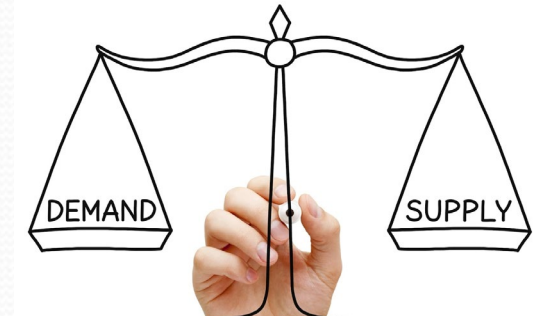
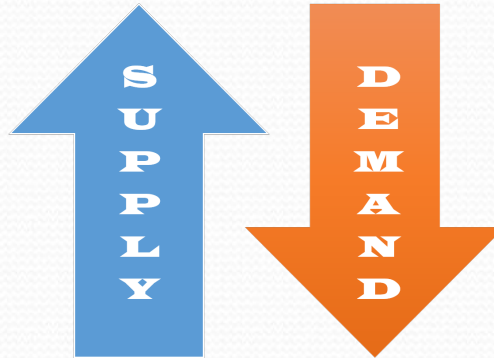
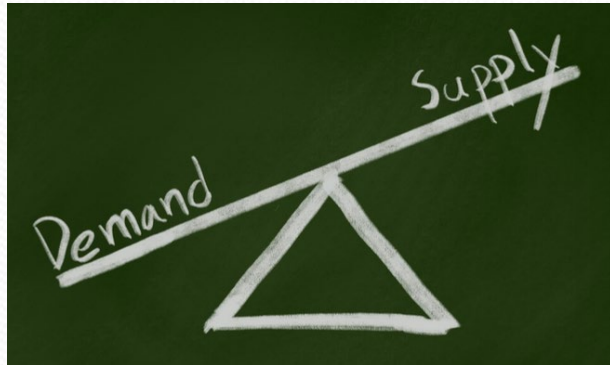


An aerial photograph of a large reservoir with a dam. The water is a deep blue, and the dam is a light-colored concrete structure. To the right of the dam, there are rows of green agricultural fields. In the background, there are more fields and some buildings under a clear blue sky with light clouds.

SESSION 4
PROJECTS AND
MANAGEMENT ACTIONS

Achieving Sustainability

- There are basically only two ways to achieve sustainability and eliminate overdraft:
 - Increase water supply – primarily through project development
 - Reduce water demand – primarily through management actions
- Increasing water supply will be the emphasis, but there are hurdles to overcome
- Demand reduction through management actions will likely need to be initiated within 5 - 10 years if project development and implementation is not progressing



Average Overdraft = 0 AF/yr

Project List

This preliminary list of projects identified in the GSP will be continuously updated with new projects



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Project ID	Project Title	Implemented By	Estimated Benefits AF/yr		Generalized Priority	Estimated Capital Cost to GSA	Estimated Cost per Acre-Foot
			Avg Annual Recharge	Demand Reduction			
NFK1	Basin 11 Improvement Project	Laguna ID	1,420		High		
NFK2	Basin 11 Expansion Project	Laguna ID	1,110		High		
NFK3	Laton North Recharge Project	Laguna ID	3,080	390	High		
NFK4	North Fork Regional Recharge Project	NFKGSA /LID	11,660	280	High	\$20.8M	\$151
NFK5	Zonneveld Pond Improvement Project	Laguna ID	430		High		
NFK6	On-Farm Recharge	Landowners	5,000 *		High		
NFK7	Cerini Recharge Project	Crescent / Stinson	6,500 *		High		
NFK8	Kamm Recharge Project	Landowner	10,400 *		High		
NFK9	Terra Linda Recharge Project	Landowner	1,560	210	High		
NFK10	Misc. Landowner Recharge Basins	Landowners	4,180 *	500	High		
NFK11	Upgradient Recharge Outside NFKGSA	NFKGSA	4,500 *	430	High	\$17.1M	\$265
NFK12	Mussel Slough Recharge Project	Laguna ID	4,730	700	Medium		
NFK13	Misc. Dry Well Recharge Systems	Landowners	2,000 *		Medium		
NFK14	Misc. Reverse Subsurface Tile Systems	Landowners	2,000 *		Medium		
NFK15	Laton North Phase 2 Recharge Project	NFKGSA	3,080	390	Medium	\$2.5M	\$65
NFK16	Pires Recharge Project	Laguna ID	550		Low		
NFK17	North Fork Group Site 16	NFKGSA	130 *		Low	\$0.4M	\$214
NFK18	North Fork Group Site 3	Laguna ID	320		Low		
NFK19	North Fork Group Site 6	Reed Ditch Co.	150		Low		
Subtotal			62,800	2,900		\$40.8M	

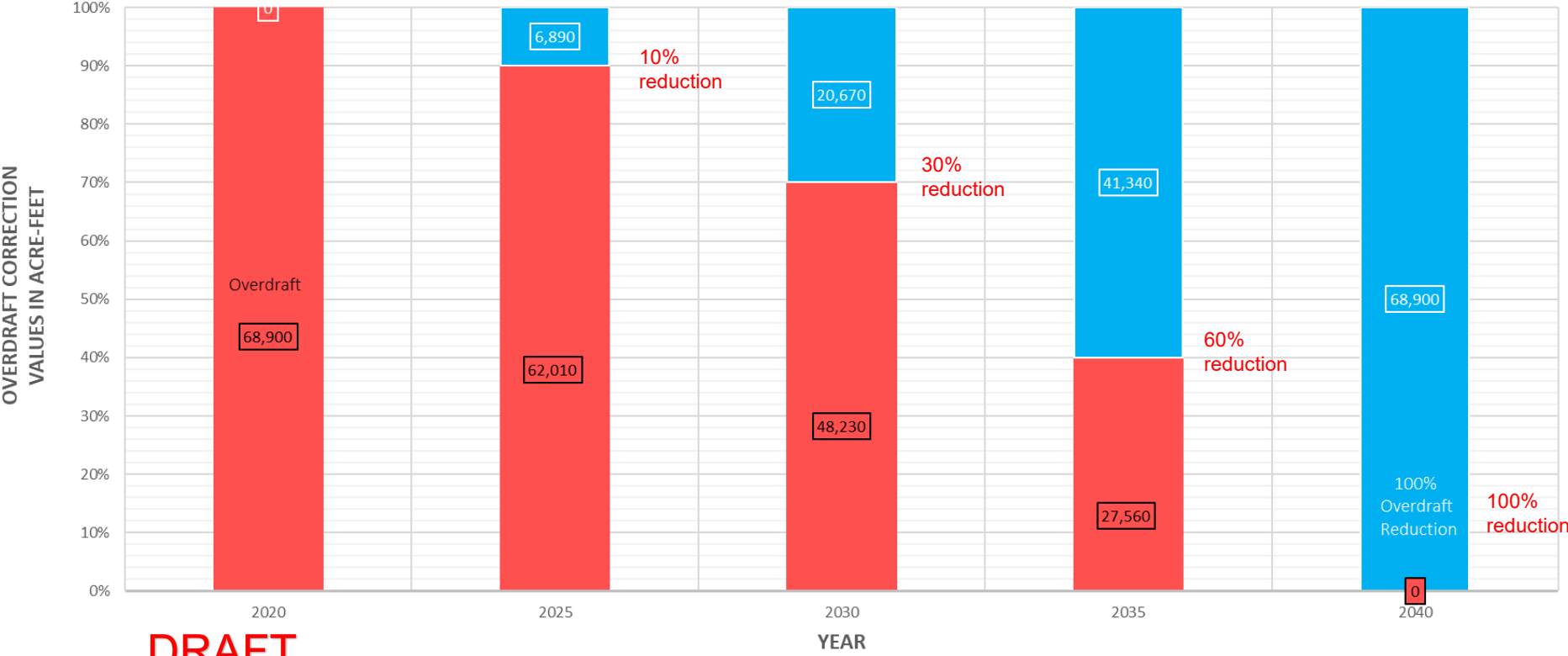
* = project is scalable, estimated annual benefits could be increased

Potential Management Actions

- Management Actions are programs and policies that will aid the GSA in achieving sustainability primarily through improving data collection, monitoring, and groundwater demand reduction
- A suite of potential management actions are presented in the GSP that may be implemented at the GSA level or landowner level if GSA project implementation does not eliminate overdraft
- Management Action categories included in the GSP:
 - Education and Outreach
 - Well Head Requirements
 - Groundwater Allocation
 - Groundwater Marketing/Trading
 - Fees and Incentives
 - Groundwater Pumping Restrictions
- Specific details of future policies and programs will be developed during GSP implementation
- GSA will establish the response criteria for Minimum Thresholds exceedances



NFKGSA GLIDE PATH TO SUSTAINABILITY



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NFKGSA PLAN IMPLEMENTATION SCHEDULE

Estimated Projects and Management Actions	2020 - 2025	2025 - 2030	2030 - 2035	2035 - 2040	Beyond 2040
Plans to Fill Data Gaps	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK1 - Basin 11 Improvements	Implementation	Ongoing O&M	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK2 - Basin 11 Expansion	Implementation	Ongoing O&M	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK3 - Laton North Recharge Project	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK4 - North Fork Regional Recharge Project	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK 5 - Zonneveld Pond Improvements	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK 6 - On-farm Recharge	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK 7 - Cerini Recharge Project	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK 8 - Kamm Recharge Project	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK 9 - Terra Linda (Coelho) Farm Recharge Project	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK 10 - Landowner Recharge Basins	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK11 - Upgradient Recharge Outside NFKGSA	Implementation	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M
NFK12 - Mussel Slough Ranch Recharge	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK13 - Dry Wells Along Canals	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK14 - Reverse Tile Drains	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK15 - Laton North Phase 2 Recharge Project	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK16 - Pires Recharge Project	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK17 - North Fork Group Site 16	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
NFK18 - North Fork Group Site 3 (Dias Pond)	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
NFK19 - North Fork Group Site 6	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
Education and Outreach	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
Well Head Requirements	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
Groundwater Allocation	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
Groundwater Marketing/Trading	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M
Fees and Incentives	Implementation	Benefits Realized	Ongoing O&M	Ongoing O&M	Ongoing O&M
Groundwater Pumping Restrictions	Implementation	Implementation	Implementation	Benefits Realized	Ongoing O&M

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Legend

Planning	Implementation
Implementation	Benefits Realized
Benefits Realized	Ongoing O&M

GSP Implementation

- First Priorities
 - Develop projects to augment the groundwater supply
 - Develop a data management system and fill data gaps
 - Secure funding through grants, Proposition 218 Elections, local agencies, and potential management actions
- Second Priority
 - Implement management actions to reduce groundwater demand





Questions?

Wrap Up & Next Steps for NFKGSA Stakeholders

- Download GSP from NFKGSA website at www.northforkkings.org/gspcomment
- Provide written comments by October 21, 2019
- **GSP Webinar August 29, 2019** from 3:00-5:00 pm
 - Register online at www.northforkkings.org/gspwebinar
- **Office Hours Chat September 24, 2019** from 2:00-4:00 pm
 - Riverdale Education Center. *Online chat info to come.*
- Public Hearing October 23, 2019 at 5:30 pm
 - Riverdale Education Center