

## IOWA DEPARTMENT OF NATURAL RESOURCES

LEADING IOWANS IN CARING FOR OUR NATURAL RESOURCES

Water Use Program Annual Stakeholder Meeting Water Supply Engineering Section July 18<sup>th</sup>, 2024

## Agenda

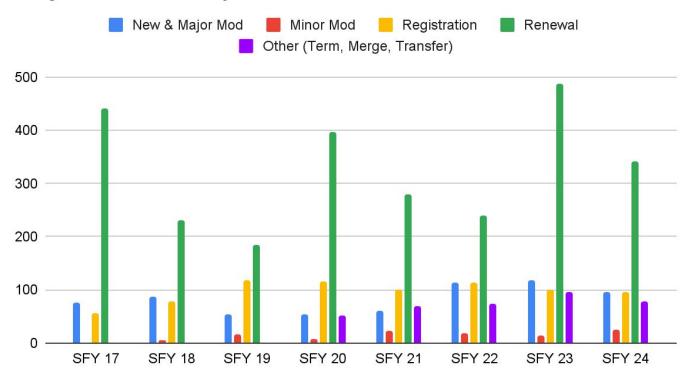
- SFY 2024 Program Accomplishments
- 2023 Water Use Summary
- Drought Update
- Jordan Aquifer Update
- SFY 2025 Anticipated Work
- Proposed SFY 2025 Water Use Program Annual Fee
- Proposed Rule Changes / EO10
- Q & A
- Iowa Geological Survey Presentation

- Stakeholder meeting held 7/19/2023 to set 2024
   Annual Fee; approved by EPC on 8/09/2023
- Taylor Jorgensen joined the Water Use Program as an Environmental Specialist in January, 2024
- Deb Williams retired in March, 2024
- Invoiced & tracked ~3,300 Annual Fee payments
- Sent ~370 Renewal Applications; Issued ~330 renewed
   Permits

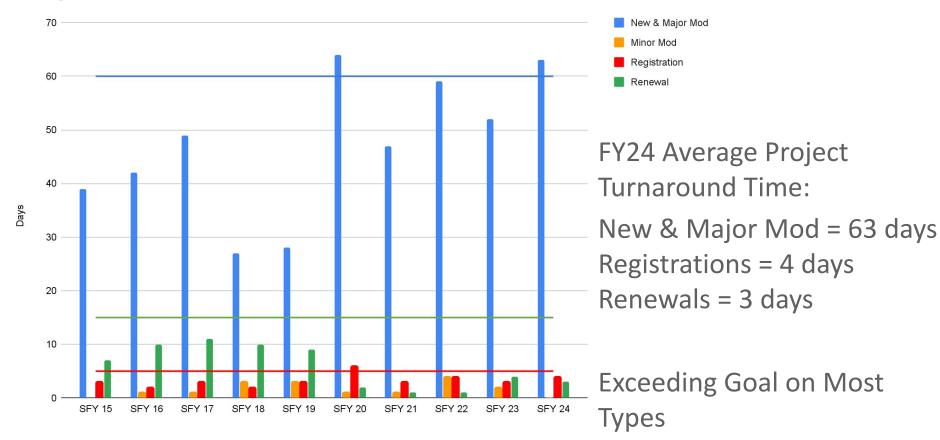
- Mailed Annual Water Use Report forms & entered ~2,000
   Annual Water Use Reports into WACOP database
  - 95.9% compliance rate
- Tracked Water Use Exceedances for 2023
- Monitored stream levels & issued protected flow restrictions
- DNR headquarters relocated from the Wallace Building to 6200 Park Ave

638 Applications Received (all types); 611 Applications Closed Out Higher than average (10 year = 488)

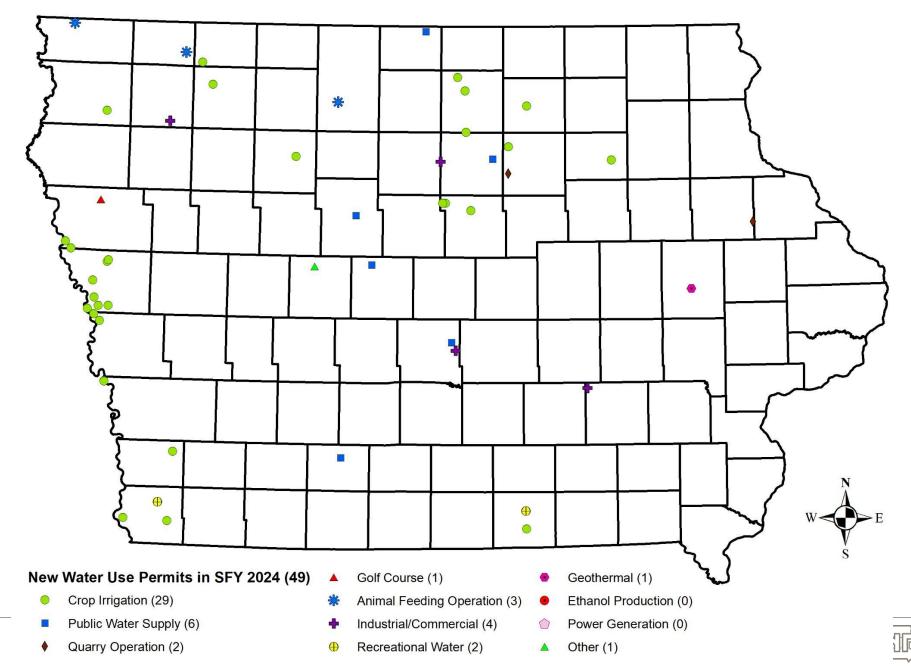
#### Projects Received by SFY



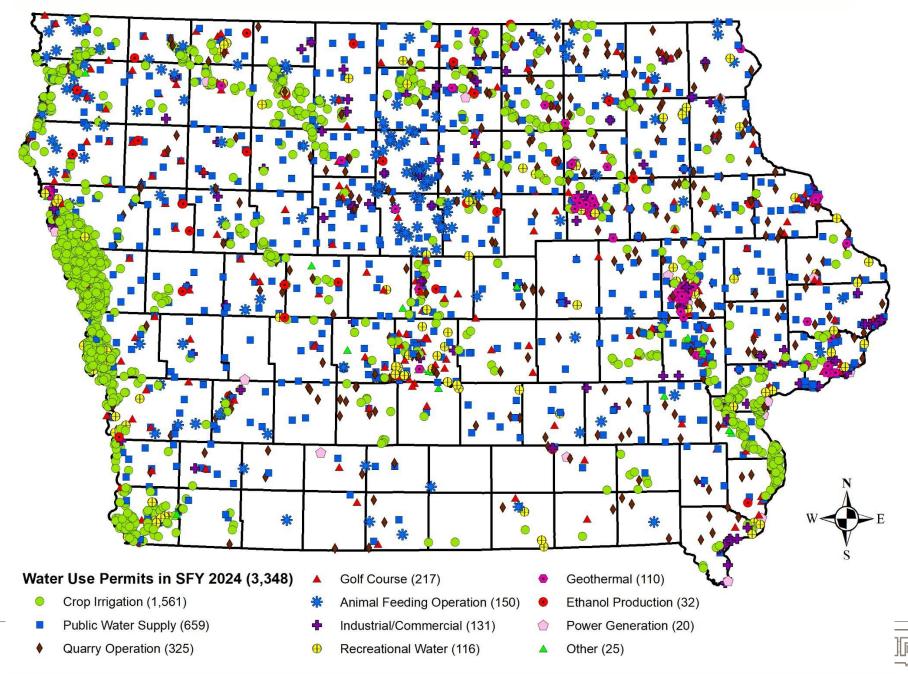




### New Water Use Permits - SFY 2024



### All Active Water Use Permits - SFY2024



### All Active Water Use Permits - SFY 2024

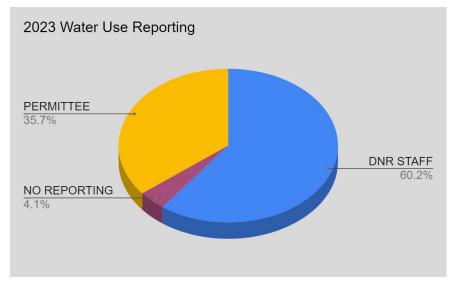
| Use Type                 | 2023 Use MGY | # of Permits | % of Total<br>Use | % of Total<br>Permits |
|--------------------------|--------------|--------------|-------------------|-----------------------|
| Animal Feeding Operation | 4921         | 146          | 0.6               | 4.3                   |
| Ethanol Production       | 8091         | 32           | 1.0               | 1.0                   |
| Heating/Cooling          | 7653         | 110          | 1.0               | 3.3                   |
| Industrial/Commercial    | 86219        | 134          | 10.8              | 4.0                   |
| Irrigation               | 37085        | 1801         | 4.7               | 53.6                  |
| Other                    | 344          | 21           | 0.0               | 0.6                   |
| Power Generation         | 457059       | 20           | 57.4              | 0.6                   |
| Public Water System      | 160759       | 661          | 20.2              | 19.7                  |
| Quarry                   | 27297        | 333          | 3.4               | 9.9                   |
| Recreational             | 6763         | 100          | 0.8               | 3.0                   |
| Total                    | 796191       | 3358         |                   | 100.0                 |

- WACOP Database User Statistics
  - 1861 users have a WACOP account linked to 1 or more permits => 19% increase
  - 1910 WU Permits linked to a user => 57% of active permits
     4 19% increase
  - 1010 fees (all types) paid online in SFY2024 => 14%

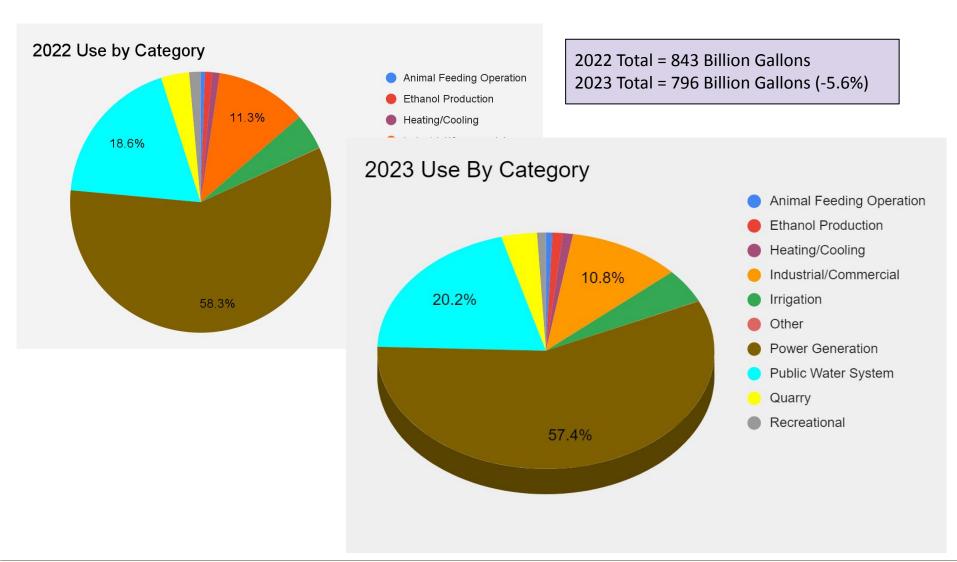
increase

1187 (35%) 2023 Annual
 Water Use Reports entered
 online by permit holders;

4% increase!



### 2023 Water Use Summary

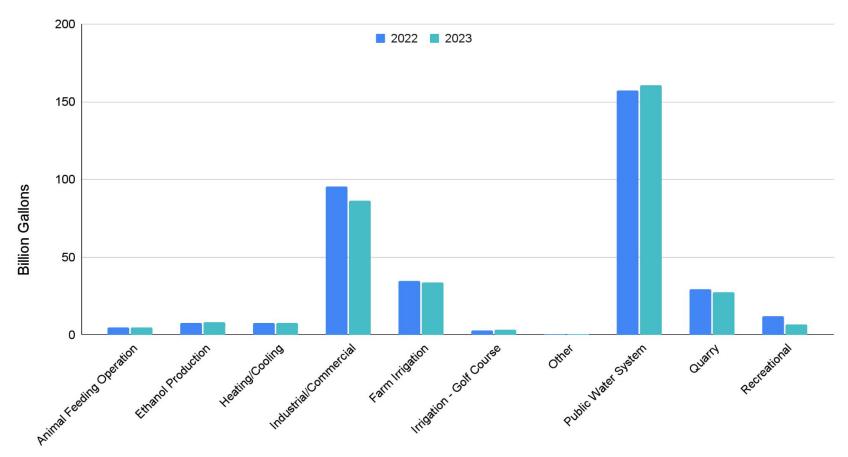


## 2023 Water Use Summary

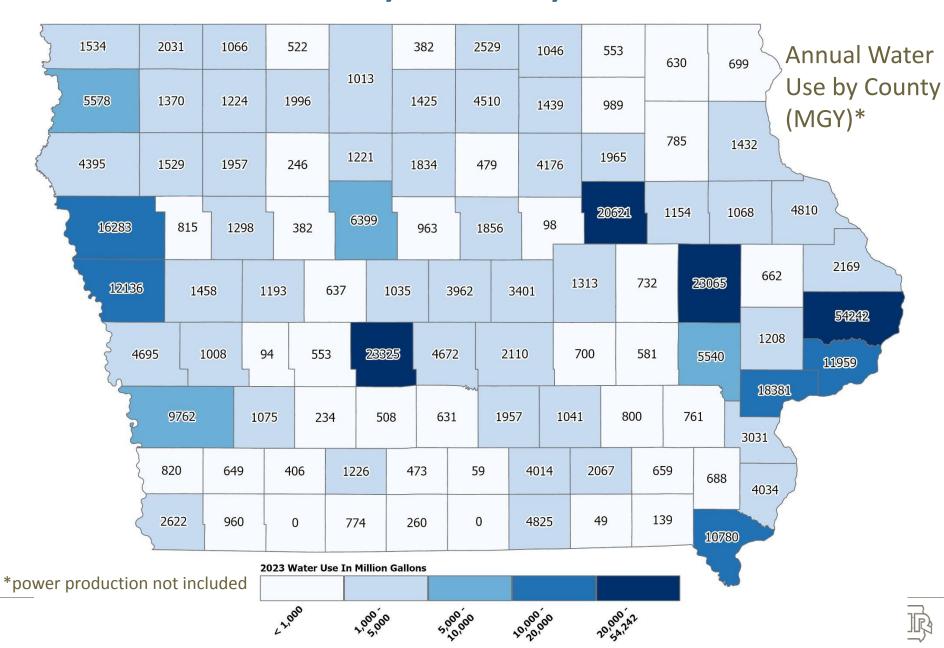
| Use Type                      | 2022 (MGY) | 2023 (MGY) | Percent Change |
|-------------------------------|------------|------------|----------------|
| Animal Feeding Operation      | 4533       | 4921       | +8.5%          |
| Ethanol Production            | 7653       | 8091       | +5.7%          |
| Heating/Cooling               | 7669       | 7653       | -0.2%          |
| Industrial/Commercial         | 95562      | 88219      | -7.7%          |
| Irrigation - Corn & Soybean   | 31673      | 30970      | -2.2%          |
| Irrigation - Golf Course      | 2931       | 3157       | +7.7%          |
| Irrigation - Speciality Crops | 2975       | 2987       | +0.4%          |
| Other                         | 511        | 344        | -32.6%         |
| Power Generation              | 491720     | 457059     | -7.0%          |
| Public Water System           | 157476     | 160759     | +2.1%          |
| Quarry                        | 29376      | 27297      | -7.1%          |
| Recreational                  | 11899      | 6763       | -43.2%         |
| Total                         | 843,978    | 798,220    | -5.4%          |

## 2023 Water Use Summary

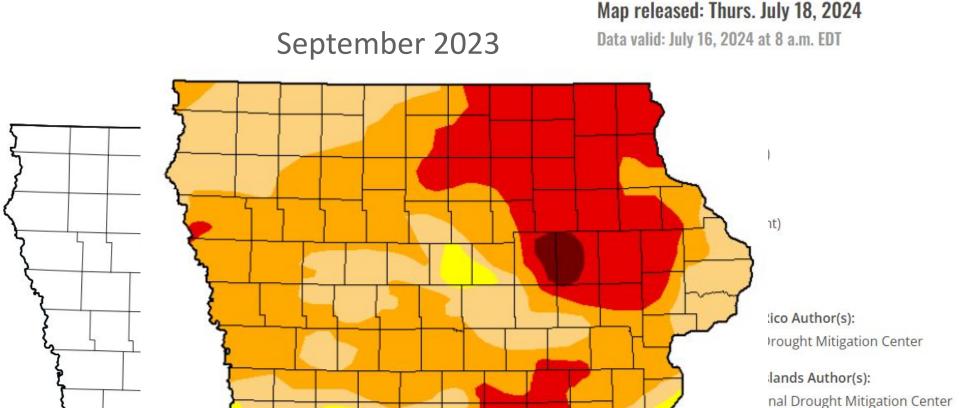
Annual Water Use by Major Category (power production not included)

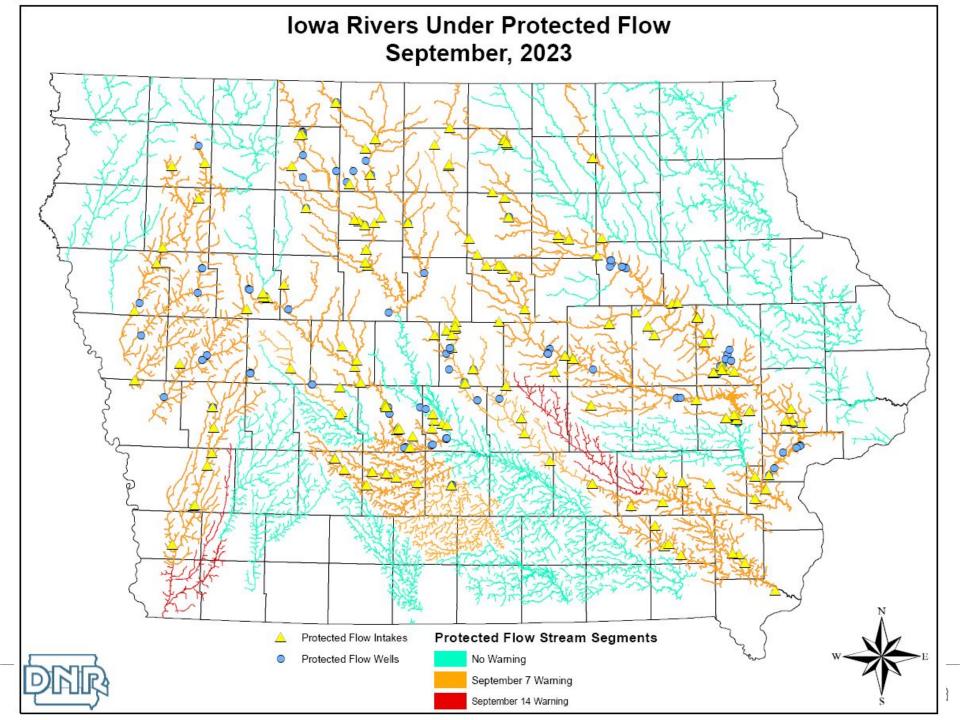


### 2023 Water Use by County



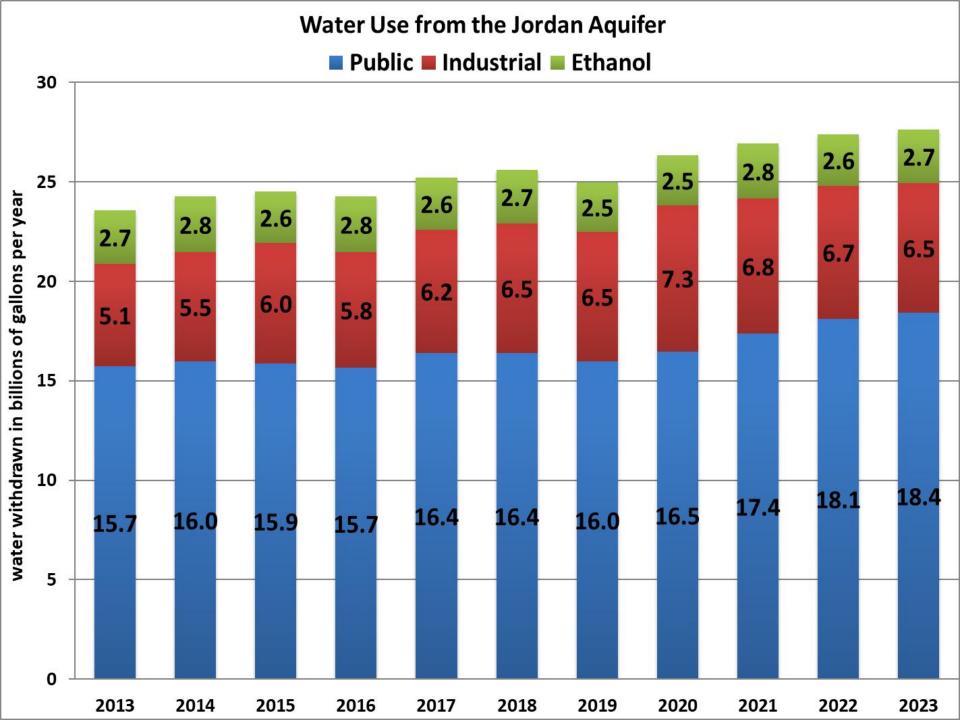
## **Drought Update**



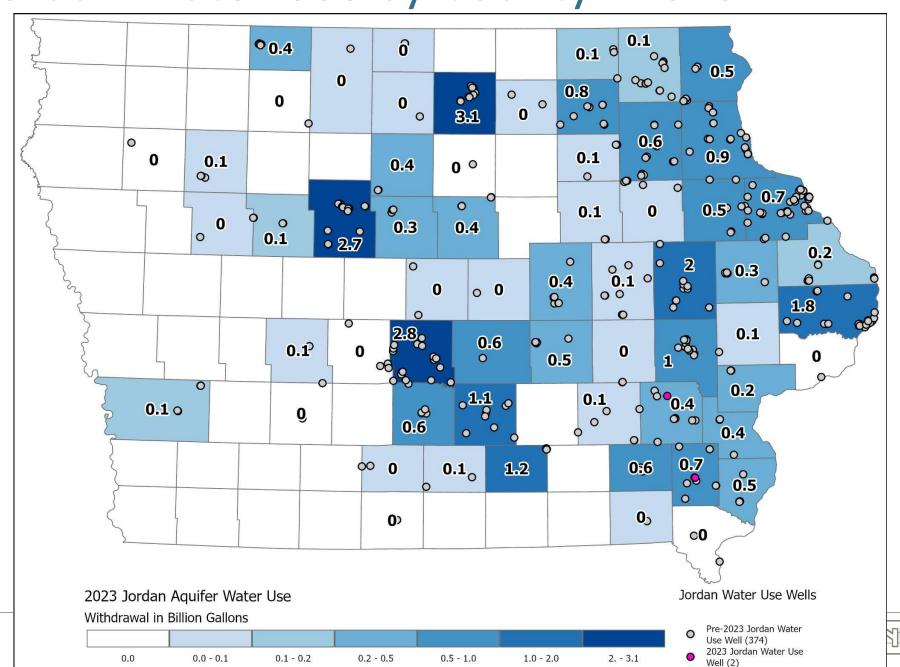


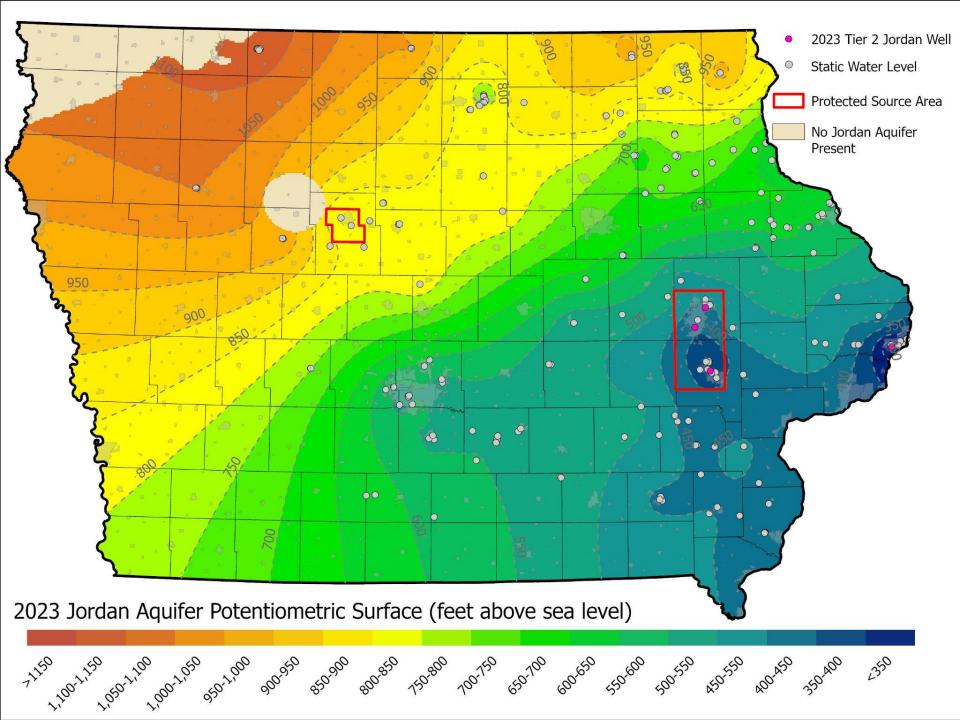
# SFY 2024 Program Highlights: Drought

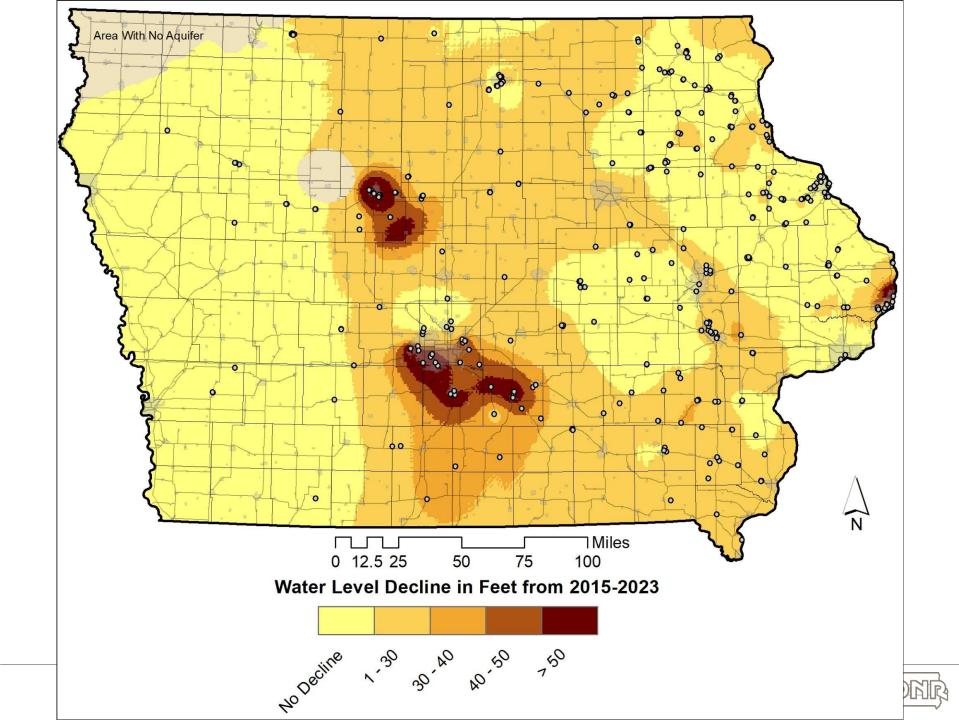
- Last year saw the continuation of an extensive drought that lasted until late spring/summer of 2024.
- Iowa Water Use program sent "Protected flow" withdrawal cutoff letters sent out first week of September.
- Over 150 protected flow letters sent to irrigators, recreational users, golf courses, and quarries.
- Many major rivers affected by protected flow, including the Nishnabotna, Des Moines, Skunk, Cedar, and Wapsipinicon rivers.
- 7Q10, or 'restricted flow', was encountered.



### Jordan Water Use by County - 2023







### SFY 2025 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
- Update existing statewide Jordan aquifer model
- Continue with EO10

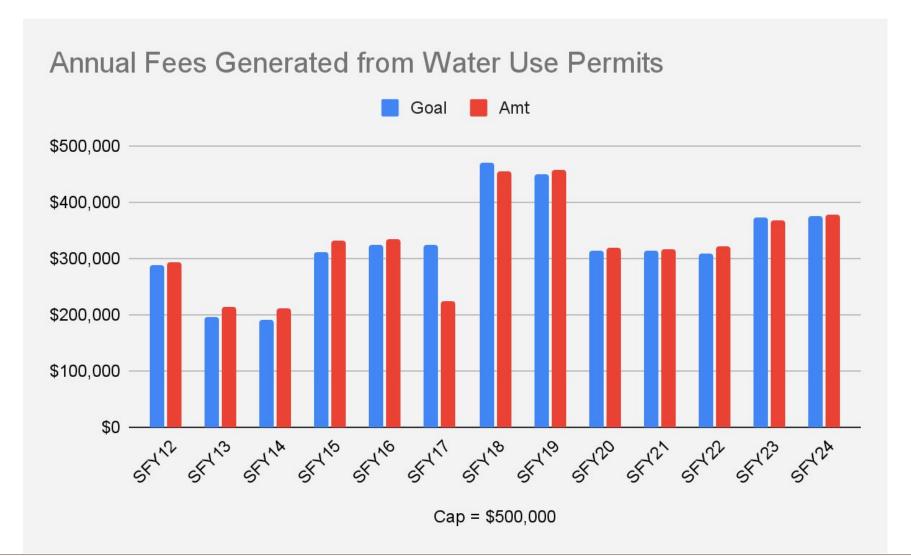
## FY25 Budget – Major Cost Items

- 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, modeling software
  - Scanning needs to move towards a "paperless" workflow

## Forecast for Long Term Budget Needs

- Staffing costs rise over time
- WACOP Upgrades
- Continue to hold annual fees as steady as the budget allows

### Fees Generated from Water Use Permits



### **Annual Fee Calculation**

Fee Calculation

\$613,966 budget

-184,190 General Fund

-35,000 application fees

-18,956 carryforward

\$375,820 to be collected from Annual Fees

| • | Number | of active | permits: | 3347 ( | no attrition | expected) |
|---|--------|-----------|----------|--------|--------------|-----------|
|---|--------|-----------|----------|--------|--------------|-----------|

- Number of permits paying 2025 fee: 3268
- \$375,820 / 3268 = \$115.00 per permit
- Proposed 2025 Annual Fee: \$115.00
  - EPC meeting 8/20

| Year(s)   | Amount |
|-----------|--------|
| 2010-2011 | \$135  |
| 2012      | \$95   |
| 2013-2014 | \$66   |
| 2015-2016 | \$99   |
| 2017      | \$66   |
| 2018-2019 | \$134  |
| 2020-2022 | \$95   |
| 2023-2024 | \$115  |
| 2025      | \$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

-\$8,007 FY22 spend down

\$212,281 carryforward

- In 2022, we raised the permit fee to \$115 in order to maintain carryforward of ~\$200,000; attempt to hold steady/maintain equilibrium in future years
- Due to staffing changes, a larger carryforward was built up in FY24;
   We anticipate to spend this down again in FY25
- We will spend down ~\$19,000 of carryforward to hold the annual fee

# SFY 2024 Program Highlights: 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**

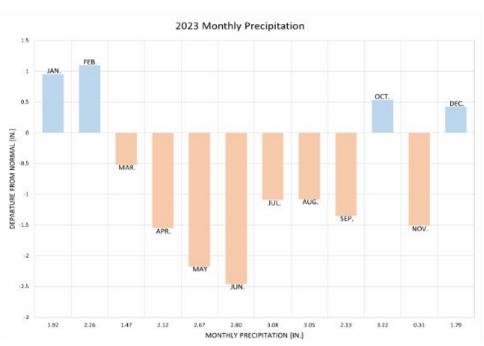
- Clean and redline strikeout versions of proposed rules and public hearing information:
  - https://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Quality-Rulemaking
- Currently finalizing rule language.
  - July 31st final proposed chapters and all associated documents submitted to legal for review
  - Late September regulatory analysis public hearing
  - Spring 2025 rules become final
- Questions, comments, issues, about our current rules?

### Questions????

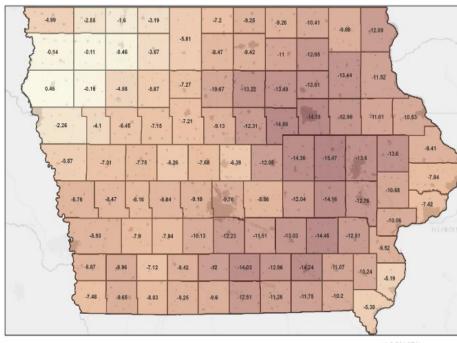


Any objection to proposed FY25 Annual Fee?
SFY2025 Annual Fee Approval Request at August 20th
Environmental Protection Commission Meeting

## **Appendix**



#### 2023 Annual County Average Precipitation Departure [in.]



1:2,964,071 0 15 30 60 ml 0 30 60 120 kn