

Project & Management Actions

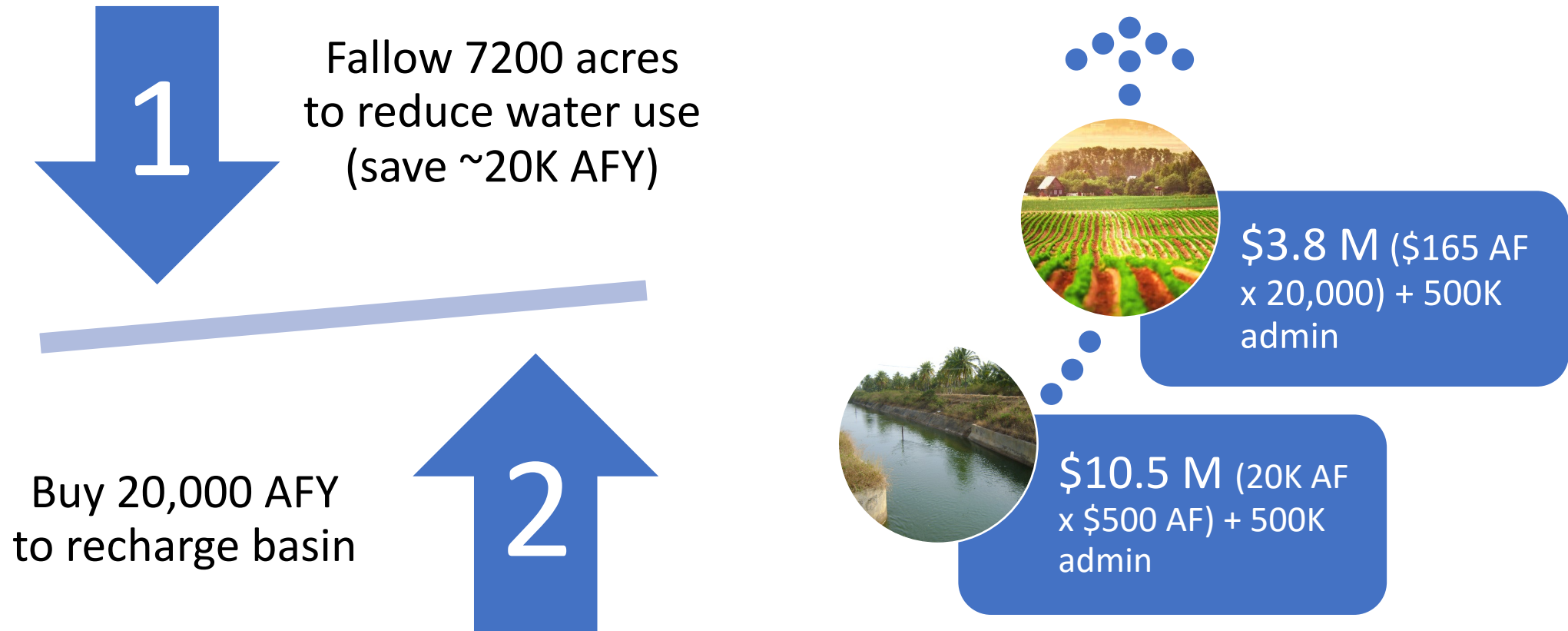
Cosumnes Subbasin Groundwater Sustainability
2022-2042

Options: The Moving Parts

What we need to do: Increase subbasin volume 20,000 acre/feet on average annually over 20 years

- Reduce usage
 - Pay farmers to fallow land
- Increase storage
 - Pay to build recharge capability
- Fund program
 - Annual fee to manage program & monitoring (\$750,000 budget)
 - Allocation of costs to pay for program infrastructure (fallowing, recharging)

Options 1 & 2 Are Extremely Costly



Proposed Plan

Start Up Period: 2022-2025

- Review sub-basin governance structure; revise if needed
- Review fee structure; modify if needed
 - County Admin Fee (parcel based)
 - Pumpage fee (paid by farmers based on AFY pumped)
- Develop local PMAs
- Pursue partnerships with SAFCA and water purveyor
- Gauge interest in following
- Secure agreements with farmers to use their land for winter recharge.
- Construct pumps/pipes to serve recharge land

Proposed Plan

Early Years (2025-2027)

- Fallow water from 1500 acres
- No sale of fallow water during this early period
- Implement other PMAs (Harvest water; OHWD Cosumnes River recharge and OHWD Cosumnes River flow augmentation)
- Enter into a groundwater banking agreement with a water purveyor to store winter water acquired **by the purveyor** for dry year augmentation
- Use the net revenue generated by the storage to pay for PMAs and create a reserve fund.

Proposed Plan

Later Years (2027-2042):

- Fallow water from 2500 acres
- Fallowed water could be sold only when guarantees in place for a greater volume of imported water.
- Continue implementation of other PMAs
- Modify the groundwater banking agreement to sell fallowed water to the purveyor for dry year augmentation
- Use the net revenue generated by the water sales to secure winter water from the American River for Cosumnes Basin recharge
 - Excess revenue will pay for other PMAs and maintain a reserve

Estimated costs associated with each option

- * - Proposed Plan includes other PMAs such as Harvest Water, Galt WWTP Recharge, OH Recharge /Cosumnes and American River, OHWD Flow Augmentation

Option	Admin Fee	Pumpage Fee	Total Cost	Notes
1 (fallow only)	\$10/acre	\$100/acre	\$115/acre	Acres fallowed - 7200
2 (water purchase)	\$10/acre	\$250/acre	\$260/acre	Acres fallowed - 0
3* (Proposed Plan)	\$10/acre	\$28/acre	\$38/acre	Acres fallowed - 2500

Proposed Plan
 Early Years:
 Annual Water
 budget, Costs &
 Funding Sources
 2024-2027

PMA	Deficit reduction AFY	Costs		
		Admin Fee	Pumpage Fee	GW banking
Fallowing (1500 ac)	4000		\$600,000	
Payment to farmers for recharge (2,000 acres @ \$200/ac)			\$400,000	
Banking facilities/operations (4,000 AF – storage only)				\$1,000,000
Harvest Water Program	2000	\$50,000		
OHWD Cos Riv Recharge	250	\$50,000		
OHWD Cos Riv Flow Augmentation	600			\$100,000
Other Admin/Reserve		\$400,000		\$300,000
Total	6870	\$500,000	\$1,000,000	\$1,400,000
Source of Funding		Admin Fee	Pumpage Fee	GW banking

Proposed Plan
 Later Years:
 Annual Water
 budget, Costs &
 Funding Sources
 2027-42

PMA	Deficit reduction AFY	Costs		
		Admin	Pumpage Fee	Sale of water
Following (2500 ac)	6700		\$1,000,000	
FSC ag recharge from American River	12000			\$1,980,000
FSC OHWD recharge American River	4000			\$660,000
Sale of fallowed water	-6000			
GW banking – facilities/operation				\$600,000
OHWD Cos Riv water augmentation	600			\$100,000
Harvest Water Program	2000	\$50,000		
Galt WWTP reuse	1400	\$50,000		
Other PMAs TBD	2000			\$300,000
Other Admin/Reserve		\$400,000		\$260,000
Total	22700	\$500,000	\$1,000,000	\$3,900,000
Source of Funding		Admin	Pumpage Fee	Sale of water

Proposed Plan: Conditions for Sale of Fallowed Water

- Under the Proposed Plan, no fallowed water sold until:
 - Agreements are in place to assure American River winter flood water will be sent to Cosumnes Basin
 - Volumes of winter flood water will exceed the amount of fallowed water sold
- Agreements would be made by the Cosumnes Basin administrative entity with:
 - SAFCA
 - Bureau of Reclamation
 - Others as necessary to create the SAFCA FloodMAR program

Legality of transferring water rights to Cosumnes Administrative Entity

- Consultation with SRCD attorney, Kronick Moscovitz Tiedemann.
 - It is legal and not uncommon in San Joaquin Valley and SoCal for an individual landowner to transfer water rights to administrative entity
 - Transferring rights of fallowed water avoids Water Board permitting, but does require a County permit
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- Rental of basin for storage also not uncommon

Why Partner with SAFCA and a Water Purveyor

- Water Purveyor
 - Helps us meet our MO
 - Minimize costs, minimize flooding
 - Utilizes valuable resources in basin
 - Natural – Our GW storage capacity
 - Constructed – Folsom Dam, FSC, connection to the Mokelumne Canal
 - Avoids complications of moving water through Delta.
- SAFCA needs partner to implement regional FloodMAR program
 - Needs revenue to help pay for program
 - Program will not be developed if no willing partner is found
 - Cosumnes stands the most to gain of all possible regional partners

Questions – thoughts?