

Eastern San Joaquin Integrated Regional Water Management Plan

	NSJCGBA IRWMP Alternatives	Source	Source Water			Conveyance or Storage	Conveyance Capacity (cfs)	Place of Use	Recharge Type	Evap. Loss	Recharge (KAF/yr)	Demand Pattern
			Capacity (cfs)	Average Supply (KAF/yr)	Supply Pattern							
Alternative A	Projects											
	Maximum Lodi reclamation	Lodi White Slough WWTP	17.9	8.0	M&I	Pipeline from White Slough	17.9	Lodi	Urban In-lieu	0%	8.0	M&I
	Stockton Delta Water Supply Project Phase II	Delta	77.4	33.3	Jan-Dec	DWSP Pipeline	77.4	Stockton	Urban In-lieu	0%	33.3	M&I
	Farmington Program Phase 2	Stanislaus/Littlejohns	53.4	4.0	Nov-Feb	Pipeline and canal	53.4	SEWD/CSJWCD	Field flooding	5%	3.8	Nov-Feb
	NSJWCD Surface Water Distribution System Rehabilitation	Mokelumne	80.0	9.5	Dec-Jun	Rehabilitated NSJWCD system	80.0	NSJWCD	Ag In-lieu	10%	8.6	Mar-Oct
	MORE Water Lower Mokelumne diversion	Mokelumne	273.0	20.1	Dec-Jun	Intake/pipeline/WID canals	273.0	Saline barrier	--	--	--	Dec-Jun
	MORE Water Pardee diversion	Mokelumne (to Duck Creek)	1,000.0	67.3	Dec-Jun	Tunnel/pipeline to Duck Creek	1,000.0	--	--	--	--	--
	Regional Banking - Recharge	AmCo/CalCo/EBMUD Mokelumne rights	138.0	31.9	Jan-Dec	EBMUD Mokelumne Aqueduct	138.0	NSJWCD/SEWD	Injection/Pond Recovery	10%	28.7 (15.9)	Year-round
	Regional Banking - Extraction		(138.0)	(15.9)	Jan-Dec	In-river exchange	138.0					
	Duck Creek Reservoir					Duck Creek Reservoir (150 KAF)	400.0	NSJWCD/SEWD	Ag In-lieu	10%	60.6	Mar-Oct
	Saline barrier	Lower Mokelumne diversion				Pipeline/pump station from WID canal	51.8	West Stockton	Injection	0%	18.7	Year-round
	Management Actions											
	CSJWCD In-lieu Incentive Program	Littlejohns Ck	100.0	5.3	Mar-Oct	Existing CSJWCD conveyances		CSJWCD	Ag In-lieu	10%	4.8	Ag In-lieu
Total Alternative A			163.5						11.1	150.6		
Unit Cost (\$/AF)												
Alternative B	Projects											
	Stockton Delta Water Supply Project Phase II	Delta	77.4	33.3	Jan-Dec	DWSP Pipeline	77.4	Stockton	Urban In-lieu	0%	33.3	M&I
	NSJWCD Surface Water Distribution System Rehabilitation	Mokelumne	80.0	9.5	Dec-Jun	Rehabilitated NSJWCD system	80.0	NSJWCD	Ag In-lieu	10%	8.6	Mar-Oct
	MORE Water Pardee diversion	Mokelumne (to Duck Creek)	1,000.0	49.6	Dec-Jun	Tunnel/pipeline to Duck Creek	1,000.0	--	--	--	--	--
	Freeport Regional Water Project unused capacity	Sac Valley banking partner	155.0	74.5	Dec-Jun	EBMUD Freeport pipeline	155.0	NSJWCD/SEWD	Pond	10%	67.1	Mar-Oct
	Regional Banking - Recharge	AmCo/CalCo/EBMUD Mokelumne rights	138.0	30.0	Jan-Dec	EBMUD Mokelumne Aqueduct	138.0	NSJWCD/SEWD	Injection/Pond Recovery	10%	8.3 (52.6)	Year-round
	Regional Banking - Extraction		(276.1)	(52.6)	Jan-Dec	In-river exchange + pumped extraction	276.0					
	Duck Creek Reservoir					Duck Creek Reservoir (150 KAF)	200.0	NSJWCD/SEWD	Ag In-lieu	10%	44.7	Mar-Oct
	Saline barrier	Lower Mokelumne diversion				Pipeline from Mokelumne Aqueduct	51.8	West Stockton	Treatment/Injection	0%	18.7	Year-round
	Management Actions											
	CSJWCD In-lieu Incentive Program	Littlejohns Ck	100.0	5.3	Mar-Oct	Existing CSJWCD conveyances		CSJWCD	Ag In-lieu	10%	4.8	Ag In-lieu
	Total Alternative B			149.7						16.4	132.8	
	Unit Cost (\$/AF)											
Alternative C	Projects											
	Maximum Lodi reclamation	Lodi White Slough WWTP	17.9	8.0	M&I	Pipeline from White Slough	17.9	Lodi	Urban In-lieu	0%	8.0	M&I
	Stockton Delta Water Supply Project Phase II	Delta	77.4	33.3	Jan-Dec	DWSP Pipeline	77.4	Stockton	Urban In-lieu	0%	33.3	M&I
	NSJWCD Surface Water Distribution System Rehabilitation	Mokelumne	80.0	9.5	Dec-Jun	Rehabilitated NSJWCD system	80.0	NSJWCD	Ag In-lieu	10%	8.6	Mar-Oct
	MORE Water Lower Mokelumne diversion	Mokelumne	266.0	35.0	Dec-Jun	Intake/pipeline	266.0	NSJWCD/SEWD	Pond	10%	31.5	Dec-Jun
	Freeport Regional Water Project unused capacity	SJCo American River filing	155.0	43.4	Dec-Jun	EBMUD Freeport pipeline	155.0	NSJWCD/SEWD	Pond	10%	39.1	Mar-Oct
	Regional Banking - Recharge	AmCo/CalCo/EBMUD Mokelumne rights	138.0	31.9	Jan-Dec	EBMUD Mokelumne Aqueduct	138.0	NSJWCD/SEWD	Injection/Pond Recovery	10%	10.0 (15.9)	Year-round
	Regional Banking - Extraction		(138.0)	(15.9)	Jan-Dec	In-river exchange	138.0					
	Saline barrier	Lower Mokelumne diversion				Pipeline from Mokelumne Aqueduct	51.8	West Stockton	Injection	0%	18.7	Year-round
	Management Actions											
	CSJWCD In-lieu Incentive Program	Littlejohns Ck	100.0	5.3	Mar-Oct	Existing CSJWCD conveyances		CSJWCD	Ag In-lieu	10%	4.8	Ag In-lieu
	Total Alternative C			150.5						12.0	138.0	
	Unit Cost (\$/AF)											
Alternative D	Projects											
	Stockton Delta Water Supply Project Phase II	Delta	77.4	33.3	Jan-Dec	DWSP Pipeline	77.4	Stockton	Urban In-lieu	0%	33.3	M&I
	Farmington Program Phase 2	Stanislaus/Littlejohns	53.4	4.0	Nov-Feb	Pipeline and canal	53.4	SEWD/CSJWCD	Field flooding	5%	3.8	Nov-Feb
	NSJWCD Surface Water Distribution System Rehabilitation	Mokelumne	80.0	9.5	Dec-Jun	Rehabilitated NSJWCD system	80.0	NSJWCD	Ag In-lieu	10%	8.6	Mar-Oct
	MORE Water Lower Mokelumne diversion	Mokelumne	620.0	68.9	Dec-Jun	Intake/pipeline	620.0	NSJWCD/SEWD	Pond	10%	43.3	Dec-Jun
	South Gulch Reservoir/UFC		750.0	20.7	Nov-Apr	Upper Farmington Canal to South Gulch	750.0	SEWD/CSJWCD	Ag In-lieu	10%	18.7	Mar-Oct
	CSJ BN Intermodal ponds	Littlejohns Ck	16.6	4.0	Jan-Dec	Littlejohns Creek		CSJWCD	Pond	10%	3.6	Non-flood
	Saline barrier	Lower Mokelumne diversion				Pipeline/pump station from WID canal	51.8	West Stockton	Treatment/Injection	0%	18.7	Year-round
	Management Actions											
	CSJWCD In-lieu Incentive Program	Littlejohns Ck	100.0	5.3	Mar-Oct	Existing CSJWCD conveyances		CSJWCD	Ag In-lieu	10%	4.8	Ag In-lieu
	Additional transfers from WID, OID, SSJD	Stanislaus	50.0	15.2	Mar-Oct	Existing creeks and conveyances	50.0	SEWD/CSJWCD	Ag In-lieu	10%	13.7	Mar-Oct
	Total Alternative D			161.0						11.6	148.4	
	Unit Cost (\$/AF)											

Table 7-4 Program Alternatives A - D

