Demo QA/QC

Subtitle

BASE STUDY - ROC0113 (BENCHMARK STUDY)

adam

Jan 31, 2020 4:00 PM

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Executive Report

Modules	Issues
	Base Study ROC0113
NOD Reservoir Operation	0 incident(s) of below DP 0 incident(s) of above Flood 0 incident(s) of Spill
Upstream Minimum Flow Requirements	0 incident(s) of violation
NOD Weirs Operation	0 incident(s) of spilling
NOD Groundwater Pumping	0 incident(s) of violation
Delta Operations	0 incident(s) of violation
COA	1.00% different Between Actual and Agreed ratio
Allocations and Deliveries	0 incident(s) of shortage
Mass Balance	0 incident(s) of off balance

Issues Report (Base)

1. NOD Reservoir Operation - 0 issues
2. Upstream Minimum Flow Requirements - 0 issues
3. NOD Weirs Operation - 0 issues
4. NOD Groundwater Pumping - 0 issues
5. Delta Operations - 0 issues
6. COA - 0 issues
7. Allocations and Deliveries - 0 issues
8. Mass Balance - 0 issues

Summary

1. Reservoir Operations

1.a. Summary of Reservoir Operations

Summary, End of May

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs																		
North of Delta																		
CVP Reservoirs																		
GuiLinkTitleFunction(102)	1574	1855	1226	906	1463	1983	1963	2076	1962	2014	1990	1956	981	1443	1529	617	1056	851
GuiLinkTitleFunction(112)	3160	3290	3198	1891	3374	3619	3535	3756	3584	3662	3713	3563	2886	3507	3519	1146	2285	1917
GuiLinkTitleFunction(104)	583	643	671	376	537	673	650	703	648	681	700	672	684	669	634	380	318	384
SWP Reservoir																		
GuiLinkTitleFunction(107)	2108	2635	2031	1278	1590	2771	2635	2847	2596	2749	2887	2866	2034	1924	2238	1083	1221	1290
South of Delta																		
San Luis																		
GuiLinkTitleFunction(106)	467	474	661	443	374	497	483	452	493	418	679	448	746	532	666	753	449	281
GuiLinkTitleFunction(108)	460	399	593	285	357	565	365	499	668	411	876	523	595	549	674	375	303	220

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs						
North of Delta						
CVP Reservoirs						
GuiLinkTitleFunction(102)	1346	1223	1521	1644	1770	2193
GuiLinkTitleFunction(112)	2519	3215	3494	3413	3198	3749
GuiLinkTitleFunction(104)	456	579	450	582	616	776
SWP Reservoir						
GuiLinkTitleFunction(107)	1749	1700	1463	1606	2588	2872
South of Delta						
San Luis						
GuiLinkTitleFunction(106)	296	365	342	415	530	248
GuiLinkTitleFunction(108)	263	520	222	328	460	155

Summary, End of September

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs																		
North of Delta																		
CVP Reservoirs																		
GuiLinkTitleFunction(102)	1574	1868	1091	994	1424	1955	1993	2023	1897	2064	1987	1876	781	1400	1400	582	1342	920
GuiLinkTitleFunction(112)	3160	3379	2914	2095	3179	3598	3638	3714	3559	3677	3700	3460	2395	3462	3379	1126	2668	2096
GuiLinkTitleFunction(104)	583	642	633	409	522	667	679	692	628	692	676	658	619	648	646	439	373	401
SWP Reservoir																		
GuiLinkTitleFunction(107)	2108	2523	1924	1302	1508	2807	2761	2879	2604	2850	2996	2796	1842	1923	2172	1043	1455	1230
South of Delta																		
San Luis																		
GuiLinkTitleFunction(106)	467	476	624	449	375	500	494	477	508	430	687	425	718	530	528	782	436	259
GuiLinkTitleFunction(108)	460	301	522	345	410	570	420	586	691	508	791	472	533	453	630	506	317	246

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs						
North of Delta						
CVP Reservoirs						
GuiLinkTitleFunction(102)	1344	1050	1520	1701	1859	1876
GuiLinkTitleFunction(112)	2888	2832	3410	3294	3215	3612
GuiLinkTitleFunction(104)	451	566	446	553	637	651
SWP Reservoir						
GuiLinkTitleFunction(107)	1736	1500	1531	1492	2706	2263
South of Delta						
San Luis						
GuiLinkTitleFunction(106)	385	344	357	425	538	415
GuiLinkTitleFunction(108)	373	511	266	452	421	180

Change in Storage

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs																		
North of Delta																		
GuiLinkTitleFunction(51)																		
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(61)																		
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(71)																		
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
South of Delta (San Luis)																		
GuiLinkTitleFunction(81)																		
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(91)																		
Fill-up	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
CVP & SWP Project Reservoirs						
North of Delta						
GuiLinkTitleFunction(51)						
Fill-up	0	0	0	0	0	0

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0
GuiLinkTitleFunction(61)						
Fill-up	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0
GuiLinkTitleFunction(71)						
Fill-up	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0
Fill-up	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0
South of Delta (San Luis)						
GuiLinkTitleFunction(81)						
Fill-up	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0
GuiLinkTitleFunction(91)						
Fill-up	0	0	0	0	0	0
Drawdown	0	0	0	0	0	0
Storage Change	0	0	0	0	0	0

Summary

Shasta

Folsom

Oroville

San Luis

Trinity Imports

Percent Difference in Reservoir Release Control

1.b. Control for Reservoir Operations

Reservoir Operations Controls

Number of Events	Base		
	Less Than	Equal To	Greater Than
Trinity			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
Shasta			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
CVPIA	0	0	0
Oroville			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
Folsom			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
CVP San Luis			
DPL	0	0	0
CAP	0	0	0
RC	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
SPL	0	0	0
SWP San Luis			
DPL	0	0	0
CAP	0	0	0
RC	0	0	0
SPL	0	0	0
Trinity Imports			
ZERO	0	0	0
CAP	0	0	0
TRG	0	0	0

Non-recoverable Spill Events

Base

Non-recoverable Spill Events

GuiLinkTitleFunction(102)
GuiLinkTitleFunction(112)
GuiLinkTitleFunction(104)
GuiLinkTitleFunction(107)
GuiLinkTitleFunction(106)
GuiLinkTitleFunction(108)

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2. Upstream Minimum Flow Requirements

2.a. Summary of Upstream Minimum Flow Requirements

Annual Average Flow

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Trinity River																		
below Lewiston																		
Required	947	1022	817	556	703	1332	1317	1141	1202	1636	1730	1356	711	926	622	565	565	584
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Clear Creek																		
below Whiskeytown																		
Required	176	186	175	148	173	186	183	183	193	189	183	191	149	183	183	120	160	140
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Upper Sacramento River																		
below Keswick																		
Required	8649	9207	6866	6024	6495	1205	1159	1077	1158	1223	1337	1234	5546	7523	5829	5261	6691	5933
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
at Red Bluff																		
Required	1144	1236	9014	7262	8366	1639	1574	1436	1589	1622	1856	1680	8316	9541	7941	6814	7626	7240
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
at Hamilton																		
Required	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
at Wilkins Slough																		
Required	9214	1044	7949	5742	7021	1244	1260	1226	1189	1185	1385	1266	7685	7889	7475	5504	5570	6188
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Feather River																		
Low Flow Channel																		
Required	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
below Thermalito																		
Required	4033	4264	3153	1621	2354	6675	6386	6557	6220	6528	8767	7305	2932	3185	3114	1770	1678	1375
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
at Verona																		
Required	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
American River																		
below Nimbus																		

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Required	3268	3610	2757	1159	1871	5325	4584	4669	4549	4277	7270	5657	3319	3193	2589	1566	769	1355
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
at H Street																		
Required	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
ANN Required Delta Inflow																		
Sacramento River at Hood																		
Required	2160	2408	1828	1039	1449	3215	3131	3110	2972	3085	3877	3247	1948	1886	1743	1046	9516	1109
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Yolo Bypass Flow into Delta																		
Required	3032	2404	617	127	350	7819	6968	3451	6708	5432	1151	9779	763	1040	274	128	62	202
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Lower Sacramento River																		
at Rio Vista																		
Required	1935	2156	1372	6844	1036	3337	3180	2809	3006	2972	4282	3557	1503	1466	1267	6973	5943	7524
Excess	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Trinity River						
below Lewiston						
Required	508	793	889	756	581	1089
Excess	1251	1091	1519	1640	1810	2042
Clear Creek						
below Whiskeytown						
Required	183	146	183	183	239	179
Excess	1251	1091	1519	1640	1810	2042
Upper Sacramento River						
below Keswick						
Required	6603	6052	7211	7074	7517	9914
Excess	1251	1091	1519	1640	1810	2042
at Red Bluff						
Required	7717	8803	9313	9480	8575	1428
Excess	1251	1091	1519	1640	1810	2042

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
at Hamilton						
Required	1251	1091	1519	1640	1810	2042
Excess	1251	1091	1519	1640	1810	2042
at Wilkins Slough						
Required	6789	7405	8185	7976	7476	1265
Excess	1251	1091	1519	1640	1810	2042
Feather River						
Low Flow Channel						
Required	1251	1091	1519	1640	1810	2042
Excess	1251	1091	1519	1640	1810	2042
below Thermalito						
Required	1990	2142	2213	2002	4794	3575
Excess	1251	1091	1519	1640	1810	2042
at Verona						
Required	1251	1091	1519	1640	1810	2042
Excess	1251	1091	1519	1640	1810	2042
American River						
below Nimbus						
Required	1188	2338	1395	1824	3667	2992
Excess	1251	1091	1519	1640	1810	2042
at H Street						
Required	1251	1091	1519	1640	1810	2042
Excess	1251	1091	1519	1640	1810	2042
ANN Required Delta Inflow						
Sacramento River at Hood						
Required	1258	1644	1443	1570	1644	2816
Excess	1251	1091	1519	1640	1810	2042
Yolo Bypass Flow into Delta						
Required	74	1339	231	523	300	1403
Excess	1251	1091	1519	1640	1810	2042
Lower Sacramento River						
at Rio Vista						
Required	8445	1315	1016	1168	1664	2298
Excess	1251	1091	1519	1640	1810	2042

Percent Difference in Reservoir Release Control

2.b. Control for Upstream Minimum Flow Requirements

Reservoir Operations Controls

Number of Events	Base		
	Less Than	Equal To	Greater Than
Trinity River			
GuiLinkTitleFunction	0	0	0
Clear Creek			
GuiLinkTitleFunction	0	0	0
Upper			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
Feather River			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
American River			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
ANN Required			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
Lower			
GuiLinkTitleFunction	0	0	0

Non-recoverable Spill Events

Base

Trinity River

GuiLinkTitleFunction(202)

Clear Creek

GuiLinkTitleFunction(204)

Upper Sacramento River

GuiLinkTitleFunction(206)

GuiLinkTitleFunction(207)

GuiLinkTitleFunction(2728)

GuiLinkTitleFunction(208)

Feather River

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GuiLinkTitleFunction(2729)
GuiLinkTitleFunction(209)
GuiLinkTitleFunction(2730)
American River
GuiLinkTitleFunction(211)
GuiLinkTitleFunction(2731)
ANN Required Delta Inflow
GuiLinkTitleFunction(214)
GuiLinkTitleFunction(215)
Lower Sacramento River
GuiLinkTitleFunction(217)

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3. North of Delta Weir & Bypass Operations

3.a. Summary of North of Delta Weir & Bypass Operations

NOD Weir Operations

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
North of Delta Weir & Bypass Operations																		
Sutter Bypass																		
GuiLinkTitleFunction(2732)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2733)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(708)	121	0	0	0	0	384	124	20	324	198	563	545	0	0	0	0	0	0
GuiLinkTitleFunction(709)	1134	942	79	0	37	3073	2847	1438	2327	2915	3967	3355	0	447	0	0	0	0
GuiLinkTitleFunction(710)	1241	1637	362	3	224	2808	3054	2207	2439	2679	3746	2862	368	852	0	0	0	11
Total Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yolo Bypass																		
GuiLinkTitleFunction(2734)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(212)	1987	1352	169	0	69	5505	3748	1918	5029	4331	8526	7604	16	480	30	0	0	0
GuiLinkTitleFunction(213)	154	65	13	0	3	447	137	52	309	106	615	692	10	43	1	0	0	0
Total Flow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
North of Delta Weir & Bypass Operations						
Sutter Bypass						
GuiLinkTitleFunction(2732)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2733)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(708)	0	0	0	0	0	0
GuiLinkTitleFunction(709)	0	311	0	23	0	817
GuiLinkTitleFunction(710)	0	680	304	441	0	2380
Total Flow	0	0	0	0	0	0
null	0	0	0	0	0	0

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Yolo Bypass						
GuiLinkTitleFunction(2734)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(212)	0	435	0	76	0	393
GuiLinkTitleFunction(213)	0	22	0	1	0	2
Total Flow	0	0	0	0	0	0
null	0	0	0	0	0	0

Sutter Bypass Total Flow

Yolo Bypass Total Flow

3.b. Control for North of Delta Weir & Bypass Operations

Bypass Spill Events Controls

Number of Events	Base		
	Less Than	Equal To	Greater Than
Sutter Bypass			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Yolo Bypass Spill			
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0
GuiLinkTitleFunction	0	0	0

4. North of Delta Groundwater Pumping

4.a. Summary of North of Delta Groundwater Pumping

Groundwater Pumping

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
North of Delta Groundwater Pumping																		
Groundwater Pumping																		
GuiLinkTitleFunction(711)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(2735)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(713)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(714)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(712)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
North of Delta Groundwater Pumping						
Groundwater Pumping						
GuiLinkTitleFunction(711)	0	0	0	0	0	0
GuiLinkTitleFunction(2735)	0	0	0	0	0	0
GuiLinkTitleFunction(713)	0	0	0	0	0	0
GuiLinkTitleFunction(714)	0	0	0	0	0	0
GuiLinkTitleFunction(712)	0	0	0	0	0	0

North of Delta Total Flow

Upper Sacramento River (DSA 58) Total Flow

Colusa Basin Total Flow

Feather River Watershed (DSA 69) Total Flow

American River Watershed (DSA 70) Total Flow

Lower Sacramento River (DSA 65) Total Flow

5. Delta Operations

5.a. Summary of Delta Operations

CCWD Exports

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
CCWD Exports																		
Diversion Location																		
GuiLinkTitleFunction(516)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(514)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GuiLinkTitleFunction(515)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Source																		
GuiLinkTitleFunction(2737)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2738)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2739)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2740)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2741)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
CCWD Exports						
Diversion Location						
GuiLinkTitleFunction(516)	0	0	0	0	0	0
GuiLinkTitleFunction(514)	0	0	0	0	0	0
GuiLinkTitleFunction(515)	0	0	0	0	0	0
Source						
GuiLinkTitleFunction(2737)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2738)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2739)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2740)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2741)	1251	1091	1519	1640	1810	2042

South Delta Exports

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
South Delta Exports																		
Diversion Location																		
GuiLinkTitleFunction(2742)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2743)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
South Delta Facility																		
GuiLinkTitleFunction(2744)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2745)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Project																		
GuiLinkTitleFunction(2746)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2747)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2748)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Source																		
CVP																		
GuiLinkTitleFunction(2749)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2750)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
SWP																		
GuiLinkTitleFunction(2751)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2752)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
CVP Wheeling at Banks	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Water Transfers	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Use																		
Jones PP																		
GuiLinkTitleFunction(2755)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2756)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Banks PP																		
GuiLinkTitleFunction(2757)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2758)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2759)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2760)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2761)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
South Delta Exports						
Diversion Location						
GuiLinkTitleFunction(2742)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2743)	1251	1091	1519	1640	1810	2042
South Delta Facility						
GuiLinkTitleFunction(2744)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2745)	1251	1091	1519	1640	1810	2042
Project						
GuiLinkTitleFunction(2746)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2747)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2748)	1251	1091	1519	1640	1810	2042
Source						
CVP						
GuiLinkTitleFunction(2749)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2750)	1251	1091	1519	1640	1810	2042
SWP						
GuiLinkTitleFunction(2751)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2752)	1251	1091	1519	1640	1810	2042
CVP Wheeling at Banks	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
Water Transfers	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
Use						
Jones PP						
GuiLinkTitleFunction(2755)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2756)	1251	1091	1519	1640	1810	2042
Banks PP						
GuiLinkTitleFunction(2757)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2758)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2759)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2760)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2761)	1251	1091	1519	1640	1810	2042

Delta Outflow

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
by Arcs																		
D406	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
D407	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
C407	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2765)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2766)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2767)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2768)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2769)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2770)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
by Use																		
Total Delta Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Required Delta Outflow	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2772)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2773)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Carriage Water Cost	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2775)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2776)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Remaining	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
null	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
by Arcs						
D406	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
D407	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
C407	1251	1091	1519	1640	1810	2042

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
null	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2765)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2766)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2767)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2768)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2769)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2770)	1251	1091	1519	1640	1810	2042
by Use						
Total Delta Outflow	0	0	0	0	0	0
null	0	0	0	0	0	0
Required Delta Outflow	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2772)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2773)	1251	1091	1519	1640	1810	2042
Carriage Water Cost	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2775)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2776)	1251	1091	1519	1640	1810	2042
Remaining	1251	1091	1519	1640	1810	2042
null	1251	1091	1519	1640	1810	2042

Delta Cross Channel Exceedance

X2 Location Exceedance - K-M

X2 Location Exceedance - ANN

Old and Middle River Exceedance

Electrical Conductivity at Rock Slough Exceedance

Electrical Conductivity at Jersey Point Exceedance

Electrical Conductivity at Emmaton Exceedance

Electrical Conductivity at Collinsville Exceedance

Percent Difference in Delta Operations Controls

5.b. Control for Delta Operations

Delta Operations Controls

Number of Events	Base		
	Less Than	Equal To	Greater Than
Delta Conditions			
IBU	0	0	0
UWFE	0	0	0
EXC_RES	0	0	0
EXC	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
South Delta			
ZERO	0	0	0
CAP	0	0	0
HS	0	0	0
EI	0	0	0
VERN	0	0	0
OMR	0	0	0
SJR_IE	0	0	0
FX2	0	0	0
DXC	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Jones Pumping			
ZERO	0	0	0
CAP	0	0	0
HS	0	0	0
EI	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
VERN	0	0	0
OMR	0	0	0
SJR_IE	0	0	0
FX2	0	0	0
DXC	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Banks Pumping			
ZERO	0	0	0
CAP	0	0	0
HS	0	0	0
EI	0	0	0
VERN	0	0	0
OMR	0	0	0
SJR_IE	0	0	0
FX2	0	0	0
DXC	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Delta Inflow			
MIF_UPS	0	0	0
ANN	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Delta Outflow			
ZERO	0	0	0
RV	0	0	0
SX2	0	0	0
FX2	0	0	0
NDOI	0	0	0
WQ_RS	0	0	0
WQ_JP	0	0	0
WQ_EM	0	0	0
WQ_CO	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
EC Standard			
WQ_RS	0	0	0
WQ_JP	0	0	0
WQ_EM	0	0	0
WQ_CO	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Delta Cross			
Required Number of	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
X2 Controls			
X2_REQ	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
Old and Middle			
OMR	0	0	0

Delta Operations Controls List

Base

Gate Operations

Delta Cross Channel

X2 Location (km)

K-M Equation

Calculated using ANN

Flow

Old and Middle River

Electrical Conductivity

Rock Slough

Jersey Point

Emmaton

Collinsville

Negative Carriage Water

Storage Conditions during Negative Carriage Water Conditions

Zero Flow Conditions

Banks PP

Jones PP

Delta Outflow

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6. Coordinated Operations Agreement

6.a. Summary of Coordinated Operations Agreement

Sharing Ratios Summary

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Balanced Conditions																		
In-Basin Use																		
DtsTitleFunction(171)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(172)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unstored Water for Export																		
DtsTitleFunction(173)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(174)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Available Export Capacity when restricted and not capacity limited																		
DtsTitleFunction(175)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(176)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Excess Conditions																		
Available Export Capacity when restricted and not capacity limited																		
DtsTitleFunction(177)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(178)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Balanced Conditions						
In-Basin Use						
DtsTitleFunction(171)	0	0	0	0	0	0
DtsTitleFunction(172)	0	0	0	0	0	0
Unstored Water for Export						
DtsTitleFunction(173)	0	0	0	0	0	0
DtsTitleFunction(174)	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Available Export Capacity when restricted and not capacity limited						
DtsTitleFunction(175)	0	0	0	0	0	0
DtsTitleFunction(176)	0	0	0	0	0	0
Excess Conditions						
Available Export Capacity when restricted and not capacity limited						
DtsTitleFunction(177)	0	0	0	0	0	0
DtsTitleFunction(178)	0	0	0	0	0	0

Sharing of Central Valley Supplies during Balanced Conditions

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Sacramento Basin Use																		
Central Valley Project																		
Sacramento River below Shasta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVP Ag Service Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVP MI Service Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVP Settlement Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVP Refuge Deliveries (inc. Gray Lodge, Butte Sirks, and Sutter NWR)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Non-Project/Water Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
American River Basin																		
CVP Loss	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Water Project																		
Feather River below Oroville																		
SWP Table A MI	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
FRSA Contractors (Includes Winter Water)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
\t Winter Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Right Contacts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Water Users																		
American River Basin (excess flows diversion by Sacramento County WA)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feather River below Oroville (Yuba County WA, Camp Far West ID, DSA 70 Exports)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Export																		
Central Valley Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tracy Pumping Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contra Consta WD Pumping Plant	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Freeport Regional Water Project (FRWP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CVP Wheeling via Banks	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cross Valley Canal	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other CVP Wheeling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Incremental Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
State Water Project	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta Pumping Plant (BANKS PP)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
North Bay Aqueduct	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Water Transfers	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta Area and Outflow (Joint Responsibility)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Delta Island Comsumptive Use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Required Delta Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Delta Diversions (Antioch, Vallejo, Fairfield-Vacaville-Benicia, and non-project CCAD diversions)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Sacramento Basin Use						
Central Valley Project						
Sacramento River below Shasta	0	0	0	0	0	0
null	0	0	0	0	0	0
CVP Ag Service Contracts	0	0	0	0	0	0
CVP MI Service Contracts	0	0	0	0	0	0
CVP Settlement Contracts	0	0	0	0	0	0
CVP Refuge Deliveries (inc. Gray Lodge, Butte Sirks, and Sutter NWR)	0	0	0	0	0	0
Non-Project/Water Right	0	0	0	0	0	0
American River Basin						
CVP Loss	0	0	0	0	0	0
Subtotal	0	0	0	0	0	0
null	0	0	0	0	0	0
State Water Project						

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Feather River below Oroville						
SWP Table A MI	0	0	0	0	0	0
FRSA Contractors (Includes Winter Water)	0	0	0	0	0	0
\t Winter Water	0	0	0	0	0	0
Water Right Contacts	0	0	0	0	0	0
Other Water Users						
American River Basin (excess flows diversion by Sacramento County WA)	0	0	0	0	0	0
Feather River below Oroville (Yuba County WA, Camp Far West ID, DSA 70 Exports)	0	0	0	0	0	0
Total	0	0	0	0	0	0
null	0	0	0	0	0	0
Export						
Central Valley Project	0	0	0	0	0	0
Tracy Pumping Plant	0	0	0	0	0	0
null	0	0	0	0	0	0
Contra Consta WD Pumping Plant	0	0	0	0	0	0
null	0	0	0	0	0	0
Freeport Regional Water Project (FRWP)	0	0	0	0	0	0
null	0	0	0	0	0	0
CVP Wheeling via Banks	0	0	0	0	0	0
null	0	0	0	0	0	0
Cross Valley Canal	0	0	0	0	0	0
Other CVP Wheeling	0	0	0	0	0	0
Incremental Supply	0	0	0	0	0	0
null	0	0	0	0	0	0
null	0	0	0	0	0	0
State Water Project	0	0	0	0	0	0
Delta Pumping Plant (BANKS PP)	0	0	0	0	0	0
null	0	0	0	0	0	0
North Bay Aqueduct	0	0	0	0	0	0
null	0	0	0	0	0	0
null	0	0	0	0	0	0

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Water Transfers	0	0	0	0	0	0
null	0	0	0	0	0	0
Total	0	0	0	0	0	0
null	0	0	0	0	0	0
Delta Area and Outflow (Joint Responsibility)	0	0	0	0	0	0
null	0	0	0	0	0	0
Net Delta Island Comsumptive Use	0	0	0	0	0	0
null	0	0	0	0	0	0
Required Delta Outflow	0	0	0	0	0	0
null	0	0	0	0	0	0
Other Delta Diversions (Antioch, Vallejo, Fairfield-Vacaville-Benicia, and non-project CCAD diversions)	0	0	0	0	0	0
null	0	0	0	0	0	0

6.b. Control for Coordinated Operations Agreement

Sharing Ratios based on the Dec 2018 Addnedum to 1986 COA

Number of Events	Base		
	Less Than	Equal To	Greater Than
Trinity			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
Shasta			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0

Number of Events	Base		
	Less Than	Equal To	Greater Than
CVPIA	0	0	0
Oroville			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
Folsom			
DPL	0	0	0
CAP	0	0	0
FLD	0	0	0
RC	0	0	0
SPL	0	0	0
MIF	0	0	0
CVP San Luis			
DPL	0	0	0
CAP	0	0	0
RC	0	0	0
SPL	0	0	0
SWP San Luis			
DPL	0	0	0
CAP	0	0	0
RC	0	0	0
SPL	0	0	0
Trinity Imports			
ZERO	0	0	0
CAP	0	0	0
TRG	0	0	0

Central Valley Project and State Water Project Annual Supplies

Base

Non-recoverable Spill Events

GuiLinkTitleFunction(102)

GuiLinkTitleFunction(112)

GuiLinkTitleFunction(104)

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GuiLinkTitleFunction(107)
GuiLinkTitleFunction(106)
GuiLinkTitleFunction(108)

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7. Allocations and Deliveries

7.a. Summary of Allocations and Deliveries

CVP Project Operations

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Allocation (May, %)																		
North of Delta																		
GuiLinkTitleFunction(2785)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2786)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2787)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2788)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delta & South of Delta																		
GuiLinkTitleFunction(2789)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2790)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2791)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2792)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delivery (Mar - Feb, TAF/yr)																		
North of Delta																		
DtsTitleFunction(244)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(245)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(246)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(247)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(248)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(249)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(250)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(251)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortage (Mar - Feb, TAF/yr)																		
North of Delta																		
DtsTitleFunction(252)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
DtsTitleFunction(256)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(257)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(258)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(259)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Allocation (May, %)						
North of Delta						
GuiLinkTitleFunction(2785)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2786)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2787)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2788)	1495	1422	1788	2029	1918	2250
Delta & South of Delta						
GuiLinkTitleFunction(2789)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2790)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2791)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2792)	1495	1422	1788	2029	1918	2250
Delivery (Mar - Feb, TAF/yr)						
North of Delta						
DtsTitleFunction(244)	0	0	0	0	0	0
DtsTitleFunction(245)	0	0	0	0	0	0
DtsTitleFunction(246)	0	0	0	0	0	0
DtsTitleFunction(247)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(248)	0	0	0	0	0	0
DtsTitleFunction(249)	0	0	0	0	0	0
DtsTitleFunction(250)	0	0	0	0	0	0
DtsTitleFunction(251)	0	0	0	0	0	0
Shortage (Mar - Feb, TAF/yr)						
North of Delta						
DtsTitleFunction(252)	0	0	0	0	0	0
DtsTitleFunction(253)	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
DtsTitleFunction(254)	0	0	0	0	0	0
DtsTitleFunction(255)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(256)	0	0	0	0	0	0
DtsTitleFunction(257)	0	0	0	0	0	0
DtsTitleFunction(258)	0	0	0	0	0	0
DtsTitleFunction(259)	0	0	0	0	0	0

SWP Project Operations

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Allocation (May, %)																		
Table A																		
GuiLinkTitleFunction(2793)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2794)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2795)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2796)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2797)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
FRSA Contractors	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
null	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delivery (Jan - Dec, TAF/yr)																		
North of Delta																		
DtsTitleFunction(260)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(261)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(262)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(263)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(264)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(265)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortage (Dec, TAF/yr)																		
North of Delta																		
DtsTitleFunction(266)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
DtsTitleFunction(267)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(268)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Allocation (May, %)						
Table A						
GuiLinkTitleFunction(2793)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2794)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2795)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2796)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2797)	1495	1422	1788	2029	1918	2250
FRSA Contractors	1495	1422	1788	2029	1918	2250
null	1495	1422	1788	2029	1918	2250
Delivery (Jan - Dec, TAF/yr)						
North of Delta						
DtsTitleFunction(260)	0	0	0	0	0	0
DtsTitleFunction(261)	0	0	0	0	0	0
DtsTitleFunction(262)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(263)	0	0	0	0	0	0
DtsTitleFunction(264)	0	0	0	0	0	0
DtsTitleFunction(265)	0	0	0	0	0	0
Shortage (Dec, TAF/yr)						
North of Delta						
DtsTitleFunction(266)	0	0	0	0	0	0
DtsTitleFunction(267)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(268)	0	0	0	0	0	0

Project Operations (per Contract Year) - CVP

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Storage (May, TAF)																		
DtsTitleFunction(269)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(270)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allocation (May, %)																		
North of Delta																		
GuiLinkTitleFunction(2785)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2786)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2787)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2788)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delta & South of Delta																		
GuiLinkTitleFunction(2789)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2790)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2791)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2792)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delivery (Mar - Feb, TAF/yr)																		
North of Delta																		
DtsTitleFunction(244)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(245)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(246)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(247)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(248)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(249)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(250)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(251)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortage (Mar - Feb, TAF/yr)																		
North of Delta																		
DtsTitleFunction(252)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(254)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(256)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(257)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
DtsTitleFunction(258)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(259)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Storage (May, TAF)						
DtsTitleFunction(269)	0	0	0	0	0	0
DtsTitleFunction(270)	0	0	0	0	0	0
Allocation (May, %)						
North of Delta						
GuiLinkTitleFunction(2785)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2786)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2787)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2788)	1495	1422	1788	2029	1918	2250
Delta & South of Delta						
GuiLinkTitleFunction(2789)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2790)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2791)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2792)	1495	1422	1788	2029	1918	2250
Delivery (Mar - Feb, TAF/yr)						
North of Delta						
DtsTitleFunction(244)	0	0	0	0	0	0
DtsTitleFunction(245)	0	0	0	0	0	0
DtsTitleFunction(246)	0	0	0	0	0	0
DtsTitleFunction(247)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(248)	0	0	0	0	0	0
DtsTitleFunction(249)	0	0	0	0	0	0
DtsTitleFunction(250)	0	0	0	0	0	0
DtsTitleFunction(251)	0	0	0	0	0	0
Shortage (Mar - Feb, TAF/yr)						
North of Delta						

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
DtsTitleFunction(252)	0	0	0	0	0	0
DtsTitleFunction(253)	0	0	0	0	0	0
DtsTitleFunction(254)	0	0	0	0	0	0
DtsTitleFunction(255)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(256)	0	0	0	0	0	0
DtsTitleFunction(257)	0	0	0	0	0	0
DtsTitleFunction(258)	0	0	0	0	0	0
DtsTitleFunction(259)	0	0	0	0	0	0

Project Operations (per Contract Year) - SWP

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Storage (May, TAF)																		
GuiLinkTitleFunction(107)	2675	3209	2705	1475	2164	3301	3321	3367	3362	3284	3288	3273	2584	2632	2676	1258	1525	1558
GuiLinkTitleFunction(2727)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Allocation (May, %)																		
Table A																		
GuiLinkTitleFunction(2793)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2794)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2795)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2796)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
GuiLinkTitleFunction(2797)	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
FRSA Contractors	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
null	1844	2061	1704	1144	1704	2239	2282	2280	2210	2262	2272	2240	1004	1726	1566	767	1380	1093
Delivery (Jan - Dec, TAF/yr)																		
North of Delta																		
DtsTitleFunction(260)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(261)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(262)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(263)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(264)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
DtsTitleFunction(265)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shortage (Dec, TAF/yr)																		
North of Delta																		
DtsTitleFunction(266)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(267)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta & South of Delta																		
DtsTitleFunction(268)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Storage (May, TAF)						
GuiLinkTitleFunction(107)	1962	2324	2112	1914	2980	3011
GuiLinkTitleFunction(2727)	1495	1422	1788	2029	1918	2250
Allocation (May, %)						
Table A						
GuiLinkTitleFunction(2793)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2794)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2795)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2796)	1495	1422	1788	2029	1918	2250
GuiLinkTitleFunction(2797)	1495	1422	1788	2029	1918	2250
FRSA Contractors	1495	1422	1788	2029	1918	2250
null	1495	1422	1788	2029	1918	2250
Delivery (Jan - Dec, TAF/yr)						
North of Delta						
DtsTitleFunction(260)	0	0	0	0	0	0
DtsTitleFunction(261)	0	0	0	0	0	0
DtsTitleFunction(262)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(263)	0	0	0	0	0	0
DtsTitleFunction(264)	0	0	0	0	0	0
DtsTitleFunction(265)	0	0	0	0	0	0

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Shortage (Dec, TAF/yr)						
North of Delta						
DtsTitleFunction(266)	0	0	0	0	0	0
DtsTitleFunction(267)	0	0	0	0	0	0
Delta & South of Delta						
DtsTitleFunction(268)	0	0	0	0	0	0

CVP Allocation

CVP Annual Deliveries

CVP Annual Shortages

SWP Allocation

SWP Annual Deliveries

SWP Annual Shortage

SWP

8. Mass Balance

8.a. Summary of Mass Balance

Systemwide Summary

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
River Flow																		
GuiLinkTitleFunction(2821)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(203)	743	692	630	641	755	866	1011	951	823	852	962	882	326	543	674	426	920	547
GuiLinkTitleFunction(2822)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2823)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2826)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2828)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2830)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Delta Inflow																		
GuiLinkTitleFunction(2832)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2833)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2835)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(903)	4343	4268	3398	1590	2231	7619	6764	5610	6942	4851	1351	8364	4220	4403	4637	1800	1518	1413
Total Delta Outflow																		
GuiLinkTitleFunction(2836)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2837)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
Delta Exports																		
GuiLinkTitleFunction(2838)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2839)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2840)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
SWP Annual Deliveries																		
GuiLinkTitleFunction(2841)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2842)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
GuiLinkTitleFunction(2843)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885
CVP SOD Deliveries (w/ CVC)																		
GuiLinkTitleFunction(2844)	1574	1774	1444	946	1392	1968	2012	2062	1932	2074	2016	1922	833	1430	1376	583	1165	885

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
River Flow						
GuiLinkTitleFunction(2821)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(203)	706	529	622	899	806	734

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
GuiLinkTitleFunction(2822)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2823)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2826)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2828)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2830)	1251	1091	1519	1640	1810	2042
Delta Inflow						
GuiLinkTitleFunction(2832)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2833)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2835)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(903)	1504	2518	1628	2201	5090	2197
Total Delta Outflow						
GuiLinkTitleFunction(2836)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2837)	1251	1091	1519	1640	1810	2042
Delta Exports						
GuiLinkTitleFunction(2838)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2839)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2840)	1251	1091	1519	1640	1810	2042
SWP Annual Deliveries						
GuiLinkTitleFunction(2841)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2842)	1251	1091	1519	1640	1810	2042
GuiLinkTitleFunction(2843)	1251	1091	1519	1640	1810	2042
CVP SOD Deliveries (w/ CVC)						
GuiLinkTitleFunction(2844)	1251	1091	1519	1640	1810	2042

North of Delta Regional Mass Balance Summary

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Inflow																		
DtsTitleFunction(300)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(301)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(302)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(303)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
DtsTitleFunction(304)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(305)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Outflow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(307)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(308)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(309)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(310)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0
null	0	0	0	0	0	0
Inflow						
DtsTitleFunction(300)	0	0	0	0	0	0
DtsTitleFunction(301)	0	0	0	0	0	0
DtsTitleFunction(302)	0	0	0	0	0	0
DtsTitleFunction(303)	0	0	0	0	0	0
DtsTitleFunction(304)	0	0	0	0	0	0
DtsTitleFunction(305)	0	0	0	0	0	0
Outflow	0	0	0	0	0	0
null	0	0	0	0	0	0
DtsTitleFunction(307)	0	0	0	0	0	0
DtsTitleFunction(308)	0	0	0	0	0	0
DtsTitleFunction(309)	0	0	0	0	0	0
DtsTitleFunction(310)	0	0	0	0	0	0

Delta Regional Mass Balance Summary

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Delta Inflow																		
DtsTitleFunction(312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta Outlfow + Export																		
DtsTitleFunction(318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(320)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(324)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(325)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(326)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0
null	0	0	0	0	0	0
Delta Inflow						
DtsTitleFunction(312)	0	0	0	0	0	0
DtsTitleFunction(313)	0	0	0	0	0	0
DtsTitleFunction(314)	0	0	0	0	0	0
DtsTitleFunction(315)	0	0	0	0	0	0
DtsTitleFunction(316)	0	0	0	0	0	0
DtsTitleFunction(317)	0	0	0	0	0	0
Delta Outlfow + Export						
DtsTitleFunction(318)	0	0	0	0	0	0
DtsTitleFunction(319)	0	0	0	0	0	0
DtsTitleFunction(320)	0	0	0	0	0	0
DtsTitleFunction(321)	0	0	0	0	0	0
DtsTitleFunction(322)	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
DtsTitleFunction(323)	0	0	0	0	0	0
DtsTitleFunction(324)	0	0	0	0	0	0
DtsTitleFunction(325)	0	0	0	0	0	0
DtsTitleFunction(326)	0	0	0	0	0	0

South of Delta Regional Mass Balance Summary

TAF Jan-Dec	Lo	SAC Index					Wet Periods						Below			Critical		
	Jan	Abo	Bel	Criti	Dry	Wet	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
null	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta Inflow																		
DtsTitleFunction(312)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(313)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(314)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(315)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(316)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(317)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Delta Outlfow + Export																		
DtsTitleFunction(318)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(319)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(320)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(321)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(322)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(323)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(324)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(325)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DtsTitleFunction(326)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

TAF Jan-Dec	Crit	Dry			Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Balance	0	0	0	0	0	0
null	0	0	0	0	0	0

TAF Jan-Dec	Crit		Dry		Above	
	Jan	Jan	Jan	Jan	Jan	Jan
	Base	Base	Base	Base	Base	Base
Delta Inflow						
DtsTitleFunction(312)	0	0	0	0	0	0
DtsTitleFunction(313)	0	0	0	0	0	0
DtsTitleFunction(314)	0	0	0	0	0	0
DtsTitleFunction(315)	0	0	0	0	0	0
DtsTitleFunction(316)	0	0	0	0	0	0
DtsTitleFunction(317)	0	0	0	0	0	0
Delta Outlfow + Export						
DtsTitleFunction(318)	0	0	0	0	0	0
DtsTitleFunction(319)	0	0	0	0	0	0
DtsTitleFunction(320)	0	0	0	0	0	0
DtsTitleFunction(321)	0	0	0	0	0	0
DtsTitleFunction(322)	0	0	0	0	0	0
DtsTitleFunction(323)	0	0	0	0	0	0
DtsTitleFunction(324)	0	0	0	0	0	0
DtsTitleFunction(325)	0	0	0	0	0	0
DtsTitleFunction(326)	0	0	0	0	0	0

8.b. Control for Mass Balance

Mass Balance List

Base

Unbalanced Months

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