

# Discussion Slides for South Umpqua Pilot PSP

SAG Meeting  
ODA HQ Office  
January 16th 2020

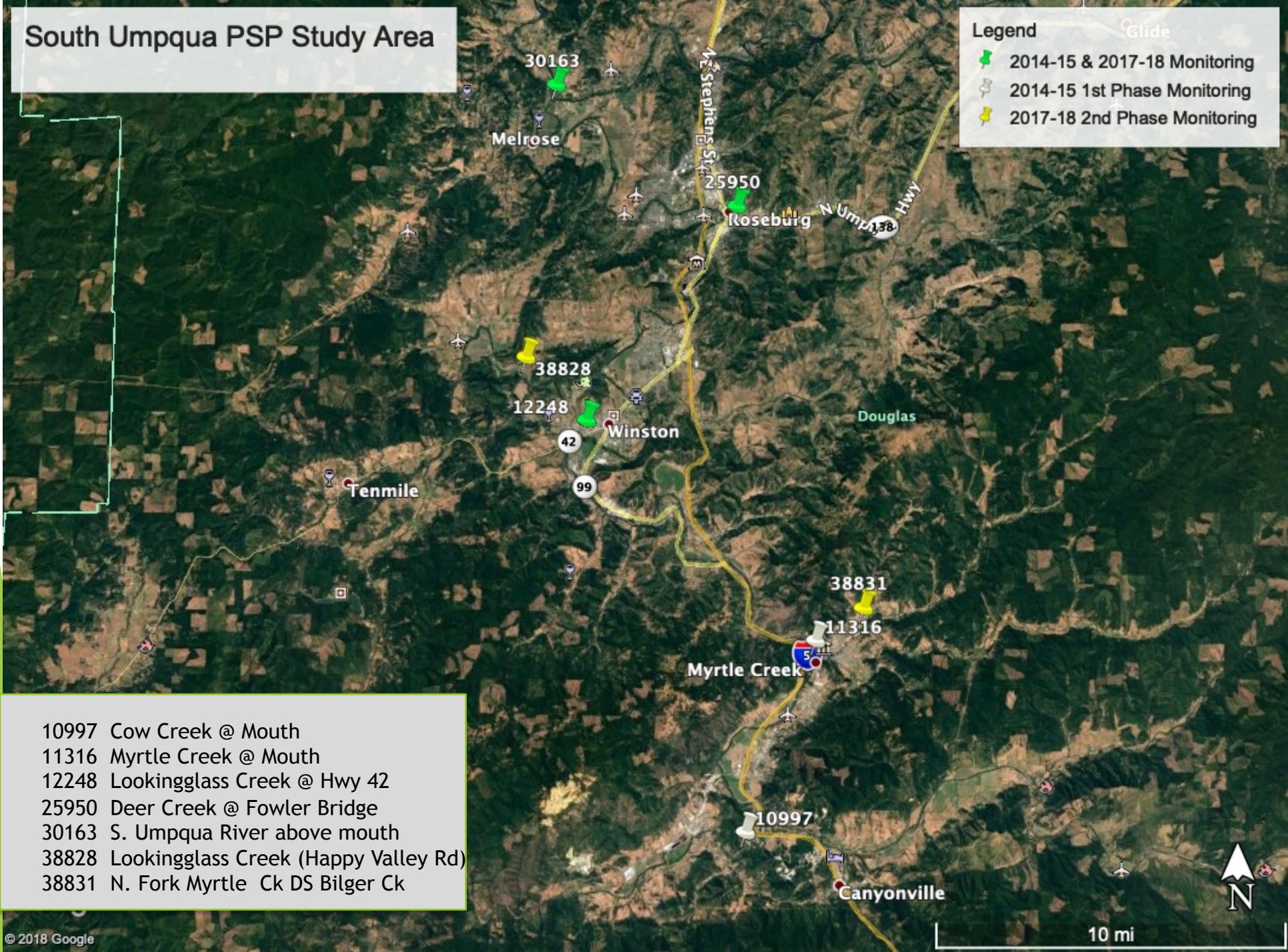
# South Umpqua Pilot History

- ▶ South Umpqua was one of four pilot areas selected for monitoring and partnership building in 2014
  - ▶ All pilot watersheds selected were seen as encompassing multiple land uses - ag, forestry, urban
  - ▶ Forestry in S. Umpqua represents larger land % most other PSPs (other than South Yamhill)
  - ▶ Initial partners: Partners for Umpqua Rivers (PUR), Cow Creek Tribe, Douglas SWCD, OSU Extension
  - ▶ Selected 5 monitoring locations

# South Umpqua PSP Study Area

Legend

-  2014-15 & 2017-18 Monitoring
-  2014-15 1st Phase Monitoring
-  2017-18 2nd Phase Monitoring

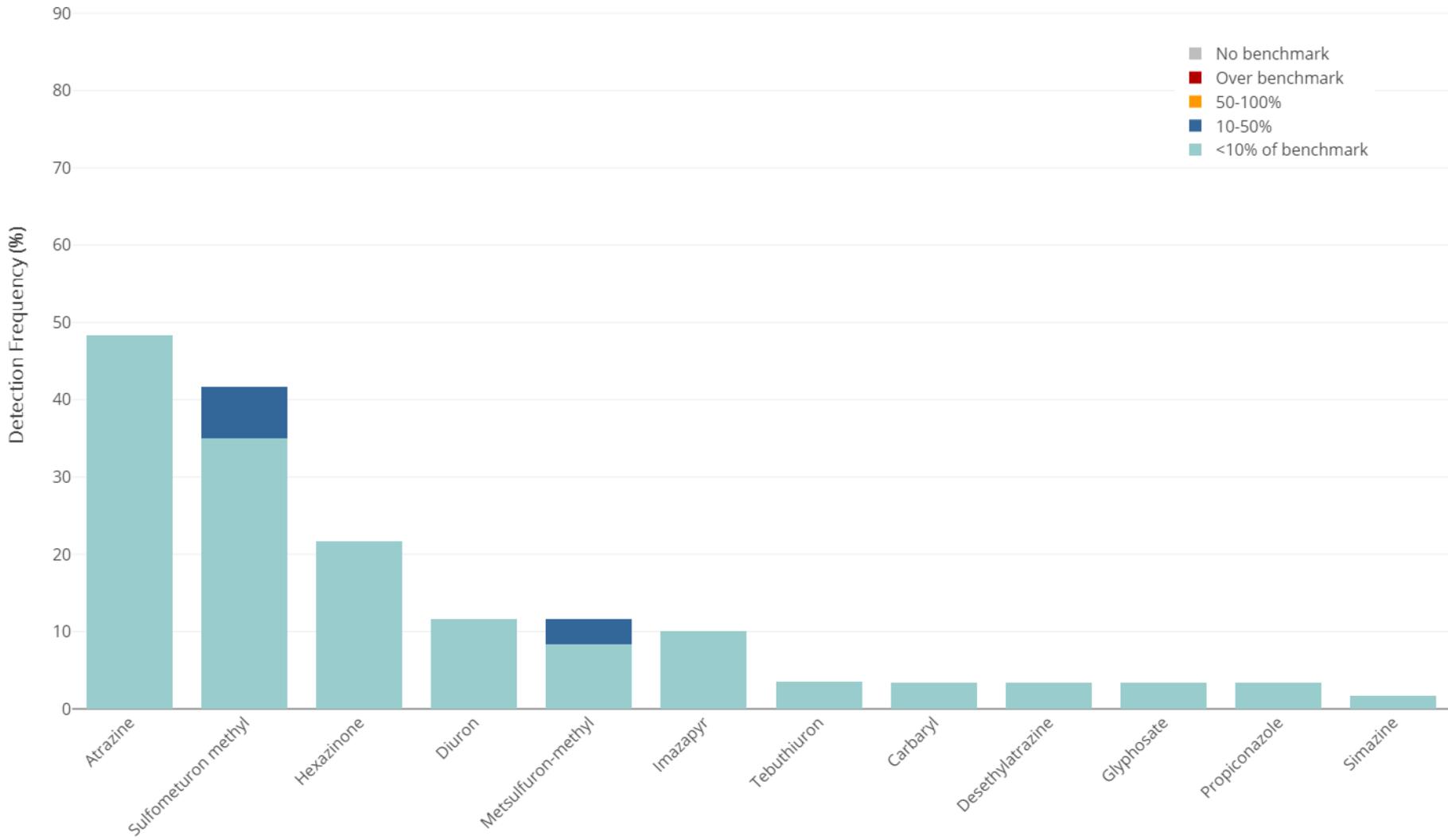


- 10997 Cow Creek @ Mouth
- 11316 Myrtle Creek @ Mouth
- 12248 Lookingglass Creek @ Hwy 42
- 25950 Deer Creek @ Fowler Bridge
- 30163 S. Umpqua River above mouth
- 38828 Lookingglass Creek (Happy Valley Rd)
- 38831 N. Fork Myrtle Ck DS Bilger Ck

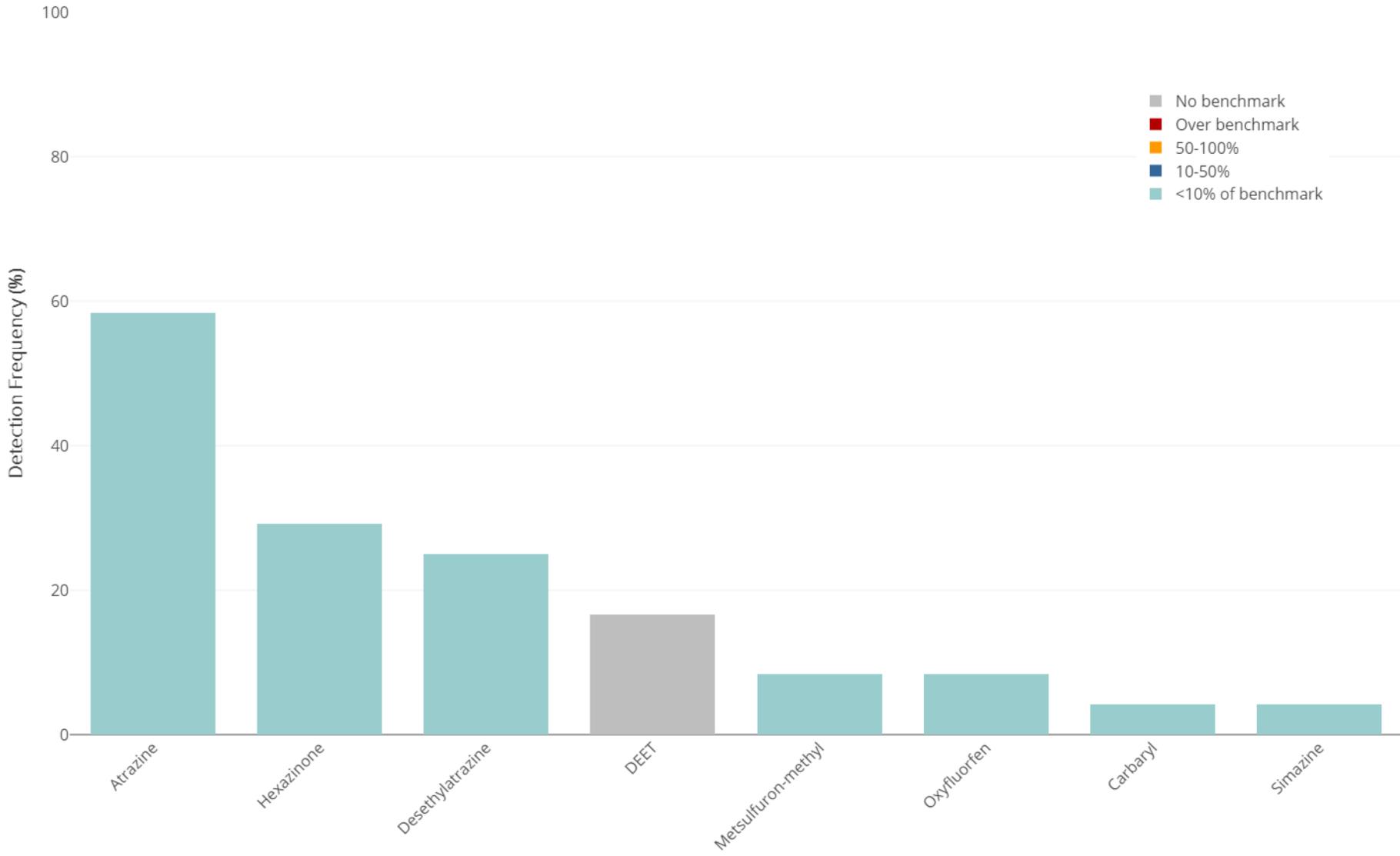
# South Umpqua Pilot: Monitoring Activity

- ▶ Phase I monitoring: Fall 2014 and Spring 2015
  - ▶ Several herbicides registered for forestry and rights-of-way use were detected in streams
  - ▶ Two had max concentrations between 10-50% of benchmark
- ▶ Phase II monitoring: 2017 - Spring 2019
  - ▶ Maintained 3 of 5 original sites and added two new ones
  - ▶ New sites intended to isolate agriculture and forestry
  - ▶ No detections above 10% of a benchmark
  - ▶ Atrazine detection frequency in early 2019 close to 60% (“moderate” priority for action)

# South Umpqua 2014-2015 Detection Frequency



# South Umpqua Spring 2019 (through mid-May) Detection Frequency



# Partner Engagement

- ▶ 2016 meeting with partners to review Phase I data and determine second phase monitoring plan
- ▶ June 2019 partner meeting to share monitoring data & pesticide application information
  - ▶ 5 forest landowners, Extension, Tribe, PUR, state agencies
  - ▶ Learned more about ag and forest pesticide applications
  - ▶ No clear consensus on direction and future of the project
- ▶ Suspended monitoring in summer of 2019 until decisions are made

# South Umpqua Status and Questions for SAG

- ▶ Questions from partners about value of continuing PSP - need to make final decision
- ▶ Opportunities for improvement (e.g., atrazine), but is it enough to continue project?
- ▶ How precise does spray timing information need to be in areas where there are limited upstream agricultural, forestry and rights-of-way pesticide spray activity?
  - ▶ *If water monitoring occurs every other week within a 3 month season, but spraying occurs only during 2 weeks, the sample collections may miss the upstream applications by a week or more*
- ▶ When do we determine enough reconnaissance monitoring has been conducted in pilot watershed? (i.e., locations, timing)