



UTAH DEPARTMENT *of*
ENVIRONMENTAL QUALITY

**WATER
QUALITY**



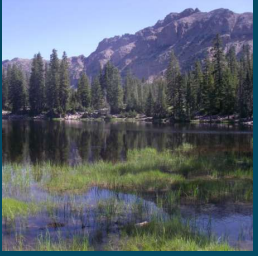
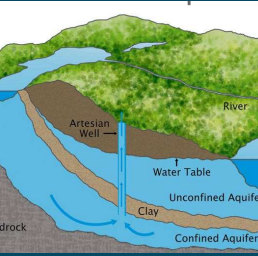
Water Quality Issues and Legislative Requests

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Mission

Safeguarding and enhancing Utah's waters through balanced regulation

| Rivers and Streams | Lakes/Reservoirs | Wetlands | Ground Water |
|---|---|---|---|
|  |  |  |  |
| 14,250 perennial miles 171,760 total miles | 1,552,078 acres | 510,359 acres | Extensive aquifer systems |



One-Third of Utah's Waters Do Not Support Their Human Uses

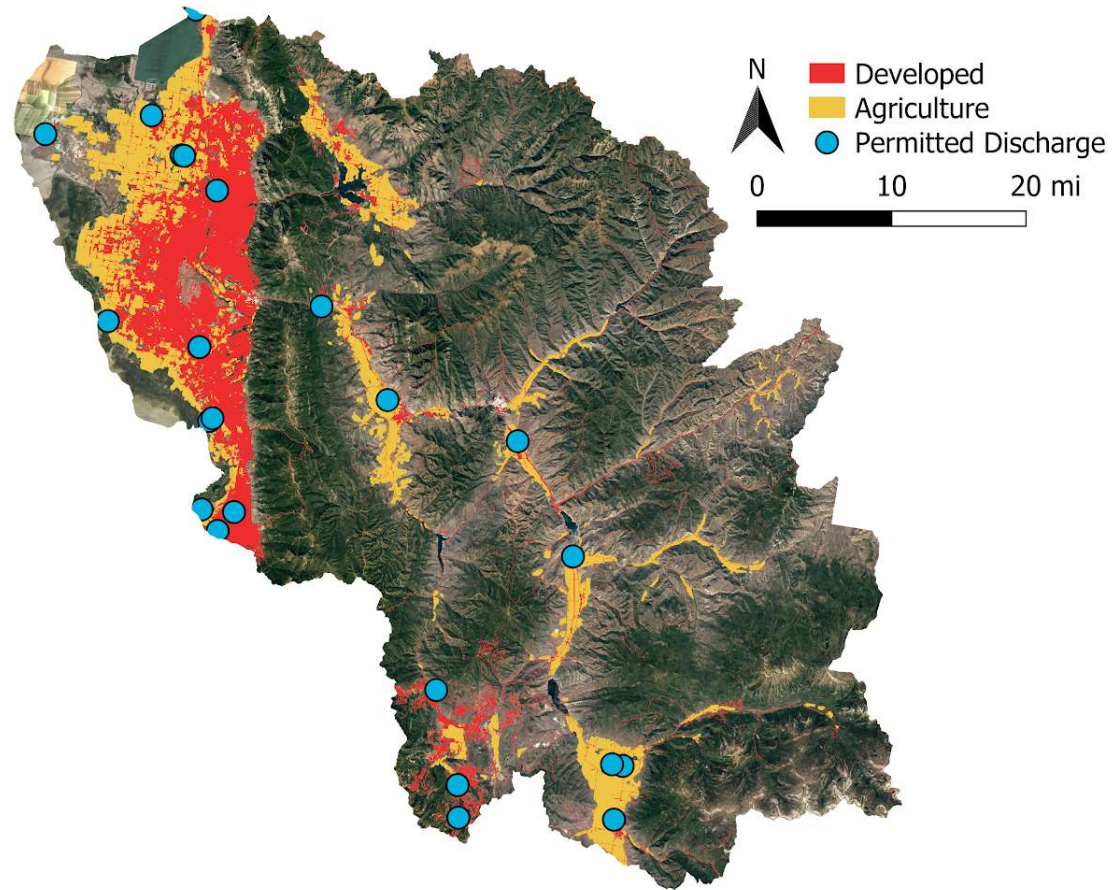
| Drinking Water Sources | Blue-ribbon Fisheries | Parks | Agricultural Uses |
|---|--|---|---|
|  |  |  |  |
| 34 waters impaired | 15 fisheries impaired | 16 State Parks 2 National Parks | 1,820 stream miles impaired |

Trends

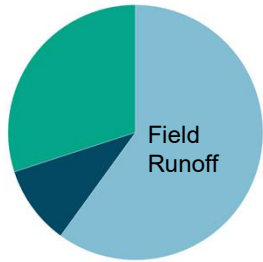
Streams and lakes continue to be added to the impaired waters list. Restoration efforts are insufficient to keep up with the degradation.



Everyone Contributes to Water Quality



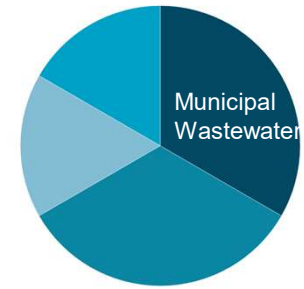
Sources of Water Pollution



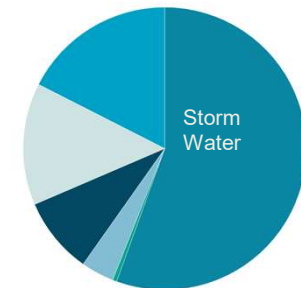
Rural Watershed



Illicit Discharges



Suburban Watershed



Urban Watershed

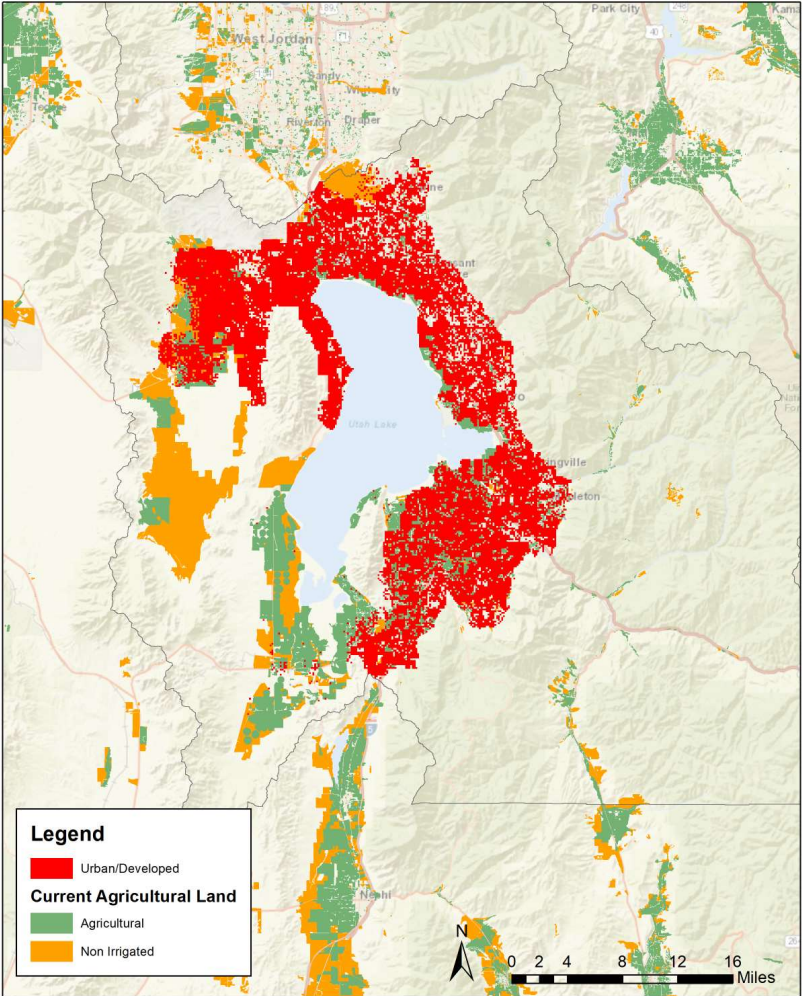
Municipal Wastewater

A survey of world physicians found sanitary sewer systems to be the most important public health advancement since 1840.

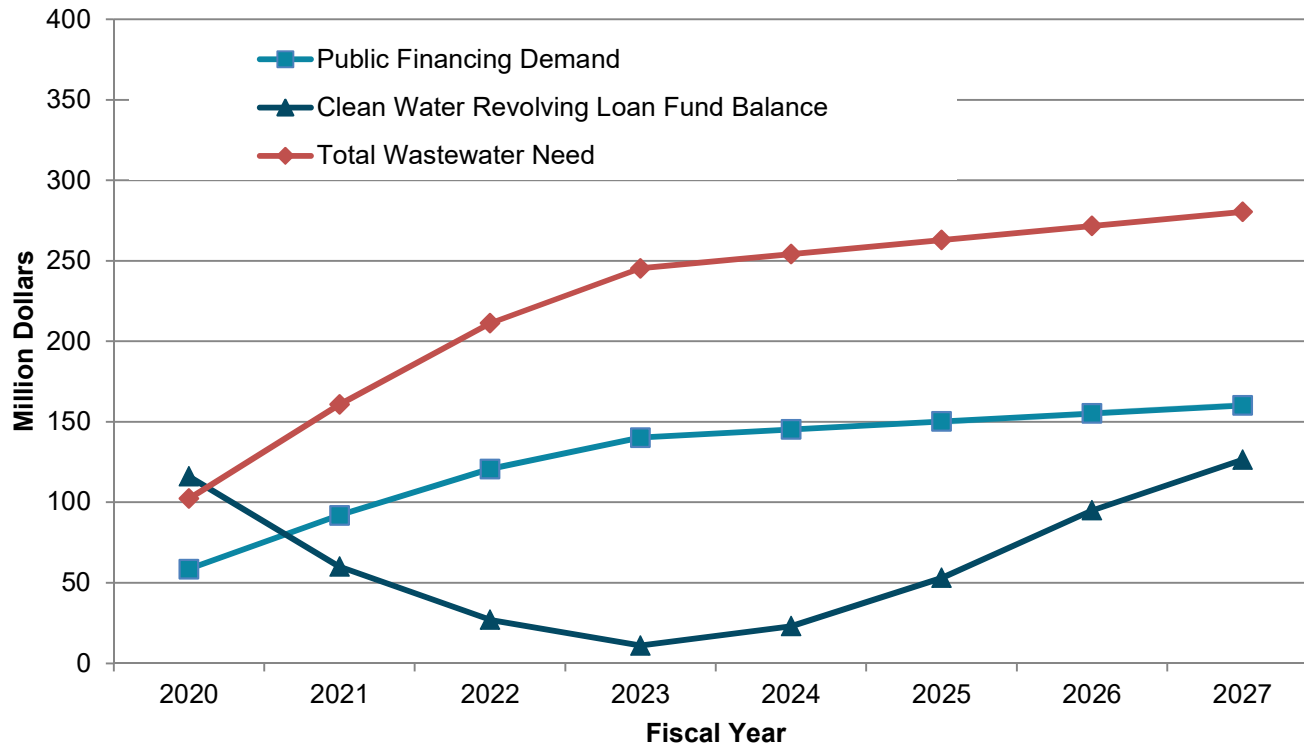


Growth

Projected (2050) Land Use



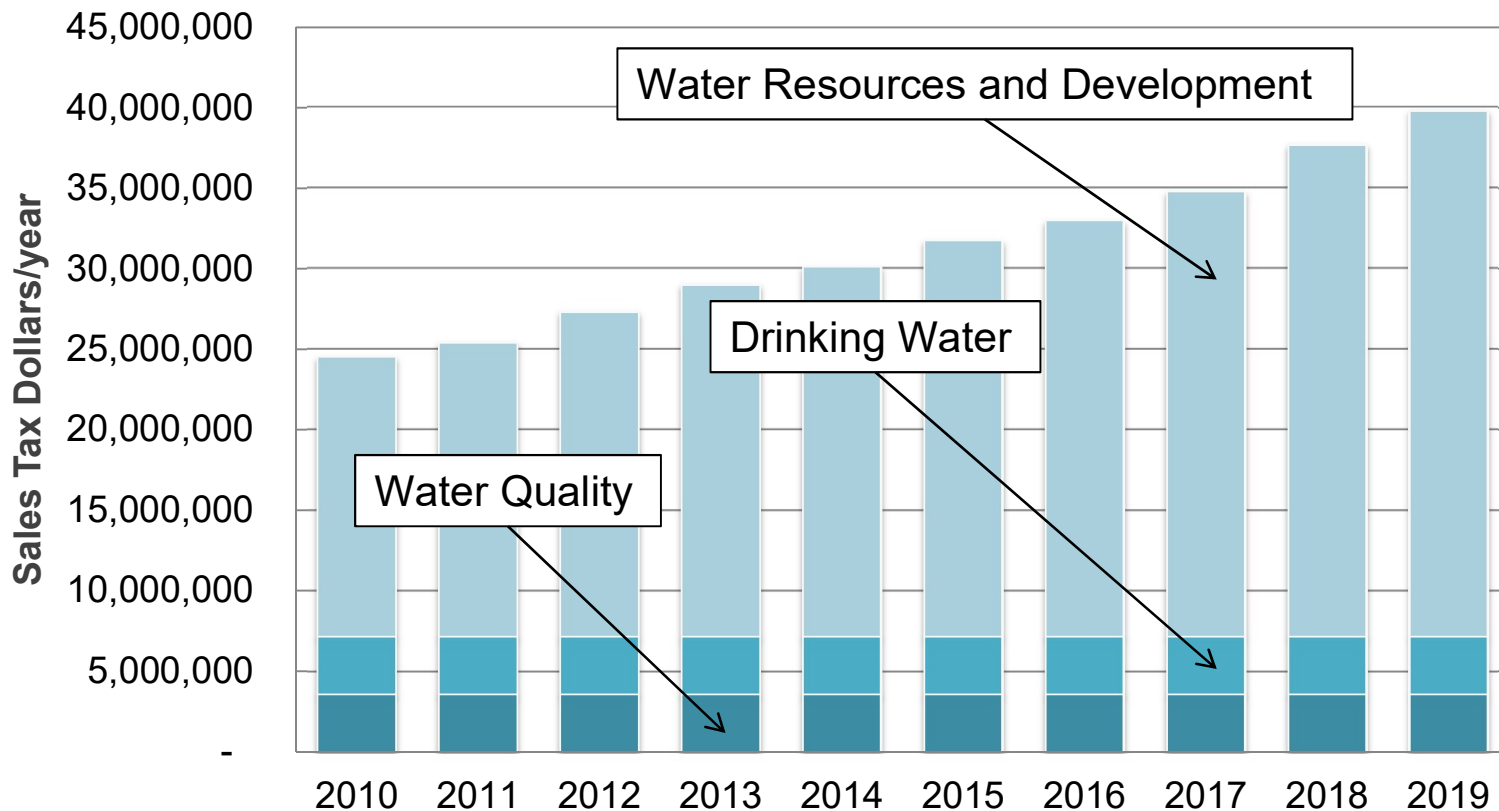
\$15 billion in Wastewater and Storm Water Infrastructure Needs by 2060



More details at Reclaim60.org



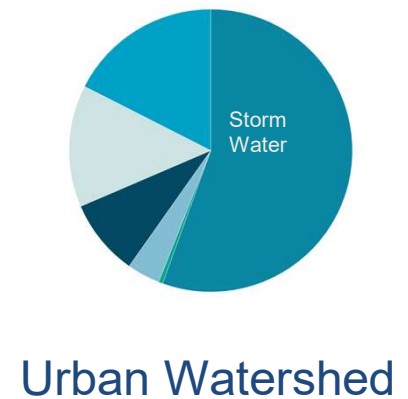
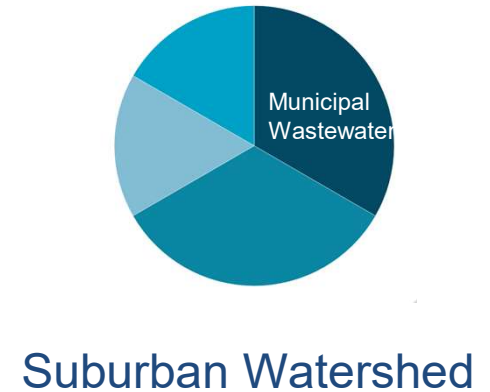
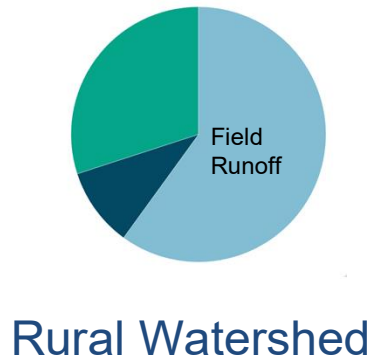
State Water Infrastructure Investment



Legislative request: Consider all water infrastructure needs in planning for growth.



Sources of Water Pollution



Clean Water and Agriculture are Critical to Utah's Future



NEW: Agricultural Water Quality Incentive Program

*Goal: **Incentivize** agricultural producers to **voluntarily** adopt practices in **targeted** watersheds that add value to their operations while improving water quality.*



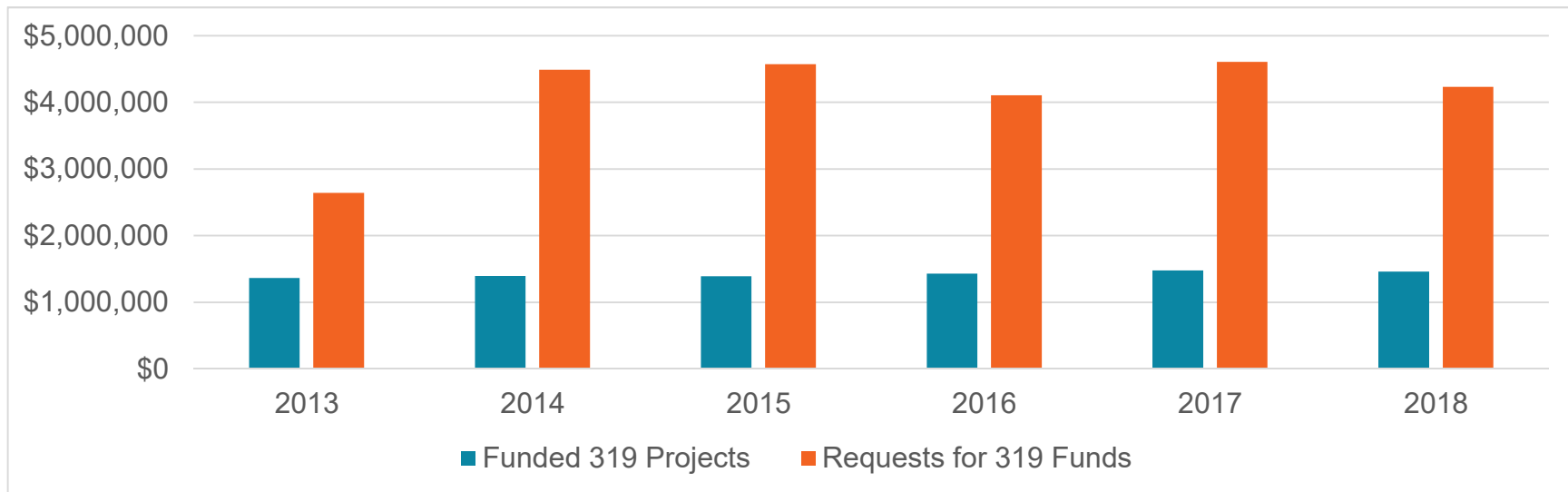
Need for Agricultural Water Quality Incentive Program

Nutrient Management Plans maximize returns on farms while protecting water resources

Deficit of technical capacity to assist producers in Utah

- 3 Certified Nutrient Management Planners in Utah (1 state, 2 federal employees)
- Reliant on federal training and certification

Demand for existing grant funds exceeds availability by 3:1



Agricultural Water Quality Improvements



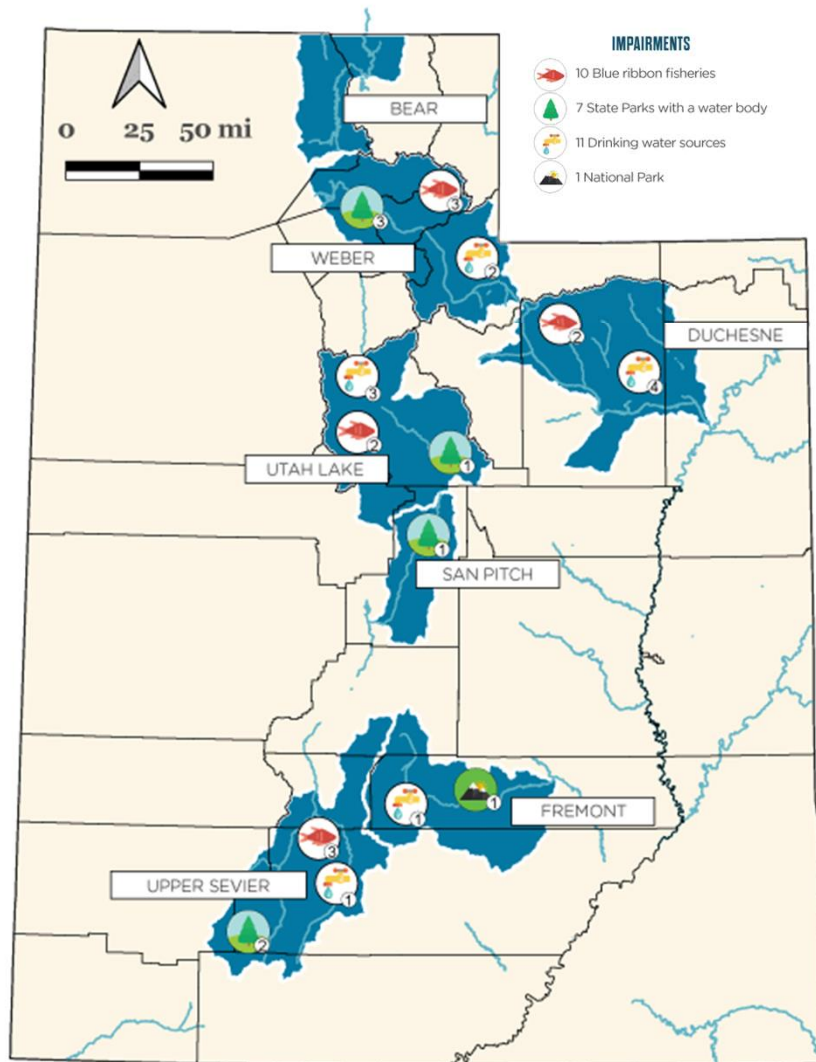
ELEMENTS OF AGRICULTURAL INCENTIVE FINANCING

1. Doubles the investment in agricultural water infrastructure grants to targeted watersheds and beneficial practices.
2. \$12/acre direct payment to Utah agricultural producers plus \$1,000 one-time payment.
3. Builds the technical capacity at state-level agencies to help producers increase yields and better understand nutrient issues.
4. Increases compliance assistance and program oversight.
5. Leverages partner funding at a 4:1 ratio.

| Program Element | Cost |
|---|--------------------|
| Agricultural water quality infrastructure grants | \$1,040,000 |
| Incentive based payments | \$1,260,000 |
| Personnel (2 FTEs watershed coordinators, 2 FTEs nutrient management planners, 1.5 FTEs program administration) | \$560,000 |
| Third-party compliance assistance | \$115,000 |
| TOTAL | \$3,000,000 |



Targeted Watersheds for Implementation



 **100k**

This appropriation will increase the number of acres improved with Nutrient Management Plans by more than 100,000 acres in the first three years.

Legislative request: Support \$3 million building block for Agricultural Water Quality Incentive program.

Wallsburg Watershed, Wasatch Co



BEFORE



AFTER

Practices Installed

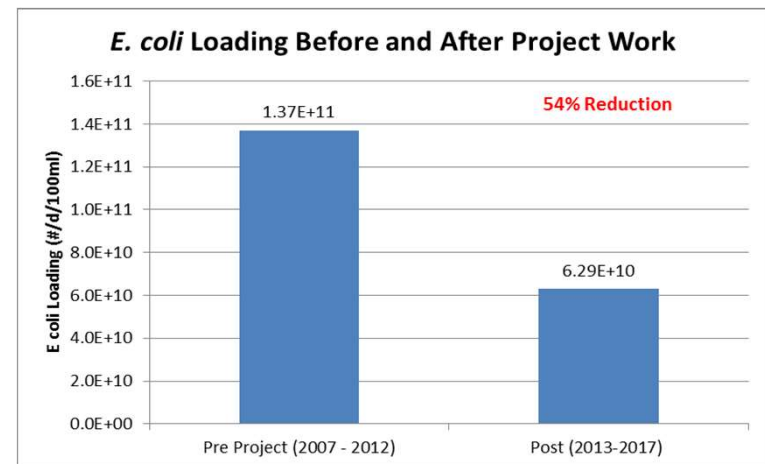
7.5 miles of Streambank
50,000 feet of fencing

Funding Spent

\$1.6 million total

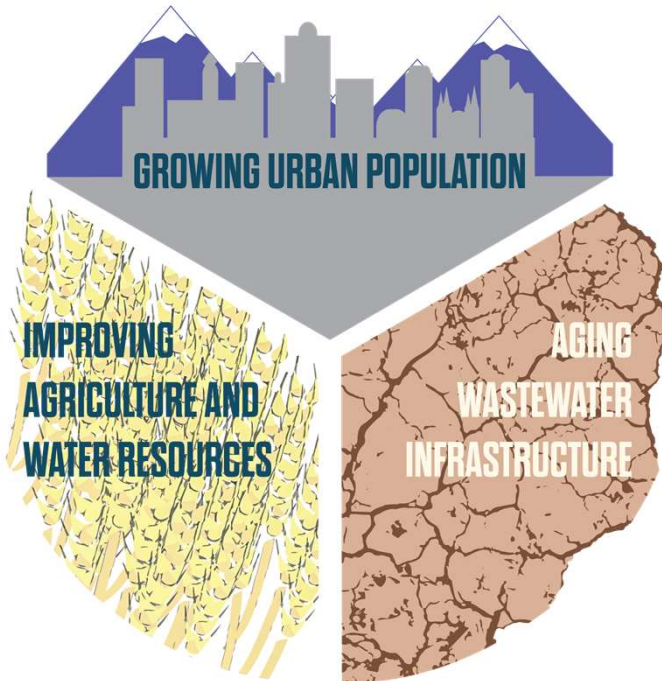
Water Quality Improvements

- Temperature listing resolved
- Upward trend in biological health
- 54% decrease in E.coli loading
- Reduced 1,000 lbs./year phosphorus to Deer Creek Res.



Conclusion

Support \$3 million Agricultural Water Quality Incentive Program.



Consider all water infrastructure needs in planning for growth and infrastructure replacement.



Division Funding

New funding sources:

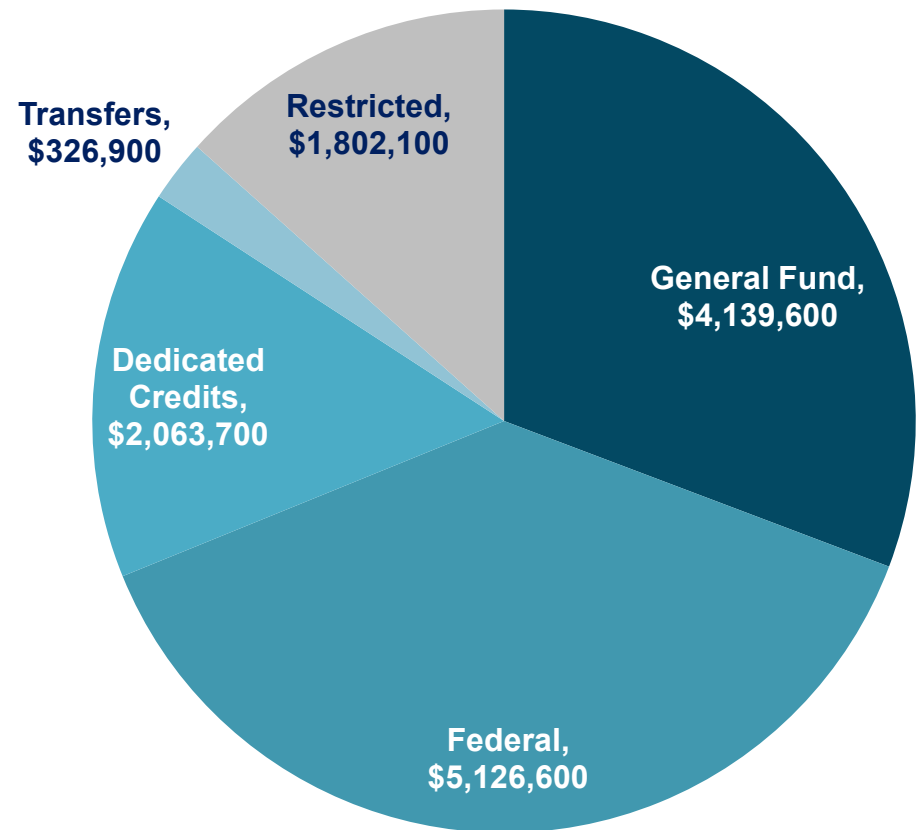
- Federal grants
- Fee schedule review

Non-lapsing balances:

- Peer review
- Utah Lake Water Quality Study
- Inland Port Monitoring

Reallocation of base budgets

- Shifting FTEs to priorities
- Transition to more seasonal monitoring staff
- New approach to data management

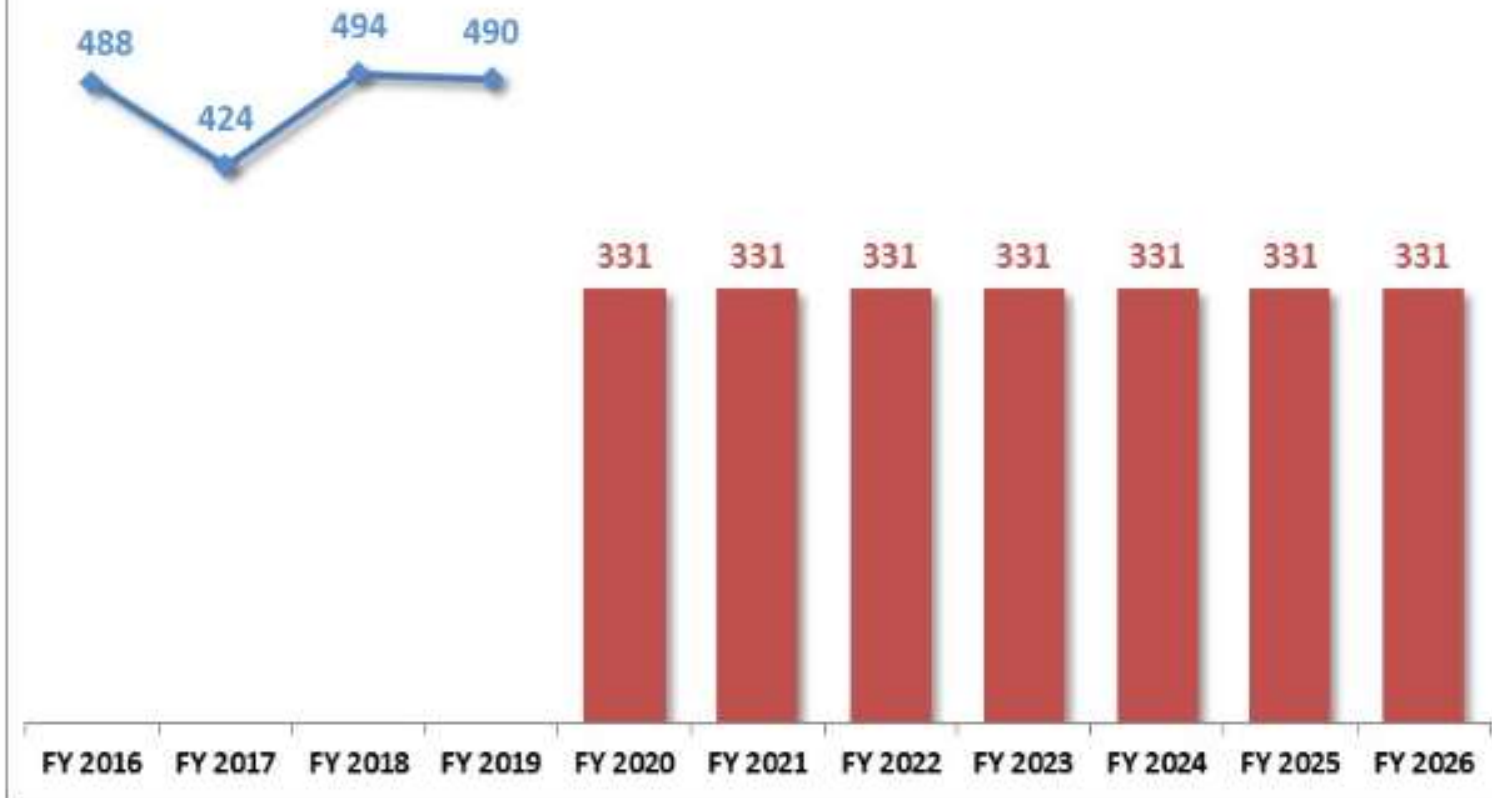


FY 2021: \$13,458,900



Municipal Wastewater Effluent Quality (mg/L Oxygen Consumption Potential) by 2025

■ Target —●— Actual



Percentage of Permits Renewed on Time

Actual Target

