

# Cawelo GSP – Summary Presentation

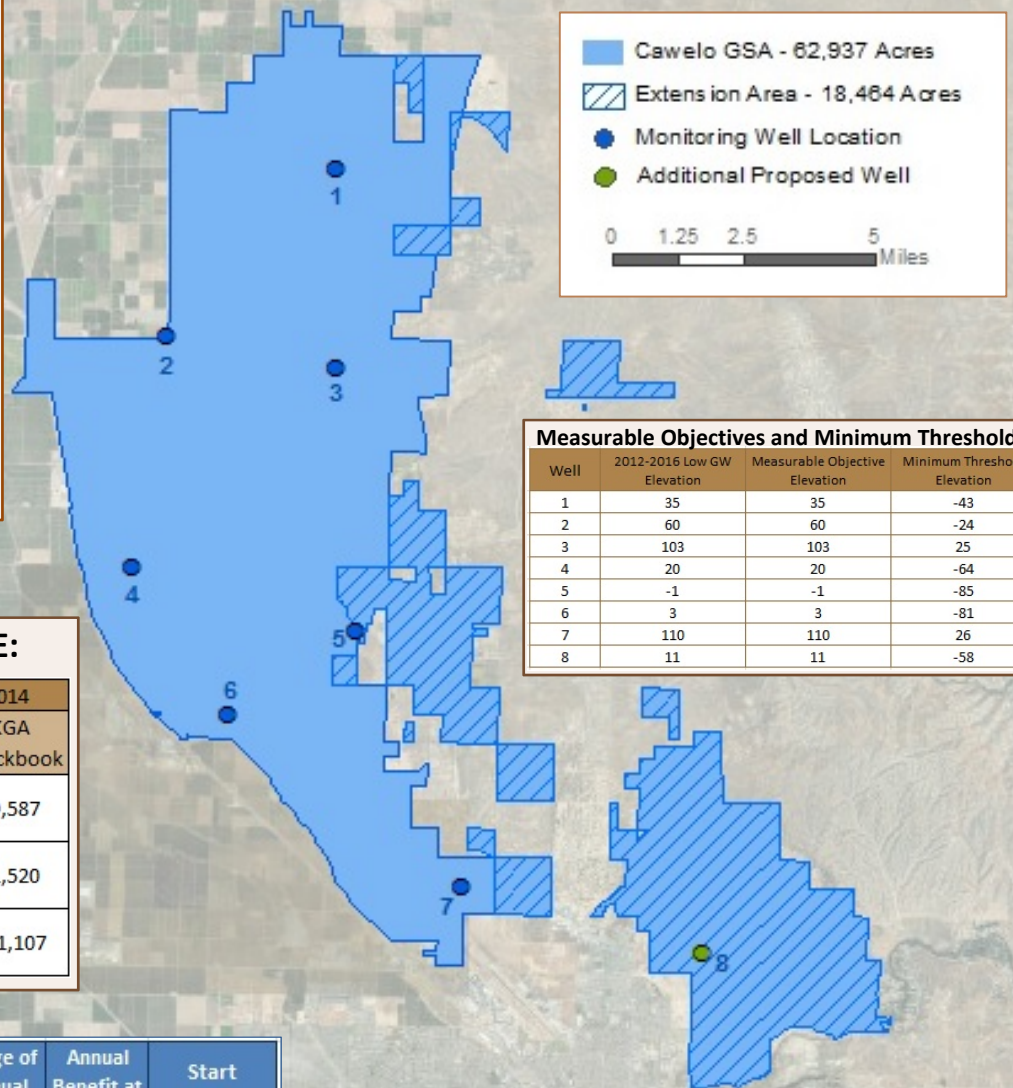
## KGA Chapter, August 28, 2019

### SUSTAINABILITY GOAL:

Support current and future beneficial uses of groundwater including agricultural, industrial, public supply, domestic, and environmental

Optimize conjunctive use of surface water, imported water, and groundwater

Avoid or eliminate undesirable results throughout the planning horizon.



Well	2012-2016 Low GW Elevation	Measurable Objective Elevation	Minimum Threshold Elevation
1	35	35	-43
2	60	60	-24
3	103	103	25
4	20	20	-64
5	-1	-1	-85
6	3	3	-81
7	110	110	26
8	11	11	-58

### GROUNDWATER BALANCE:

(AF/Year)	Historical Period, 1995-2014		
	GSP Checkbook	C2VSim Model	KGA Checkbook
Ave. Change, GW Storage	-10,441	-9,676	-9,587
Banking/Export Obligation	-1,520	-1,520	-1,520
Adjusted Total	-11,961	-11,196	-11,107

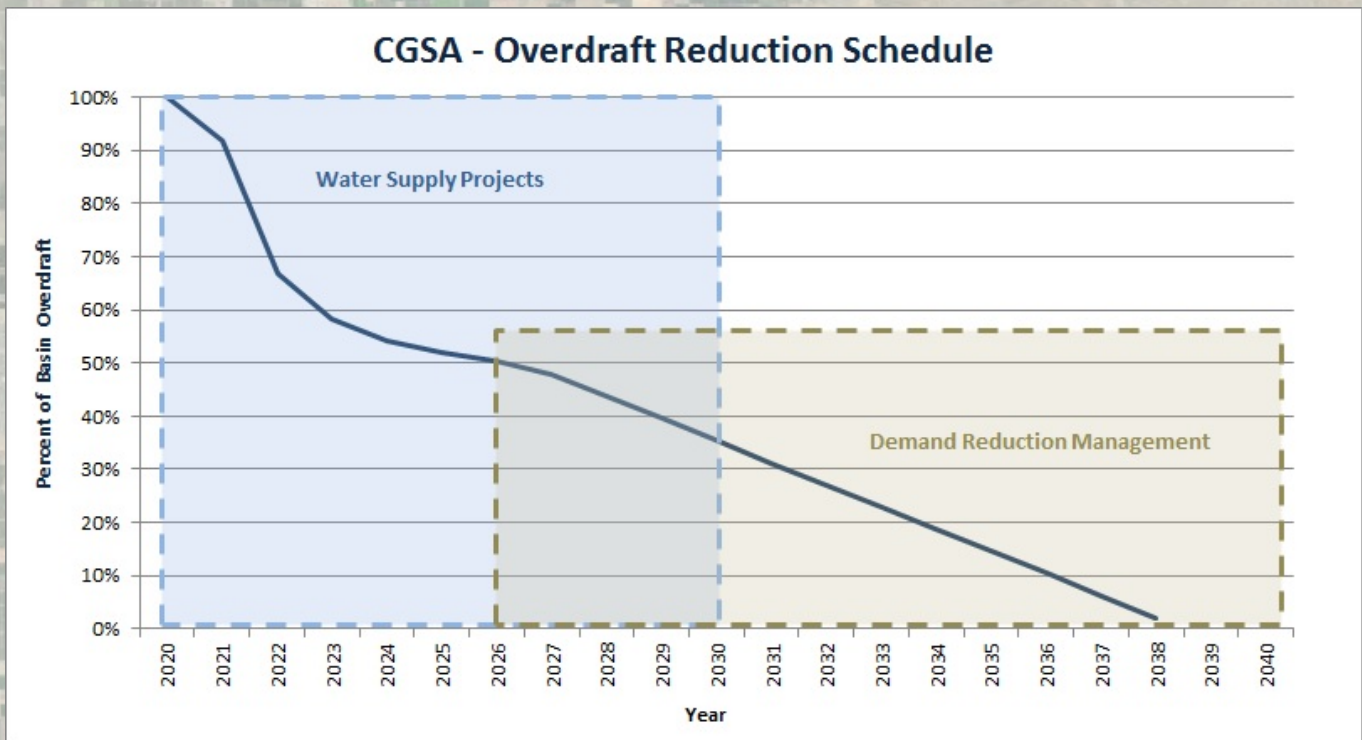
Supply Projects (AF/Year)	Project Type	Range of Annual Benefit	Annual Benefit at 2040	Start Date	
P1	New Water Supply Purchases	SW & Banking	5,000 to 23,000	5,800	2020
P2	Increase Recharge and Banking Capacity	Banking	500 to 1,500	400	Complete by 2030
P3	New Cawelo GSA Banking Partners	Banking	500	100	2020
P4	Water Treatment Facilities	SW & Banking	7,500 to 20,000	15,000	2020
P5	Friant Pipeline Project	SW & Banking	1,500 to 2,500	500	2019
P6	Poso Creek Flood Water Capture	SW & Banking	150	30	Potential 2030 Completion
P7	Surface Water Storage	Increased Storage	500	500	Potential 2030 Completion
P8	Increased Imported Water Capacity	SW & Banking	500 to 4,000	1,250	2020
<b>TOTAL</b>				<b>23,580</b>	

### ESTIMATED PROJECTED GROUNDWATER BALANCE, NO PROJECT CASE:

(AF/Year)	Implementation Period 2021-2040	Sustainability Period 2041-2070
Baseline	-17,228	-20,171
2030 Climate	-20,758	-23,917
2070 Climate	-25,916	-28,951

Demand Reduction Mngmnt. Actions/Projects	Project Type	Range of Annual Benefit	Annual Benefit at 2040	Start Date	
MA 1	Voluntary Land Conversion	Demand Reduction	2,000	2,000	2020
MA 2	Crop Conversion and Irrigation Efficiency	Demand Reduction	>2000	3,800	2026
MA 3	Land Acquisition	Demand Reduction	2,500	2,400	2036
<b>TOTAL</b>			<b>8,200</b>		





- The methodology to develop the GSP checkbook water budget uses the guidelines provided by the BMPs
- Projects and management actions focus on increasing surface water supplies to eliminate GW overdraft in the first half of implementation period
- Evaluate success of water supply projects and implement demand reduction actions as necessary (Plan B)
- Undesirable Results are triggered when at least 30% of the CGSA monitoring wells fall below the MTs for 3 consecutive years
- Continued coordination is required with neighboring management areas, KGA, and other GSAs
- Cawelo GSA has conducted 4 workshops, participated in select KGA outreach efforts, and maintains open communication with the public