

Water Plan Updates

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Platte River Recovery Implementation Program
Science Plan Reporting Session
February 20, 2024

Water Milestone Summary

Extension Water Objective

- Reach 120,000 AFY deficit reductions at Grand Island ASAP
 - 80,000 AFY from 3 initial state water projects
 - 40,000 AFY from implementation of Water Action Plan (WAP) projects
- Shift in focus to controllable water supplies
 - Surface water leases/exchanges
 - Recapture wells to enhance recharge projects

Operational Water Action Plan Projects

1 recapture project (8 wells)

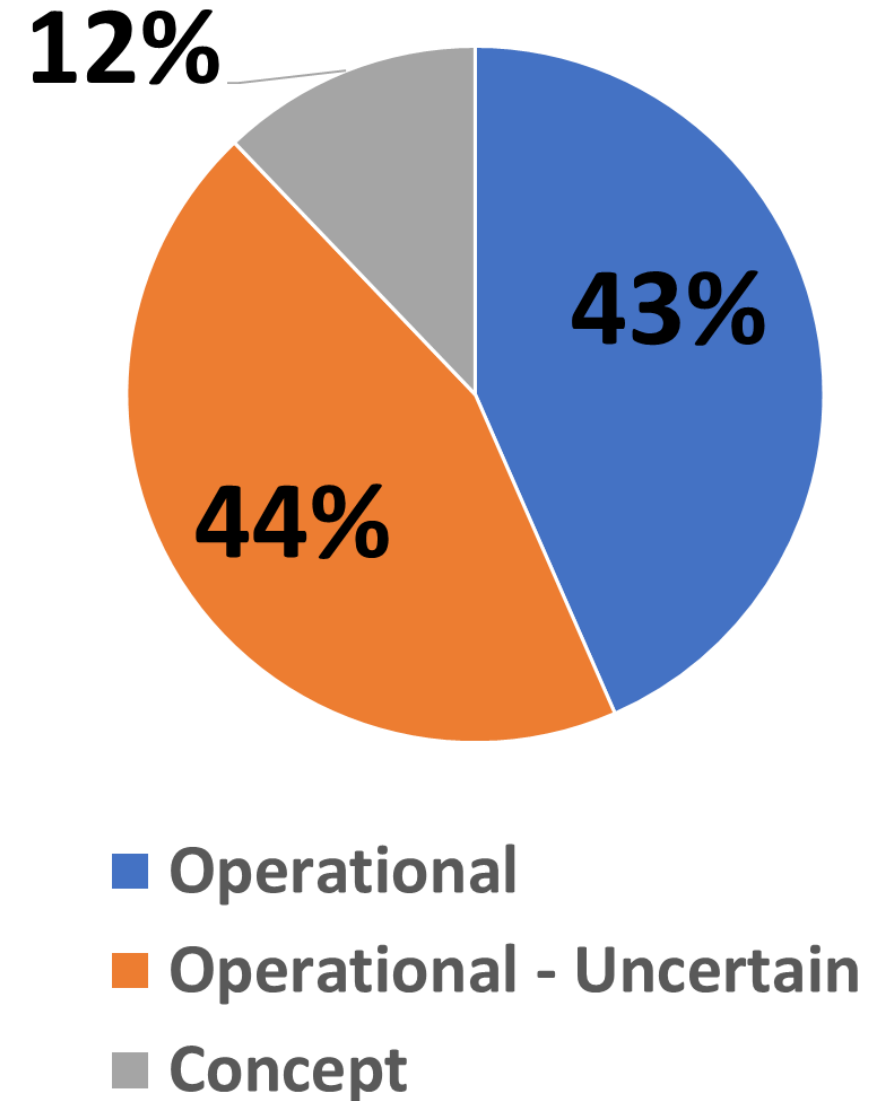
4 groundwater recharge

4 surface water leases

1 free water (314 AF)

WAP Operational + Concept Scores

| Project | Score (AFY) |
|-------------------------------------|---------------|
| Approved Scores (12,980 AF) | |
| Operational | 12,270 |
| Operational - Uncertain Future | 710 |
| Estimated Scores (19,610 AF) | |
| Operational | 3,840 |
| Operational - Uncertain Future | 15,770 |
| Concept Scores | |
| Expanded Recapture/Elwood Outlet | 4,500 |
| Total = | 37,090 |

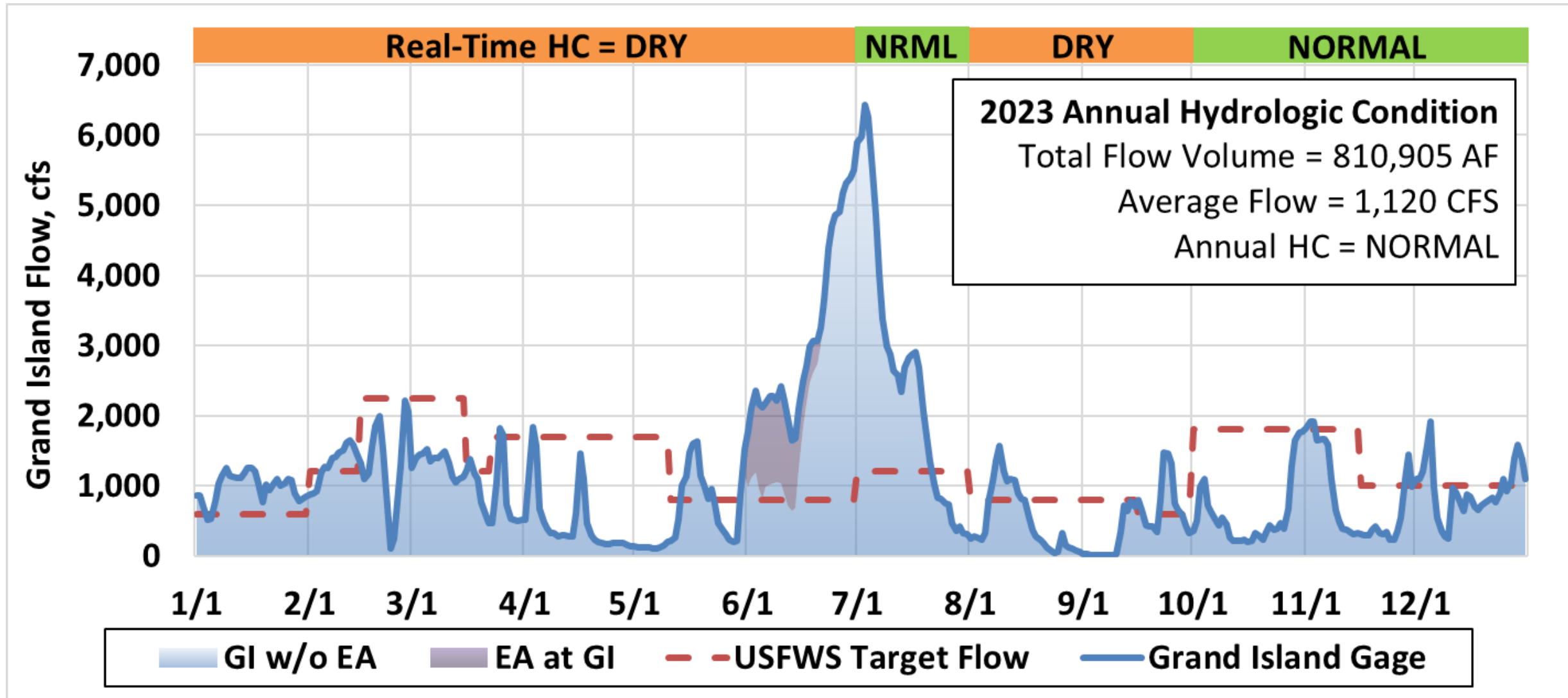


Impacts on Extension Water Activities

- Lake McConaughy EA
 - No water shortages, even when surface supplies limited
 - Adequate supplies in EA for test flow releases, e.g., germination suppression
- Water objective
 - Deficit reduction goal not yet achieved
 - NOT hindering science activities

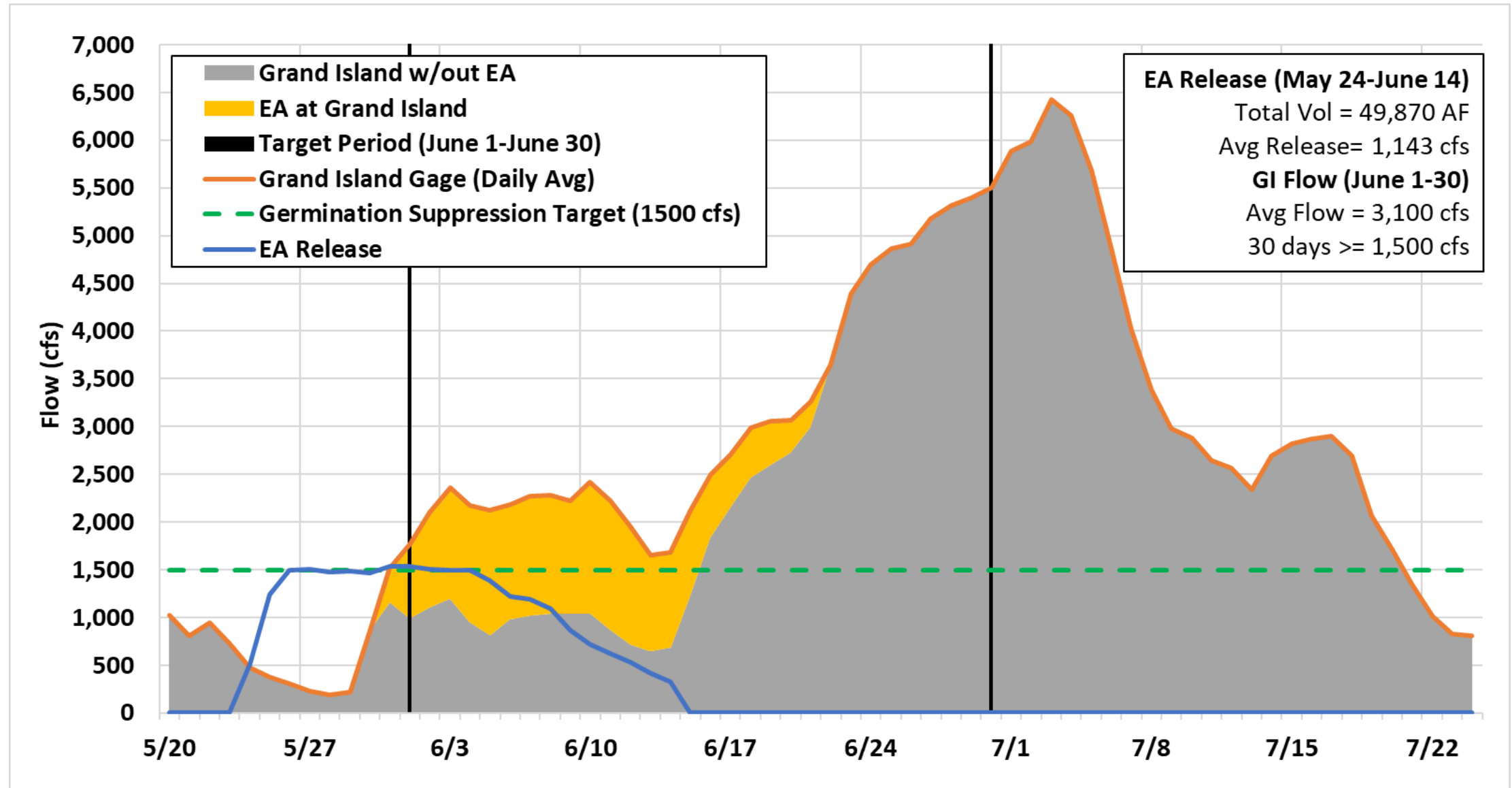
2023 Annual Flow Summary

0677500 Platte River near Grand Island - 2023

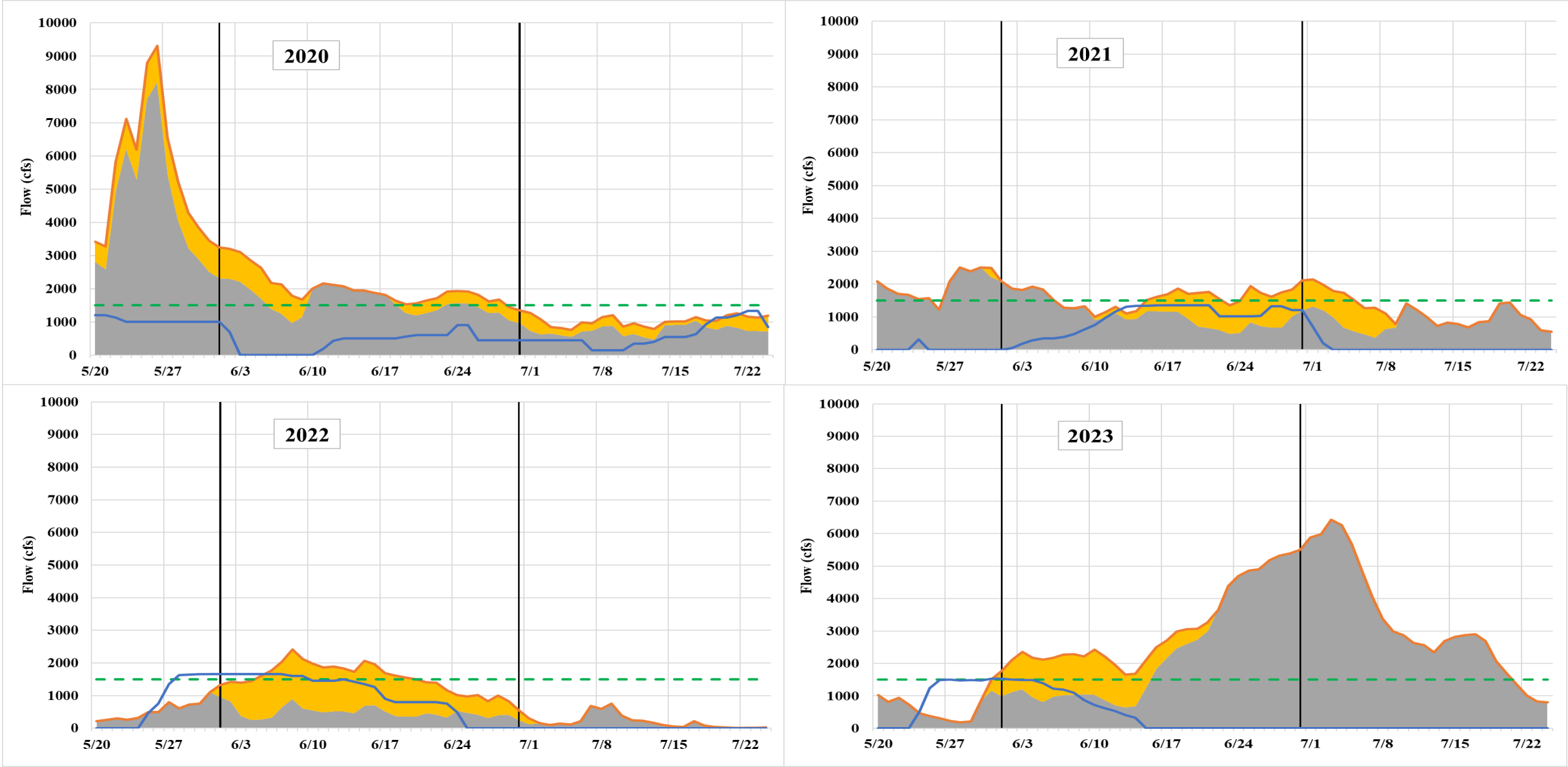


2023 Germination Suppression EA Release

2023 EA Release for Germination Suppression

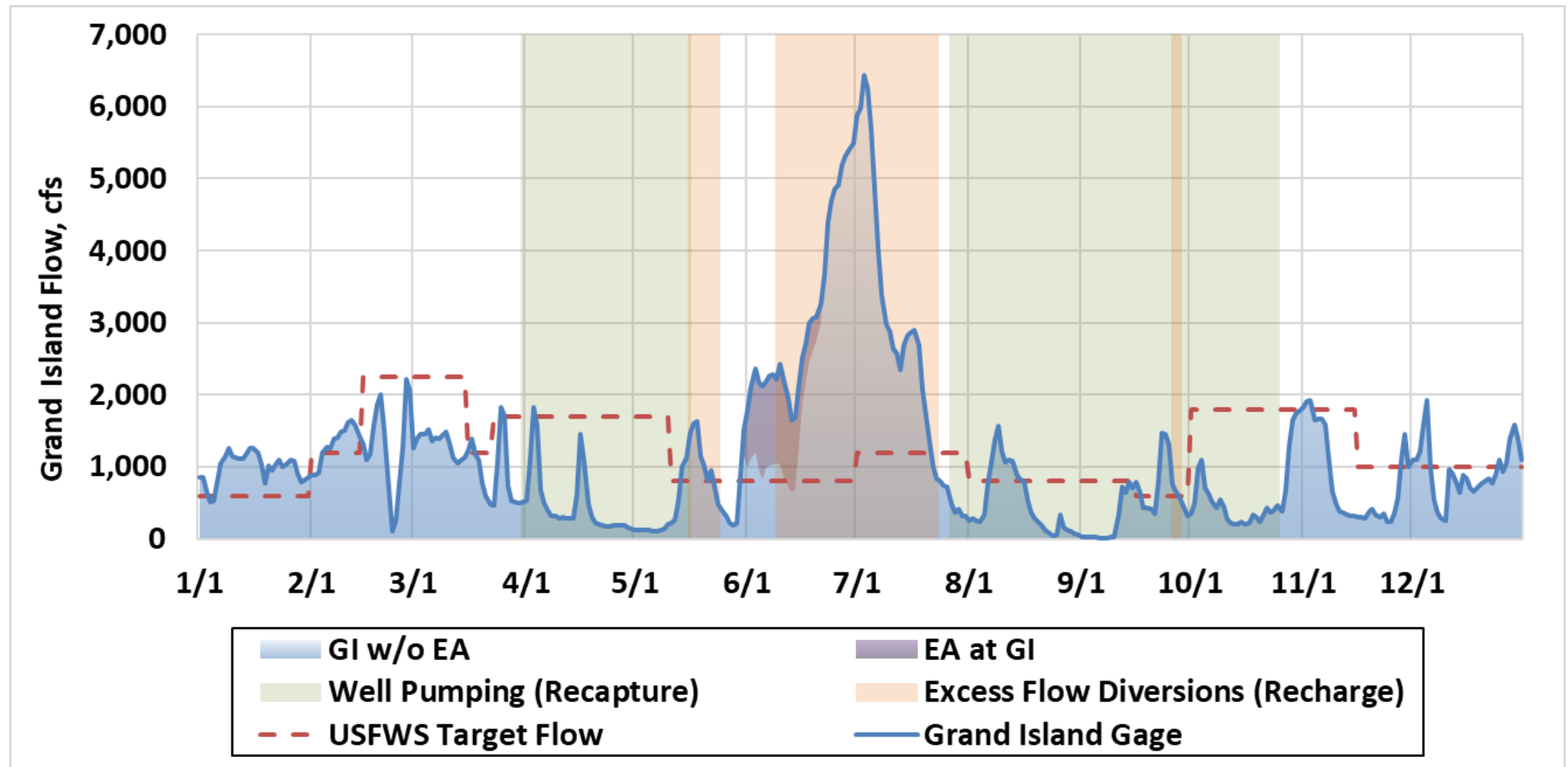


06770500 Platte River near Grand Island with Germination Suppression EA Releases, 2020-2023



2023 Water Projects Operations Summary

2023 Recharge and Recapture Periods



Cottonwood Ranch – South of Peterson Drain

Cell 5

Cell 4

Cell 2

Cell 1

Cottonwood Ranch – South of Peterson Drain

Cell 5

Cell 4

Cell 2

Cell 1



Cottonwood Ranch – North of Peterson Drain

Cell 8

Cell 6

Cell 3



2023 Recharge and Recapture Volumes

- Excess flow diversions for recharge = 6,129 AF
- Recapture well pumping (8 wells) = 2,768 AF



2023 Water Leasing and EA Contributions

**Total contributions to
Lake McConaughy EA
~85,000 AF**

- **Storable Natural Inflows**
- **Pathfinder EA**
- **No-Cost NCCW**
- **4 surface water leases**



2024 Water Plan Activities

2024 Water Plan Activities

- Lake McConaughy EA Releases
 - Spring whooping crane release (April)
 - Germination suppression (June)
- North Platte Chokepoint Study
- Expanded Recapture Reconnaissance Study

Questions?

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