



Merced Subbasin GSA
Joint Technical and Advisory Committee Meeting
March 20, 2019



Water Allocation Framework Update

Image courtesy: Veronica Adrover/UC Merced

Water Allocation Update

- Water Allocation Framework discussed at Coordination Committee's last four meetings
- Updated Water Budget Technical Memorandum
- Four Step Framework
- Hydrologic period of 2006-2015 selected for GSP historical water budget
 - Appropriative use determined within this period
 - 92.5% Overlying and 7.5% Appropriative
- Federal lands
 - Federal land use assumed to be fixed 10,000AFY
 - Allocated proportional to federal land in each GSA

Merced GSP Allocation Methodology under Discussion

1. Determine **Sustainable Yield** of the Basin
2. Subtract groundwater originating from **Developed Supply** (seepage of developed/imported surface water) to obtain sustainable yield of native groundwater
3. Allocate Remaining Sustainable Yield to **Overlying Users** and **Appropriative Users** based on their proportional historical use
 - a) Decide on historical period to use for determining proportional use
 - b) Appropriative and Overlying Use allocated based on relative percent of historical use
 - a) Appropriators allocated based on fraction of historical use among appropriators
 - b) Overlying users allocated based on acres (allocation per acres) – need to determine allocation method for historically unirrigated acres
4. GSAs can modify implementation and allocation within GSA, but framework establishes basis for basin-wide management



Merced Subbasin GSA Project List

Merced Subbasin GSA Project List (1)

Project Name	Source of Information (e.g. GSA call, plan)	Description	Acres served	GSAs to benefit from	Phase of Completion
Le Grand Athlone and Plainsburg Irrigation District					
Super Connect	Nic Marchini Plainsburg ID	Construct a 25 mile long, 1,600 CFS, Canal from Lake McSwain to south of Legrand. Connect to Mariposa,	75,000	MSGSA	planning/initial study
Marguerite Water Retention Facility	Brad Robson Le Grand Athlone Water District	Up to 13,000 Acre Feet off-site storage for possible early season MID water, flood control, migratory	NA	MSGSA	planning/initial study
Go Big Super-Connect Conveyance Project	Brad Robson Le Grand Athlone Water District	This project solves the Merced Subbasin overdraft problem. It is a ~1000 CFS conveyance project	75000	MSGSA	planning/initial study
Fairfield Canal/ El Nido Superhighway	2018 IRWMP	This project will consist of flood flow capacity improvements and canal automation which is essential for	52000	MIUGSA, MSGSA	conceptual
Le Grand-Athlone WD Surface Water Extension	2018 IRWMP	Build conveyance infrastructure from MID's booster 3 or another facility southeast, eventually connecting to	NA	MSGSA	conceptual
Study for Potential Water System Intertie Facilities from Merced I.D. to LeGrand-Athlone W.D. and Chowchilla W.D.	2018 IRWMP	Merced Irrigation District (MID), LeGrand-Athelone Water District (LGAWD) and Chowchilla Water District	NA	MSGSA, MIUGSA	conceptual
Mini-Big Conveyance Project	Brad Robson Le Grand Athlone Water District	This project supersedes the GO-BIG super connect project. LAWD is currently working with Dr. Charles Burt,	15000	MSGSA	planning/initial study & conceptual design

Merced Subbasin GSA Project List (2)

Project Name	Source of Information (e.g. GSA call, plan)	Description	Acres served	GSA's to benefit from	Phase of Completion
Stevinson Water District and Merquin County Water District					
Brasil Recharge Project	Bob Kelley, Merced Subbasin GSA/Stevinson Water District	Project would consist of pumping station and conveyance piping 8500' from existing canal to upgradient lands	395	MSGSA	conceptual design
Merquin County Water District Recharge Basin	2018 IRWMP	The Merquin County Water District (MCWD) recharge basin would be constructed in the northeastern portion	NA	MSGSA	planning, more detail in PIF
Lone Tree Mutual Water Company and Sandy Mush Mutual Water Company					
Merced I.D. to Lone Tree MWC conveyance canal	George Park, Lone Tree MWC	Lone Tree MWC is seeking to establish a new 2.25 mile long canal connection from an existing Merced I.D. canal to an	1020	MSGSA	planning/initial study
Vander Woude Dairy Offstream Temporary Storage	Brad Samuelson Sandy Mush MWC	Our plan is to take a field out of production and build a reservoir on that site. It will be approximately 2 feet below	NA	MSGSA	Design Complete
County of Merced and GSA-wide					
Black Rascal Creek Flood Control Bypass/ Supplemental Groundwater Supply Improvements	2018 IRWMP	This project proposes a set of gates in MID's Le Grand Canal to replace the breach which is installed annually,	NA	MIUGSA, MSGSA	planning, more detailed info info PIF
Black Rascal Creek Flood Control Project	2018 IRWMP	Construction of a regulating reservoir on the Black Rascal Creek Watershed. Project location is immediately north of	NA	MIUGSA, MSGSA	design, more detailed info in PIF
Merced Groundwater Subbasin LIDAR	2018 IRWMP	This project consists of LIDAR data of the Merced Groundwater Subbasin. This data will be used in conjunction	NA	MIUGSA, MSGSA, TIWD	conceptual
Merced IRWM Region Climate Change Modeling	2018 IRWMP	This project will link the existing Merced River PRMS model, developed by the USGS, with the WEAP system model to	NA	MIUGSA, MSGSA, TIWD	conceptual
Merced Region Water Use Efficiency Program	2018 IRWMP	The Merced Region Water Use Efficiency Program will be implemented by multiple water purveyors in the	NA	MIUGSA, MSGSA, TIWD	design, more detail in PIF



Merced Basin Water Budget Technical Memo



Upcoming GSA Meeting Topics

March 22, 2019 GSA Board Meeting Agenda Items

- **ELECTION OF OFFICERS**

Action to elect a Chair, Vice Chair and Secretary for a two year term ending March 2021.

- **COMMITTEE APPOINTMENTS**

Action to appoint Board Members to fill vacant committee positions on the Coordination Committee.

- **BROWN ACT OVERVIEW**

Informational presentation by GSA attorney Jeanne Zolezzi on the Brown Act. No action required.

- **PROPOSITION 218 PROGRESS**

Action to direct staff and consultants to move forward with the outreach mailings and public workshops based on the preferred alternative and return to the Board in June with the fee study report and to set the public hearing



Next Meeting
