

# IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

Water Use Program Annual Stakeholder Meeting Water Supply Engineering Section July 19<sup>th</sup>, 2023

# Agenda

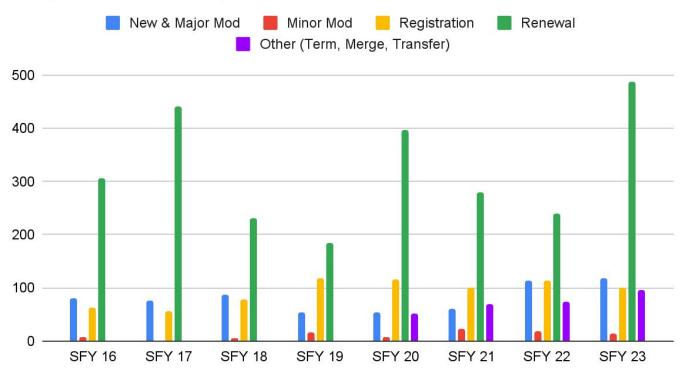
- SFY 2023 Program Accomplishments
- 2022 Water Use Summary
- WACOP Database Project Update
- Drought Update
- Jordan Aquifer Update
- SFY 2024 Anticipated Work
- Proposed SFY 2024 Water Use Program Annual Fee
- Proposed Rule Changes / EO10
- Q&A

- In March, Mark Moeller transitioned to SE Iowa District Engineer in the Land & Water Bureau
- Carmily Stone is now the Water Supply Engineering Supervisor
- Heidi Cline accepted the Drinking Water Program Coordinator position - will backfill ES position in Water Allocation & Use
- Stakeholder meeting held 7/16/2022 to set 2023 Annual Fee; approved by EPC on 8/16/2022
- Invoiced & tracked ~3300 Annual Fee payments
- Sent ~515 Renewal Applications; Issued ~484 renewed
   Permits

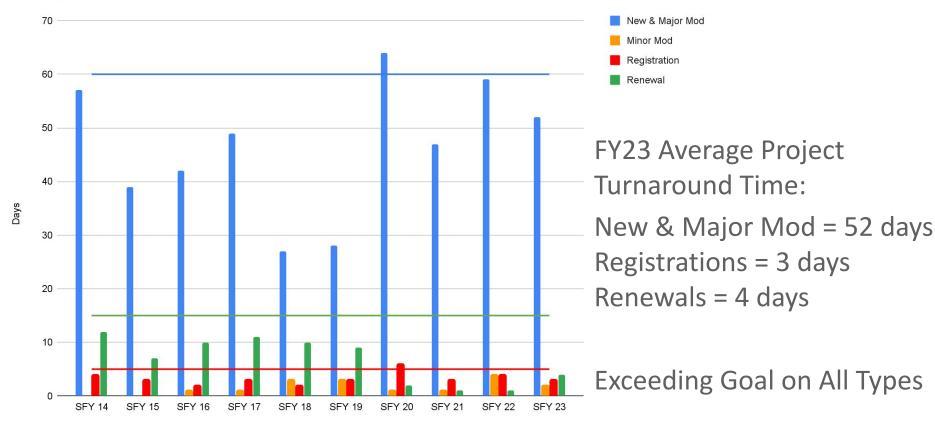
- Mailed Annual Water Use Report forms & entered ~2100
   Annual Water Use Reports into WACOP database
  - 96.5% compliance rate
- Tracked Water Use Exceedances for 2022
- Monitored stream levels & issued protected flow restrictions
- Released the new WACOP database and web application into production!!
- In conjunction with the database release, we released new streamlined program forms, including the water use permit application

868 Applications Received (all types); 814 Applications Closed Out Much higher than average (10 year = 436)

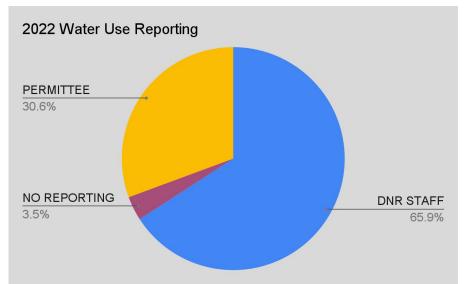


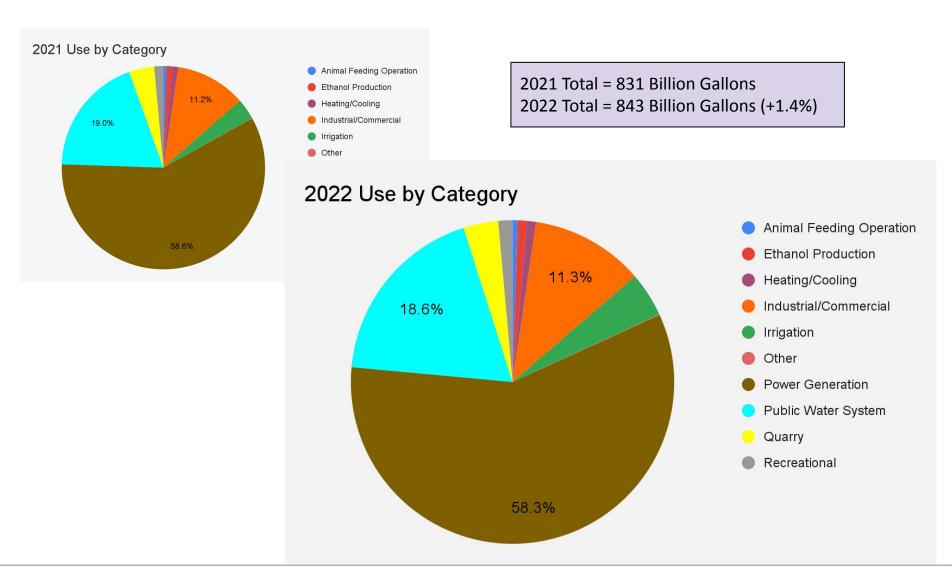




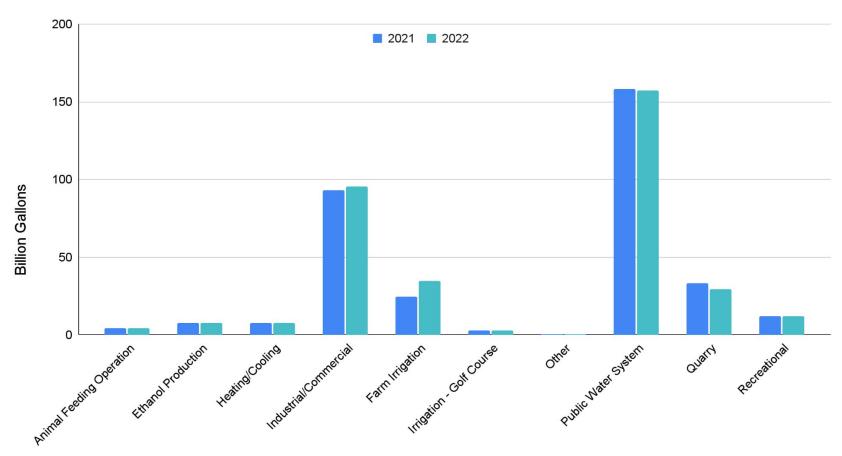


- WACOP Database User Statistics
  - 1558 users have a WACOP account linked to 1 or more permits => 11% increase
  - 1602 WU Permits linked to a user => 48% of active permits
     8 1% increase
  - 885 fees (all types) paid online in SFY2023 => 9% increase
  - 1019 (31%) 2022 Annual
     Water Use Reports entered
     online by permit holders;
     7% increase!

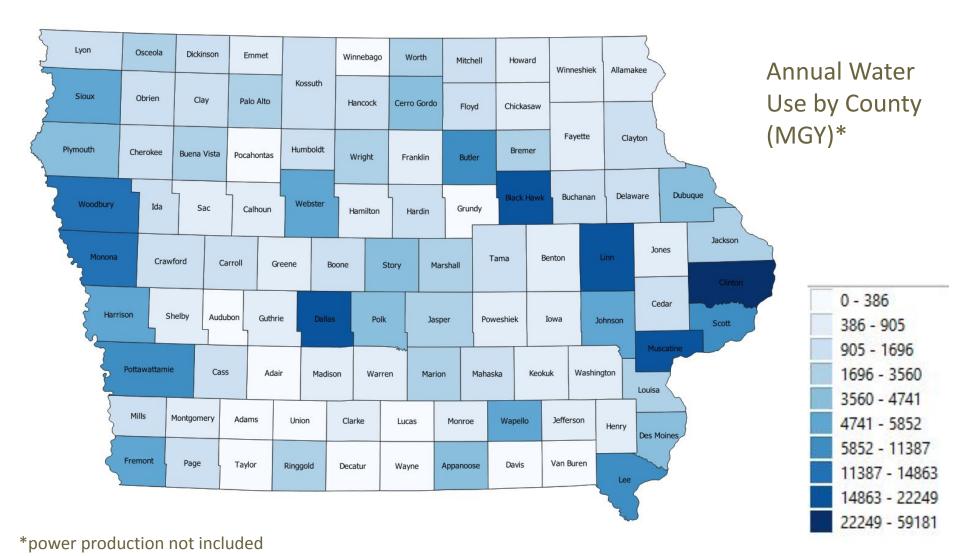




Annual Water Use by Major Category (power production not included)



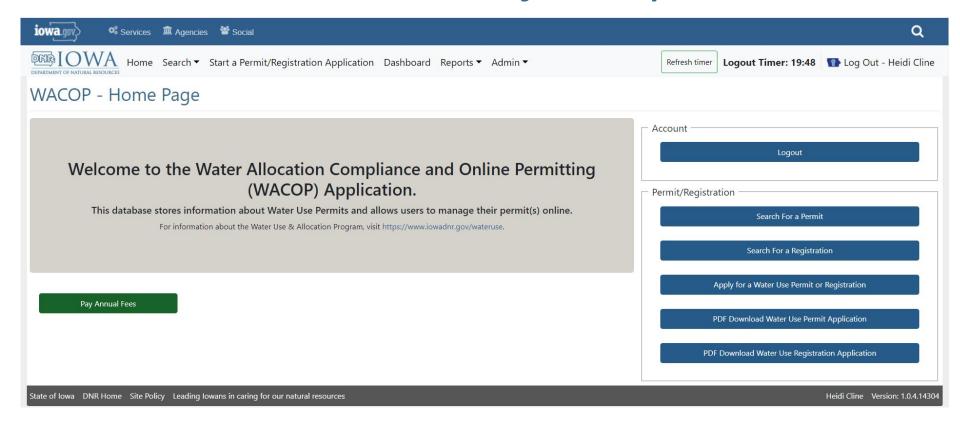
Use Type	2021	2022	% Change
Animal Feeding Operation	4515	4410	-2.4
Ethanol Production	7425	7653	3.0
Heating/Cooling	7614	7669	0.7
Industrial/Commercial	93147	95686	2.7
Irrigation - Corn & Soybean	22145	31846	30.5
Irrigation - Golf Course	2977	2750	-8.3
Irrigation - Speciality Crops	2537	2975	14.7
Other	422	511	17.3
Power Generation	486849	491720	1.0
Public Water System	158123	157251	-0.6
Quarry	33106	29376	-12.7
Recreational	12178	11994	-1.5
Total	831038	842533	1.4



## WACOP Database Project Update

- First major upgrade since 2015
- Agile development process
  - 50 sprints over ~2.5 years
  - Complete redesign of the database and web application
  - Released into production late September 2022
- Major goals/highlights:
  - User friendly/EASY TO USE
  - Brought up to Department standards
  - Easier for internal IT to support
  - Easier for staff & administrators to use
  - Ability to pay annual fee as a guest w/o account & by ACH
  - Ability to self-link to permits
  - Functionality to invoice annual fee electronically
  - Permit document storage

### WACOP Database Project Update

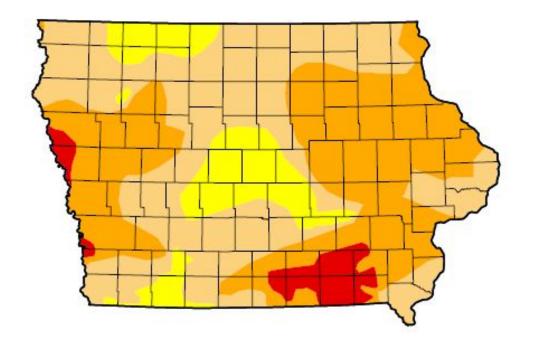


User guidance documents available on our program website.

After using the application for ~1 year, we will work on another round of improvements

### **Drought Update**

U.S. Drought Monitor



#### July 11, 2023

(Released Thursday, Jul. 13, 2023) Valid 8 a.m. EDT

#### Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.00	100.00	86.97	43.38	4.71	0.00
Last Week 07-04-2023	0.48	99.52	86.98	43.52	4.71	0.00
3 Months Ago 04-11-2023	37.97	62.03	31.90	15.51	1.51	0.57
Start of Calendar Year	10.69	89.31	66.66	29.43	8.83	0.57
Start of Water Year 09-27-2022	20.90	79.10	45.05	22.25	5.07	0.02
One Year Ago 07-12-2022	54.87	45.13	12.98	7.34	2.47	0.00

#### Intensity:

None D2 Severe Drought
D0 Abnormally Dry D3 Extreme Drought
D1 Moderate Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

#### Author:

Richard Tinker CPC/NOAA/NWS/NCEP







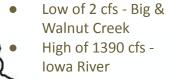


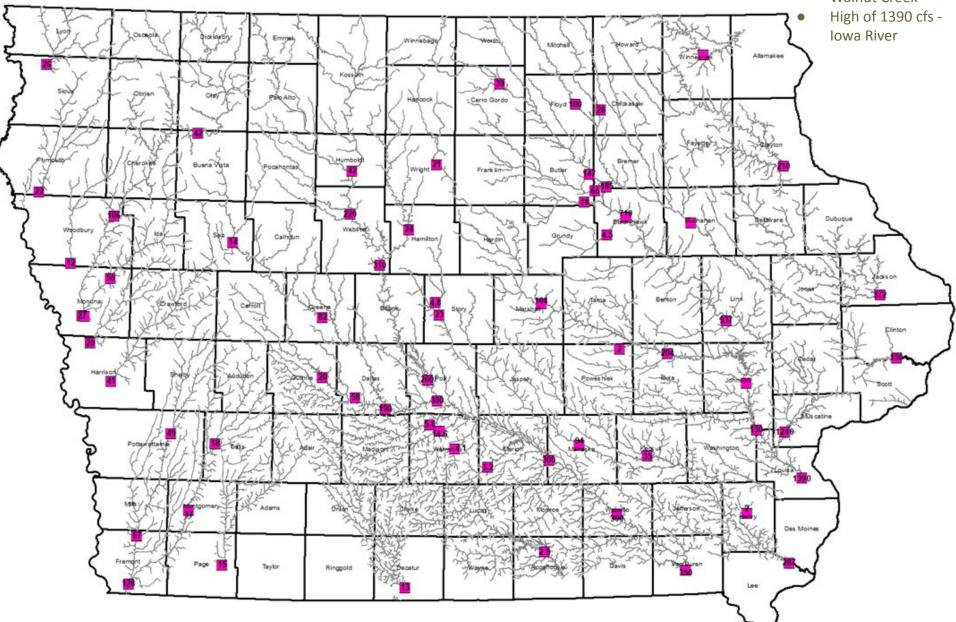
### **Drought Update - Protected Flow**

- Intended to protect ordinary household and livestock use, fish and wildlife uses, & other uses of a public nature
- Set in administrative rules IAC 567-52.8(455B)
- Primary application to irrigation
- Consumptive, non-community use warnings & cutoffs when streams reach and remain below protected flow levels
  - Irrigation, including golf courses
  - Manufacturing
  - Recreational
  - Quarry operations

# **Drought Update - Protected Flow**

#### **Protected Flows**



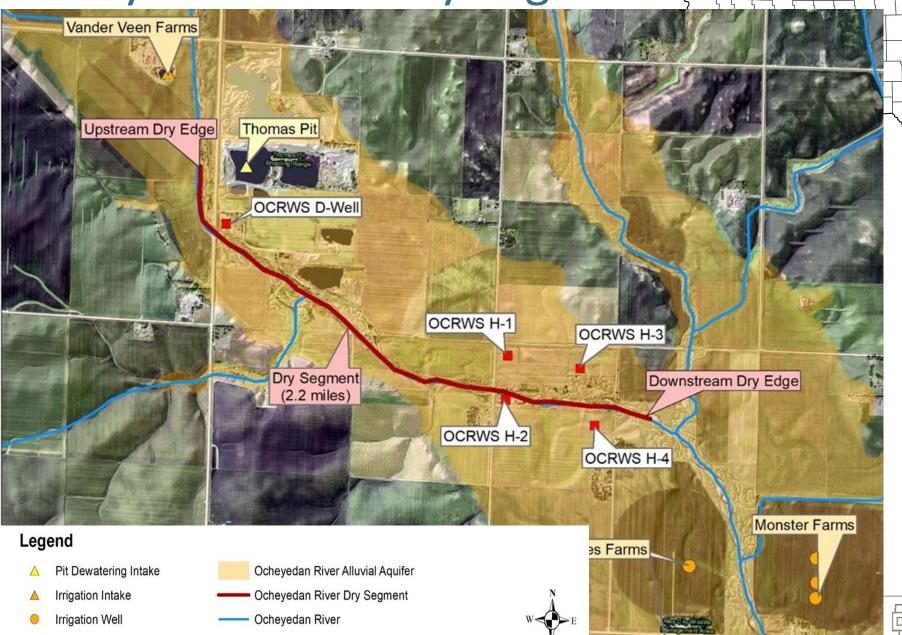


### West Nishnabotna River at Hancock (USGS 06807410)



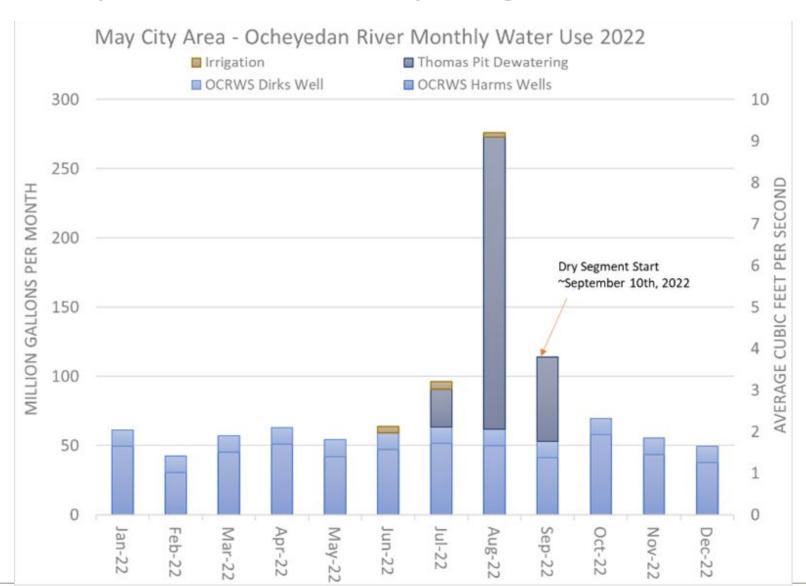
Ocheyedan River Dry Segment

Osceola County Public Well

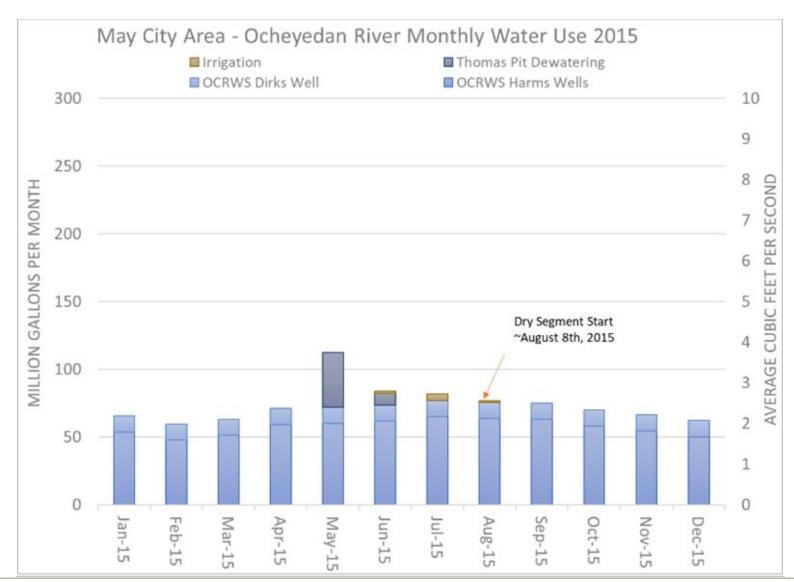




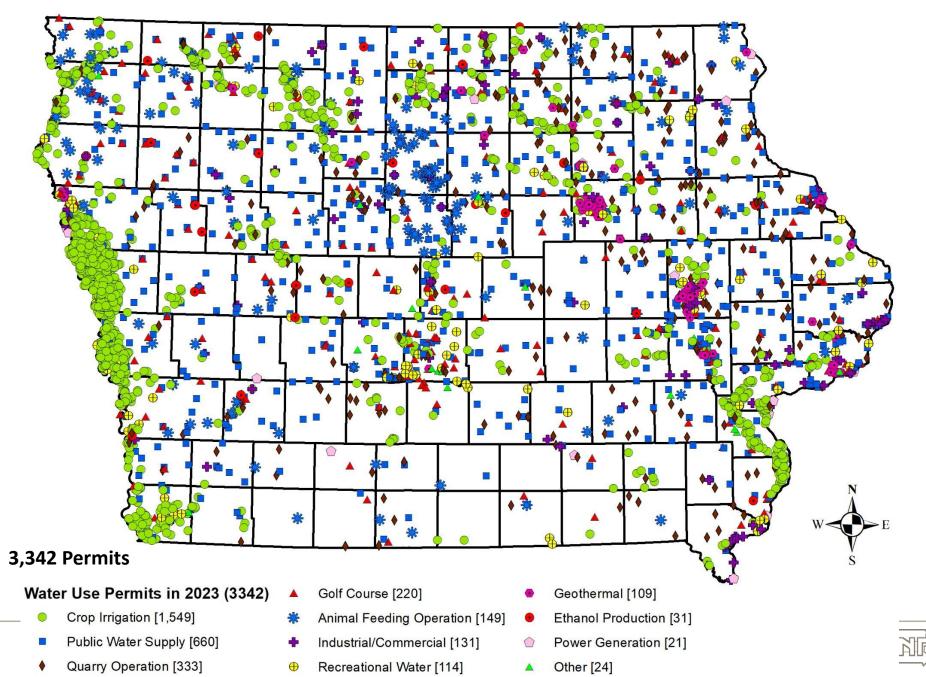
## Ocheyedan River Dry Segment



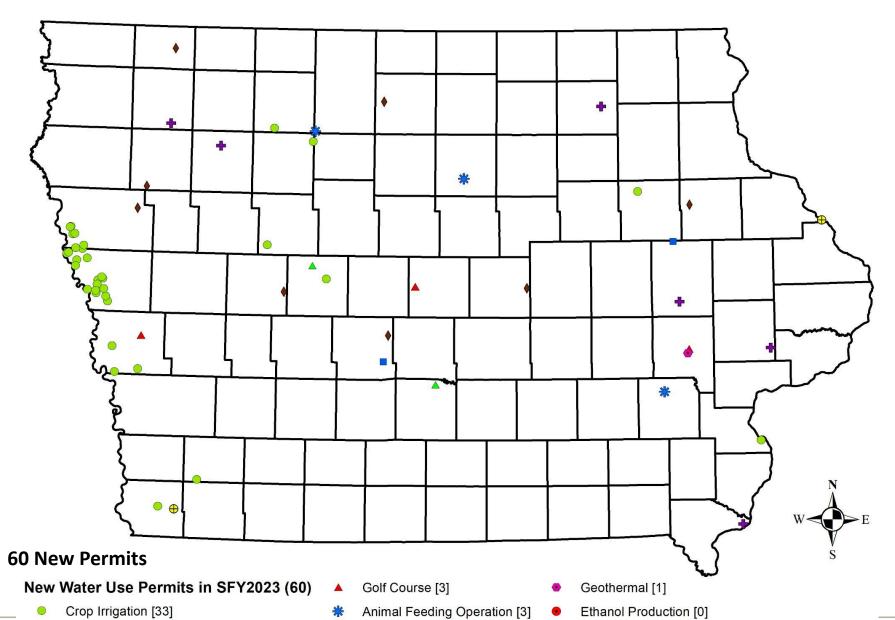
## Ocheyedan River Dry Segment



### All Active Water Use Permits - SFY2023



### New Water Use Permits - SFY 2023



Industrial/Commercial [6]

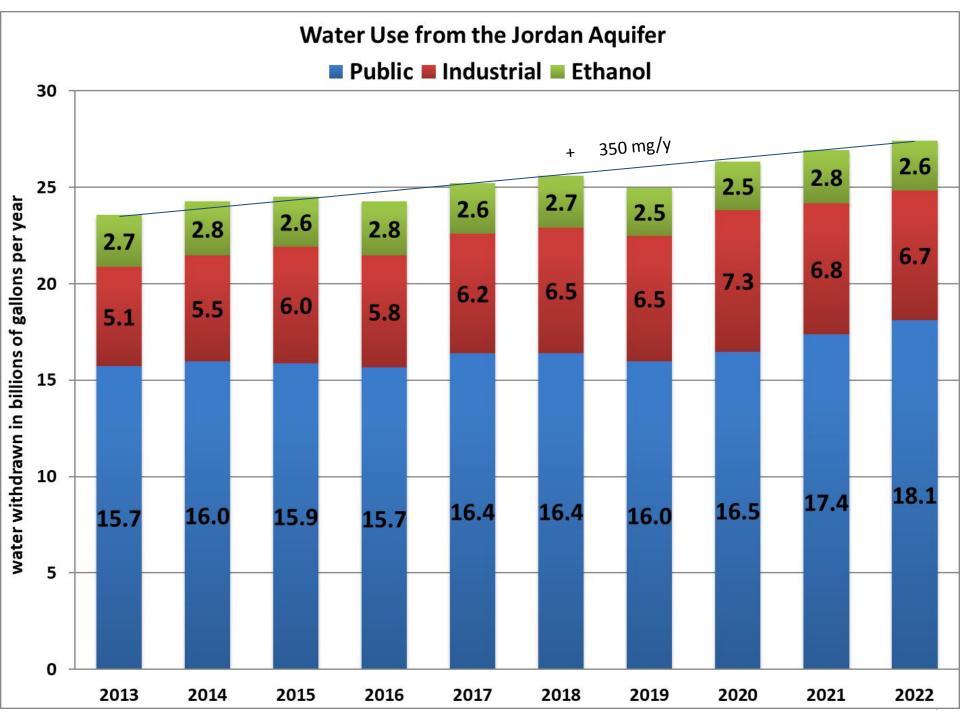
Recreational Water [2]

Power Generation [0]

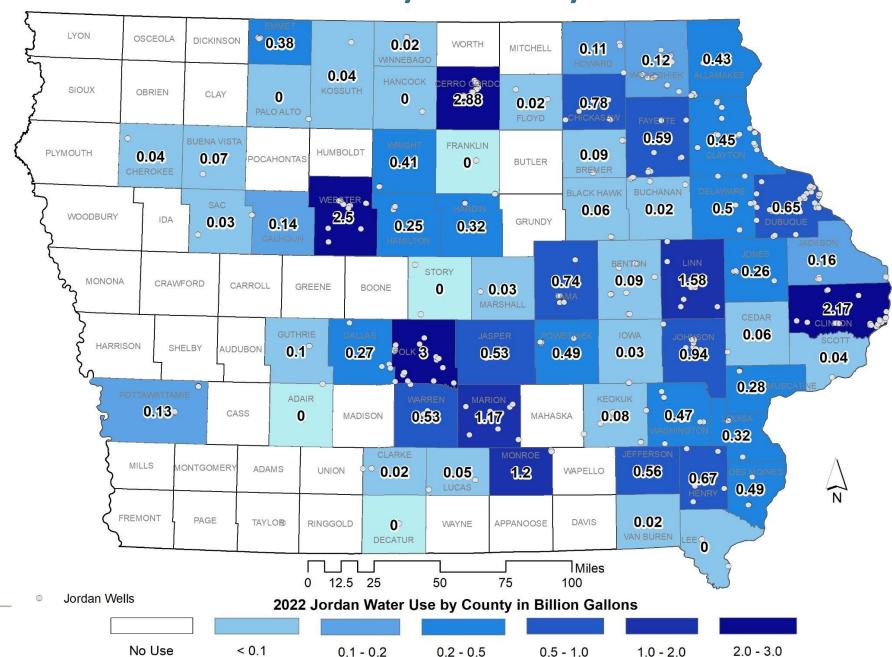
Other [2]

Public Water Supply [2]

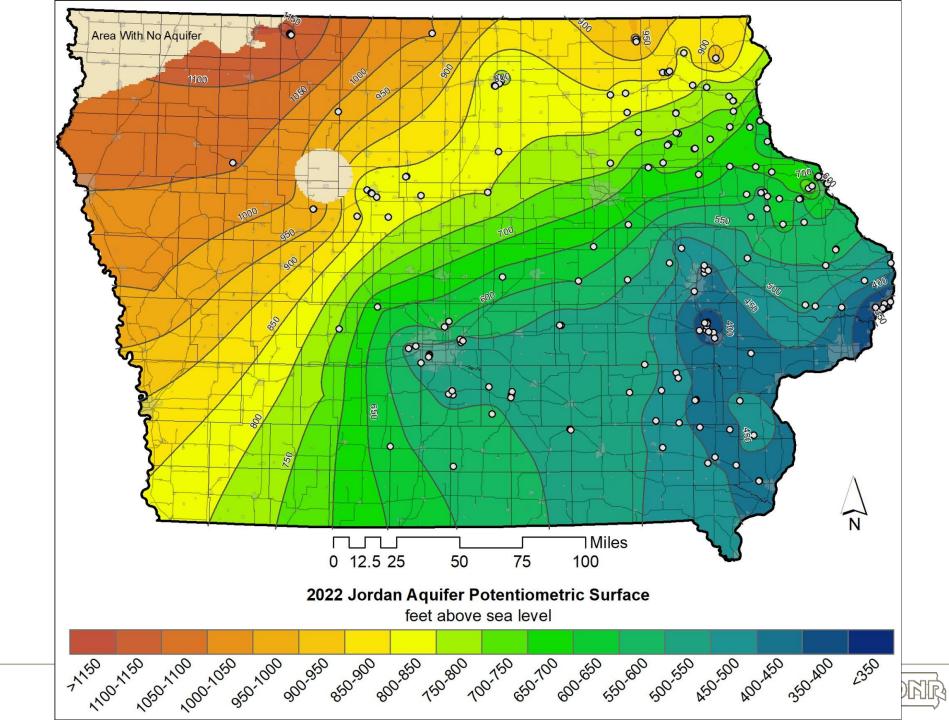
Quarry Operation [8]

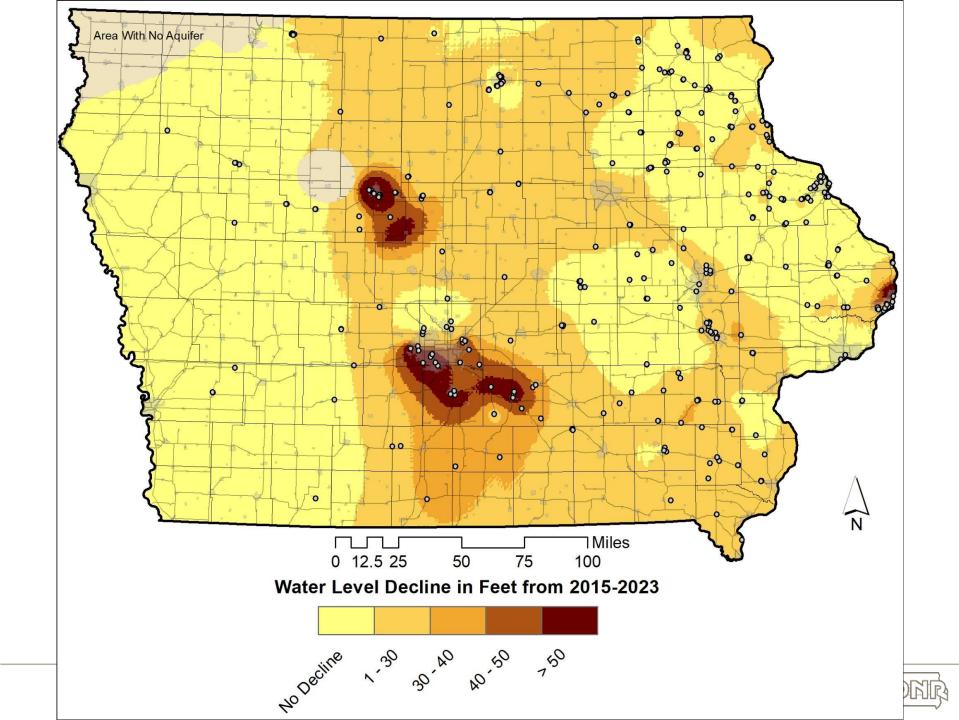


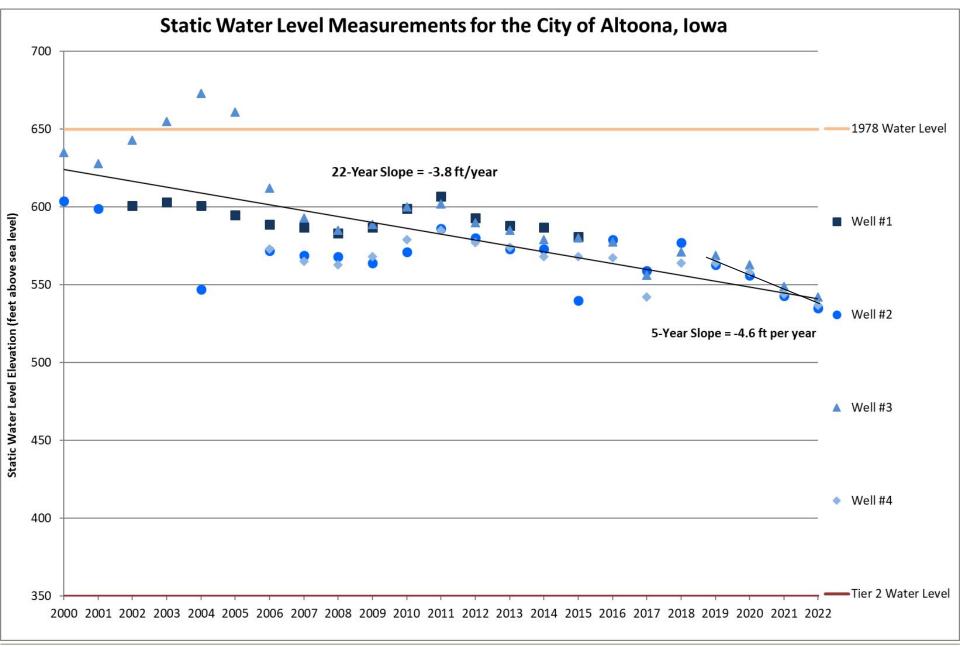
### Jordan Water Use by County - 2022











## SFY 2024 Anticipated Work

- Routine Work
  - Issuing permits; Annual fee collection; Database maintenance; Conflict resolution; Program administration;
     Data entry; Exceedance tracking
- Encourage online permit management by permit holders, including annual fee payment & water use reporting
- Continue to meet & exceed project review and close-out TAT goals
- Continue implementing Jordan aquifer management strategies; work with affected Tier 2 systems
- Add necessary improvements or fixes to WACOP 2.0

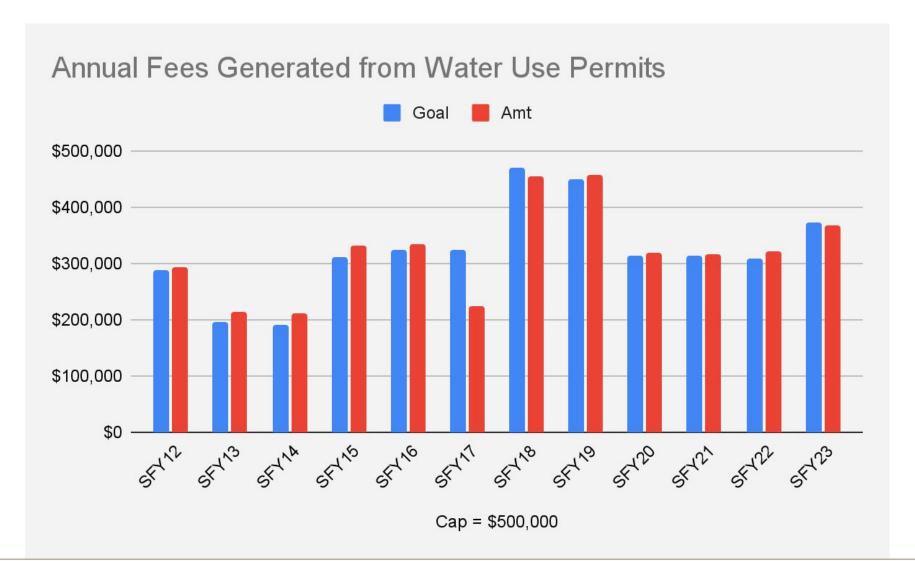
## FY24 Budget – Major Cost Items

- Staffing = 84% of budget
  - 4 FTE
- Indirect = 11% of budget
  - Internal Department costs
- Remaining 5% of budget
  - Publishing (public notices)
  - Miscellaneous (travel, office supplies, postage, phones, etc.)
  - Computer equipment
  - Field Office and/or administrative assistance

## Long Term Budget Needs

- Program is stable
- Staffing needs expected to remain stable
- Staffing costs rise over time
- Continue to hold annual fees as steady as the budget allows

### Fees Generated from Water Use Permits



### **Annual Fee Calculation**

Fee Calculation

\$613,956 budget

-184,190 General Fund

-34,000 application fees

-20,646 carryforward

\$375,130 to be collected from Annual Fees

•	Number	of active	permits:	3348 (	no attrition	expected)
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- Number of permits paying 2024 fee: 3262
- \$375,130 / 3262 = \$115.00 per permit
- Proposed 2024 Annual Fee: \$115.00

Year(s)	Amount
2010-2011	\$135
2012	\$95
2013-2014	\$66
2015-2016	\$99
2017	\$66
2018-2019	\$134
2020-2022	\$95
2023	\$115

### **Annual Fee Calculation**

- Directed to assume no General Fund in SFY 2018 & 2019, but was received; resulted in carryforward amount built up
- We have been gradually spending down the carryforward to a target of \$200,000 by reducing the annual fee; reached in FY22
- If there is no GF, the carryforward will cover 2 years of budget

Carryforward in 2021: \$232,487

Carryforward in 2022: \$220,288

<u>-\$8,007 FY22 spend down</u>

\$212,281 carryforward

 Last year we raised the permit fee to \$115 in order to maintain carryforward of ~\$200,000; attempt to hold steady/maintain equilibrium in future years

### **Executive Order 10**

### Water Use Program Rules (IAC Chapters 50-55)

- Program believes majority of the current rules and regulations are working well. Changes include:
  - Removal of 200 gpm withdrawal limits from streams and unconfined aquifers in watersheds that drain <50 mi<sup>2</sup>
  - Remove rules regarding water storage and agricultural drainage wells
  - Merge and update Chapters 50-52 into single chapter
  - Clean-up and clarification
  - Update/merge definitions
  - Update references
  - Update DNR form numbers

### **Executive Order 10 Process & Timeline**

- Currently finalizing rule language.
  - September 1, 2023 expected to post draft chapters on program webpage (www.iowadnr.gov/wateruse)
    - Stakeholders/public have month to review provide comments back to program.
  - September 29, 2023 Second stakeholder contact and feedback deadline
  - July 1, 2024 Completion of final documents
- Questions, comments, issues, about our current rules?

### Questions????



SFY2024 Annual Fee Approval Request at August 9th Environmental Protection Commission Meeting

# **Appendix**

