

SWP Deliveries

**WSIP 2030 Without Project**  
**1-State Water Project (SWP) Allocations**  
**Long-term Average and Average by Water Year Type**

Analysis Period	Ag Service Table A Allocation (EO May)	M&I Service Table A Allocation (EO May)	FRSA Settlement Contract Allocation (EO May)
	Long-term		
Full Simulation Period <sup>1</sup>	62%	62%	96%
<b>Water Year Types<sup>2</sup></b>			
Wet (30%)	86%	86%	100%
Above Normal (15%)	74%	74%	100%
Below Normal (21%)	60%	60%	100%
Dry (20%)	44%	44%	94%
Critical (15%)	25%	25%	83%

<sup>1</sup> Based on the 82-year simulation period  
<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**WSIP 2030 Without Project**  
**2-State Water Project (SWP) Delivery Operations**  
**Long-term Average and Average by Water Year Type**

Analysis Period	SWP Table A Delivery (w/o Art 56) (Jan-Dec, TAF)	SWP Article 56 Delivery (Jan-Dec, TAF)	SWP Article 21 Delivery (Jan-Dec, TAF)
	Long-term		
Full Simulation Period <sup>1</sup>	2,443	65	65
<b>Water Year Types<sup>2</sup></b>			
Wet (30%)	3,315	65	120
Above Normal (15%)	2,912	70	87
Below Normal (21%)	2,434	91	54
Dry (20%)	1,819	47	15
Critical (15%)	1,044	49	12

<sup>1</sup> Based on the 82-year simulation period  
<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**WSIP 2030 Without Project**  
**3-State Water Project (SWP) Contract Deliveries**  
**Long-term Average and Average by Water Year Type**

Analysis Period	Ag Service Deliveries (Jan-Dec, TAF)	M&I Service Deliveries (Jan-Dec, TAF)	Total Ag and M&I Service Deliveries (Jan-Dec, TAF)
	Long-term		
Full Simulation Period <sup>1</sup>	645	1,928	2,573
<b>Water Year Types<sup>2</sup></b>			
Wet (30%)	923	2,577	3,500
Above Normal (15%)	766	2,302	3,068
Below Normal (21%)	625	1,954	2,579
Dry (20%)	443	1,438	1,881
Critical (15%)	252	853	1,105

<sup>1</sup> Based on the 82-year simulation period  
<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**WSIP 2030 Without Project**  
**4-State Water Project (SWP) Contract Deliveries**  
**Long-term Average and Average by Water Year Type**

Analysis Period	FRSA Settlement (Jan-Dec, TAF)
Long-term	
Full Simulation Period <sup>1</sup>	946
<b>Water Year Types<sup>2</sup></b>	
Wet (30%)	975
Above Normal (15%)	983
Below Normal (21%)	980
Dry (20%)	937
Critical (15%)	817

<sup>1</sup> Based on the 82-year simulation period  
<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**WSIP 2030 Without Project**  
**5-State Water Project (SWP) Contract Deliveries**  
**Long-term Average and Average by Water Year Type**

Analysis Period	Sacramento River Hydrologic Region M&I Service (Jan-Dec, TAF)	San Joaquin River Hydrologic Region Ag Service (Jan-Dec, TAF)	San Francisco Bay Hydrologic Region M&I Service (Jan-Dec, TAF)	Central Coast Hydrologic Region M&I Service (Jan-Dec, TAF)	Tulare Lake Hydrologic Region Ag Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF)	South Lahonton Hydrologic Region M&I Service (Jan-Dec, TAF)	Ag Service (Jan-Dec, TAF)	South Coast Hydrologic Region M&I Service (Jan-Dec, TAF)	
	Long-term									
Full Simulation Period <sup>1</sup>	31	3	209	43	633	82	269	8	1,296	
<b>Water Year Types<sup>2</sup></b>										
Wet (30%)	37	5	279	60	906	115	368	11	1,720	
Above Normal (15%)	36	4	250	51	752	97	319	9	1,550	
Below Normal (21%)	33	3	214	42	614	80	267	8	1,319	
Dry (20%)	25	2	155	31	435	59	198	6	970	
Critical (15%)	15	1	89	17	248	33	115	3	583	

<sup>1</sup> Based on the 82-year simulation period  
<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

With Project deliveries and allocation to SWP would be similar to Without Project

**CVP Deliveries - Without Project (WSIP 2030)**  
 WSIP 2030 Without Project  
 1-Central Valley Project (CVP) Allocation  
 Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Allocation (EO May)	SOD Ag Service Allocation (EO May)	M&I Service Allocation (EO May)	SOD M&I Service Allocation (EO May)	Settlement Contract Allocation (EO May)	Exchange Contract Allocation (EO May)	Refuge Level 2 Contract Allocation (EO May)
Long-term							
Full Simulation Period <sup>1</sup>	47%	44%	78%	77%	98%	98%	98%
Water Year Types <sup>2</sup>							
Wet (30%)	75%	71%	91%	90%	100%	100%	100%
Above Normal (15%)	65%	57%	90%	82%	100%	100%	100%
Below Normal (21%)	44%	39%	76%	74%	100%	100%	100%
Dry (20%)	24%	23%	68%	67%	100%	100%	100%
Critical (15%)	11%	11%	60%	60%	88%	88%	88%

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 Without Project  
 2-Central Valley Project (CVP) Contract Deliveries  
 Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Deliveries (Mar-Feb, TAF)	M&I Service Deliveries (Mar-Feb, TAF)	Total Ag and M&I Service Deliveries (Mar-Feb, TAF)	Total Settlement and Exchange Deliveries (Mar-Feb, TAF)	Total Refuge Level 2 and 4 Supplies (Mar-Feb, TAF)
Long-term					
Full Simulation Period <sup>1</sup>	1,004	477	1,481	2,805	568
Water Year Types <sup>2</sup>					
Wet (30%)	1,617	491	2,108	2,800	588
Above Normal (15%)	1,300	488	1,788	2,831	584
Below Normal (21%)	898	463	1,361	2,836	585
Dry (20%)	517	469	986	2,869	572
Critical (15%)	258	468	726	2,659	485

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 Without Project  
 3-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)

Analysis Period	Total Refuge Level 2 Supplies (Mar-Feb, TAF)	Total Refuge Level 4 Sites Supplies (Mar-Feb, TAF)
Long-term		
Full Simulation Period <sup>1</sup>	433	0
Water Year Types <sup>2</sup>		
Wet (30%)	450	0
Above Normal (15%)	447	0
Below Normal (21%)	447	0
Dry (20%)	434	0
Critical (15%)	365	0

period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 Without Project  
4-Central Valley Project (CVP) Contract Deliveries  
Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region			San Joaquin River Hydrologic Region			San Francisco Bay Hydrologic Region		Tulare Lake Hydrologic Region
	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Settlement (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Exchange (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)
<b>Long-term</b>									
Full Simulation Period <sup>1</sup>	168	187	1,945	265	15	859	32	274	539
<b>Water Year Types<sup>2</sup></b>									
Wet (30%)	262	211	1,926	430	18	875	53	262	872
Above Normal (15%)	231	212	1,957	342	16	874	41	260	685
Below Normal (21%)	155	184	1,961	231	15	874	29	264	483
Dry (20%)	85	167	1,996	135	13	873	17	288	280
Critical (15%)	41	146	1,885	69	12	774	8	310	140

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 Without Project  
5-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)  
Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region		San Joaquin River Hydrologic Region		Tulare Lake Hydrologic Region	
	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)
<b>Long-term</b>						
Full Simulation Period <sup>1</sup>	158	0	263	0	12	0
<b>Water Year Types<sup>2</sup></b>						
Wet (30%)	170	0	268	0	12	0
Above Normal (15%)	166	0	268	0	12	0
Below Normal (21%)	167	0	268	0	12	0
Dry (20%)	155	0	267	0	12	0
Critical (15%)	120	0	234	0	11	0

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**CVP Deliveries - With Project**  
 WSIP 2030 With Project  
 1-Central Valley Project (CVP) Allocation  
 Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Allocation (EO May)	SOD Ag Service Allocation (EO May)	M&I Service Allocation (EO May)	SOD M&I Service Allocation (EO May)	Settlement Contract Allocation (EO May)	Exchange Contract Allocation (EO May)	Refuge Level 2 Contract Allocation (EO May)
<b>Long-term</b>							
Full Simulation Period <sup>1</sup>	48%	44%	78%	76%	98%	98%	98%
<b>Water Year Types<sup>2</sup></b>							
Wet (30%)	75%	71%	91%	89%	100%	100%	100%
Above Normal (15%)	65%	55%	91%	82%	100%	100%	100%
Below Normal (21%)	44%	37%	75%	74%	100%	100%	100%
Dry (20%)	25%	23%	68%	68%	100%	100%	100%
Critical (15%)	12%	12%	59%	59%	88%	88%	88%

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 With Project  
 2-Central Valley Project (CVP) Contract Deliveries  
 Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Deliveries (Mar-Feb, TAF)	M&I Service Deliveries (Mar-Feb, TAF)	Total Ag and M&I Service Deliveries (Mar-Feb, TAF)	Total Settlement and Exchange Deliveries (Mar-Feb, TAF)	Total Refuge Level 2 and 4 Supplies (Mar-Feb, TAF)
<b>Long-term</b>					
Full Simulation Period <sup>1</sup>	996	475	1,472	2,808	576
<b>Water Year Types<sup>2</sup></b>					
Wet (30%)	1,608	490	2,098	2,799	591
Above Normal (15%)	1,280	488	1,768	2,833	587
Below Normal (21%)	871	461	1,331	2,837	593
Dry (20%)	529	468	997	2,867	586
Critical (15%)	263	464	727	2,685	498

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 With Project  
 3-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)

Long-term Average and Average by Water Year Type

Analysis Period	Total Refuge Level 2 Supplies (Mar-Feb, TAF)	Total Refuge Level 4 Sites Supplies (Mar-Feb, TAF)
<b>Long-term</b>		
Full Simulation Period <sup>1</sup>	441	35
<b>Water Year Types<sup>2</sup></b>		
Wet (30%)	454	53
Above Normal (15%)	450	47
Below Normal (21%)	456	38
Dry (20%)	448	21
Critical (15%)	377	1

period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 With Project  
4-Central Valley Project (CVP) Contract Deliveries  
Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region			San Joaquin River Hydrologic Region			San Francisco Bay Hydrologic Region		Tulare Lake Hydrologic Region
	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Settlement (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Exchange (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)
<b>Long-term</b>									
Full Simulation Period <sup>1</sup>	168	186	1,949	263	15	859	32	274	533
<b>Water Year Types<sup>2</sup></b>									
Wet (30%)	261	210	1,925	428	18	875	53	262	865
Above Normal (15%)	231	212	1,958	335	16	875	41	260	673
Below Normal (21%)	154	183	1,962	225	15	875	28	263	464
Dry (20%)	88	166	1,994	139	13	873	17	288	285
Critical (15%)	41	142	1,910	70	12	774	8	310	144

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 With Project  
5-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)  
Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region		San Joaquin River Hydrologic Region		Tulare Lake Hydrologic Region	
	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)
<b>Long-term</b>						
Full Simulation Period <sup>1</sup>	166	1	263	28	12	6
<b>Water Year Types<sup>2</sup></b>						
Wet (30%)	173	1	268	42	12	10
Above Normal (15%)	170	1	267	37	12	9
Below Normal (21%)	176	1	268	30	12	7
Dry (20%)	169	0	267	17	12	4
Critical (15%)	131	0	235	1	11	0

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**CVP Deliveries - Comparison**

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project

1-Central Valley Project (CVP) Allocation

Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Allocation (EO May)	SOD Ag Service Allocation (EO May)	M&I Service Allocation (EO May)	SOD M&I Service Allocation (EO May)	Settlement Contract Allocation (EO May)	Exchange Contract Allocation (EO May)	Refuge Level 2 Contract Allocation (EO May)
Long-term							
Full Simulation Period <sup>1</sup>	0%	0%	0%	0%	0%	0%	0%
Water Year Types <sup>2</sup>							
Wet (30%)	0%	0%	0%	0%	0%	0%	0%
Above Normal (15%)	0%	-1%	1%	0%	0%	0%	0%
Below Normal (21%)	0%	-1%	0%	0%	0%	0%	0%
Dry (20%)	1%	1%	0%	0%	0%	0%	0%
Critical (15%)	0%	0%	0%	0%	0%	0%	0%

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project

2-Central Valley Project (CVP) Contract Deliveries

Long-term Average and Average by Water Year Type

Analysis Period	Ag Service Deliveries (Mar-Feb, TAF)	M&I Service Deliveries (Mar-Feb, TAF)	Total Ag and M&I Service Deliveries (Mar-Feb, TAF)	Total Settlement and Exchange Deliveries (Mar-Feb, TAF)	Total Refuge Level 2 and 4 Supplies (Mar-Feb, TAF)
Long-term					
Full Simulation Period <sup>1</sup>	-8	-2	-10	4	8
Water Year Types <sup>2</sup>					
Wet (30%)	-9	-1	-10	-1	3
Above Normal (15%)	-20	0	-20	1	3
Below Normal (21%)	-27	-2	-30	1	9
Dry (20%)	12	-1	11	-2	14
Critical (15%)	5	-4	2	26	12

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2030 Without Project

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project

3-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)

Long-term Average and Average by Water Year Type

Analysis Period	Total Refuge Level 2 Supplies (Mar-Feb, TAF)	Total Refuge Level 4 Sites Supplies (Mar-Feb, TAF)
Long-term		
Full Simulation Period <sup>1</sup>	8	35
Water Year Types <sup>2</sup>		
Wet (30%)	3	53
Above Normal (15%)	3	47
Below Normal (21%)	9	38
Dry (20%)	14	21
Critical (15%)	12	1

period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project  
 4-Central Valley Project (CVP) Contract Deliveries  
 Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region			San Joaquin River Hydrologic Region			San Francisco Bay Hydrologic Region		Tulare Lake Hydrologic Region
	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Settlement (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Exchange (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)
<b>Long-term</b>									
Full Simulation Period <sup>1</sup>	0	-1	3	-2	0	0	0	0	-6
<b>Water Year Types<sup>2</sup></b>									
Wet (30%)	-1	-1	-1	-1	0	0	0	0	-6
Above Normal (15%)	-1	0	1	-7	0	0	-1	0	-12
Below Normal (21%)	-1	-2	1	-7	0	0	-1	-1	-19
Dry (20%)	2	-1	-2	4	0	0	0	0	5
Critical (15%)	1	-4	26	1	0	0	0	0	4

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project  
 5-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies)  
 Long-term Average and Average by Water Year Type

Analysis Period	Sacramento River Hydrologic Region		San Joaquin River Hydrologic Region		Tulare Lake Hydrologic Region	
	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)	Refuge L2 (Mar-Feb, TAF)	Refuge L4 - Sites (Mar-Feb, TAF)
<b>Long-term</b>						
Full Simulation Period <sup>1</sup>	8	1	0	28	0	6
<b>Water Year Types<sup>2</sup></b>						
Wet (30%)	3	1	0	42	0	10
Above Normal (15%)	4	1	-1	37	0	9
Below Normal (21%)	9	1	0	30	0	7
Dry (20%)	14	0	0	17	0	4
Critical (15%)	11	0	1	1	0	0

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

**Sites Reservoir Benefits**

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project

1-Sites Deliveries to Sacramento Valley Members

Long-term Average and Average by Water Year Type

Analysis Period	Sacramento Valley (Mar-Feb, TAF)
<b>Long-term</b>	
Full Simulation Period <sup>1</sup>	129
<b>Water Year Types<sup>2</sup></b>	
Wet (30%)	62
Above Normal (15%)	118
Below Normal (21%)	155
Dry (20%)	186
Critical (15%)	165

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

<sup>3</sup> Includes Sites delivery to TCCA members, GCID, RD108, County of Colusa, and Western Canal WD

Difference: WSIP 2030 With Project minus WSIP 2030 Without Project

2-Sites Deliveries to South of Delta Members

Long-term Average and Average by Water Year Type

Analysis Period	M&I (Jan-Dec, TAF)	Ag (Jan-Dec, TAF)	Total (Jan-Dec, TAF)
<b>Long-term</b>			
Full Simulation Period <sup>1</sup>	76	23	99
<b>Water Year Types<sup>2</sup></b>			
Wet (30%)	6	2	8
Above Normal (15%)	-2	-1	-2
Below Normal (21%)	77	23	100
Dry (20%)	171	52	223
Critical (15%)	163	50	213

<sup>1</sup> Based on the 82-year simulation period

<sup>2</sup> As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

<sup>3</sup> Accounts for 18% deduction for carriage water for Delta Export