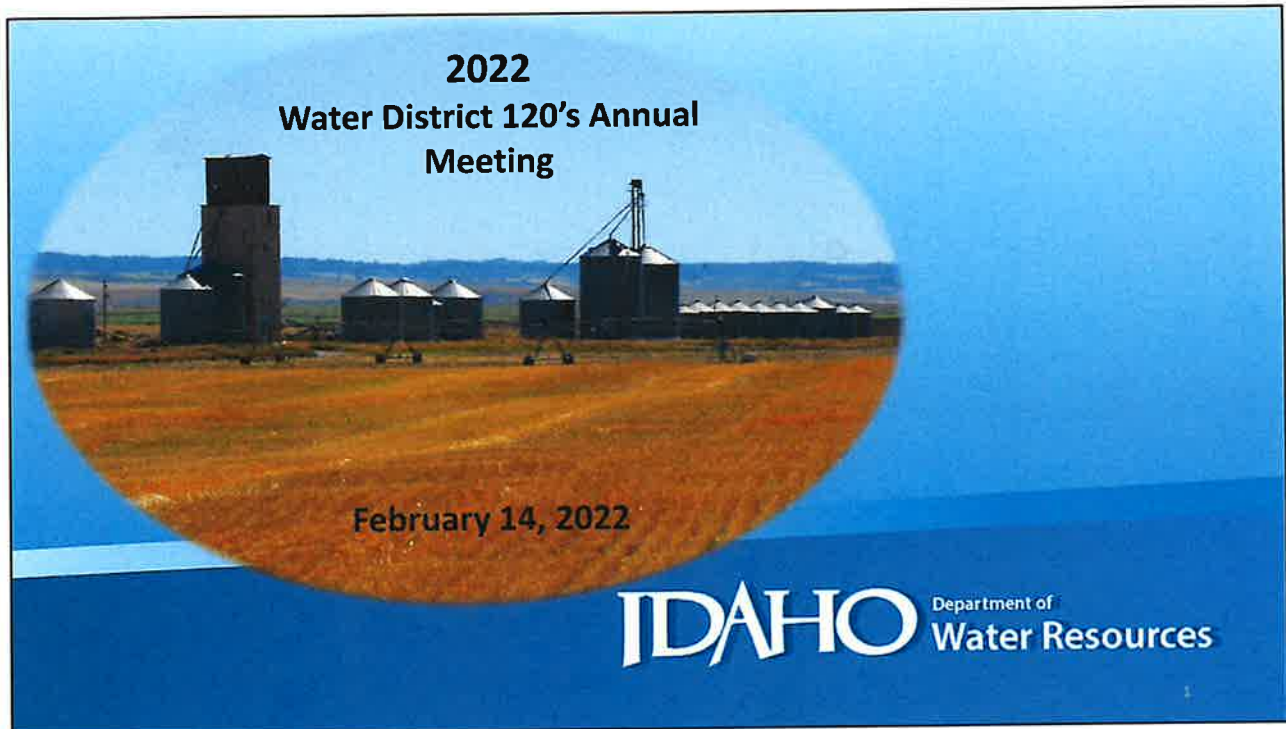
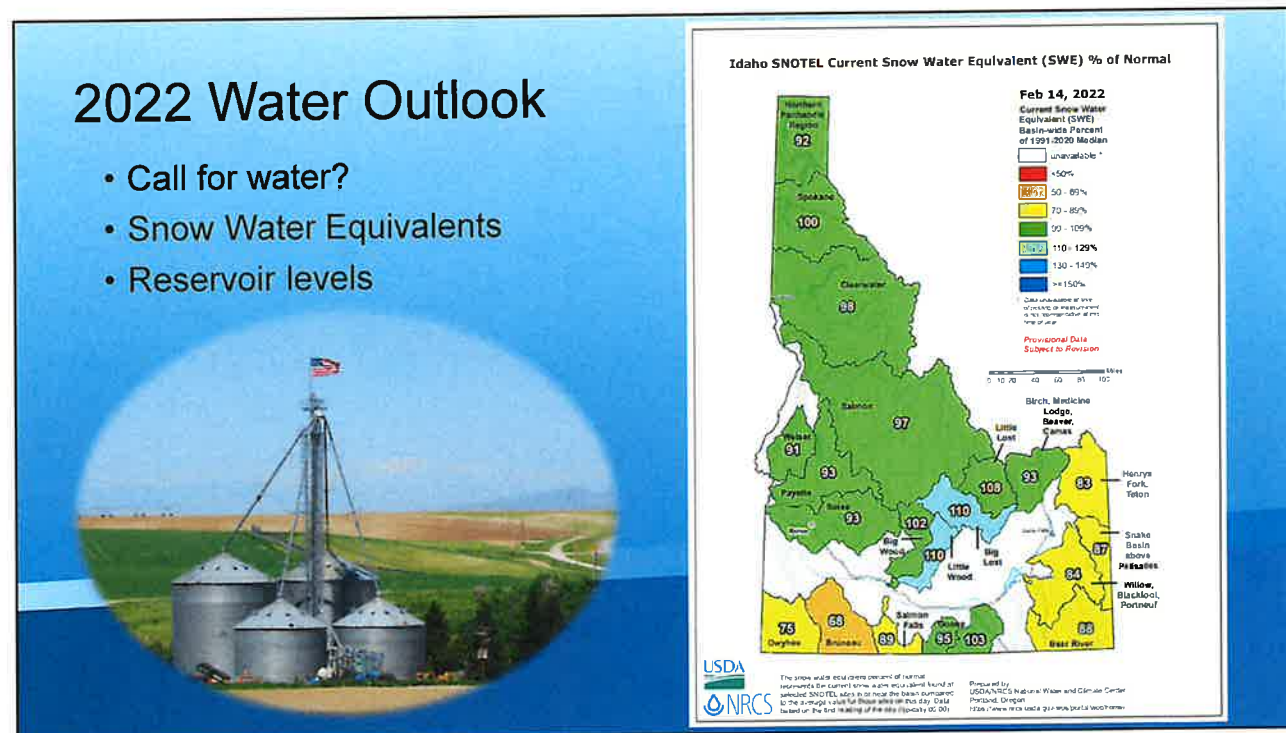




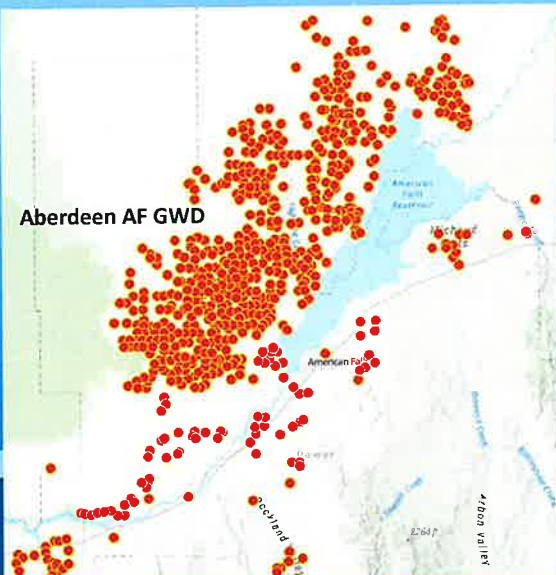
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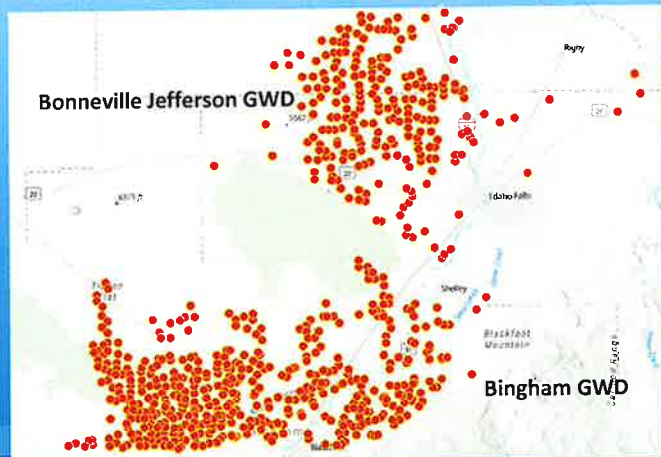
2



Aberdeen AF GWD

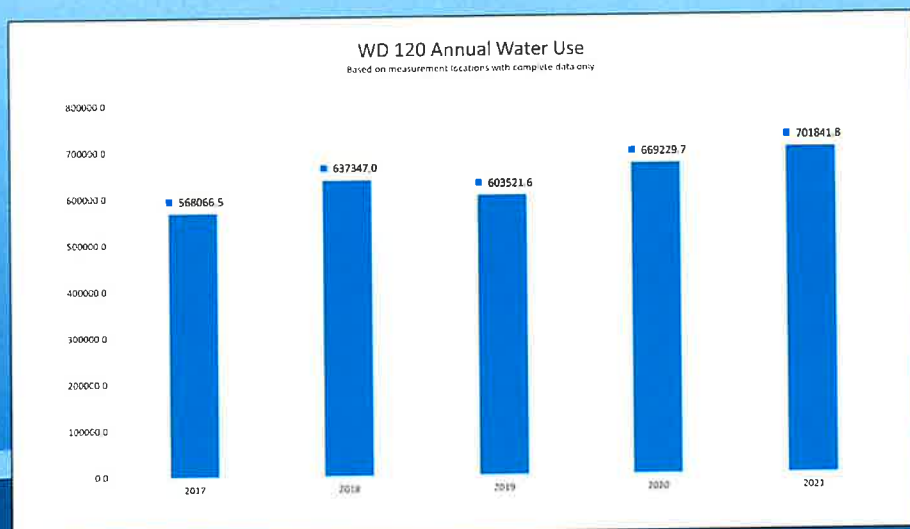


Bonneville Jefferson GWD



Bingham GWD

WD 120 Annual Volume Pumped



5

Protecting your meters from the elements!

- Title 42-607 **Measuring devices must be kept in good working order**
- Suggestions for Protecting Meters
 - 3-5 gallon plastic bucket
 - Piece of Conveyor Belt
 - Metal box



Bucket was cut-out
to fit over curvature
of meter



6

Meters issues in the Field, 2021

Sparling meters registering gallons while not pumping



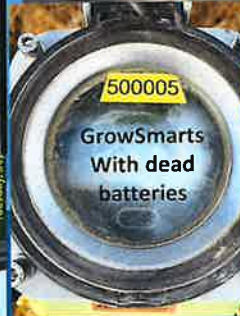
Sparling meters with blank screen



Valmont meter with blank screen



Seametrics meter with moisture in display



7

Meters issues in the Field, 2021

This type of meter needs a protective covering for (plastic) screen



McCrometer Meters



Siemens 5000 Series



GrowSmart Meters



8

If you have these meters, they **need to be protected** from the elements!



Unprotected Siemens Sitrans F M Mag 5100 W or 5000

Unprotected McCrometer Ultra Mag



Protected meter head, this is probably the best that we have seen in the field.

"No direct sunlight exposure"
Unprotected Siemens 8000



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Approved Installations

Siemens Sitrans 5100W 5000 Series. External power needed, internally grounded, install vertically. Protect meter readout from weather.



Siemens Sitrans F M Mag 8000, battery operated, external power not needed, internally grounded. Protect meter readout from weather.

McCrometer Duramag, battery operated but requires external DC power supply, grounding wires required.



McCrometer Ultra Mag, external power, grounding wires required. Protect meter readout from weather.

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Field Season Review

- **All measuring devices should be inspected by the owner/operator prior to the beginning of the irrigation season and at other interim times.** IDWR staff will be doing spot checks during the irrigation season and notifying owner/operators of any deficiencies or maintenance issues. Owner/operators will be given a limited time to fix any issue.
- **Meters with batteries: Make sure batteries are checked prior to beginning of irrigation season.** Replace them if indicator shows $\frac{1}{2}$ or less power remaining (check with your dealer/manufacture). Most battery life on approved meters is listed as 3 to 5 years. We are starting to see the Lindsay GrowSmart meters with blank displays which is probably a result of a dead battery.

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Snake River Plain Aquifer



Figure 1. Map showing the location of the Snake River Plain. From http://pubs.usgs.gov/ha/ha730/ch_4/H-Snake_River1.html

The Snake River Plain controls the economy of much of southern Idaho, north and west of Pocatello. Three million acres of farmland on the Snake River Plain are irrigated, with approximately one third from wells and the remaining two thirds from canals.

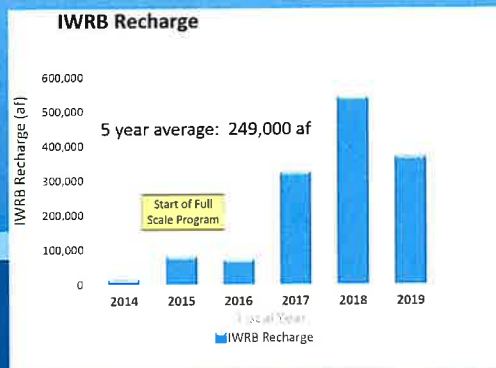
(Digital Geology of Idaho)

12

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Eastern Snake River Plain Aquifer Recharge

The 2018 Recharge program set a record by recharging more than 525,000 acre-feet of water into the aquifer, doubling the annual goal. The Snake River plain aquifer rose by more than 1.7 million acre-feet in one year, the largest single-year increase in 8 decades. The Recharge Board has committed to recharging an average of 250,000 acre-feet of water into the ESPA each year. 2019 was the third consecutive year to exceed the annual goal. There are more than 25 recharge basins/sites in the ESPA.



Recharge for the 20/21 is reported to have been 130,463 AF.

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Upper Valley Recharge Site?

The Idaho Water Resource Board has **ear marked \$75 million of funding to build a recharge site in the Upper Valley**. These funds are a portion of the \$195 million in federal American Rescue Act funding. On Feb. 11, the board's Aquifer Stabilization Committee will hear a consultant's presentation regarding a study of **three possible options for an Upper Valley site**.

Two of the proposals would entail building pipelines and pumping water to a spill basin—adding power bills to the cost of recharging water.

Project 1: Pass a pipeline beneath Interstate 15 and transport water to a spill basin within the lava flows of Hell's Half Acre, located between Idaho Falls and Blackfoot.

Project 2: A pipeline that would pump water from the Roberts area to a spill basin near Mud Lake. However, cost of materials to build a pipeline have risen dramatically in recent months. Estimates for this project were around \$70 million in November of 2021 and are now more than \$300 million.

Project 3: The third project being considered would avoid the need for pumping. Water would be gravity fed west of the state's current Egin Bench recharge site into a spill basin in close by lava fields.

Cost wise, State officials believe the Egin Basin site remains a viable option and would add between 150 CFS and 350 CFS of Upper Valley recharge capacity.

Several other small projects that would add up to 50 CFS of recharge capacity each are also being considered.

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2021 Field Season Review

- Flow meter calibrations

Non approved meters that received a variance will need to be calibrated every 3 years. (Primarily subdivisions and municipalities)

- End of the year readings

Power to non-battery flow meters needs to be left on through the end of November so readings can be obtained. Meters need to be wired so that when the pump is turned off during irrigation season the meter power is still on allowing meters be read.

- Flow meter inspections

Flow meter spot checks and mid and end of year meter readings found meters that were not working. Owners should be receiving letters from the Boise IDWR Office concerning the nonworking meters. These meters need to be repaired and working by the beginning of the 2022 irrigation season.

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Water District 120 Site Visits for 2021

Over 150 + site visits by IDWR employees

Included

- ☐ New flow meter installations
- ☐ Flow meter checks
- ☐ Beginning, mid, and end of irrigation season flow meter spot check readings



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Farm & food sectors have massive impact on U.S. & Idaho economy

According to the Financial Condition report, Idaho farmers and ranchers brought in **\$8.88 billion** in farm cash receipts during 2021, which was **9 percent higher** than the 2020 total and above the previous record of **\$8.79 billion** set in 2014.

Idaho's top crop, potatoes, brought in a record **\$1 billion** in cash receipts during 2021, according to the report. That was an **8 percent** increase over 2020.

Cash receipts for Idaho's wheat industry totaled **\$560 million** in 2021, a **3 percent** increase, and cash receipts for the state's hay farmers totaled **\$554 million**, a **21 percent** increase compared with 2020.

Idaho sugar beet farmers brought in **\$396 million** during 2021, **19 percent** more than during 2020, and Idaho barley growers brought in **\$246 million** in cash receipts last year, a **3 percent** increase.



Information from Idaho Farm Bureau Federation January 7, 2022

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***Thank You
For your
dedication
And hard work.***



***You make a positive difference
in the World!***

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18