

Table 5-1. Proposed List of Projects and Management Actions - Yolo Subbasin (basinwide)

MA Number	MA Name	Summary Description	Relevant Sustainability Indicators Affected				Circumstance for Implementation	Public Noticing Process	Permitting and Regulatory Process Requirements	Implementing YSGA Member Agency	Status	Timetable / Circumstances for Initiation	Timetable for Completion	Timetable for Accrual of Expected Benefits	Expected Benefits				Source(s) of Water, if Applicable	Legal Authority Required	Disadvantaged Community?	Management Area	Estimated Costs		
			Groundwater Levels and Storage	Groundwater Quality	Land Subsidence	SW & GW Interconnection									Water Supply Augmentation	Water Demand Reduction	Water Quality Improvement	Water Management Flexibility / Efficiency					One-time Costs	Ongoing Costs (per year)	Potential Funding Source(s)
Example 1	Enhanced Groundwater Recharge	Development of surface and subsurface recharge projects underlying developed agricultural lands to increase groundwater recharge capacity	•				Upon adoption of Yolo GSP	Yolo GSA Board Meetings & Website	Site specific (CEQA)	YSGA	Ongoing	2020	2040	During above average water allocation years	•				District authorities			TBD	\$25,000	District	
Example 2	Cache Creek MAR	Development of managed aquifer recharge program from Cache Creek	•				Upon completion of feasibility study	Yolo GSA Board Meetings & Website	CEQA	YSGA	Undergoing pre-feasibility study	2020	2028	1,200 average annual acre-feet				Cache Creek	District authorities			TBD	TBD	District	
MA 1	Continued and Improved Groundwater Monitoring Program	Efforts to aggregate these monitoring programs exist within the Yolo Subbasin. Efforts to aggregate these monitoring programs include the Yolo County Water Resources Information Database (WRID) and DWR's Water Data Library. The WRID also receives well water level data from the cooperating agencies, monitoring about 550 wells distributed Countywide semi-annually. Most groundwater level data received or collected in the WRID is submitted to the State's Water Data Library. Existing programs monitor both water quality and water levels. Continuing to monitor groundwater conditions in the Yolo Subbasin is a critical component of a sustainable future. Improvements can be made to the current program by expanding monitoring efforts into areas with no monitoring programs.	•	•	•	•	Ongoing	YSGA Board Meetings & Website	N/A	YSGA, Member Agencies	Ongoing	Ongoing	Continuous	2022	N/A	N/A		N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD	
MA 2	Continue coordination efforts with other management and monitoring entities	Coordination efforts are ongoing related to groundwater management and monitoring in the Yolo Subbasin. Continuing these coordination efforts will yield better information and allow for a collaborative and conjunctive decision-making process.	•	•	•	•	Ongoing	YSGA Board Meetings & Website		YSGA, Member Agencies	Ongoing	Ongoing	Continuous	2022	N/A	N/A		N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD	
MA 3	Subsidence Monitoring Program	Continue to investigate subsidence and causes of subsidence in the Yolo Subbasin.			•		Ongoing	YSGA Board Meetings & Website		YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Ongoing	N/A	N/A					Yolo Subbasin	TBD	TBD	TBD	
MA 4	Preparedness through Increased Groundwater Recharge and Managed Aquifer Recharge Projects	This project encompasses all efforts to increase groundwater recharge in the Yolo Subbasin. This includes diversion of winter flows for groundwater recharge, increased groundwater infiltration from precipitation, aquifer storage and recovery projects, for example. Increased groundwater recharge efforts and winter diversions may result in creational of seasonal wetlands in some scenarios. YCFWCWD proposes to divert winter flows from Cache Creek into the canal system to increase groundwater recharge. Groundwater recharge and recovery is central to good conjunctive management of surface and groundwater resources. Currently, by YCFWCWD policy, 160 miles of surface water canals remain unlined, providing summertime groundwater recharge services that benefit the aquifer and riparian habitat. The recharged groundwater is used by beneficial users in the Subbasin.	•				Ongoing	YSGA Board Meetings & Website		YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Ongoing	•	N/A		•	Project Dependent	Project Dependent	Yes	Yolo Subbasin	TBD	TBD	TBD
MA 5	Conjunctive Water Use Program	This conjunctive water use project envisions using a variety of methods (recharge/recovery, off-stream storage and canal system modernization) to effectively store and conjunctively use groundwater in the District's service area. The new water that will be developed can be used to the benefit of agriculture, environmental and municipal interests. A significant amount of work has already been completed on this project including establishment of a groundwater monitoring program	•				Ongoing	YSGA Board Meetings & Website		YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Ongoing	N/A	•		•	Project Dependent	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
MA 6	Increased outreach and information sharing of groundwater resources and knowledge within the Yolo Subbasin.	Information sharing, collaboration, and communication will be an important part of groundwater sustainability in the Yolo Subbasin. This project will convey information, best practices, funding opportunities, data, and observations to as wide a group as possible. This project relates to the Communication and Engagement Plan that the YSGA has been created for the Yolo Subbasin.	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meeting & Website		YSGA, Member Agencies	Ongoing	2022-2027	Continuous	Continuous	N/A	N/A		•	N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
MA 7	Domestic Well Impact Mitigation Program	The YSGA is working to create a domestic well impact mitigation program to mitigate any potential impacts to domestic well users. This program will identify potential funding sources for both temporary and permanent domestic water solutions in cases where domestic well users are impacted due to changing groundwater conditions as a result of groundwater management actions. The minimum thresholds and measurable objectives established in this document are generally protective of domestic well users in the Yolo Subbasin. The Domestic Well Impact Mitigation Program will provide resources and information in cases where management actions result in impacts to domestic well users.					Upon adoption of Yolo GSP	YSGA Board Meeting & Website		YSGA, Member Agencies		2022-2027	2027	Drought period following project implementation	N/A	N/A			N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
MA 8	Surface Water Monitoring Program	There is no coordinated Countywide surface water monitoring program at present. However, on-going monitoring programs are in-place on various waterways, and a large number of smaller temporary investigations have occurred over the years. These individual surface water monitoring efforts need to be consolidated to improve the value of the data for implementation of actions identified in this GSP.	•	•	•	•	Ongoing	YSGA Board Meetings & Website		YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Continuous	N/A	N/A			N/A	N/A	No	Yolo Subbasin	TBD	TBD	TBD
MA 9	Management Consideration of Grey Areas in the Yolo Subbasin	During the formation of the GSA for the Yolo Subbasin, the eligible entities were identified based on SGMA's definition. Irrigated areas outside of water or irrigation district service areas were known as "white areas" since they did not have an eligible entity (other than the County) to form or become a GSA. The YSGA was formed in June 2017, with Yolo County serving as a member of the JPA to cover these "white areas". The YSGA now has the authority and responsibility for this area; however, there is still no formal mechanism for receiving revenues for SGMA implementation, which has made these areas slightly complicated, or now known as "grey areas". There is a desire for the YSGA to work closely with landowners in these "grey areas" to assess the best solution for implementing the GSP and ensuring future sustainability. Ideas for these areas include, annexing the property into an existing irrigation or reclamation district (maybe as an "Area B" or an Improvement District); creating or forming a new water district; or simply implementing a county-wide assessment for all properties in the Yolo Subbasin.	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meeting & Website		YSGA	Not yet started	Upon adoption of the Yolo GSP	Continuous	Continuous	N/A	N/A			N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
MA 10	Coordination Efforts with Land Use Planning Entities	The YSGA and member entities will work on an as-needed basis with Yolo County and municipalities within the Yolo Subbasin to promote the sustainable use and protection of groundwater resources including GDEs and interconnected surface water bodies. These coordination efforts will include inputs to general plan updates in the future.	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meetings & Website		YSGA, Member Agencies	Not yet started	Upon adoption of the Yolo GSP	Continuous	Continuous	N/A	N/A			N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
P 1	Identification of Locations Vulnerable to Damage from Subsidence - Catalog of Infrastructure Damage Reports	Improves the ability to define and quantify the sustainable management criteria for subsidence.			•		Upon completion of feasibility analysis.	YSGA Board Meetings & Website	N/A	YSGA, Member Agencies	Not yet started	2022	2027	Immediately following project completion	N/A	N/A			N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD

P 2	Groundwater Model Enhancement Program/YSGA Model Improvements	To better understand groundwater conditions in the Yolo Subbasin, the YSGA model can be used. This project would continue working with the YSGA model to calibrate and refine model inputs, outputs, and parameterization. Improved data on evapotranspiration could be utilized in enhancing the total water balance in the Subbasin. This project would include: incorporating improved land use datasets for future scenarios and revising "managed wetlands" classifications in the current YSGA model. Additionally, there are other existing models with finer scale, specifically in the Capay Valley that might be useful to calibrate and parameterize the YSGA model. This will be a continuous project, and updates to the model can be made when improved input datasets are made available or created.	•	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meetings & Website	N/A	YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Immediately following project completion	N/A	N/A	N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD	
P 3	Water Resources Information Database Project	This project would include updates to the existing WRID system, and potential additional projects related to data storage and sharing. This project would improve the hosting, visualization, and storage of data related to the YSGA and the Yolo GSP.	•	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meetings & Website	N/A	YSGA, Member Agencies	Ongoing	Ongoing	Continuous	Continuous	N/A	N/A	N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD	
P 4	Topographic Mapping (LIDAR Project)	Improving topographic mapping of the Yolo Subbasin, including surface water bodies			•	•	•	Upon adoption of Yolo GSP	YSGA Board Meetings & Website		YSGA	Not yet started	Upon adoption of the Yolo GSP	TBD	Immediately following project completion	N/A	N/A	N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	SGA/Yolo Count	
P 5	Additional monitoring wells along ephemeral streams, interconnected surface water bodies, and near GDEs.	Additional monitoring wells along ephemeral streams in the subbasin may improve our understanding of surface water/groundwater of ephemeral streams in the subbasin.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YSGA, Member Agencies	Not yet started	2022-2027	Continuous	Immediately following project completion	N/A	N/A	N/A	N/A	No	Yolo Subbasin	TBD	TBD	TBD	
P 6	Vegetative and aquatic surveys in related to groundwater dependent ecosystems	This project would improve the ecological inventory of GDEs in the Yolo Subbasin						Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YSGA, Member Agencies	Not yet started	2022-2027	Continuous	Immediately following project completion	N/A	N/A	N/A	N/A	No	Yolo Subbasin	TBD	TBD	TBD	
P 7	AEM Flights to improve subsurface geology data	Airborne Electromagnetic (AEM) surveys can provide useful information about subsurface geology. This data could potentially be utilized to better understand aquifer conditions in the Yolo Subbasin. The YSGA is proposing partnering with DWR to implement AEM surveys in areas where the data obtained will be particularly useful. From DWR's AEM Survey datasheet, "During an AEM survey, a helicopter tows electronic equipment that sends signals into the ground which bounce back. The process has been compared to taking an MRI of the ground's subsurface. The data collected is used to create continuous images that are interpreted for underground geology. The resulting information will provide a standardized, statewide dataset that improves the understanding of aquifer structures. It can also help with the development or refinement of hydrogeologic conceptual models and can help identify areas for recharging groundwater."																	Yes	Yolo Subbasin	TBD	TBD	TBD		
P 8	Abandoned Well Incentive Program	Creation of an incentive program that would pay for the destruction of old, abandoned wells. There are other existing programs that are the foundation for this proposal. The objectives of this program would be to provide landowners an incentive-based, volunteer program with the intent of protecting the quality of groundwater, eliminating the safety hazard of open wells to humans and livestock, and promoting the importance of water quality within the Yolo Subbasin.			•			Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YSGA	Ongoing		Continuous	Continuous	N/A	N/A	•	N/A	N/A	Yes	Yolo Subbasin	TBD	TBD	TBD
P 9	Modernization Project: Integrated Precision Water Management	The district will modernize 16 miles of its main canal. Automatic water control gates will allow the District to operate its main system with more flexibility.	•					Ongoing	YSGA Board Meeting & Website		YCFWCWD	Ongoing						•		No	Yolo Subbasin	TBD	TBD	YCFWCWD	
P 10	Exchanges between CVP or SWP system and Cache Creek System	Surface water transfers between the CVP or SWP and the Yolo Subbasin. Potentially Sites Reservoir.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YSGA									Yes	Yolo Subbasin	TBD	TBD	TBD	
P 11	Flood Monitoring Network Project	Project installs flow monitoring stations at canals and sloughs in order to optimize conveyance capacity for both agricultural operations or during rain events, which could occur at the same time. It is not known how much flow sloughs contribute to the canal systems during rain events.	•					Ongoing	YSGA Board Meeting & Website		YCFWCWD	Ongoing	Ongoing							Yes	Yolo Subbasin	TBD	TBD	TBD	
P 12	Yolo County Drains and Sloughs - Governance and Maintenance Study	The District and County will work together to develop a governance and maintenance study that will assist in providing effective rural storm water management responsibilities based on the defined governing bodies. Plan/investigation will initiate a legitimate storm water management program in Yolo County.	•						YSGA Board Meeting & Website		Yolo County									Yes	Yolo Subbasin	\$150,000	TBD	TBD	
P 13	Zamora area winter recharge from Cache Creek via China Slough	This project would be the development of groundwater recharge capacity by utilizing China Slough and conveying water to the Zamora area. Utilizing existing YCFWCWD infrastructure would allow for water to reach China Slough, and be conveyed to the Zamora area. This project is related to another proposed project - West Adams Canal Renovation and China Slough Rehabilitation. The rehabilitation of China Slough would likely need to occur prior to any successful groundwater recharge events occurring.	•		•			Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		YCFWCWD	Not yet started	Dependent on feasibility analysis	TBD	Wet year following project completion	2,000 AF/year	N/A		Cache Creek	Yes	North Yolo	TBD	TBD	TBD	
P 14	Dunnigan Hills Winter Runoff Capture for Recharge	Runoff water in Dunnigan Hills and Hungry Hollow could be diverted into N Adams canal and sent to Yolo-Zamora for winter recharge. This project would utilize excess water in Dunnigan Hills and Hungry Hollow and send it east towards the Yolo Zamora area.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		YCFWCWD	Not yet started	Dependent on feasibility analysis	TBD	Wet year following project completion	TBD	N/A		Dunnigan Hills runoff	Yes	North Yolo	TBD	TBD	TBD	
P 15	Winter Diversions from Tehama-Colusa Canal	This project would divert excess winter water from the Tehama Colusa Canal to the Yolo-Zamora area for winter recharge.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		YCFWCWD	Not yet started	Dependent on feasibility analysis	TBD	Wet year following project completion	TBD	N/A		Tehama Colusa Canal	Yes	North Yolo	TBD	TBD	TBD	
P 16	Bird Creek surface water storage	160TAF of potential storage exists in the Bird Creek basin. Installing a dam along Bird Creek would potentially decrease North Yolo MAs reliance on groundwater. Developing a reliable surface water supply would be beneficial to users in White Areas of the Subbasin, and could be particularly beneficial to water users whose reliance on groundwater is high.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		DWD/RD 108/YSGA	Not yet started	Dependent on feasibility analysis	TBD	After completion of project	160TAF Total Storage	N/A		Bird Creek, Dunnigan Hills watershed	Yes	North Yolo	TBD	TBD	TBD	
P 17	Bird Creek, Oat Creek, Buckeye Creek . 2047 Canal groundwater recharge infrastructure improvements	This project is a proposal to improve groundwater recharge in the North Yolo MA. There are a couple options for doing this. Small weirs could be installed to increase the retention time of surface water in the Creeks. Additionally, surface water that remains in the 2047 Canal during winter could be redirected to a ditch with better percolation properties. Areas with high infiltration rates are known by local entities and operators; diversions for groundwater recharge could be directed to these areas.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		DWD/RD 108/YSGA	Not yet started	Dependent on feasibility analysis	TBD	Wet year following project completion	TBD	N/A		Bird Creek, Oat Creek, Buckeye Creek	Yes	North Yolo	TBD	TBD	TBD	
P 18	Hardwood Subdivision Recharge	CalTrans utilized a parcel on the SW side of the Hardwood Subdivision of Dunnigan to build the County Road 6 overpass of I-5. This parcel is owned by stakeholders in the Yolo Zamora area and may be suitable for recharge. The parcel is currently not utilized for agricultural production, and may be an ideal location to develop a groundwater recharge site.	•		•			Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		DWD/RD 108/YSGA	Not yet started	Dependent on feasibility analysis	TBD	After completion of project	TBD	N/A		Local runoff	Yes	North Yolo	TBD	TBD	DOT, DWR, NRCS	
P 19	Schaad Ranch/Buckeye Creek Recharge	Buckeye Creek runs through Schaad Ranch at approximately County Rd 88 where Buckeye Creek crosses it. There is a Dunnigan WD turnout nearby the stream course and several monitoring wells, including a DWR well nearby, also. 215 or other waters could be diverted into the stream course and small, temporary weirs placed or created to slow it and enable recharge.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings & Website		DWD/RD 108/YSGA	Not yet started	Dependent on feasibility analysis	TBD	After completion of project	TBD	N/A		Buckeye Creek/	Yes	North Yolo	TBD	TBD	TBD	



P 36	Upstream Flow Management to Prevent Madison Flooding and to Facilitate GW Recharge	YFCF&WCD proposes to manage high flows from Lamb Valley, Cottonwood and S. Fork Willow Sloughs using the existing canal system as well as other means such as upstream check dams. During storm events Willow Slough floods the Town of Madison. The Canal system can be used to convey water away from the Town of Madison and reduce flood levels while also managing peak flows through use of check dams, particularly in Lamb Valley Slough. This project would increase groundwater recharge during winter storm events.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website	YFCF&WCD/Madison CSD	Not yet started	TBD	TBD	Wet year following project completion	TBD	N/A	•	Lamb Valley, Cottonwood, S. Fork Willow Slough	No	Central Yolo	TBD	TBD	TBD	
P 37	Madison Farmer Field Stormwater Capture and Groundwater Recharge	Modify farmer fields around Madison, specifically those next to Highway 16 and those that will capture upstream flows. The two options considered include 1) 1,200 acres of farmer field modification for rainfall capture (8"-berm) and 2) modification of a farmer field near Cache Creek (maybe half of APN 049-060-017) for rainfall and storm water runoff capture a 3'-high storm water detention basin. This project will require farmer participation and advanced planning for field modification.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website	Madison CSD	Undergoing pre-feasibility analysis	TBD	TBD	Wet year following project completion	TBD	N/A		Runoff	No	Central Yolo	\$100,000 - \$400,000	TBD	TBD	
P 38	Sac River Water to Davis/Woodland	The Woodland-Davis Clean Water Agency will continue to use Sacramento River water when available and supplement with groundwater when needed. 40,000 AF/year. Effects of this project are being studied.	•					Ongoing	YSGA Board Meetings and Website	City of Davis, City of Woodland	Implemented	Effects being studied	Ongoing	Ongoing	40,000 AF/year	N/A		Sac River	Yes	Central Yolo	TBD	TBD	TBD	
P 39	YFCF&WCD Winter Recharge	Increase winter recharge by utilizing YFCF&WCD sloughs and canals.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website	YFCF&WCD	Ongoing	Ongoing	Ongoing	Wet year following project completion	0-30,000 AF/year	N/A	•	Cache Creek System	Yes	Central Yolo	\$3,000,000	TBD	YFCF&WCD	
P 40	RD 2035 - Groundwater Studies	Reclamation District 2035's Ground Studies Project will consist of the identification and analysis of issues, if any, surrounding the quality and availability of groundwater.	•	•	•	•		Upon adoption of Yolo GSP	YSGA Board Meetings and Website	RD 2035	Ongoing	Ongoing	Ongoing	Immediately after completion	N/A	N/A		N/A	N/A	No	Central Yolo	TBD	TBD	TBD
P 41	RD 2035 - Floodway Corridor Project	The project consists of piping (or lining) the Cross Bypass Canal and the installation of flow control and measurement devices to improve the conveyance system and increase water use efficiency.	•					Upon adoption of Yolo GSP	YSGA Board Meetings and Website	RD 2035	Not yet started	Upon adoption of Yolo GSP	TBD	Immediately after completion	N/A	N/A		N/A	N/A	No	Central Yolo	TBD	TBD	TBD
P 42	RD 2035 - Conjunctive Use Study	The project consists of the study and analysis of the coordinated use of surface and groundwater that could benefit the agricultural, urban, and environmental interests within, nearby and downstream of Yolo County, especially the North Delta region.	•					Upon adoption of Yolo GSP	YSGA Board Meetings and Website	RD 2035	Not yet started	Upon adoption of Yolo GSP	TBD	Immediately after completion	N/A	N/A		N/A	N/A	No	Central Yolo	TBD	TBD	TBD
P 43	Water Hexavalent Chromium (Cr6) Compliance Project	City of Winters Hexavalent Chromium related projects to improve water quality.	•					Ongoing	YSGA Board Meetings and Website	City of Winters	Ongoing	Ongoing	Ongoing	Ongoing	N/A	N/A	•	Groundwater, Putah Creek	No	Central Yolo	\$6 - 8,000,000	TBD	TBD	
P 44	City of Woodland - Well 31 ASR Project	The project involves the design and construction of a new municipal aquifer storage and recovery (ASR) well #31 near the site of the existing Well #6. The new ASR well will facilitate groundwater recharge by injecting treated surface water into the gravel layer approximately 500 feet below the surface when surplus Sacramento River water is available during winter months.	•					Ongoing	YSGA Board Meetings and Website	City of Woodland	Ongoing	Ongoing	Ongoing	Ongoing	2,000 gpm during injection	N/A		Treated surface water	Yes	Central Yolo	\$6,250,000	TBD	TBD	
P 45	City of Davis Leak Detection Survey	Prioritize leaks based on severity. Purchase leak detection equipment to install within distribution system to continuously monitor for potential leaks at key areas identified through the leak detection survey.	•	•				Ongoing	YSGA Board Meetings and Website	City of Davis	Options Being Explored	Ongoing	Ongoing	Ongoing	N/A	N/A	•	N/A	Yes	Central Yolo	\$150,000	TBD	TBD	
P 46	Woodland Recycled Water Utility Expansion Project (Phase III)	The City of Woodland currently has tertiary treated Title 22 effluent from the City's Water Pollution Control Facility (WPCF) providing a firm capacity of approximately 2,700 gpm for recycled water. Woodland has an existing recycled water utility serving 2 City parks and a large industrial user in the industrial area northwest of the Water Pollution Control Facility (WPCF). The City has planned for an expansion of the recycled water utility into the Sports Park Area of the City and also to serve the planned SP1B and SP1C areas in the City's General Plan.	•	•				Ongoing	YSGA Board Meetings and Website	City of Woodland	Ongoing	Ongoing	Ongoing	Ongoing	70 acre-feet/year	N/A		WPCF effluent	Yes	Central Yolo	\$925,000	TBD	TBD	
P 47	City of Davis -Recycled Water Pump Station	With the completion of secondary and tertiary improvements, the City's Wastewater Treatment Plant is now capable of producing tertiary disinfected effluent that meets the requirements of Title 22 of the California Code of Regulations for recycled water. However, a final component of these upgrades is a means of delivering the recycled water produced at the WWTP to potential future customers. New infrastructure is necessary to convey recycled water from the WWTP to potential	•	•				Ongoing	YSGA Board Meetings and Website	City of Davis	Construction planned for Fall 2021 or early 2022	2022	2022	2023 - future	TBD	TBD	•	City of Davis Wastewater Treatment Plant	Yes	Central Yolo	\$1,800,000	TBD	TBD	
P 48	UC Davis Arboretum Waterway Wetland Restoration and Enhancement	UC Davis is proposing to enhance the Arboretum Waterway, which captures stormwater discharge from 900 acres of the UC Davis campus, by establishing a wetland area to treat stormwater discharge and recycled water prior to discharge to Putah Creek.	•					Ongoing	YSGA Board Meetings and Website	UC Davis	Ongoing	Ongoing	Ongoing	Ongoing	N/A	N/A	•	Stormwater Discharge	Yes	Central Yolo	\$4,000,000	TBD	TBD	
P 49	City of Woodland - North Regional Pond and Pump Station	The project involves the design and construction of an approximate 75 acre sedimentation pond and a pump station able to eventually accommodate a 120-cfs design flow. Project re-purposes an existing City evaporation pond that is no longer in use for any purpose.	•						YSGA Board Meetings and Website	Woodland	Completed	Completed	2022	Wet season after completion	N/A	N/A		South Canal and Gibson Channel	Yes	Central Yolo	\$8,000,000	\$100,000	Funding secured	
P 50	City of Davis -Site Survey for Hardscape Conversion to Pervious Pavement	Survey public parking lots that currently have impervious surfacing to assess the practicality of converting these locations to pervious pavement when they are in need of resurfacing, maintenance or redesign. Portions of the pathways near the sites could potentially highlight permeable pavers in addition to the parking lots. Projects could be planned with improvements to incorporate bioswales, low water use plants, and other low-impact design measures into any landscape changes.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website	Davis	Not yet started	TBD	TBD	Immediately after completion	TBD	N/A		Precipitation	Yes	Central Yolo	\$40,000	\$0	City of Davis	
P 51	City of Davis - West Area Pond Redesign	Redesign the West Area Pond (detention basin) to utilize agricultural summer flows to enhance aquatic wildlife habitat and improve water quality. This proposal involves redirecting existing agricultural runoff through the Stonegate drainage pond and pumping it into the West Area Pond. This would enhance aquatic habitat while improving any water discharges through retention, enhancing opportunities for infiltration, transpiration and evaporation.	•					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website	Davis	Not yet started	TBD	TBD	Immediately after completion	TBD	N/A		Precipitation	Yes	Central Yolo	\$100,000	TBD	TBD	
P 52	Improved hydrologic flows, increased runoff retention, and improved watershed health in the Capay Valley	These projects would improve groundwater levels, groundwater quality, and SW/GW interaction in the Capay Valley Management Area. In the Capay Valley MA, this would include the creation of demonstration sites for capturing hillside run-off, process based restoration in selected tributaries of Cache Creek, and improvement of overall watershed health to improve overall groundwater conditions.	•	•				Upon adoption of Yolo GSP	YSGA Board Meeting & Website	TBD	Capay Valley Vision	Not yet started	Upon adoption of GSP	End 2022	2022-2040	Up to 50% increase in precip retention	N/A	•	Cache Creek/Precipitation	No	Capay Valley	\$25,000 - \$50,000, \$50,000/mile on tributaries	TBD	NRCS EQIP funds, CalFire
P 53	Enhanced water infiltration via grazing management and crop production practices in the Capay Valley	For every 1% increase in soil organic matter, water holding capacity can increase by 20,000 gallons per acre. Some crop production practices are known to improve water infiltration and waterholding capacity. Pilot projects, scaling, and community adoption are all components of these projects.	•					Upon adoption of Yolo GSP	YSGA Board Meeting & Website	TBD	Capay Valley Regeneration	Not yet started	2022	2026-2040	2027-2040	20,000 gallons/acre	TBD	•	Precipitation	No	Capay Valley	TBD	TBD	CA Healthy Soils funding
P 54	Oak woodland, riparian, and chaparral restoration in the Capay Valley	Develop a restoration plan and demonstration sites. Then scale-up the demonstration sites to other areas in the Capay Valley MA. Improving the health of oak woodlands, riparian areas, and chaparral can improve the hydrological and ecological function of these areas.	•					Upon adoption of Yolo GSP	YSGA Board Meeting & Website	TBD	Capay Valley Vision with Cache Creek Conservancy	Not yet started	2022	2027-2040	2028-2040	TBD	N/A	•	N/A	No	Capay Valley	TBD	TBD	TBD

P 55	Establish an equipment and knowledge hub in the Capay Valley	A one-stop-service Equipment and Knowledge Hub will be established to make available services and equipment that support the projects described above and their application into perpetuity. Services and equipment will be tailored to the needs of livestock managers, crop producers and habitat restorationists. The aim will be to make available the knowledge and tools that are not readily available as yet and are necessary for farmers/ranchers/others to adopt practices for improving groundwater management.	•	•	•	•	Upon adoption of Yolo GSP	YSGA Board Meeting & Website	N/A	Capay Valley Regeneration	Not yet started	Upon adoption of GSP	Ongoing	Ongoing	TBD	N/A	•	•	N/A	N/A	No	Capay Valley	TBD	TBD	TBD
P 56	Rumsey and Guinda Ditch Winter Recharge	Development of groundwater recharge capacity by utilizing Rumsey and Guinda ditch and conveying water to the Capay Valley.	•				Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YCFWCWD	Not yet started	Upon completion of feasibility and permitting requirements	TBD	Wet year following project completion	2,000 AF/year	N/A			Cache Creek		No	Capay Valley	TBD	TBD	YCFWCWD
P 57	Guinda Ditch summer irrigation and pipelines from Cache Creek to other side of HWY 16	Guinda ditch could be reactivated to provide additional Cache Creek water during the irrigation season to Capay Valley	•				Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YCFWCWD	Not yet started	Upon completion of feasibility and permitting requirements	TBD	Wet year following project completion	2,000 AF/year	N/A			Cache Creek		No	Capay Valley	TBD	TBD	YCFWCWD
P 58	Yocha Dehe Wintun Nation - expansion of Surface Water Diversion	Continuation of an existing project that allows the Yocha Dehe Wintun Nation to utilize surface water resulting in in-lieu recharge of groundwater.					Upon completion of feasibility and permitting requirements	YSGA Board Meetings and Website		Yocha Dehe Wintun Nation, YCFWCWD	Undergoing pre-feasibility analysis	TBD	TBD	Irrigation season after project completion	TBD	TBD	•		Cache Creek		No	Capay Valley	TBD	TBD	TBD
P 59	Improve Subsidence data collection and analysis in the Capay Valley management area	Improve our understanding of subsidence in the Capay Valley. This can be done by installing extensometers or securing funding to better understand land subsidence in the Capay Valley.				•	Upon completion of feasibility and permitting requirements	YSGA Board Meeting & Website		YSGA	Not yet started	Upon adoption of GSP	Ongoing	Ongoing	N/A	N/A			N/A	N/A	No	Capay Valley	TBD	TBD	TBD
P 60	Incorporation of Capay IGSM into the YSGA Model	This falls under the "Updates to the YSGA Model" that is applicable to the entire subbasin. The Capay Integrated Groundwater Surface water Model was developed by WRIME in 2010, and updated by RMC in 2016. Components of this model may be incorporated into the YSGA Model to improve overall understanding of groundwater in the Capay Valley.	•			•	Upon completion of feasibility, securement of funds, and cost-benefit analysis.	YSGA Board Meeting & Website	N/A	YSGA	Not yet started	2022-2027	2027	2027-Future	N/A	N/A			N/A	N/A	No	Capay Valley	TBD	TBD	TBD
P 61	Yolo Bypass Conservation Projects	Projects that relate to changes in land use, surface water flows, and groundwater use in the Yolo Bypass.	•				Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		Yolo County									N/A		No	South Yolo	TBD	TBD	TBD
P 62	Revisions to the YSGA Model for Urban Groundwater usage in the South Yolo MA	Ensure that the water budget for the South Yolo MA accurately reflects changes in urban groundwater usage in this area moving forward.	•	•	•	•	Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		YSGA	Not Yet Started	2022	2022-2027	After project completion	N/A	N/A			N/A	N/A	No	South Yolo	TBD	TBD	TBD
P 63	Methylmercury Impacts analyses for the Yolo Bypass	Yolo County proposes to collect data and analyze changes in methyl mercury production and bioaccumulation that could result from (1) a proposed Bay Delta Conservation Plan (BDCP) project to enhance fisheries habitat in the Yolo Bypass; and (2) a Central Valley Flood Protection Plan proposal to expand the Yolo Bypass to improve flood capacity				•	Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		Yolo County	Undergoing pre-feasibility analysis	Upon completion of pre-feasibility analysis	Ongoing	After Completion of Analyses	N/A	N/A	•		N/A	N/A	No	South Yolo	\$100,000	TBD	Yolo County
P 64	Dry well groundwater recharge on California Olive Ranch									Water and Land Solutions LLC/California Olive Ranch										Yes	Dunnigan Hills	TBD	TBD	TBD	
P 65	Projects to improve understanding of surface water/groundwater interaction around Oat Creek and Buckeye Creek/others in Dunnigan/North Yolo areas.	Additional streamflow monitoring and dedicated groundwater monitoring wells are proposed to better understand groundwater levels and surface water-groundwater interaction in the surface water bodies in the Dunnigan Hills area. We have information from a recent study on surface water flows in Oat Creek....	•			•	Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		YSGA	Not yet started	Upon adoption of GSP	TBD	Continuous	N/A	N/A			N/A	N/A	Yes	Dunnigan Hills	TBD	TBD	TBD
P 66	Additional groundwater monitoring wells in the Dunnigan Hills MA	There are currently very few groundwater monitoring wells in the Dunnigan Hills MA. The addition of dedicated monitoring wells will improve the understanding of groundwater in this area. Few wells in this Management Area have long periods of record, but the YSGA has identified wells and landowners that would like to be involved in the groundwater monitoring program.	•	•	•	•	Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		YSGA	Not yet started	Upon adoption of GSP	TBD	Continuous	N/A	N/A			N/A	N/A	Yes	Dunnigan Hills	TBD	TBD	TBD
P 67	O'Halloran off-stream reservoir site	A proposed off-stream reservoir that would improve surface water delivery efficiency and conjunctive use. This project would also likely be utilized to generate peak-hour electricity.	•				Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		YCFWCWD	Not yet started	Upon adoption of GSP	TBD	Wet year following project completion	N/A	N/A			Cache Creek System		Yes	Dunnigan Hills	TBD	TBD	TBD
P 68	Additional groundwater monitoring wells in the Clarksburg MA	There are currently very few groundwater monitoring wells in the Clarksburg MA. The addition of dedicated monitoring wells will improve the understanding of groundwater in this area. This monitoring network would include water quality measurements in this area. There are few wells in this area with long periods of record, but monitoring could start now. Wells and landowners have been identified with interest in improving the groundwater monitoring network program.	•	•	•	•	Upon adoption of Yolo GSP	Yolo GSA Board Meetings & Website		YSGA	Not yet started	2022	Continuous	Ongoing	N/A	N/A			N/A	N/A	No	Clarksburg	TBD	TBD	TBD
P 69	Reclamation District 999 - Elk Slough Groundwater Quality Improvement and Flood Protection Project	Elk Slough is currently closed to the fresh water of the Sacramento River and is maintained by tidal inflows from Sutter Slough. Elk Slough water quality is typically similar to that of the river; however, when salinity intrusion increases during droughts, the slough water quality declines.	•	•			Upon completion of feasibility and permitting requirements	Yolo GSA Board Meetings & Website		RD 999	Undergoing pre-feasibility analysis	Upon adoption of GSP	TBD	Following project completion	N/A	N/A	•		Elk Slough		No	Clarksburg	TBD	TBD	TBD