

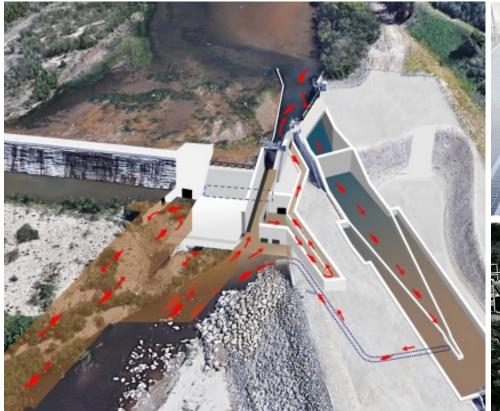


# We Aren't Out of the Woods Yet

The Threat of New Bypass Flow Recommendations to the Region



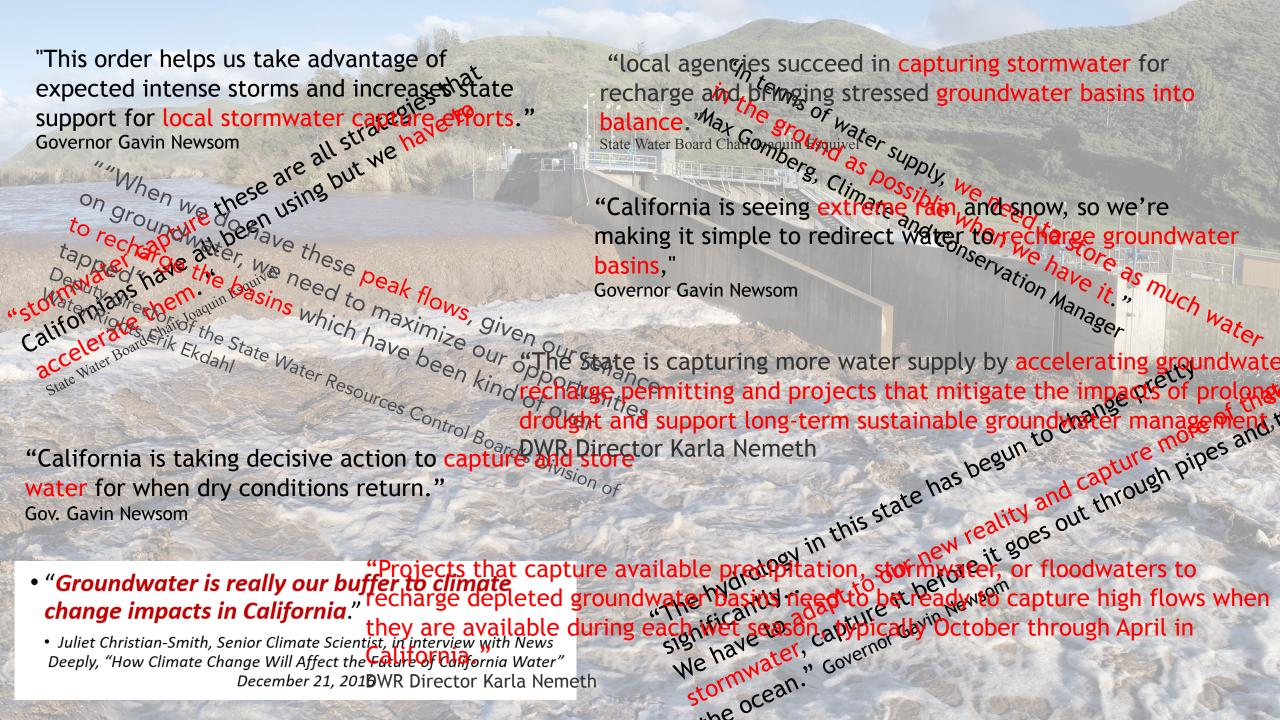
















Coastal Rainbow Trout
Scientific Name: Oncorhynchus Mykiss
Resident form: Rainbow Trout
Anadromous form: Steelhead

First: What is a Steelhead?



Maurice Cardenas Fisheries Biologist for California Department of Fish and Wildlife

## Steelhead / Oncorhynchus Mykiss are on three important lists

LAND PLANT (CONTINUED)

vellow Himalayan raspberry

AQUATIC INVERTEBRATE

Siam weed

tamarisk

wedelia

comb jelly

green crab

marine clam

zebra mussel

fish hook flea

strawberry guava

Chinese mitten crab

golden apple snail

Mediterranean mussel

Northern Pacific seastar

100 OF THE WORLD'S WORST INVASIVE **ALIEN SPECIES** 

(Chromolaena odorata)

(Psidium cattleianum)

(Tamarix ramosissima)

(Rubus ellipticus)

(Eriocheir sinensis)

(Mnemiopsis leidvi)

(Cercopagis pengoi)

(Carcinus maenas) (Potamocorbula amurensis)

(Asterias amurensis)

(Dreissena polymorpha)

Topics

(Pomacea canaliculata)

(Mytilus galloprovincialis)

(Sphagneticola trilobata)



Fishing & Seafood

**Protecting Marine Life** 

Search

#### SPECIES DIRECTORY

### Steelhead Trout

Conservation & Management Resources

#### Steelhead Trout Oncorhynchus mykiss



#### Protected Status

ESA ENDANGERED

Southern California DPS ESA THREATENED

California Central Valley DPS

**ESA THREATENED** 

Central California Coast DPS

#### Protected Status

ESA ENDANGERED

Southern California DPS Worthern California LIPS

ESA THREATENED

Puget Sound DPS

ESA THREATENED



**About The Species** 

#### MICRO-ORGANISM

avian malaria banana bunchy top virus rinderpest virus

#### MACRO-FUNGI

chestnut blight crayfish plague Dutch elm disease frog chytrid fungus phytophthora root rot

#### AQUATIC PLANT

caulerpa seaweed common cord-grass wakame seaweed water hyacinth

#### LAND PLANT

African tulip tree Brazilian pepper tree cogon grass cluster pine erect pricklypear fire tree giant reed hiptage Japanese knotweed Kahili ginger Koster's curse kndzn lantana leafy spurge leucaena melaleuca mesquite miconia mile-a-minute weed privet pumpwood purple loosestrife quinine tree

Steelhead trout are a unique species. Individuals develop differently depending on their environment. All

steelhead trout hatch in gravel-bottomed, fast-flowing, well-oxygenated rivers and streams. Some stay in

fresh water all their lives, and are called rainbow trout. Steelhead trout that migrate to the ocean typically

(Plasmodium relictum) (Banana bunchy top virus) (Rinderpest virus)

(Cryphonectria parasitica) (Aphanomyces astaci) (Ophiostoma ulmi) (Batrachochytrium dendrobatidis) (Phytophthora cinnamomi)

(Caulerpa taxifolia) (Spartina anglica) (Undaria pinnatifida) (Eichhornia crassipes)

(Spathodea campanulata) (Acacia mearnsii) (Schinus terebinthifolius) (Imperata cylindrica) (Pinus pinaster) (Opuntia stricta) (Myrica fava) (Arundo donax) (Ulex europaeus) (Hiptage benghalensis) (Fallopia japonica) (Hedychium gardnerianum) (Clidemia hirta) (Pueraria montana var. lobata) (Lantana camara) (Euphorbia esula) (Leucaena leucocephala) (Melaleuca quinquenervia) (Prosopis glandulosa) (Miconia calvescens) (Mikania micrantha) (Mimosa pigra) (Ligustrum robustum) (Cecropia peltata) (Lythrum salicaria) (Cinchona pubescens) shoebutton ardisia (Ardisia elliptica)

## Arge Asia Asia big-h comi comi crazy cypro



Map

(Oreochromis mossambicus)

(Oncorhynchus mykiss)

(Clarias batrachus)

(Gambusia affinis)

(Clarias batrachus)

(Gambusia affinis)

(Acridotheres tristis)

(Pycnonotus cafer)

(Sturmus vulgaris)

(Boiga irregularis)

(Trachemys scripta)

(Trichosurus vulpecula)

(Lates niloticus)

**Online Regulations Booklets** 

Mozambique tilapia

Western mosquito fish

Western mosquito fish

Nile perch

rainbow trout

walking catfish

walking catfish

Indian myna bird

red-vented bulbul

brown tree snake

red-eared slider

brushtail possum

starling

REPTILE

MA MMA L

**Fishing Guide** Regulations

Daily Bag and Possession Limit

0 trout

7.50(a): General Provisions

gyp kha littl red rosy

gian

AM bull

car

Car bro

7.50(a)(1): Every body of water listed in subsection (b) is closed to all fishing except during the open season as shown. Unless otherwise provided, waters shown as open to trout fishing in subsection (b), are open to fishing for other species. Gear restrictions listed in this section apply to the take of all species of fish unless otherwise noted.

7.50(a)(2): Unless otherwise provided, waters closed to trout fishing are closed to fishing for all other species, except that these closures do not apply to fishing for amphibians (see Section 5.05), freshwater clams (see Section 5.20), crayfish (see Section 5.35), and lamprey (see Section 5.40), using legal fishing methods other than hook-and-line fishing, and saltwater clams, crabs, ghost shrimp, and blue mud shrimp (see Ocean Regulations Booklet sections 29.20 to 29.87). Crabs may only be taken using hoop nets or by hand, and Dungeness crab may only be taken within the North Coast District and Sonoma and Mendocino Counties.

7.50(a)(3): Daily bag and possession limits, unless otherwise noted, mean the total number of trout

7.50(a)(4): Unless otherwise provided, it is unlawful to possess more than one daily bag limit.

7.50(a)(5): These waters may also be subject to restrictions on fishing methods and gear (Sections 2.00 through 2.40), fishing hours (Section 3.00), and the use of bait (Sections 4.00 through 4.30).

7.50(b): ALPHABETICAL LIST OF TROUT WATERS WITH SPECIAL FISHING REGULATIONS

7.50(b)(108): Piru Creek (Los Angeles and Ventura Cos.).

7.50(b)(108)(A): Piru Creek and tributaries upstream of Pyramid Lake 7.50(b)(133); Sespe Creek and tributaries above Alder Creek confluence (Ventura Co.) All year. Only artificial lures may be used 2 trout

All year. Only artificial lures with barbless hooks may be used

Open Season and Special Restrictions

questions and comments

EMAIL CDFW

This website will not be accessible in remote areas of the state where there is a limited cellular data connection. The angler is responsible for knowing the regulations in the area that they are fishing.

7.50(b)(108): Piru Creek (Los Angeles and Ventura Cos.).

7.50(b)(108)(A): Piru Creek and tributaries upstream of Pyramid Lake

7.50(b)(133); Sespe Creek and tributaries above Alder Creek confluence (Ventura Co.).



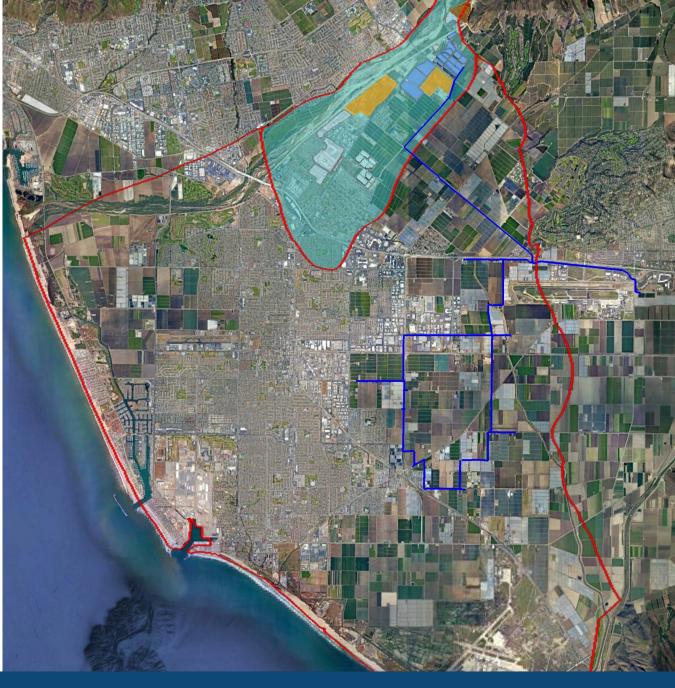
"Finally, no genetic basis was found for the division of populations from the region into two distinct biological groups, contrary to current classification under the US and California Endangered Species Acts."

Clemento, A.J., E.C. Anderson, D. Boughton, D. Girman, J.C. Garza. 2008. Population genetic structure and ancestry of Oncorhynchus mykiss populations above and below dams in south-central California. Conservation Genetics.

Endangered









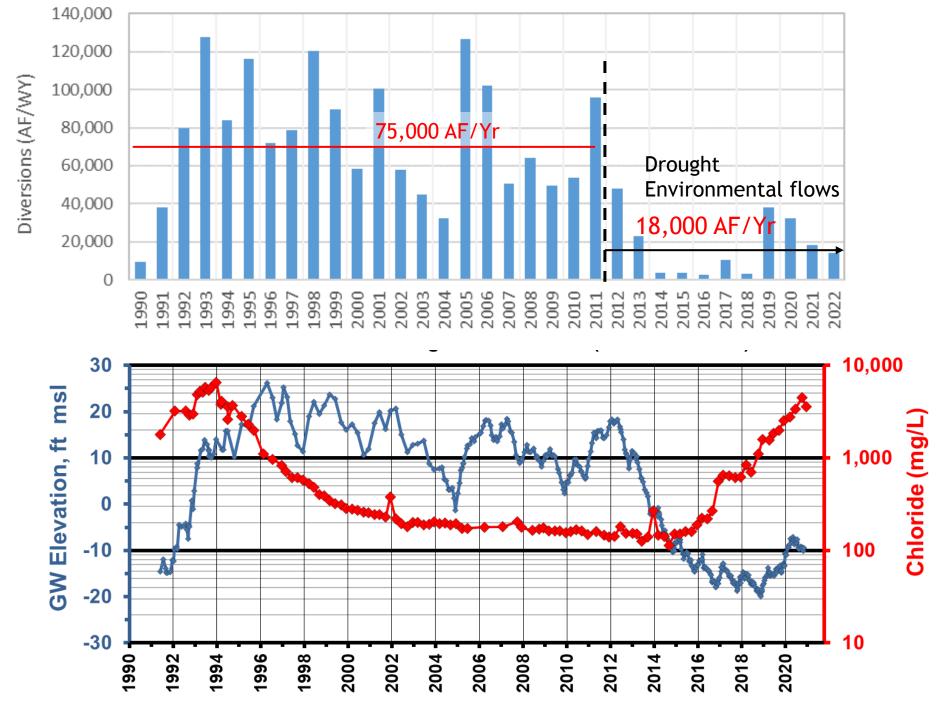




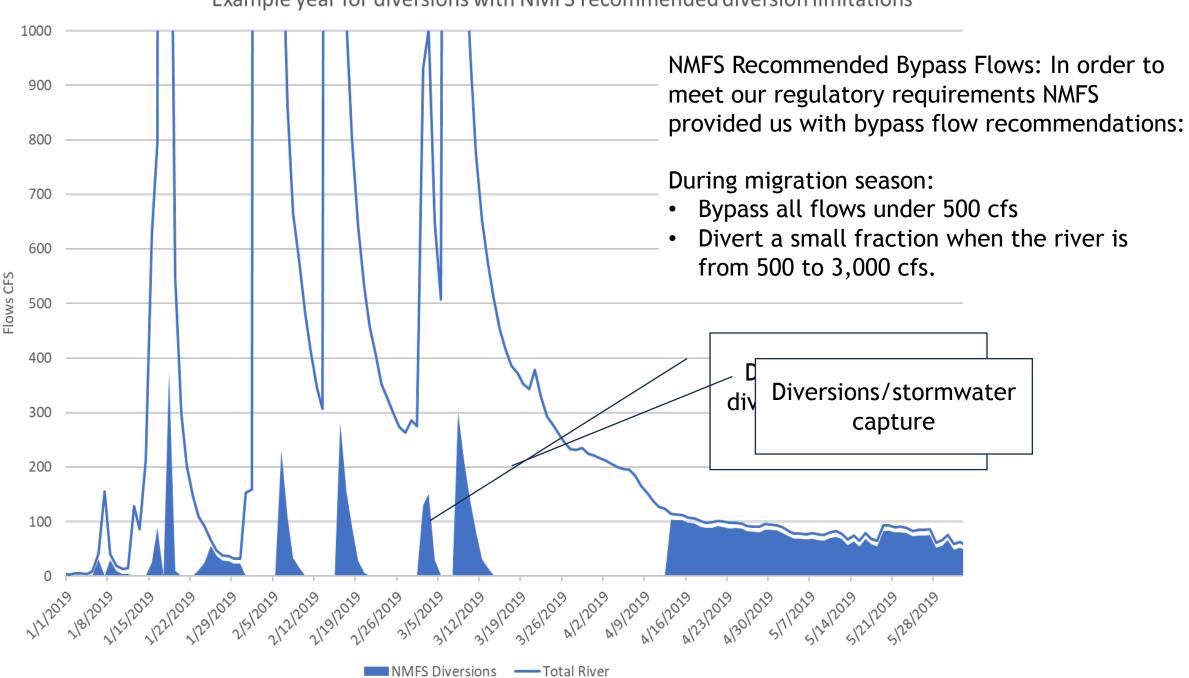


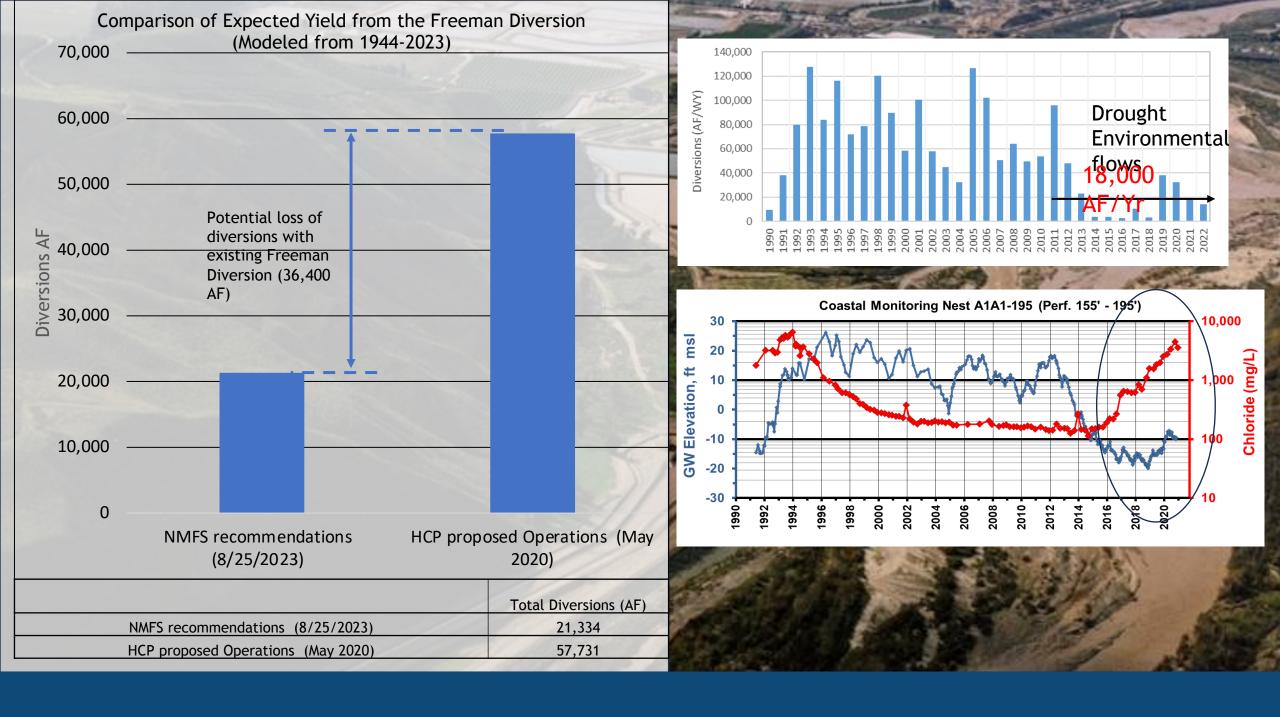


Stormwater capture/ groundwater recharge has protected the Oxnard Plain against seawater intrusion.

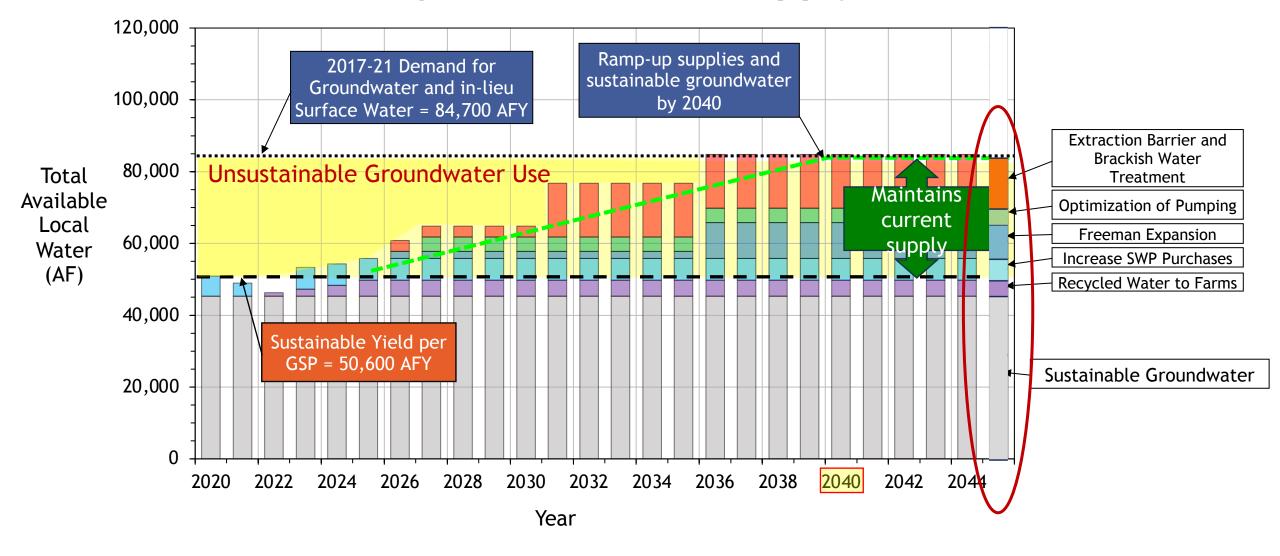


### Example year for diversions with NMFS recommended diversion limitations

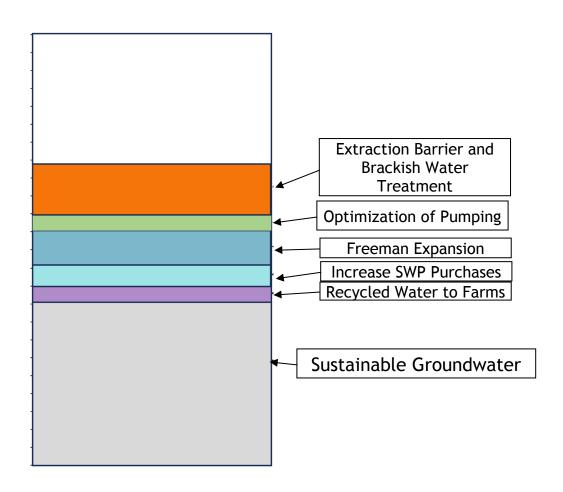


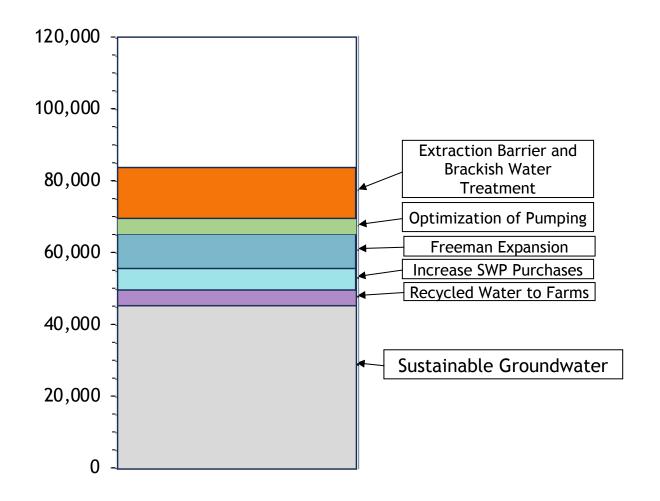


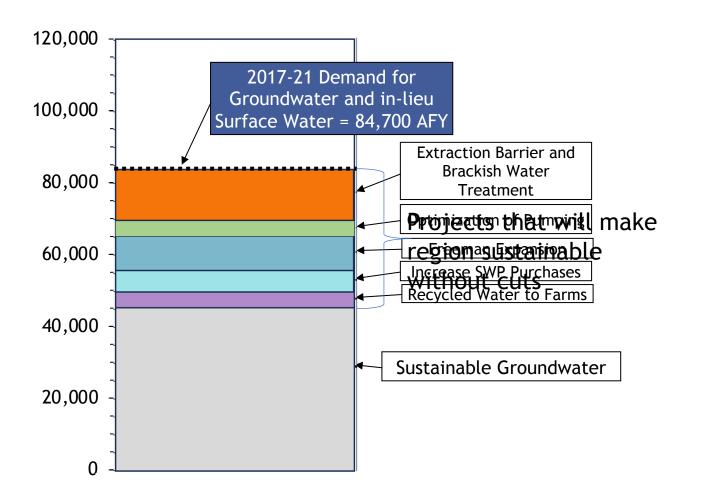
## Therefore, Several Large, Costly New Projects Added to GSPs to Avoid Devastating Reductions in Supply

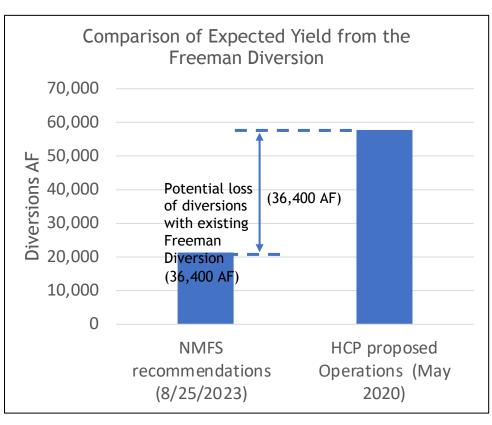


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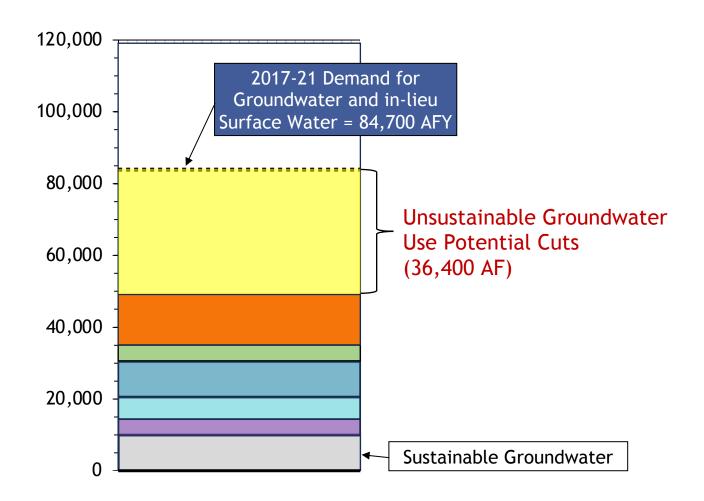


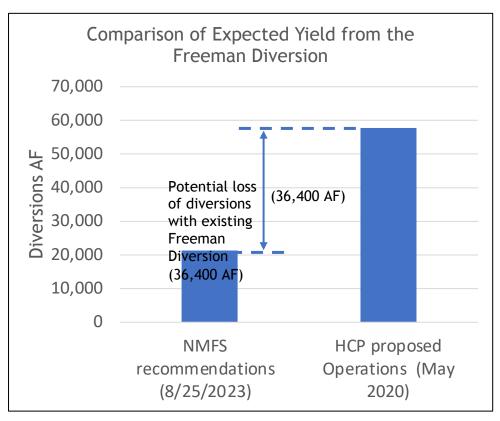


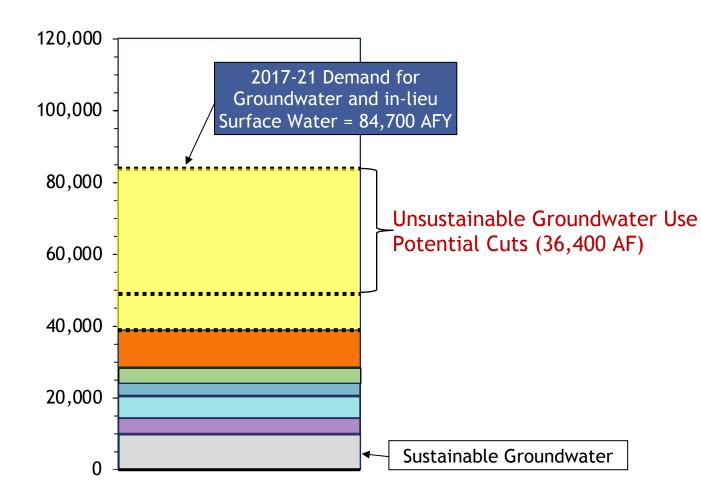


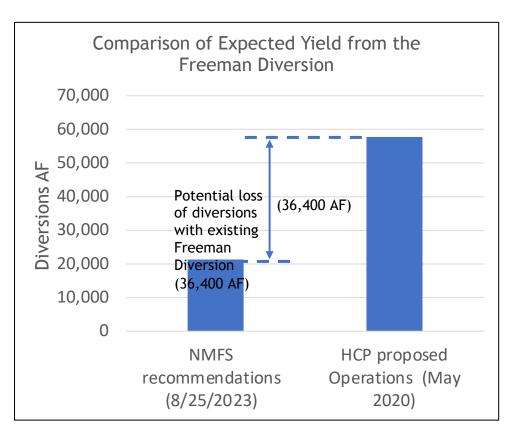


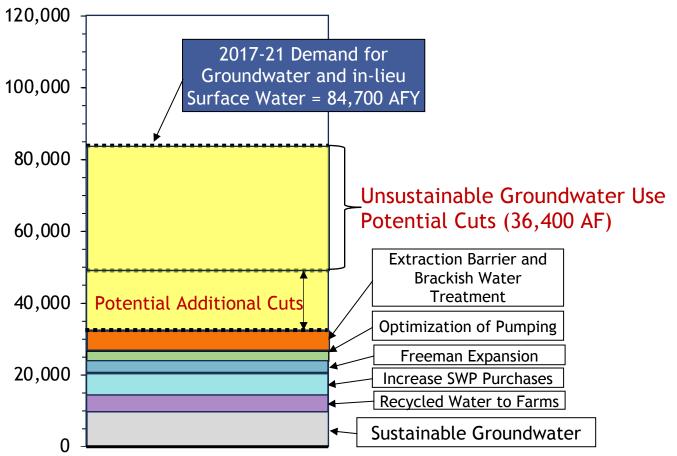
Also assumes surface-water diversions from Santa Clara River would continue at historical rates.

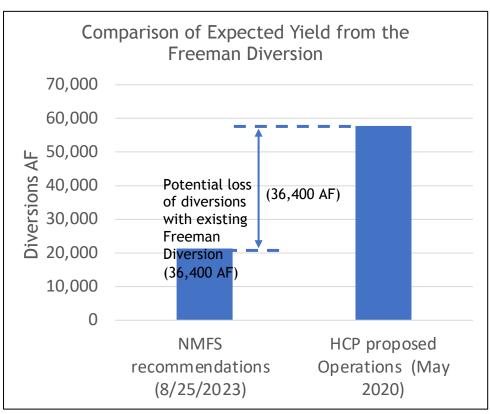












## Reducing Diversions by 40,000 - 50,000 AFU Would Reduce Sustainable Yield of Groundwater by a Similar Amount

That would limit groundwater use to approximately 10,000 AFY. Potential outcomes include:

- Elimination of 60% of agriculture in the Oxnard and Pleasant Valley Basins.
- Replace lost yield with water from other sources?
  - If additional new projects are viable, they would be very costly.
  - Available alternative sources require significantly more energy (GHGs)
    - SWP imports
    - Recycled water
    - Seawater desalination

### This slide will be modified after input from Bill Ball on what everyone can do

- 06/01/2020 The June 1, 2020 FERC notice established July 1, 2020, as the deadline for filing motions to intervene.
- 8/29/2023 NMFS Motion to Intervene on the SFDSIP to FERC
  - Triggered \*FERC categorizing the project as a contested proceeding (impacted UWCD's communication with FERC)
- 9/13/2023 UWCD Filed Opposition to Late Motion to Intervene
- 10/3/2023 FERC issued a Notice Denying Late Intervention (to NMFS)

