SWP Deliveries

WSIP 2070 Without Project 1-State Water Project (SWP) Allocations Long-term Average and Average by Water Year Type

	Ag Sonvice Table A Allocation (EQ	Mel Sorvice Table A Allegation (EO	EDCA Sottlement Contract
	.	M&I Service Table A Allocation (EO	FRSA Settlement Contract
Analysis Period	May)	May)	Allocation (EO May)
	Lon	g-term	
Full Simulation Period ¹	57%	57%	91%
	Water Ye	ear Types ²	
Wet (32%)	81%	81%	100%
Above Normal (13%)	73%	73%	100%
Below Normal (16%)	56%	56%	94%
Dry (24%)	37%	37%	88%
Critical (15%)	20%	20%	67%

1 Based on the 82-year simulation period

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

WSIP 2070 Without Project 3-State Water Project (SWP) Contract Deliveries Long-term Average and Average by Water Year Ty

	Long-term Average and A	verage 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)
	Lor	ng-term	
Full Simulation Period ¹	597	1,801	2,398
	Water Y	ear Types ²	
Wet (32%)	894	2,496	3,390
Above Normal (13%)	741	2,227	2,968
Below Normal (16%)	564	1,831	2,395
Dry (24%)	370	1,241	1,611
Critical (15%)	195	666	861
1 Pased on the 92 year simulation n	oriod		

1 Based on the 82-year simulation period

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

2-State Water Project (SW	P) Delivery Operations	
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	
2,262	63	72
Water Yea	r Types ²	
3,165	66	159
2,834	53	81
2,268	94	33
1,534	60	17
819	29	12
	2-State Water Project (SW Long-term Average and Ave SWP Table A Delivery (w/o Art 56) (Jan-Dec, TAF) Long- 2,262 Water Year 3,165 2,834 2,268 1,534	Long-term 2,262 63 Water Year Types ² 3,165 66 2,834 53 2,268 94 1,534 60

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

WSIP 2070 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 ¹	906				
Wa	ter Year Types ²				
Wet (32%)	975				
Above Normal (13%)	983				
Below Normal (16%)	934				
Dry (24%)	887				
Critical (15%)	680				
1 Based on the 82-year simulation	period				

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

WSIP 2070 Without Project 5-State Water Project (SWP) Contract Deliveries

	Sacramento River Hydrologic	San Joaquin River Hydrologic	San Francisco Bay	Central Coast Hydrologic	-		South Lahonton Hydrologic		
	Region	Region	Hydrologic Region	Region	Tulare Lake H	ydrologic Region	Region	South Coast Hy	drologic Region
	M&I Service (Jan-Dec, TAF)	Ag Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF)	Ag Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF)	Ag Service (Jan-Dec, TAF)	M&I Service (Jan-Dec, TAF
Analysis Period									
				Long-ter	m				
Full Simulation Period ¹	29	3	198	39	586	75	248	7	1,211
				Water Year T	ypes ²				
Wet (32%)	37	5	269	57	878	108	349	11	1,676
Above Normal (13%)	36	4	247	51	728	97	308	9	1,488
Below Normal (16%)	31	3	199	38	554	74	249	7	1,240
Dry (24%)	22	2	142	25	363	49	168	5	834
Critical (15%)	12	1	78	13	191	26	89	2	448
1 Based on the 82-year simulation period	d								

2 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 2070) WSIP 2070 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 ¹	30%	29%	71%	71%	98%	98%	98%
			Wat	er Year Types ²			
Wet (32%)	52%	52%	83%	83%	100%	100%	100%
Below Normal (16%)	38%	37%	75%	75%	100%	100%	100%
Below Normal (16%)	25%	24%	71%	71%	100%	100%	100%
Dry (24%)	14%	14%	63%	63%	100%	100%	100%
Critical (15%)	4%	4%	54%	54%	88%	88%	88%
1 Based on the 82-year simulat	tion period						

1 Based on the 82-year simulation period

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

WSIP 2070 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)
	(ong-term	, ,	
Full Simulation Period ¹	662	452	1,115	2,799	563
		Water	Year Types ²		
Wet (32%)	1,171	465	1,636	2,802	585
Above Normal (13%)	842	449	1,291	2,832	585
Below Normal (16%)	531	449	981	2,840	581
Dry (24%)	317	448	765	2,871	565
Critical (15%)	83	439	523	2,612	472
1 Based on the 82-year simulatio	n period				

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

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

Long-term Average and Average by Water Year Type

Tot Analysis Period Supp Full Simulation Period¹ W Wet (32%) Above Normal (13%) Below Normal (16%) Dry (24%) Critical (15%) period 2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641, 1999)

WSIP 2070 Without Project

otal Refuge Level 2 plies (Mar-Feb, TAF)	Total Refuge Level 4 Sites Supplies (Mar-Feb, TAF)
Long-term	
429	0
Vater Year Types ²	
448	0
447	0
443	0
428	0
352	0

WSIP 2070 Without Project 4-Central Valley Project (CVP) Contract Deliveries Long-term Average and Average by Water Year Type

	Sacramento River Hydrologic Region		San Joaquin River Hydrologic Region			San Francisco Bay Hydrologic Region		Tulare Lake Hydrologic Region	
	Ag Service (Mar-Feb,		Settlement (Mar-Feb, TAF)	Ag Service (Mar-Feb,	M&I Service (Mar-Feb, TAF)	Exchange (Mar-Feb, TAF)	Ag Service (Mar-Feb, TAF)	M&I Service (Mar-Feb,	Ag Service (Mar-Feb, TAF)
Analysis Period	TAF)	TAF)		TAF)				TAF)	
					Long-term				
Full Simulation Period ¹	105	172	1,941	176	14	859	21	267	360
					Water Year Types ²				
Wet (32%)	181	195	1,928	311	17	874	38	254	641
Above Normal (13%)	134	185	1,958	224	15	874	27	249	458
Below Normal (16%)	90	173	1,967	141	14	873	17	262	284
Dry (24%)	50	155	1,997	84	13	874	10	280	173
Critical (15%)	13	130	1,839	22	10	773	3	299	46
Based on the 82-year simulation	period						•		•

Based on the 82-year simulation period

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

			WSIP 2070 Without Proj	ect			
		5-Refuge Water Su	pplies (CVP Contract, Sites a	nd Acquisitions Supplies)			
		Long-ter	m Average and Average by \	Nater Year Type			
	Sacramento River Hydrologic Region San Joaquin River Hydrologic Region Tulare						
Analysis Period	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)	
Long-term			•				
Full Simulation Period ¹	156	0	261	0	12	0	
Water Year Types ²					•		
Wet (32%)	168	0	267	0	12	0	
Above Normal (13%)	167	0	268	0	12	0	
Below Normal (16%)	165	0	266	0	12	0	
Dry (24%)	151	0	265	0	12	0	
Critical (15%)	115	0	226	0	10	0	

1 Based on the 82-year simulation period

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

CVP Deliveries - With Project WSIP 2070 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)
			l	ong-term			
Full Simulation Period ¹	30%	29%	71%	71%	98%	98%	98%
			Wate	r Year Types ²			
Wet (32%)	52%	52%	84%	84%	100%	100%	100%
Above Normal (13%)	37%	37%	75%	75%	100%	100%	100%
Below Normal (16%)	26%	24%	72%	71%	100%	100%	100%
Dry (24%)	14%	13%	63%	62%	100%	100%	100%
Critical (15%)	4%	4%	54%	54%	88%	88%	88%
1 Based on the 82-year simulat	ion period						

1 Based on the 82-year simulation period

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

WSIP 2070 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)	U	Total Refuge Level 2 and 4 Supplies (Mar-Feb, TAF)
		L	.ong-term		
Full Simulation Period ¹	664	452	1,117	2,800	573
		Water	r Year Types ²		
Wet (32%)	1,183	467	1,650	2,799	590
Above Normal (13%)	835	448	1,283	2,829	590
Below Normal (16%)	542	449	990	2,835	592
Dry (24%)	301	445	746	2,867	579
Critical (15%)	85	442	526	2,635	484

1 Based on the 82-year simulation period

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

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 ¹	438	31
	Water Year Types ²	
Wet (32%)	452	51
Above Normal (13%)	452	41
Below Normal (16%)	455	30
Dry (24%)	441	17
Critical (15%)	364	1

1999)

WSIP 2070 With Project

Long-term Average and Average by Water Year Type

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641,

WSIP 2070 With Project 4-Central Valley Project (CVP) Contract Deliveries Long-term Average and Average by Water Year Type

	Sac	ramento River Hydrologic	Region	S	an Joaquin River Hydrologic Re	egion	San Francisco Bay H	ydrologic Region	Tulare Lake Hydrologic Region
Analysis Period	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)
					Long-term				
Full Simulation Period ¹	105	171	1,940	176	14	859	22	268	361
				W	ater Year Types ²				
Wet (32%)	182	196	1,924	315	17	874	39	255	648
Above Normal (13%)	133	183	1,955	222	15	874	27	250	454
Below Normal (16%)	92	173	1,961	143	14	874	18	262	289
Dry (24%)	49	153	1,993	81	12	874	10	280	162
Critical (15%)	13	130	1,861	22	11	773	3	301	47
1 Based on the 82-year simulation	period						•		-

12

11

3

0

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

			WSIP 2070 With Project	t		
		5-Refuge Water Su	pplies (CVP Contract, Sites a	nd Acquisitions Supplies)		
		Long-te	rm Average and Average by V	Vater Year Type		
	Sacramento River I	Hydrologic Region	San Joaquin River I	Hydrologic Region	Tulare Lake Hy	drologic 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)
Analysis Period						
Long-term						
Full Simulation Period ¹	164	1	261	25	12	6
Water Year Types ²						
Wet (32%)	172	1	268	41	12	9
Above Normal (13%)	172	1	268	33	12	7
Below Normal (16%)	176	1	267	24	12	5

265

229

14

1

1 Based on the 82-year simulation period

Dry (24%)

Critical (15%)

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

0

0

164

125

CVP Deliveries - Comparison

Difference: WSIP 2070 With Project minus WSIP 2070 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 ¹	0%	0%	0%	0%	0%	0%	0%
			Wat	er Year Types ²			
Wet (32%)	1%	1%	1%	1%	0%	0%	0%
Above Normal (13%)	0%	0%	0%	0%	0%	0%	0%
Below Normal (16%)	1%	0%	0%	0%	0%	0%	0%
Dry (24%)	0%	-1%	0%	-1%	0%	0%	0%
Critical (15%)	0%	0%	0%	0%	0%	0%	0%
1 Based on the 82-year simulati	on period						

1 Based on the 82-year simulation period

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

Difference: WSIP 2070 With Project minus WSIP 2070 Without Project 2-Central Valley Project (CVP) Contract Deliveries Long-term Average and Average by Water Year Type

	Ag Service Deliveries	M&I Service Deliveries	Total Ag and M&I Service Ex	Total Settlement and change Deliveries (Mar-	Total Refuge Level 2 and 4
Analysis Period	(Mar-Feb, TAF)	(Mar-Feb, TAF)	Deliveries (Mar-Feb, TAF)	Feb, TAF)	Supplies (Mar-Feb, TAF)
		L	ong-term		
Full Simulation Period ¹	2	0	2	0	9
		Water	Year Types ²		
Wet (32%)	12	2	14	-3	5
Above Normal (13%)	-7	-1	-8	-3	5
Below Normal (16%)	10	-1	10	-5	12
Dry (24%)	-15	-3	-19	-4	14
Critical (15%)	1	2	4	23	13
1 Based on the 82-year simulatio	n period				

1 Based on the 82-year simulation period

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

WSIP 2070 Without Project

Tota Analysis Period Supp Full Simulation Period¹ W Wet (32%) Above Normal (13%) Below Normal (16%) Dry (24%) Critical (15%) period

1999)

Difference: WSIP 2070 With Project minus WSIP 2070 Without Project

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

Long-term Average and Average by Water Year Type

tal Refuge Level 2 plies (Mar-Feb, TAF)	Total Refuge Level 4 Sites Supplies (Mar-Feb, TAF)
Long-term	
9	31
ater Year Types ²	
5	51
5	41
12	30
14	17
13	1

2 As defined by the Sacramento Valley 40-30-30 Index Water Year Hydrologic Classification (SWRCB D-1641,

Difference: WSIP 2070 With Project minus WSIP 2070 Without Project 4-Central Valley Project (CVP) Contract Deliveries Long-term Average and Average by Water Year Type

	Sacr	amento River Hydrologic F	Region	S	an Joaquin River Hydrologic R	egion	San Francisco Bay F	lydrologic Region	Tulare Lake Hydrologic Region
Analysis Period	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)
					Long-term				
Full Simulation Period ¹	0	-1	0	1	0	0	0	1	1
				V	Vater Year Types ²				•
Wet (32%)	1	1	-4	4	0	0	1	1	7
Above Normal (13%)	-1	-1	-3	-3	0	0	0	1	-4
Below Normal (16%)	2	-1	-5	3	0	1	0	0	5
Dry (24%)	-1	-3	-4	-3	0	0	0	0	-11
Critical (15%)	0	-1	23	0	0	0	0	2	1
1 Based on the 82-year simulation p	period								•

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

Difference: WSIP 2070 With Project minus WSIP 2070 Without Project 5-Refuge Water Supplies (CVP Contract, Sites and Acquisitions Supplies) Long-term Average and Average by Water Year Type

	Sacramento River Hydrologic Region		San Joaquin River	Hydrologic Region	Tulare Lake Hydrologic Region				
Analysis Period	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)			
Long-term									
Full Simulation Period ¹	8	1	1	25	0	6			
Water Year Types ²									
Wet (32%)	4	1	0	41	0	9			
Above Normal (13%)	5	1	0	33	0	7			
Below Normal (16%)	11	1	0	24	0	5			
Dry (24%)	13	0	0	14	0	3			
Critical (15%)	10	0	3	1	0	0			

1 Based on the 82-year simulation period

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

Sites Reservoir Benefits

Difference: WSIP 2070 With Project minus WSIP 2070 Without

Project

1-Sites Deliveries to Sacramento Valley Members

Long-term Average and Average by Water Year Type

Analysis Period	(Mar-Feb, TAF)	
	Long-term	
Full Simulation Period ¹		155
	Water Year Types ²	
Wet (32%)		110
Above Normal (13%)		178
Below Normal (16%)		182
Dry (24%)		190
Critical (15%)		143

1 Based on the 82-year simulation period

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

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

Difference: WSIP 2070 With Project minus WSIP 2070 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)						
Long-term									
Full Simulation Period ¹	85	26	112						
	Water Year	[·] Types ²							
Wet (32%)	1	0	1						
Above Normal (13%)	22	7	29						
Below Normal (16%)	56	17	73						
Dry (24%)	226	69	295						
Critical (15%)	119	36	155						
		50	155						

1 Based on the 82-year simulation period

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

3 Accounts for 18% deduction for carriage water for Delta Export