WOODBRIDGE IRRIGATION DISTRICT

AGRICULTURAL WATER MANAGEMENT PLAN

Prepared Pursuant to Water Code Section 10826

Woodbridge Irrigation District
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Section III: Description of Quantity of Water Uses

Agricultural Water Use

The approximately 13,000 irrigated acres within the WID boundaries receives a total of approximately 47,500 acre feet of surface water for irrigation in a normal water year. No firm data exists on all the vines and trees grown within the Woodbridge service area. However, crop reports showing acreage irrigated from the Woodbridge canal system indicate the following:

WID Crop Type by Acreage 2013-2015

YEAR	ALFALFA	PASTURE	BEANS	ORCHARD	COTTON	ANNUALS/ TOMATO	VINEYARD/ OLIVES	POND	CORN	MINIMUM RATE	MISC/ METERED	WHEAT	TOTAL
2013	**914**	**178**	**306**	**1,144**	**65**	**206**	**6,173**	**25**	**1,916**	**8**	**636**	**556**	**12,127**
2014	**801**	**115**	**40**	**1,223**	**72**	**149**	**5,715**	**21**	**2,077**	**8**	**286**	**318**	**10,825**
2015	**626**	**112**	**69**	**1,612**	**133**	**770**	**5,663**	**21**	**2,204**	**9**	**60**	**25**	**11,304**

WID Agricultural Deliveries in Acre Feet 2013-2015

2013	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
	0	0	1,853	2,726	5,465	5,811	7,951	7,524	10,077	3,743	0	0	45,150
2014	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
	0	0	280	1,232	4,509	4,810	6,504	5,957	5,500	2,580	0	0	31,372
2015	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
	0	0	578	2,919	5,063	5,431	7,301	5,680	1,800	0	0	0	28,772

Environmental Water Use

WID participates in facilitating the passage of minimum flows downstream of the Woodbridge Dam for the purposes of anadromous fish. The lower Mokelumne River supports a population of fall run Chinook salmon and steelhead trout. Both fish types are supplemented by an anadromous fish hatchery located downstream of Camanche Dam, the lowest non-passable dam on the Mokelumne River. Operations of Camanche Dam are guided by a Federal Energy Regulatory Commission (FERC) ordered settlement agreement. The FERC November 27, 1998 Order "Approving Settlement Agreement and Amending License for the East Bay Municipal Utility District's Lower Mokelumne River Project No. 2916" approved the Joint Settlement Agreement (JSA) entered into by East Bay Municipal Utility District (EBMUD), U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Game (now Fish and Wildlife or CDFW). The JSA included flow and non-flow measures, and required EBMUD, USFWS, and CDFW to develop a Water Quality and Resource Management Program (WQRMP) for FERC approval.

The goals of the JSA were to provide, to the extent feasible, habitat quality and availability in the lower Mokelumne River to maintain fishery, wildlife and riparian

resources in good condition, contribute towards the state and federal fishery restoration goals as defined in the California Salmon, Steelhead Trout and Anadromous Fisheries Program Act and the Central Valley Project Improvement Act, sustain the long-term viability of the salmon and steelhead fishery while protecting the genetic diversity of naturally producing populations in the lower Mokelumne River.

The JSA specifies minimum flow releases from Camanche Dam and expected flow below the WID Dam based on water year types. Water year types are determined based on combined storage in Camanche and Pardee reservoirs for the October through March period and based on the unimpaired runoff into Pardee Reservoir for the April through September time period. The JSA also contains an adaptive management provision related to minimum flows. The flow schedule may be changed to optimize fishery habitat and other ecosystem values so long as the total quantity of water released in any given year will not be less than the quantity of water provided by the flow requirements for that type of year.

Recreational Water Use

WID does not provide water for recreational use within WID facilities or the District boundaries.

Municipal and Industrial Use

The Woodbridge Irrigation District has contracts to supply raw, bulk water to the Cities of Lodi and Stockton. The Cities of Lodi and Stockton have contracts with WID for 6 TAF and 6.5 TAF Respectively, on an annual basis, as water is available. If the desired amount of water cannot be provided to a municipality such as in a dry year, that water may be banked for future delivery, as supply allows. The table below shows the municipal deliveries for the years 2013, 2014, and 2015. Not illustrated in the table is a 2 TAF water transfer to Contra Costa Water District in August, 2013.

WID Municipal Deliveries in Acre Feet 2013-2015

2013	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
	304	0	1,350	1,377	2,333	2,495	2,667	1,658	733	323	252	231	13,724
2014	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
	263	0	425	525	758	1,236	871	1,261	692	691	369	340	7,430
2015	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**	**Sep**	**Oct**	**Nov**	**Dec**	**Total**
	66	22	1,136	1,418	1,850	1,580	1,380	702	727	542	434	287	10,144

Groundwater Recharge Use

Seepage losses from WID's irrigation delivery systems allow for groundwater recharge to some extent. Also the District has increased in-lieu recharge by growers switching to surface water and the City of Lodi and Stockton utilizing surface water amounting to 12.5 TAF per year. The District has encouraged growers to use drip irrigation and micro sprinklers to apply water.