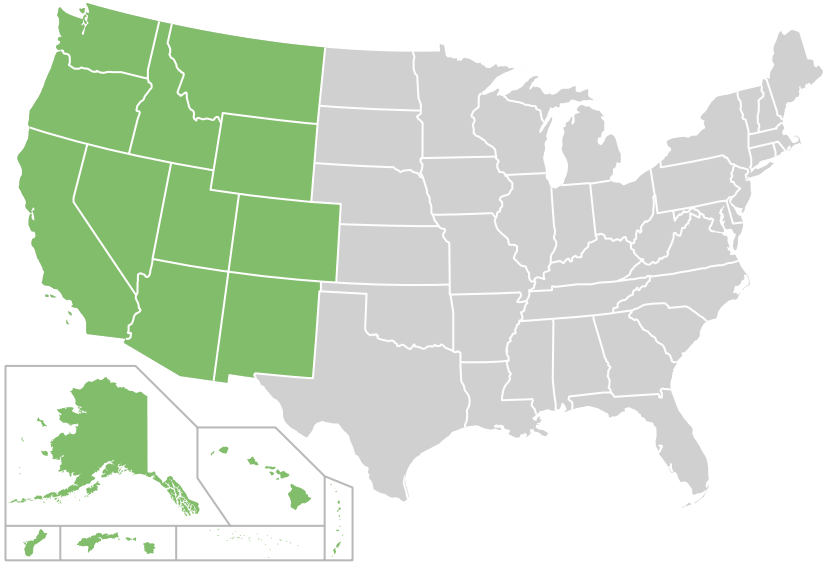
Western IPM Center

USDA United States Department of Agriculture National Institute of Food and Agriculture

National Integrated Pest Management Coordinating Committee Meeting

Washington DC

Mission



- We support the development, adoption and evaluation of integrated pest management to benefit the people, environment and economy of the West.

- Our vision is a healthier West with fewer pests.

People

- **Amer Fayad**, Director
- **Matt Baur**, Associate Director
- **Steve Elliott**, Communication Coordinator
- **Katie Murray**, Pacific Northwest Network Coordinator
- **Al Fournier,** Southwest Network Coordinator
- **Natalie Ferris**, Hawaii & API Network Coordinator
- Project Directors
- **Kassim Al-Khatib**, Invasive Species
- **Jim Farrar**, Project Director
- **Paul Jepson**, Pesticide Risk Communication
- **Peter Ellsworth**, Crop Pest-Losses and Impact Assessment

Our Strategy

Coordinate IPM Efforts across Borders and Boundaries

- Serve as a regional hub for IPM information and resources
- Represent the West in national IPM efforts and programs
- Engage other programs to integrate IPM into related efforts and systems

Partnerships

- WERA-1017 (state IPM programs plus)
- Regional IPM Centers
- Western SARE
- National IPM Coordinating Committee
- Federal IPM Coordinating Committee
- IR-4
- USDA – NIFA
- Universities
- Commodity Groups
- Specialty Crops Groups

Strategies

Communicate IPM Successes and Stakeholder Needs

- Support and amplify state and local IPM efforts by communicating successes widely
- Inform IPM policies by providing timely and relevant information to policymakers
- Improve pesticide regulations by providing grower and user data to regulators

Strategies

- Stakeholder needs assessments
- Pest Management Strategic Plans as needs assessments
- Grant program
- Newsletter
- Western IPM Center Website

Signature Programs

- Invasive Species
- Crop Pest-Losses and Impact Assessment
- Pesticide Risk Management
- IPM Network Coordination

2018-19 Grant Program

- Invasive weed management guide (AZ)
- IPM for medusahead (CA, MT)
- Integration of biocontrol and selective chemistries (AZ)
- Post-fire vegetation management (CA, AZ)
- UAVs in berries (OR)
- IPM of kochia (UT)
- Gene silencing for zebra chip (WA)
- IPM for spider mites (WA, OR)

2018-19 Grant Program

Testing community functional composition of vegetation buffers to improve postfire invasion resistance of Coastal Sage Scrub (AZ, CA)

UC Riverside

- Early treatment such as mowing may initially reduce the invasion potential
- This project has engaged 11 undergraduate research assistants
- Leveraged funds: $288,495 (USFS)
- This award helped in the acquisition of additional funding to understand post-fire recovery in nearby shrublands in the Angeles National Forest

2018-19 Grant Program

Novel control of the potato zebra chip pathogen and its psyllid vector using FANA antisense oligonucleotide gene silencing (WA)

USDA-ARS in Wapato WA

- Identified at least five FANA products that reduced the pathogen and suppressed symptom development in infected potato plants, but did not find conclusive evidence that target mRNA was silenced.

- identified at least one FANA product that appeared to reduce the pathogen in potato psyllids, but did not render the vector non-infective

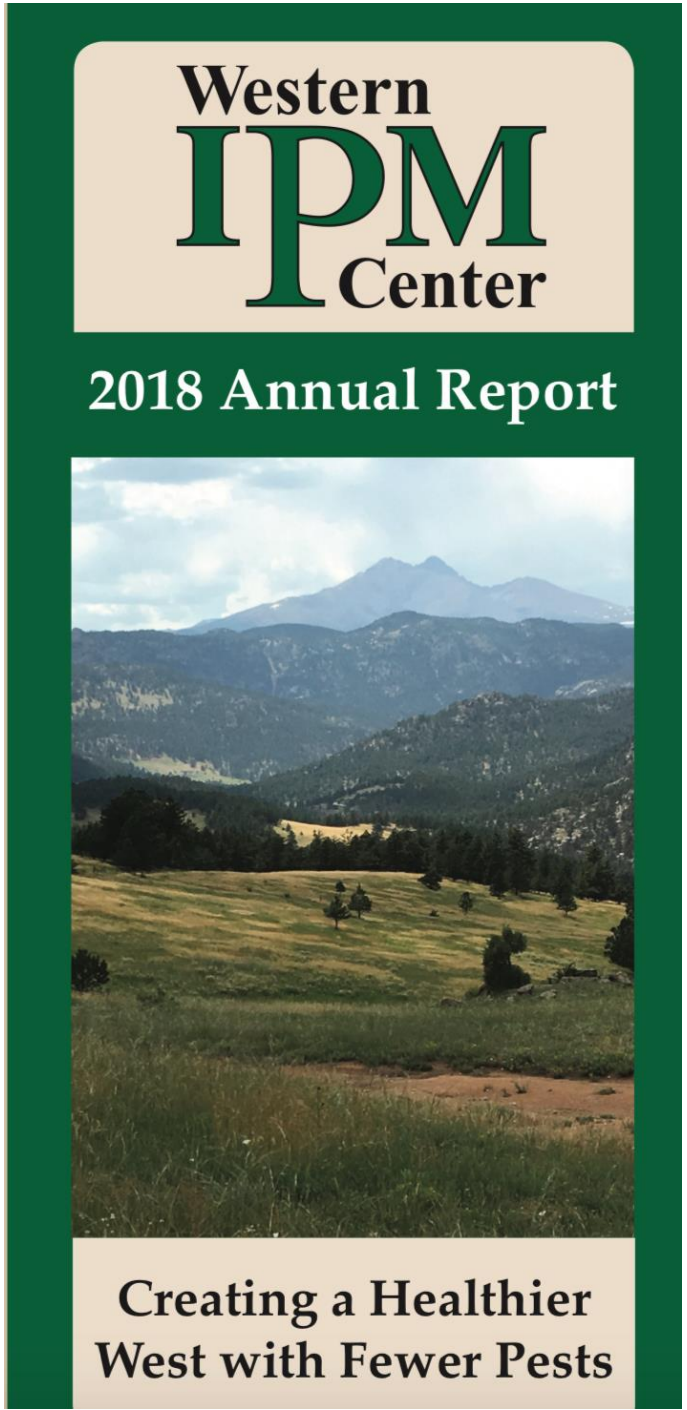
2018-19 Grant Program

Utilizing UAV Technology to Assess Pest and Disease Pressure in Berry Crops (OR)

Northwest Berry Foundation

- A baseline understanding of high-resolution RGB (VARI), NIR (NDVI), red-edge (NDRE), and thermal field imagery's capabilities to identify field impacts from the various pests and diseases in berry crops.
- 31,788 individual images covering approximately 929.7 acres of ground with a total data size of 107.9 gigabytes
- Greater adoption of UAV systems in farm and commercial berry operations to ameliorate IPM programs.
- Revised field scouting protocols and IPM practices that incorporate UAV technology to improve the efficiency and quality of data coming from the field.

Annual Report



Communications Update

- **The Western Front Newsletter**
- 7% subscriber growth – 1,754 to 1,877
- 24% trackable open rate
- Average Clicks per Issue: 851
- Average Number of Items Clicked: 61 (Range: 44 to 88)

- **Westernipm.org Website**
- 7K users, 9.6K sessions
- Top Pages – Home, Grants (projects, priorities, for applicants), People, Newsletters, Lead Story

Pest Management Strategic Plans

- Garlic in California (July 2019)
- Hazelnuts in Oregon and Washington (December 2018)

Priorities

- Invasive Species
- Biological Control of Pests
- IPM and Ecosystem Services
- Soil-Borne Pest Management
- Urban Pest Management
- IPM for Indigenous, Insular and Isolated People
- IPM for Pest-Resistance Management
- New Technologies to Manage Pest
- IPM in New Place
- IPM in Changing Landscape
- IPM Culture and Capacity

2019-2020 Grants

- October 1, 2019
- Projects must also align with one or more of our 11 priority areas to be considered for funding.
- New proposal management system
- Simplify the process by combining documents to download/fill