



# Management Area Plan Summary

August 28, 2019

## Sustainability Goal

In its joint Management Area Plan (MAP) with the Shafter Wasco ID (SWID)(and the cities of Shafter and Wasco) North Kern has adopted the broadly defined “basin” Sustainability Goal. Additionally, consistent with the purposes described in its 1950 Project Report, the District’s continued primary objective is to maintain groundwater conditions to support overlying economically-viable agricultural and non-agricultural activities. Implementation of the District’s Project, which is primarily focused on the importation of Kern River water accruing to pre-1914 rights, has resulted in a positive long-term water balance/budget. Nevertheless, groundwater levels underlying the District have generally deteriorated, and North Kern looks forward to working jointly with our neighbors in the basin (as we have with SWID for preparation of the MAP) to achieve long-term sustainable groundwater conditions.

## Proposed Projects & Management Actions

Project	Status	Water Savings or Supply Increase (AFY)
Calloway Canal Improvements	Ongoing	1,650
Expanded Water Banking	Ongoing	5,000
Conveyance Improvements to Recharge and Recovery	Initiated	4,000
Beneficial Reuse of Oilfield Produced Water	Ongoing	11,000
Expanded Recharge for Rosedale Ranch ID (RRID)	Conceptual	6,000
<b>Estimated Total Supply Increase</b>		<b>27,650</b>

Management Action	Status	Demand Decrease (AFY)
Land Conversion to Recharge	Planning	1,500
Ag to Urban Land Conversion	Planning	15,000
Urban Water Conservation Program	Planning	1,350
Detachment of Urban RRID Lands*	Conceptual	3,000
<b>Estimated Total Demand Decrease</b>		<b>20,850</b>
* Detachment of land in RRID Mgmt Area after land is rezoned for urban use and a tract map is approved.		

## Water Supply Accounting “Baseline” Checkbook (w/o projects)

	"Current" Conditions	2030 Conditions	2070 Conditions
Irrigated Area (acres)	51,400	49,300	47,500
<b>INFLOWS (Avg AFY):</b>			
TOTAL INFLOW	188,100	186,800	183,500
<b>OUTFLOWS (Avg AFY):</b>			
Irrigated Area ET	155,600	155,200	155,300
Evaporation (from Canals and Spreading Ponds)	3,200	3,200	3,200
M&I Pumping (cities of Shafter and Wasco)	2,100	4,500	9,800
TOTAL OUTFLOW	160,900	162,900	168,300
<b>"NATIVE YIELD":</b>			
@ 0 af/ac	0	0	0
@ 0.15 af/ac	9,000	9,000	9,000
@ 0.30 af/ac	18,000	18,000	18,000
<b>IMPLIED CHANGE IN GROUNDWATER STORAGE (Avg AFY):</b>			
Without Native Yield	27,200	23,900	15,200
Native Yield = 0.15 af/ac	36,200	32,900	24,200
Native Yield = 0.30 af/ac	45,200	41,900	33,200

## Measurable Objectives and Minimum Thresholds

The North Kern-SWID MAP uses measurable objectives and minimum thresholds consistent with four other northern Kern County districts with similar geologic conditions.

