



United States Department of Agriculture Northwest Climate Hub

Gabrielle E. Roesch-McNally
Fellow

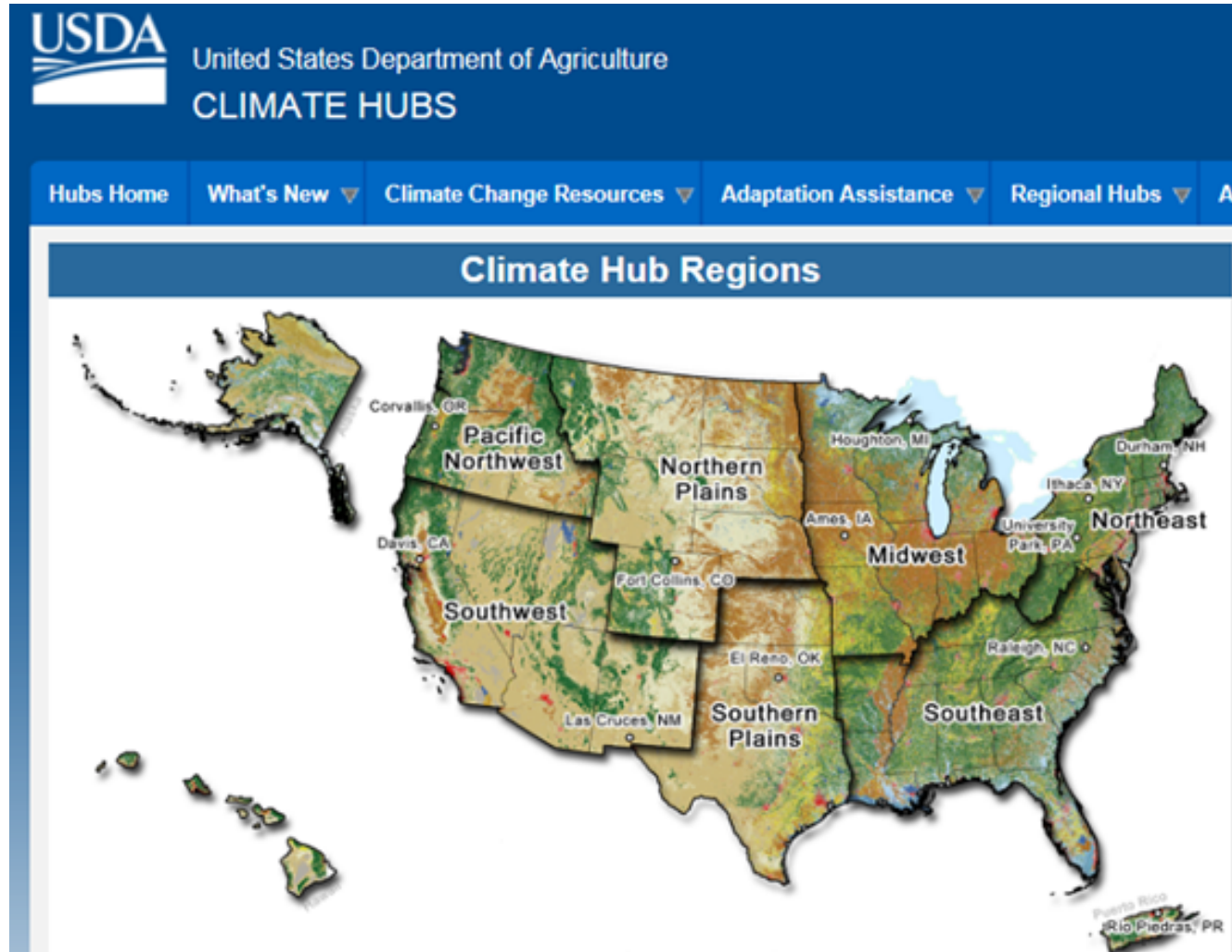
Bea Van Horne, USFS, Director
Mike Strobel, NRCS, Co-Lead
Dave Huggins, ARS, Co-Lead
Holly Prendeville, Coordinator



USDA Climate Hubs

Regional network assisting land managers and extension agents with managing for risks in a changing climate:

- drought
- floods
- wild fires
- changing growing seasons...





USDA Climate Hubs

Focus on Managed Lands:
Farms, Forests, Rangelands

- Technical & Program Support**
- Assessments and Forecasts**
- Outreach and Education**



USDA United States Department of Agriculture
CLIMATE HUBS

PACIFIC NORTHWEST HUB

Search

Climate Hubs Partners Educational material Regional Assessments Regional Data & Research Tools About Us

Home » Northwest Hub

Northwest Hub Welcome Note

The Northwest Climate Hub encompasses Alaska, Idaho, Oregon, and Washington. The purpose of the Hub is to deliver science-based knowledge and practical information to farmers, ranchers, forest landowners, and Native American tribes that will help them to adapt to climate change.

Learn how changing snowpack and snowmelt can impact agriculture and forests.

Northwest Hub

Facebook Twitter Google+ RSS YouTube Flickr

Popular Topics:

- > Northwest Vulnerability Assessment
- > What is forest adaptation?
- > Tools
- > Intermountain Adaptation Partners

News in the Northwest Hub:

- Agriculture and Forestry: Part of the Climate Solution
- Register now for Climate Academy Course offered by DOI
- Climate Learning Network Hosts First Webinar Series

more...

Focus on Climate in the Northwest Hub:

- Tribal Communities
- Forestlands
- Grazing Lands
- Alaska

Events Calendar:

August						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Educational material
Blogs
Newsletters
Webinars
Courses

Regional assessments

Regional data & research
-data visualization

Tools

News and Events



United States Department of Agriculture Northwest Climate Hub

Serves Alaska, Idaho, Oregon and Washington
-Forests, rangelands, agriculture
-Tribal nations

Main office in Corvallis, OR
Bea Van Horne - Director
Gabrielle Roesch-McNally – Fellow
Holly Prendeville-Coordinator

Alaska

Dave D'Amore-Hub representative, USFS
Pacific NW Research Station- Juneau

Regional Climate Change Impacts to Agriculture

- Diversified agriculture in the PNW, heterogeneous impacts across spatial scales and cropping systems
- Climate Changes: increases in maximum dry days; more precipitation falling as rain and snow drought; more extremes (drought to flooding); decreased chilling hours (esp. for tree fruit); increased heat stress and temperature (livestock and plant effects)
- Secondary Impacts: Pests/Disease dynamics; adaptive management (maladaptation vs. purposeful adaptation)
- Adaptive Management: changes to irrigation, dry farming in Western Washington and Oregon; shifting cropping systems; new genetics and varieties
- Climate impacts both yield/productivity as well as product quality



Regional Assessment:

<http://www.climatehubs.oce.usda.gov/sites/default/files/Northwest%20Vulnerability%20Assessment%20Final.pdf>

Agriculture in a Changing Climate

- Regional meeting hosted in Kennewick, WA (March 2017)
- White paper to be out in November (look for presentation at **Northwest Climate Conference**)
 - Workshop participants articulated three specific needs to better support climate change adaptation and mitigation efforts in the region:
 - Strengthen networks of collaboration among institutions, industries and individuals in the Northwest.
 - Understand motivations that inform climate change adaptation and mitigation decisions.
 - Design tools and resources to inform “on the ground” decisions. Whether these are monitoring devices, maps or apps, scientific knowledge shared through customized tools at the right scale for decision-makers will have the greatest chance of achieving impact.

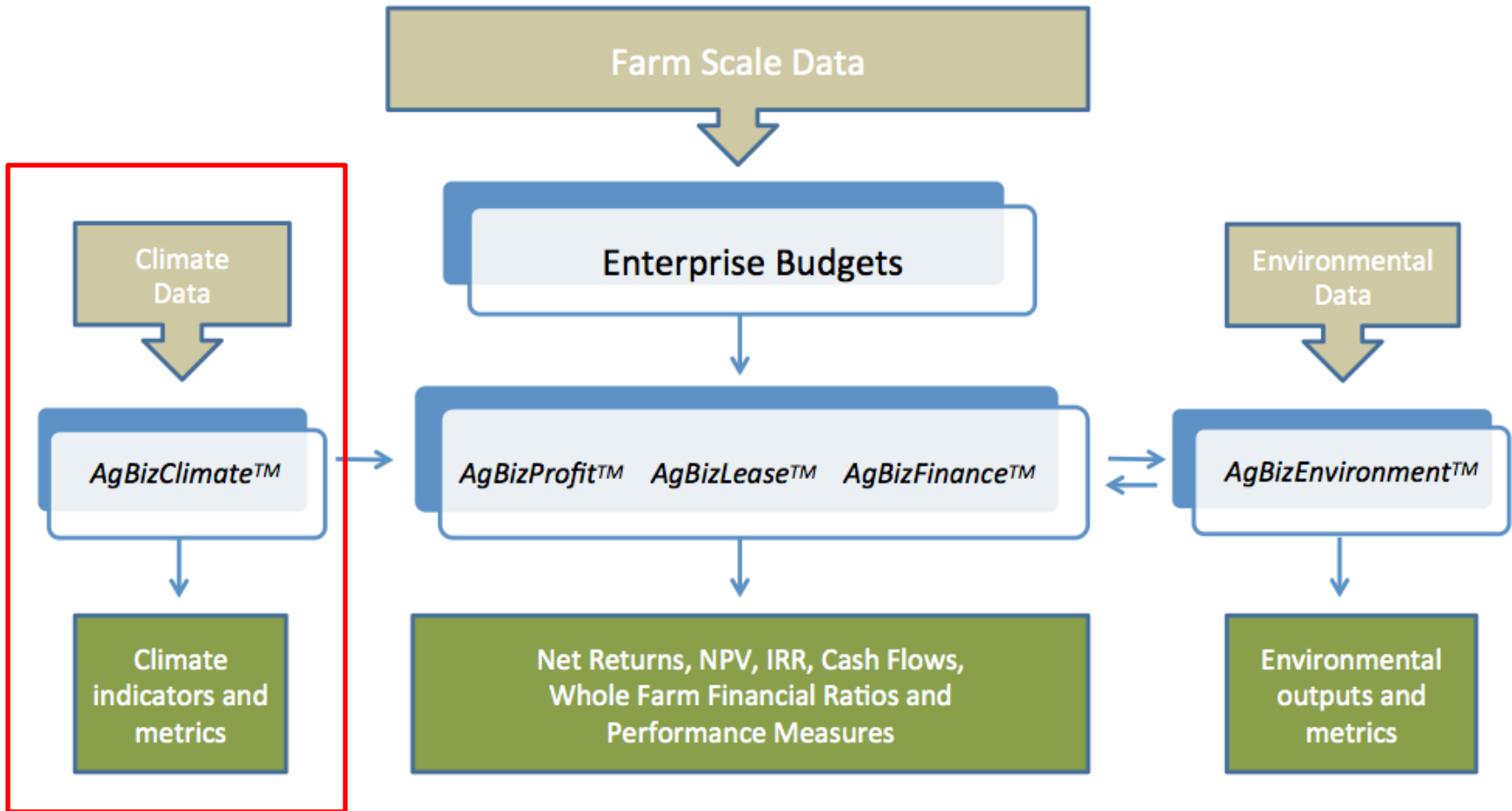
Data is always in season.

Welcome to *AgBiz Logic*!

AgBiz Logic is a suite of economic, financial, and environmental decision tools for businesses that grow, harvest, package, add value, and sell agricultural products.

[Learn more](#)

The *AgBiz Logic*™ Platform



AgBizClimateTM

Critical climate variables that influence management practices and crop/livestock performance:

- Seasonal mean temperature
- Number of days above freezing
- Number of nights below freezing
- Number of warm nights
- Number of consecutive extremely hot days
- Number of consecutive extremely cold days
- Accumulated Growing Degree Days
- Accumulated chilling hours
- 24 Hour Temperature Range
- Number of consecutive wet days
- Number of consecutive dry days
- Accumulated seasonal precipitation
- Snowpack
- Other: _____ (some other variables to probe for: extreme events: rain, wind, hail; livestock heat/stress; variability between extremes; thermal heat index, insect impacts)

Getting more info

- Focus groups with producers (*AgBizLogic* effort)
- Conducting survey with Farm Service Agency and NRCS field agents (examine climate and weather related needs)
- Needs assessment for local producers (specialty crop focus)

Contact Information

<http://www.climatehubs.oce.usda.gov/northwest>

Holly Prendeville

Coordinator

541-750-7300

hollyrprendeville@fs.fed.us

Bea Van Horne

Director

541-750-7357

bvhorne@fs.fed.us

Gabrielle Roesch-McNally

Fellow

541-750-7091

groeschmcnally@fs.fed.us

Dave D'Amore

Representative

907-586-7955

ddamore@fs.fed.us

