



# Agricultural Utility Group Quarterly Update

December 8, 2020



# Meeting Norms

- Quarterly cadence.
- Please mute yourself to reduce background noise. Press \*6 on your phone or mute yourself on the attendee list by clicking the microphone icon next to your name or phone number.
- If using computer audio, use a headset for best results and to prevent reverb.
- Please do not place call on hold.

# New Team Member



**Dave Murphy** is the new Agricultural sector program manager. He has worked at BPA almost 10 years, and was previously the program manager for the Simple Steps retail consumer-products program.

# Agenda

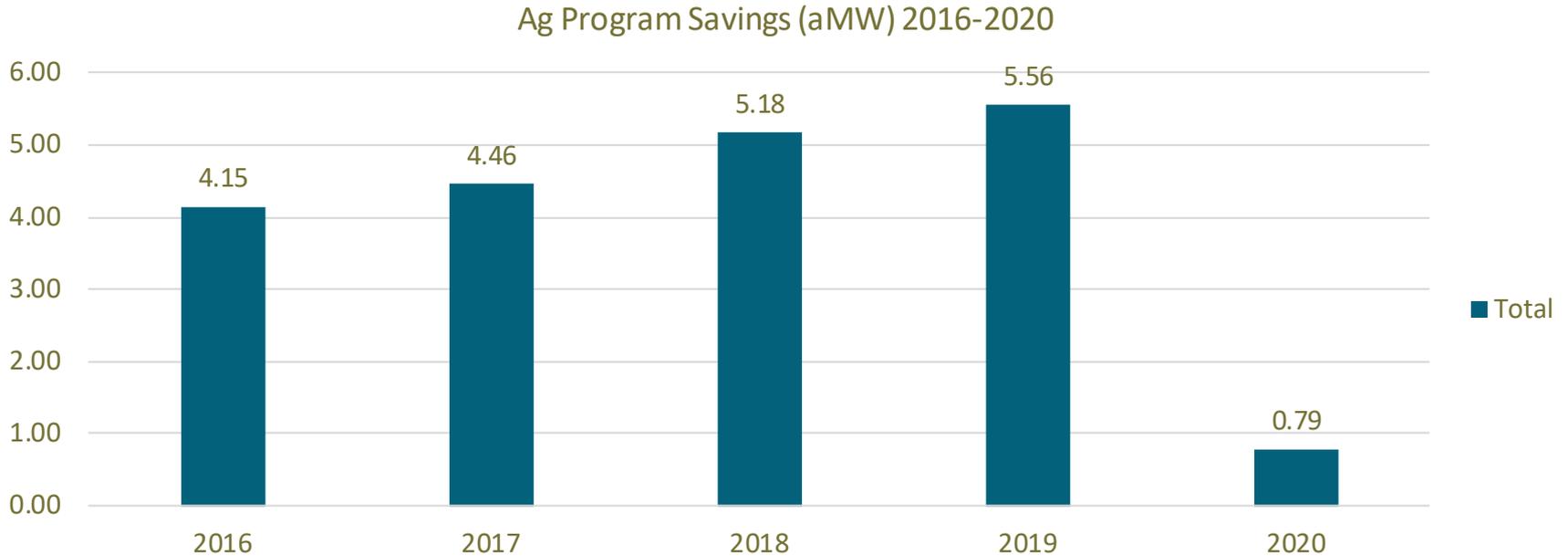
- 1:30 - 1:35 Greetings, cadence, meeting norms, new team members (**David Lee**)
- 1:35 – 1:40 2020 Savings analysis (**Nell Patten**)
- 1:40 – 1:45 Measure Development (**Tom Osborn**)
- 1:45 – 2:00 Utility share out Okanogan & Benton PUD
- 2:00 – 2:05 Web page update, Hemp, COVID (**Dave Murphy**)
- 2:05 – 2:30 Utility round robin

# New Team Member



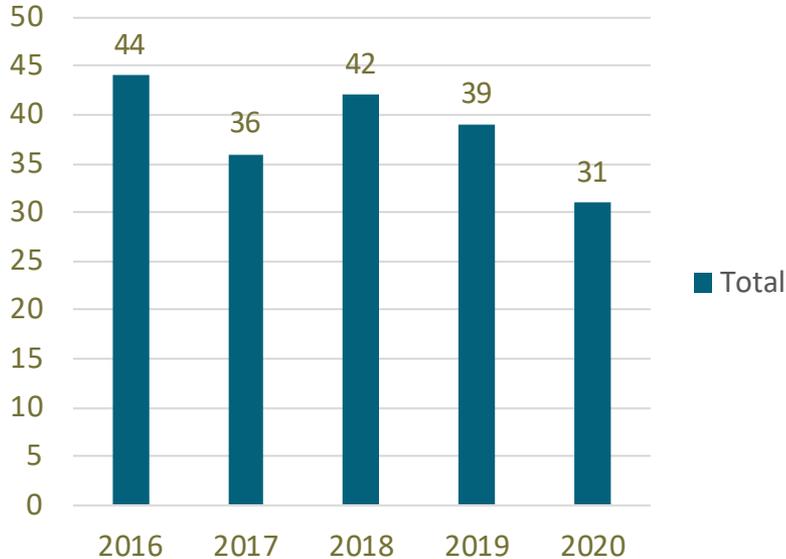
**Nell Patten** is the new Program Specialist II for the Agricultural sector team. Prior to this, she worked at Cascade Energy on Energy Trust of Oregon's Standard Industrial and Agriculture program.

# Ag Program Savings Achieved 2016-2020



# Utility Participation

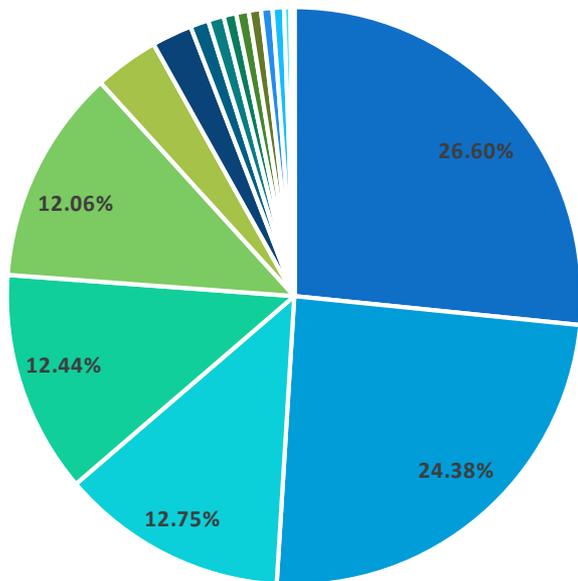
Number of Participating Utilities 2016-2020



2020 Participating Utilities

Benton PUD, Benton REA, Big Bend, Central Elec Coop, Central Lincoln PUD, Clark PUD Clearwater, Columbia Basin, Columbia REA, Columbia River PUD, East End, Emerald, Fall River, Franklin PUD, Glacier , Harney , Inland, Klickitat PUD, Lost River, Mission Valley, Okanogan PUD, Oregon Trail, Raft River, South Side, Surprise Valley, Tillamook PUD, Umatilla, United, Vigilante, Wasco, Wells

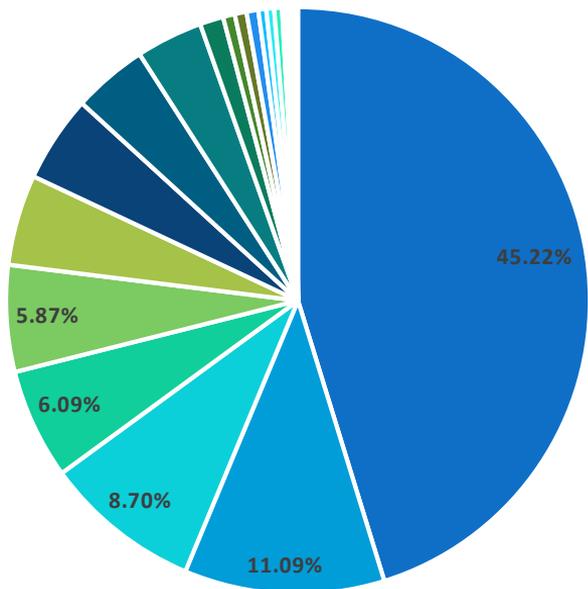
# 2020 Savings by Technology (kWh)



- De-Energization
- Pump VFD
- Custom
- Pump Efficiency Upgrade New Efficient Pump 20 to 500 horsepower Bronze or Stainless Steel impeller
- Sprinkler Package Replacements

- Five technologies accounted for 88% of total savings
- Increase engagement
- Maintain performance

# 2020 Project Volume by Technology

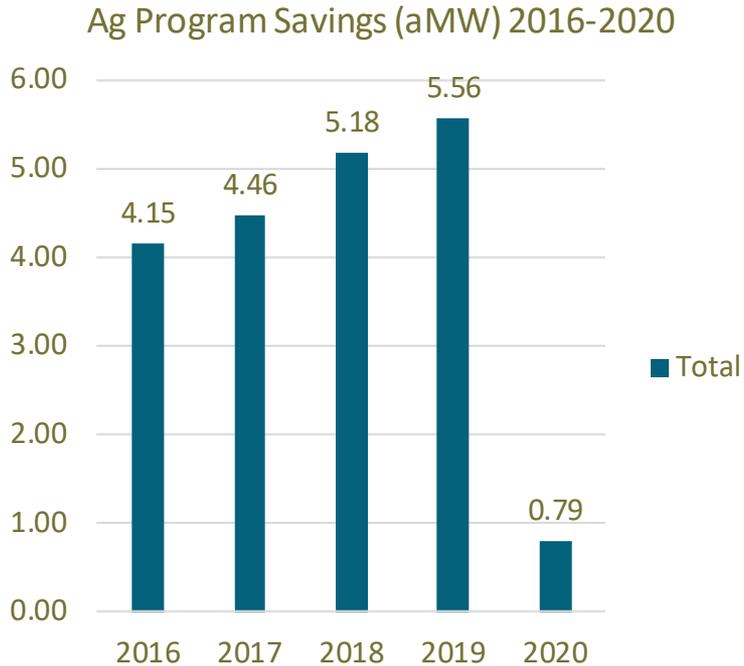


- Sprinkler Package Replacements
- Gasket Replacement
- Pump VFD
- Sprinkler Replacements
- Pump Efficiency Upgrade New Efficient Pump 20 to 500 horsepower Bronze or Stainless Steel impeller

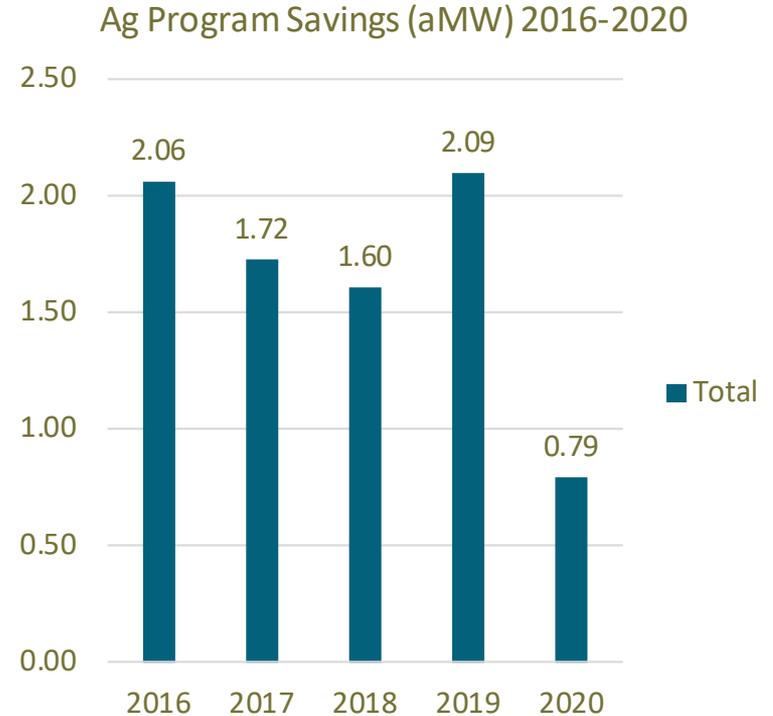
- Five technologies accounted for 77% of total project volume
- Maintain performance
- Extend Strategy

# Ag Program Savings Achieved 2016-2020

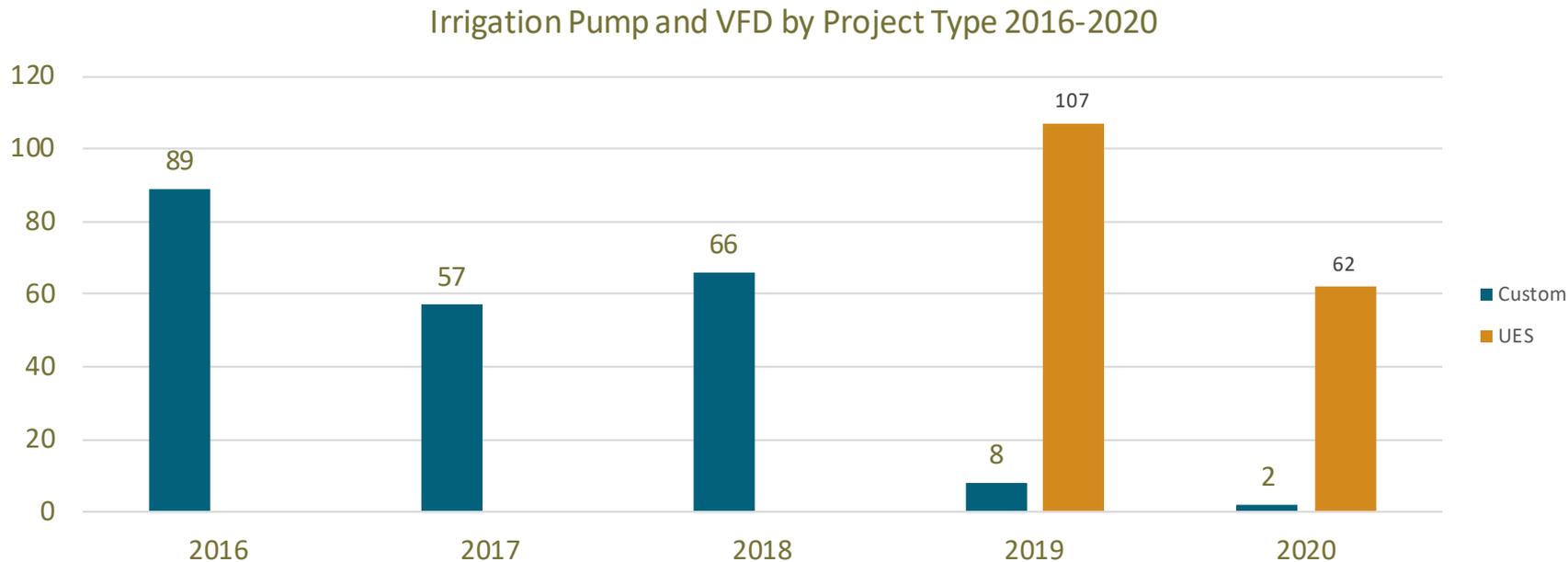
## Including SIS



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# Irrigation Pump and VFD Projects



# Variable Zonal Irrigation

- Allows pivot systems to adjust water application by turning sprinklers on and off at different locations.
- Estimated ~10% energy savings.
- Less than a dozen systems in BPA territory.
- Exploring data to develop a measure in the future.
- Looking for four sites in the Tri-Cities/Hermiston area.

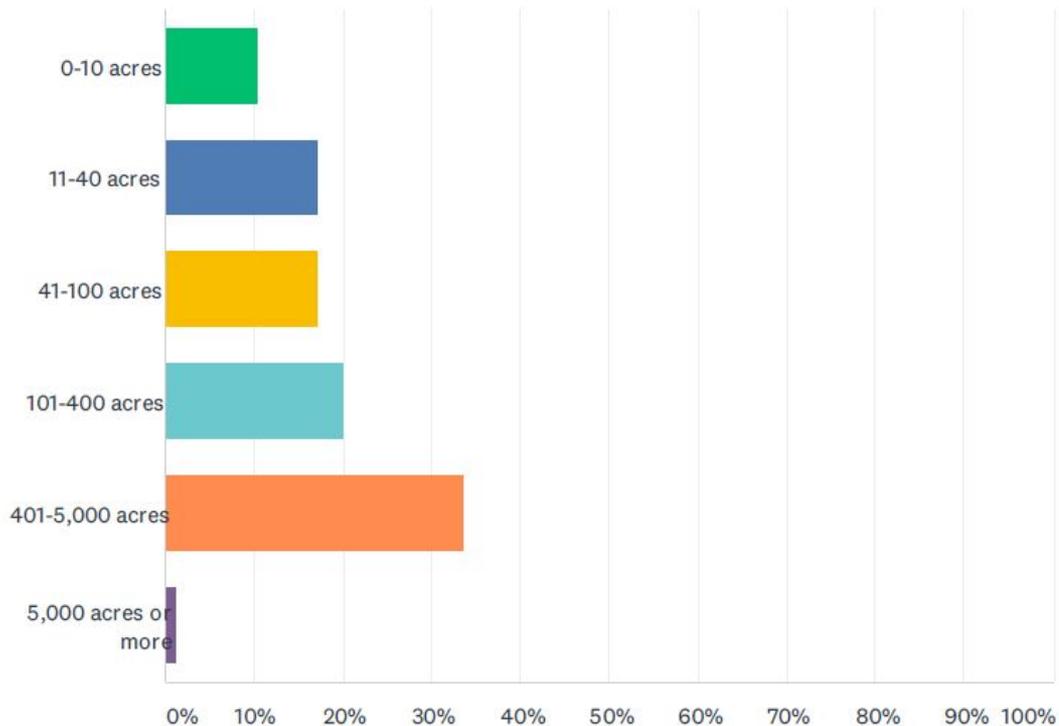


# Hardware Maintenance Survey

- Goal: To gather data on the timing of hardware maintenance across the region for different types of agricultural operations.
- Next steps:
  - Analyze the data.
  - Highlight trends.
  - Present to the RTF.

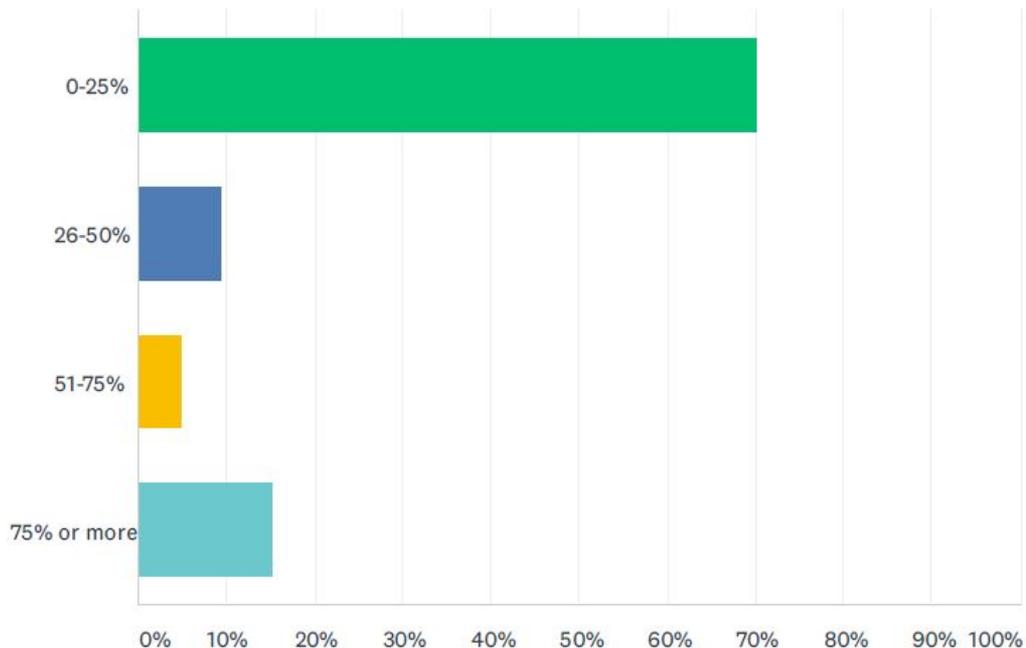
### Q3 Approximately how many total acres do you water with some type of sprinkler irrigation? Please select the best response.

Answered: 238 Skipped: 3



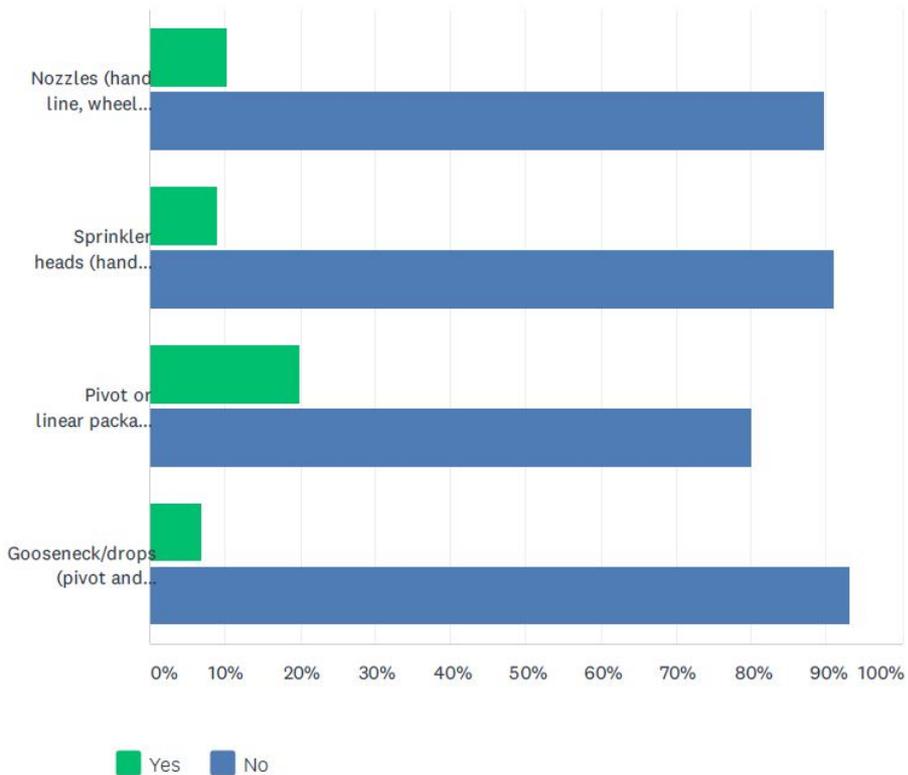
Q4 What is the approximate percentage of acreage irrigated with a lift greater than 200 feet? Lift is defined as the amount of elevation from the pumping water level, either in a well or from surface water, to the highest elevation in the irrigated field. Please select one.

Answered: 235 Skipped: 6



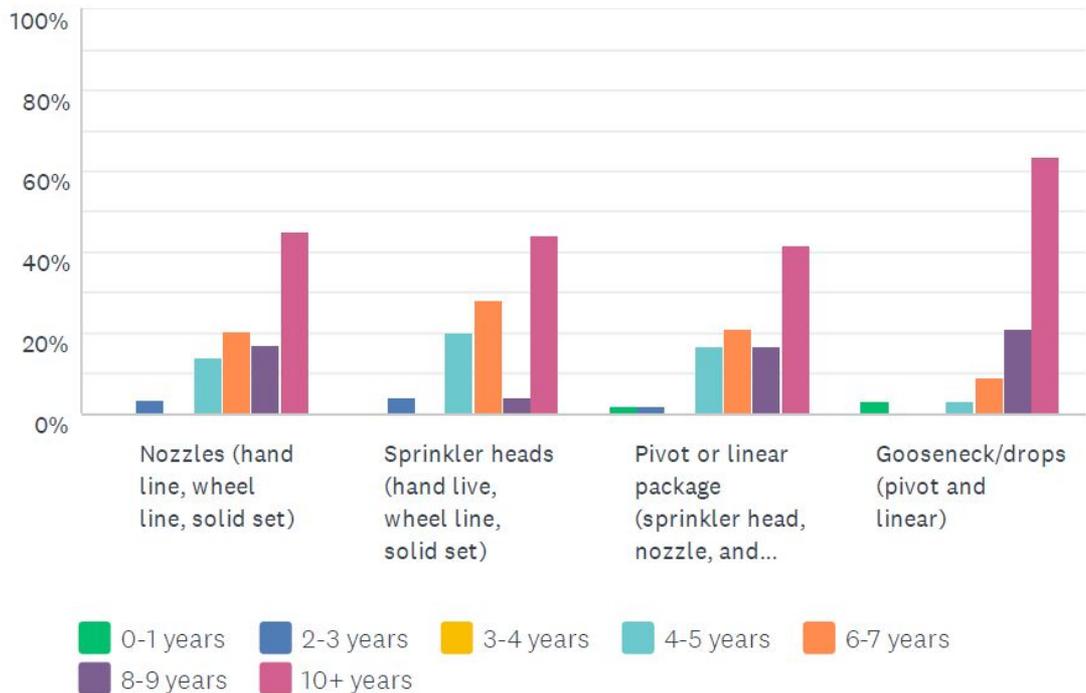
### Q11 Have you received any incentives or rebates from your utility irrigation efficiency program for these maintenance components?

Answered: 234 Skipped: 7



## Q12 How often would you have replaced irrigation components without the utility irrigation efficiency program? Please respond only if you answered Yes to any of the options in the previous question.

Answered: 57 Skipped: 184



# Utility Share-out

- Kim Johnson, Okanogan County PUD
- Terry Mapes, Benton PUD

# Website Refresh

- Streamline content
  - High visibility for pertinent information (top of page)
- Program Essentials
  - One-stop location for program-related materials
    - IM Summary.
    - Guides & Best Practices.
    - Program Resources.
    - Marketing Content.

# Hemp

- Oregon Department of Agriculture will put on hold application to allow operation under the 2018 Farm Bill.
- Remain under 2014 Bill.
- Prevents COUs from offering payments to hemp producers and processors.

# COVID-19

- BPA Incident Management Team continuing current policy.
- Telework only, very limited site visits.
- Potential for multiple regional meetings to be cancelled or delayed.
  - Annual utility meetings.
  - Dairy associations.
  - Irrigation districts.

# Round Robin

- What is working?
- What is not?
- How are you adjusting to sunset of SIS?
- How are smaller measures working for you?
  - Thermostatically controlled outlets.
  - Stock tanks.
- How can BPA help?