

Technical Addendum to The State Water Project Final Delivery Capability Report 2021

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Final DCR 2021 Technical Addendum

Introduction

The technical addendum is a supplemental document to the 2021 Delivery Capability Report (DCR) Existing and Future (Climate Change with 55 cm Sea Level Rise) conditions. This document presents a brief description of the model assumptions, updates, and state water project (SWP) contractor deliveries. The following items are discussed:

- CalSim 3 model updates
- CalSim 3 model assumptions
- Model input data
 - Article 21 demands
 - Table A amounts and Article 56 carryover
- SWP Final SOD Allocation Tables
- Article 21 deliveries analysis
- Appendix A - Simulation results for Existing Conditions
 - Annual delivery for Table A, Article 56, and Article 21
 - SWP contractor annual deliveries
- Appendix B - Simulation results for Future Conditions (Climate Change)
 - Climate change hydrology and sea-level rise assumptions
 - Annual delivery for Table A, Article 56, and Article 21
 - SWP contractor annual deliveries

CalSim 3 (CS3) Model Updates

2021 Delivery Capability Report (DCR)

This section outlines the updates to the CS3 model since the Joint Release by the Bureau of Reclamation (BOR) and the California Department of Water Resources (DWR) on July 2021 to develop the 2021 DCR study. This section is separated into three types of updates: (1) Reclamation updates, (2) DWR Updates, and (3) combined system updates.

Reclamation Updates

San Joaquin River Restoration Recapture (SJRRR)

Recapture of San Joaquin River Restoration flows, under the tenets of the SJRRR Program, is modeled along the SJR mainstem at West Stanislaus Irrigation District, Patterson Irrigation District, and Banta Carbona Irrigation District. Remaining SJRR flows entering the Delta can be recaptured at Jones or Banks Pumping Plants, as possible under all assumed physical and regulatory constraints. SJRR flows which cannot be recaptured contribute to surplus Delta Outflow.

Reclamation Updates to CVP Allocation Logic

Reclamation has updated and simplified CVP allocation logic in CS3 to enable better tailoring of CVP deliveries to available water supplies. North of the Delta, Sacramento River Settlement Contractor and Refuge allocations are based solely on the Shasta Index. CVP Ag Service Contract allocations are directly tied to CVP NOD storage and forecasted inflow to Shasta and Folsom. CVP MI Service Contracts follow the M&I shortage policy, relative to Ag allocations. South of the Delta, a seasonal water supply is calculated from San Luis Storage, James Bypass Inflows, and export capacity based on the Sac River Index. Water available to meet CVP service contracts is determined from this seasonal supply, given fixed allocations to Exchange Contractors and Refuges. User input is necessary to define the WSI-allocation curve for NOD allocation, and SRI-ExportEstimate and San Luis fill target curves which drive SOD allocation. These may need to be adapted for climate scenarios, regulatory changes, or new facilities, and adjustments should be made in consultation with the Central Valley Operations office to ensure compliance with agency perspectives.

Putah Creek Operations

Putah Creek operations have been updated to be consistent with the conditions of the water rights, flow requirements, Solano County shortage and allocation policy and included the Voluntary Agreement (VA) requirements.

Fall X2 Updates

Fall X2 logic has been updated so that in the UPSTREAM cycle, SWP and CVP project operations meet the criteria without specific guidelines release about whether the source of additional delta outflow comes from storage or export cuts. In subsequent cycles, the SWP action is held to be the model's solution for that balance, but the CVP action is examined to focus on meeting additional delta outflow with export cuts, if possible, without causing shortages, while also considering additional releases under high end-of-year storage conditions.

Knights Landing Operations

Knights Landing operations have been updated to prevent the model from assigning a value of 15000 CFS to Sacramento River flow just above the Colusa Basin Drain at Knights Landing (C_SAC097). This has been observed to happen in a few months in the PRESETUP cycle, and sometimes even starting in the earlier ground water cycles. During these months, the model evaluates optimal objective function values by assigning 15000 CFS to C_SAC097, closing the Colusa drain to Sacramento and increasing Knights Landing Ridge Cut. However, this is not a correct operation in the PRESETUP cycle in which one of the goals is to determine upstream control. The inflation of C_SAC097 to 15000 CFS is typically achieved by increasing Shasta discharge, typically with no increase in delta export or NDOI.

The current iteration of code updates that fixed this issue is as follow:

GW_Initial to GW_Fourth cycles: dynamic (default) gate operation at the Colusa Basin Drain at Knights Landing is allowed to proceed. However, penalty is assigned for Knights Landing Ridge Cut flow above the historical limit, to discourage the model from increasing C_SAC097, closing off the gate and increasing Knights Landing Ridge Cut.

Presetup cycle: Assume the Colusa drain gate open (INT_SAC097 = 1). Let the model determine C_SAC097 flow under the open gate assumption.

Setup cycle and beyond: Using C_SAC097[PRESETUP], determine if the Colusa drain gate is open or close. If C_SAC097[PRESETUP] less than 15000CFS, the gate opens. If C_SAC097[PRESETUP] greater than or equal to 15000CFS, the gate closes.

DWR Updates

Banks Pumping Plant 500 CFS Dedicated Capacity Update

In CS3, Banks physical capacity is 10,300 CFS but 6,680 CFS permitted capacity in all months up to 10,300 CFS during Dec 15 – Mar 15 depending on Vernalis flow conditions. Previously, additional capacity of 500 CFS (up to 7,180 CFS) is allowed for Jul – Sep for reducing impact of reduced exports due to OMR action and it's in addition to PermitCap1 or reserved from PermitCap2. Division of Operations and Maintenance suggested that Banks dedicated 500 CFS in the summer should be available not just in TRANSFERS-STAGE1 cycle but in earlier cycles as well.

Lower Yuba River Accord Operations (LYRA)

The Yuba Accord Operation updates in the Transfer cycle include the following:

- In every cycle prior TRANSFERS-STAGE1, LYRA groundwater substitution was subtracted at the Feather-Yuba confluence to prevent from circulating within system in earlier cycles to be consistent with surface water substitution.
- Updated Oroville transfer water storage to keep track of water being backed up in Oroville reservoir.
- Updated weight to encourage Banks to export Yuba Transferable water in dry years instead of backing up water in Oroville reservoir.

- Removed Shasta/Keswick backup and release mechanism since Shasta reservoir is not involved in Lower Yuba River Accord Operations.
- Removed 2008/2009 BiOp April and May SWP exports in the TRANSFERS_STAGE1 cycle.
- Constrained Yuba Transferrable water to be released starting from July each year.
- Fixed Fremont weir daily operations to the UPSTREAM cycle in order to be stable from DELTA to TRANSFERS-STAGE1.
- Updated Minimum Required Delta Outflow (MRDO) goals to pay the transfer carriage cost through correct arc.
- Fixed diversions, groundwater pumping, flows and operations that are not supposed to change in the TRANSFERS_STAGE1 cycle to the previous cycle to prevent unexpected changing of results.
- Updated Lower Yuba minimum flows, New Bullard's Bar carryover target, the Yuba River transfer (Yuba_Trans) timeseries, and Yuba River index logic.

State Water Project (SWP) San Luis Rule Curve

SWP San Luis rule curve updated to be consistent with the Delta Conveyance Project (DCP) baseline as follows:

- Introduced evaporation and loss rates monthly for SWP San Luis
- Added SWP San Luis demand and remaining demand for April and from October to November
- Devised new SWP rule curve logic that uses the new lookup tables and Oro-SWPSL coefficient
- Added SWP demands in April and from October to Nov (previously only used demands from May to September)
- Added new calculations for remaining demand from April to December
- Introduced a rule adjustment factor using series of coefficients based on month and water year type to balance Oroville storage

Updating Max Table A for Dudley Ridge and Mojave Water Agency

Dudley Ridge Table A decreased from 45,350 AF to 41,350 AF starting in 2020 while Mojave Water Agency Table A increased from 85,800 AF to 89,800 AF in 2020. Basically, there was a swap of 4000 AF between the two contractors.

South of Delta Arcs and Folder Renaming and Reconfiguration

The CS3 South of Delta (SOD) arcs were updated from the CalSim II (CSII) to CS3 naming convention. The CS3 naming convention uses milepost references to make the schematic more physically based. Regions updated include the South Bay Aqueduct, California Aqueduct below the joint use branch, Coastal Branch, East Branch, and West Branch. The data sources to rename CSII arcs to physically based mileposts are as follows:

1. State Water Project Data Handbook (Blue Book) – Used to map model schematic nodes to physical aqueduct conveyance facilities or delivery structures
2. DWR GIS Atlas – DWR's primary repository of vector spatial data

The other minor update is that the folder SystemTables_ALL was renamed to SystemTables_SOD.

There were three additional improvements in the SOD network:

1. Fix the placement of the Coastal Branch diversions from Kern County Water Agency (KCWA) and Santa Clarita Valley Water Agency (SCVWA). According to the Blue Book, SCVWA diversions occur first in the Coastal Branch around mile post 9 while KCWA diversions to Berrenda Mesa begin around milepost 13. The CSII and older CS3 schematic was showing the opposite placement of these diversions.
2. Add an additional node at the terminal California Aqueduct to distinguish the West and East Branch bifurcations. The CSII and older CS3 schematics only had one terminal node where both branches bifurcate.
3. Add a placeholder diversion to Green Valley Water District (wholesaler is County of Kings) at the Coastal Branch

Coastal Branch Channel Capacity

The Coastal Branch nodes were reviewed to determine whether the appropriate channel capacities were being applied. After the renaming of Coastal Branch, it was proposed and approved by Operations staff that the previously named C869 node (the last channel in the Coastal Branch, now called C_CSB038 in CS3) should have 71 CFS capacity. This channel arc is downstream of the Devil's Den Pumping Plant where Coastal Branch channel capacities start decreasing from 450 CFS to 100 CFS.

The rest of the Coastal Branch arcs (previously named as C866, C867, C868) still have the same 450 CFS upper bound. An external consultant reviewer proposed initially that C868 (now called C_CSB015) should reflect the Devil's Den pumping plant capacity of 134 CFS. However, after consulting with Operations staff, it was found that node 868 (old naming convention) diverts to Repayment Reach 31-A. This reach is still located upstream of Devil's Den pumping plant. As a result, C868's capacity will be kept to 450 CFS.

Carryover Spill Overestimation Fix

It was found that carryover spills were being overestimated in the early winter months of 1976. The overestimation is due to how unused Banks pumping capacity is calculated: the maximum of 6680 CFS minus the previous month pumping if San Luis storage was full.

However, this calculation did not consider that exports were lower because of salinity outflow requirements which means a specified amount of water needs to go out as Delta outflow instead of exports. To fix this, the approximate water available for export was added to the carryover spill calculation. This is basically the sum of surplus outflows for CVP and SWP.

Critical Year Allocation Cap

A generalized critical year allocation volume cap was implemented to calibrate 1976-1977 operations. 1976 is a unique critical year in that it has the highest allocation out of all the critical years in the simulation period. The reason for this is because 1976 is preceded by the 1975 wet year. The wet hydrology in 1975 results in high reservoir storage going into 1976. Due to the nature of the allocation logic, which is a function of reservoir storage, the 1976 allocation will be high if storage levels are high enough.

As a result, the 1976 operations heavily determine the 1977 allocation. 1977 is another critical year preceded by the unique 1976 critical year. 1977 allocation is driven by the remaining San Luis storage. Consequently, if 1976 had aggressive operations which led to higher allocations, then this usually leads to lower 1977 allocation. On the other hand, if 1976 operations were too conservative, this can lead to unrealistically high 1977 allocation. The critical year allocation cap serves to stabilize the balance of the two-year critical period of 1976-1977 so that the 1977 allocation is about 5%.

Combined System Updates

Minimum Flow Requirement on the Sacramento River at Hood

A minimum flow requirement was updated on the Sacramento River at Hood to maintain sufficient flow for allowing for estimated exports for both CVP and SWP only from June through August.

Negative Carriage Water Operation

Negative carriage water logic updated so that when Shasta and Oroville storages are low and water quality is being controlled by salinity constraints at Emmaton or Rock Slough stations, and excessive exports are not allowed beyond the PRESETUP cycle.

Reservoir Initial Conditions

Initial condition of reservoirs which historical data were available have updated by taking average of end of September storage in above years from 1991-2015 using the historical data. The reason why Above Normal years were chosen is that 1921 is an above normal year. Water year types are based on Sacramento Valley Water Year Hydrologic Classification Indices. Since the historical estimate relies on years of which are prior to the 2008/2009 BiOps, average of end of September storages of either Wet or Below Normal years that were bounding Above Normal years were used for SWP San Luis initial condition.

Weights and Penalties Readjustment

In CS3, to improve model stability when utilizing the CBC solver, the ratio of the maximum weight/penalty to the minimum weight/penalty resolution is recommended to be within the range of $10^7 - 10^9$. Investigation into a recent CS3 DCR study revealed the ratio to be the order of 10^{14} . Updates were made to the weights/penalties to reduce the ratio to 10^9 . Results of the reweighted (Alternative) study were compared to the original (Base) study. Comparison of key system parameters in the Base and the Alternative studies showed minor differences in long term annual averages. Additional sensitivity analysis performed suggest that the reweighted study was less sensitive to perturbations in weight assignments.

Kern and Pixley National Wildlife Refuge (NWR) Updates

- Conveyance losses for the Kern/Pixley refuge was updated. Conveyance losses, which are the responsibility of Reclamation are assumed to be 25%.
- Kern NWR contract amount was corrected in CVP_SOD_Contracts.table.
- Corrected the annual contract amounts disaggregation to monthly for Oct to Feb 1922.

San Luis Deadpool

San Luis deadpool values for CVP and SWP were updated based on Operations staff review. The previous and updated values are as follows:

San Luis deadpool component	Old value (TAF)	New value (TAF)
CVP	45	38
SWP	55	42

Old and Middle River (OMR) Index

This code update has two parts:

1. Using the OMR index from Hutton (2008) ¹ to estimate OMR flows consistent with SWP Operations
2. Correcting the south Delta net channel depletion

The first update uses an index to estimate OMR flows instead of using the physical flow based on the model mass balance equations. In real-time operations, OMR flows cannot be calculated daily. As a result, the OMR index from Hutton (2008) is used according to DWR (2017)². The equation is as follows:

$$OMR\ index\ (cfs) = A\ Q_{Vernalis} + B\ Q_{South\ Delta\ Diversions} + C$$

Where:

- $Q_{South\ Delta\ Diversions} = Q_{Clifton\ Court\ Forebay\ Intake} + Q_{Jones\ Pumping\ Plant\ Exports} + Q_{CCWD\ Diversions} + Q_{South\ Delta\ Net\ Channel\ Depletion}$
- $Q_{South\ Delta\ Net\ Channel\ Depletion} = 25\% Q_{Delta-wide\ Net\ Channel\ Depletion}$

Next, a typo on the south Delta net channel depletion was corrected. According to the OMR index, this is equal to 25% of the Delta-wide net channel depletion. Delta-wide net channel depletion is the Delta depletion minus Delta accretion based on DAYFLOW data. Overall, the fix was to subtract Delta-wide accretion from the depletion.

Other Updates

There were additional code fixes and improvements since the CS3 Joint Release.

- Changed the capacity for Lake Berryessa so that it is consistent with the recent bathymetric survey data
- Fixed Shasta and Oroville reservoir flood encroachments by preventing storage exceeding level 5

¹ Hutton, Paul. 2008. A model to estimate combined Old & Middle River flows.

² California Department of Water Resources (DWR). 2017. Old and Middle River Flow Review: USGS Gauge Readings versus Index Calculations for 2011 through 2017. Online: <https://cawaterlibrary.net/wp-content/uploads/2017/12/4-Old-and-Middle-River-Flow-Review.pdf>

- Removed an obsolete Artificial Neural Network (ANN) operational constraint, high carriage cost, in the ANN salinity control files
- Updated COIN-OR Branch-and-Cut (CBC) solver to fix Central Valley Project (CVP) South-of-Delta shortages
- Fixed CVP Municipal and Industrial (M&I) South-of-Delta allocation so that it doesn't exceed 100%
- Fixed a continuity error on the Westside of the San Joaquin River routing of CVP water to the refuges
- Corrected an error in the groundwater simulation in the San Joaquin in constraints-gwpumping.wresl
- Fixed an error in CacheCk.wresl ("C_CLRLK_Flood" changed to "C_CLRLK_FR")
- Fixed Vernalis water quality calculation to take into account the San Joaquin River Restoration Recapture (SJRRP) operation
- Used hard constrains to fix NDOI_ADD_ANN and NDOI_ADD_CVP in the TRANSFERS_STAGE1 cycle to the DELTA cycle in wheelfixes_DELTA.wresl file to stabilize mode results
- Corrected Oroville transfer water storage in the ITP cycle in the TransfersOps_Stg1_CalSim3_ITP.wresl file
- Fixed STORED_FS to the WHEELJPOD cycle in the ITP cycle in FixedOperations.wresl file.
- Modified El Nido allocation step function in Merced operations file to prevent slight precision difference from causing huge swing in results
- Used hard constrain to fix C_WKYTN in the TRANSFERS_STAGE1 and ITP cycles to the previous cycles in FixedOperations_TS.wresl and FixedOperations.wresl files
- Fixed cvp_pag_s, cvp_pmi_s, cvp_pex_s, cvp_prf_s, and cvp_pls_s to the WHEELJPOD cycle in the ITP cycle in the FixedDeliveries.wresl file
- Updated fixes to Lower Sacramento River flows for taking to account the ITP carryover in FixedFlowsTracked.wresl file
- Used hard constrain to fix C_CSL005_ANN to the WHEELJPOD cycle in the ITP cycle in FixedFlowsTracked.wresl file
- Removed fixes to C_YBP002, C_SACTot_ANN, S_OROVL in FixedFlowsTracked.wresl file
- Updated WRIMS2 libraries and groundwater dynamic link libraries (DLL)
- Fixed the Trinity additional flow release for Klamath to 413.25 cfs (TrinityMin.wresl)
- Fixed the clear_ck_min_PA.table comment to say that the water year type used is the Sac Valley 40-30-30 index instead of the Shasta index
- Merged Files
- Name Changes
 - Renamed units from 'IN' to 'INCHES'
 - Rename 'NFC' to 'NFM' for North Fork Cache Creek and North Fork Cosumnes River

For more details, please refer to the code change documentation Excel workbook in the "ExcelFiles" folder.

CalSim 3 Modeling Assumptions

The CS3 modeling assumptions and SWP and CVP contract amounts documentation are provided in the Delta Conveyance Project (DCP) Draft Environmental Impact Report (EIR) Appendix 5a, Modeling Technical Appendix, Section B – Hydrology and Systems Operations Modeling located here:

<https://cadwr.app.box.com/s/c1a3pdekwturhkt7ifkx4g0z38r4mlmz>.

For the CS3 SWP and CVP contract assumptions, please refer to Attachment 1, *CalSim 3 State Water Project and Central Valley Project Contract Assumptions*. For the CS3 regulatory assumptions and project operations criteria, please refer to Attachment 2, *CalSim 3 Regulatory Assumptions and State Water Project/Central Valley Project Operations Criteria*.

Model Input Data

Article 21 Demands

The Article 21 demands used in the 2021 SWP Delivery Capability Report (DCR) are shown in Table 1 and Table 2. These demands are similar to those used in the 2019 DCR Report. Table 1 shows the maximum monthly Article 21 caps that were assumed during normal hydrology conditions and Table 2 shows the Article 21 demand pattern caps during Kern wet years. A Kern wet year is defined as a year when the annual Kern River flow is greater than 1,500 TAF. There are nine Kern wet years in the simulation period of 1922 – 2015 (1941, 1952, 1969, 1978, 1980, 1983, 1986, 1995, and 1998). Future DCR will review and update the Kern wet year determination criteria.

Table 1. 2021 Monthly Maximums - DCR Article 21 Demands in Normal Years¹

Month	Kern County Water Agency Ag (TAF)	Other Ag (TAF)	Metropolitan Water District M&I (TAF)	North Bay Aqueduct M&I (TAF)	Other M&I (TAF)	Total (TAF)
Oct	0	0	0	6	0	6
Nov	122	38	0	6	0	166
Dec	122	41	0	6	0	169
Jan	122	54	142	6	30	355
Feb	122	54	142	6	34	358
Mar	122	54	142	6	53	377
Apr	122	54	142	6	48	372
May	122	52	142	6	40	362
Jun	122	38	0	6	51	217
Jul	0	0	0	6	41	48
Aug	0	0	0	6	1	7
Sep	0	0	0	6	0	6

1. Values shown are the maximum amount that can be taken monthly based on historical deliveries from 2005-2018 and historical requests from 2011, 2017, and 2019. Code updates included logic which also sets a secondary annual Article 21 cap (Table 1). The actual capability of SWP water contractors to take this amount of Article 21 is not the sum of these maximum monthly values.

Table 2. 2021 Monthly Maximums - DCR Article 21 Demands in Kern Wet Years

Month	Kern County Water Agency Ag (TAF)	Other Ag (TAF)	Metropolitan Water District M&I (TAF)	North Bay Aqueduct M&I (TAF)	Other M&I (TAF)	Total (TAF)
Oct	0	0	0	6	0	6
Nov	0	0	0	6	0	6
Dec	0	0	0	6	0	6
Jan	0	0	142	6	30	178
Feb	0	0	142	6	34	182
Mar	0	0	142	6	53	201
Apr	0	0	142	6	48	196
May	0	0	142	6	40	188
Jun	0	0	0	6	51	57
Jul	0	0	0	6	41	48
Aug	0	0	0	6	1	7
Sep	0	0	0	6	0	6

Table 3 shows the new Article 21 maximum lookup table. These values were derived by taking the maximum of two parameters:

1. Maximum Article 21 annual delivery from 2005-2018.
2. Maximum Article 21 annual requests from 2011, 2017, and 2019.

Then the resulting value was scaled up by 20% to ensure that Article 21 annual demands are not strictly determined by historical data.

Contractors have the whole contract year to get up to but no more than the Table 3 values. In summary, if a contractor received Article 21 deliveries equal to their annual cap only halfway through the contract year, their remaining Article 21 deliveries would be zero.

Table 3. 2021 DCR Article 21 Annual Maximums

SWP Contractor	Original Article 21 Annual Max (TAF) – Either the max annual delivery (2005-2018) or request (2011, 2017, 2019)	Final Article 21 Annual Max (TAF) – Scaled by 20%
ALAMEDA COUNTY FC&WCD-ZONE 7	0.91	1.09
ALAMEDA COUNTY WD	1.96	2.35
ANTELOPE VALLEY-EAST KERN WA	22.10	26.52
SANTA CLARITA VALLEY WA - AG	2.45	2.94
SANTA CLARITA VALLEY WA - MI	0.00	0.00
CITY OF YUBA CITY	1.19	1.43
COACHELLA VALLEY WD	12.12	14.54
COUNTY OF BUTTE	0.00	0.00
COUNTY OF KINGS	11.32	13.58
CRESTLINE-LAKE ARROWHEAD WA	0.00	0.00
DESERT WA	4.88	5.86
DUDLEY RIDGE WD	31.10	37.32
EMPIRE WEST SIDE ID	1.80	2.16
KERN COUNTY WA	453.08	543.69
LITTLE ROCK CREEK ID	0.00	0.00
METROPOLITAN WDSC	238.48	286.17
MOJAVE WA	0.00	0.00
NAPA COUNTY FC&WCD	6.43	7.71
OAK FLAT WD	0.04	0.05
PALMDALE WD	1.65	1.98
SAN BERNARDINO VALLEY MWD	3.68	4.41
SAN GABRIEL VALLEY MWD	4.60	5.52
SAN GORGONIO PASS WA	0.02	0.02
SAN LUIS OBISPO COUNTY FC&WCD	0.83	0.99
SANTA BARBARA COUNTY FC&WCD	6.81	8.17
SANTA CLARA VALLEY WD (VALLEY WATER)	26.77	32.12
SOLANO COUNTY WA	18.20	21.83
TULARE LAKE BASIN WSD	58.06	69.67
VENTURA COUNTY WPD	34.10	40.92

Table A Amounts and Article 56 Carryover

The State Water Project Contractors' Article 56 carryover request used in the 2021 DCR is shown in Table 4. The 2021 DCR Table A amounts reflect the 2021 maximum Table A contract as reported in the California State Water Project Bulletin 132-20¹. Meanwhile, Table A demand patterns and Article 56 requests are based on the 2014-2019 Initial Requests sent to the State Water Project Analysis Office (SWPAO) (Source: FIXED_BST_SWP_SOD_2021DCR_Oct2021_Public.xlsx).

¹ Management of the California State Water Project Bulletin 132-20: Appendix B – Data and Computations Used to Determine 2021 Water Charges

<https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Management/Bulletin-132/Bulletin-132/Files/B132-20-Appendix-B-10-07-2020-ADA-10-22-2020.pdf>

Table 4. 2021 DCR Table A Demand and Article 56 Carryover (Existing and Future Conditions)

Contractor Name	Table A amount (TAF)	Table A request for given demand level (TAF)				Article 56 request for given demand level (TAF)			
		100%	60%	50%	30%	100%	60%	50%	30%
		ALAMEDA COUNTY FC&WCD-ZONE 7	80.62	65.68	42.00	35.57	21.72	14.94	6.37
ALAMEDA COUNTY WD	42.00	29.51	18.90	17.30	10.68	12.49	6.30	3.70	1.92
ANTELOPE VALLEY-EAST KERN WA	144.84	81.39	73.64	65.09	40.99	63.45	13.26	7.33	2.46
SANTA CLARITA WA - AG	12.70	12.70	7.62	3.93	2.70	0	0	2.42	1.11
CITY OF YUBA CITY	9.60	4.80	4.39	4.21	2.88	4.80	1.37	0.59	0
COACHELLA VALLEY WD	138.35	69.18	73.33	63.41	41.51	69.18	9.68	5.76	0
COUNTY OF BUTTE	27.50	27.50	16.50	13.75	8.25	0	0	0	0
COUNTY OF KINGS	9.31	9.30	5.58	4.65	2.79	0	0	0	0
CRESTLINE-LAKE ARROWHEAD WA	5.80	2.90	2.57	2.42	1.51	2.90	0.91	0.48	0.23
DESERT WA	55.75	27.88	29.55	25.09	16.73	27.88	3.90	2.79	0
DUDLEY RIDGE WD	41.35	30.60	20.84	17.86	11.54	10.75	3.97	2.81	0.87
EMPIRE WEST SIDE ID	3.00	2.63	1.70	1.44	0.89	0.38	0.10	0.06	0.01
KERN COUNTY WA - AG	848.13	766.73	493.44	417.42	252.92	81.40	15.44	6.65	1.51
LITTLEROCK CREEK ID	2.30	2.30	1.38	1.15	0.69	0	0	0	0
METROPOLITAN WDSC	1911.50	1711.50	1078.03	905.75	543.45	200.00	68.87	50.00	30.00
MOJAVE WA	89.80	50.29	38.45	39.13	25.01	39.51	15.43	5.77	1.93
NAPA COUNTY FC&WCD	29.03	17.68	12.62	10.88	7.29	11.35	4.79	3.63	1.41
OAK FLAT WD	5.70	2.98	2.51	2.34	1.57	2.72	0.91	0.51	0.14
PALMDALE WD	21.30	21.30	10.23	9.69	5.99	0	2.55	0.96	0.40
SAN BERNARDINO VALLEY MWD	102.60	92.60	58.00	48.84	29.91	10.00	3.56	2.46	0.87
SAN GABRIEL VALLEY MWD	28.80	28.80	17.28	14.40	8.64	0	0	0	0
SAN GORGONIO PASS WA	17.30	13.14	9.52	8.10	4.99	4.16	0.86	0.55	0.20
SAN LUIS OBISPO COUNTY FC&WCD	25.00	13.59	10.41	9.79	6.34	11.41	4.59	2.71	1.16
SANTA BARBARA COUNTY FC&WCD	45.49	34.96	26.52	22.36	13.65	10.53	0.77	0.39	
SANTA CLARA VALLEY WD (VALLEY WATER)	100.00	80.74	57.71	48.49	29.64	19.26	2.29	1.51	0.36
SOLANO COUNTY WA	47.76	23.89	22.33	20.89	13.62	23.87	6.32	2.98	0.70
TULARE LAKE BASIN WSD	87.47	87.47	52.48	43.74	26.24	0	0	0	0
VENTURA COUNTY WPD	20.00	20.00	12.00	10.00	6.00	0	0	0	0
KERN COUNTY WA - MI	134.60	134.60	80.76	67.30	40.38	0	0	0	0
SANTA CLARITA WA - MI	82.50	34.41	38.47	38.83	24.75	48.09	11.03	2.42	0
Total	4,170.09	3,501.03	2,318.79	1,973.84	1,203.28	669.06	183.26	111.20	47.75

SWP Final SOD Allocation Tables

This section was added in response to comments 1 and 2 from the SWC which request for raw final allocation numbers. Table 5 shows the long term and wet period drought average allocations. Table 6 shows the long term and dry period drought average allocations.

Table 5. Estimated Average Wet-Period SWP South of Delta Final May Allocation (Existing Conditions)

Report	Long-term Average	Single Wet Year (1983)	Single Wet Year (2006)	2-Year (1982-1983)	4-Year (1980-1983)	6-Year (1978-1983)	10-Year (1978-1987)
2019 DCR (1922-2003)	59%	100%	-	100%	86%	82%	74%
2021 DCR (1922-2015)	57%	100%	100%	100%	82%	79%	72%

Table 6. Estimated Average Dry-Period SWP South of Delta Final May Allocation (Existing Conditions)

Report	Long-term Average	Single Dry Year (1977)	Single Dry Year (2014)	2-Year Drought (1976-1977)	2-Year Drought (2014-2015)	4-Year Drought (1931-1934)	6-Year Drought (1987-1992)	6-Year Drought (1929-1934)
2019 DCR (1922-2003)	59%	6%	-	34%	-	30%	26%	27%
2021 DCR (1922-2015)	57%	3%	5%	30%	18%	21%	26%	24%

Article 21 Deliveries Analysis

This section responds to the following State Water Contractor (SWC) comment made to the Draft DCR 2021:

“Additional information would be appreciated on the reason behind the reduction in frequency of Article 21 deliveries (e.g., 20% less likely to receive Article 21 between 20-700 TAF)”

Figure 1 depicts that the delivery of Article 21 deliveries above 20 TAF decreased by 21%.

Key Findings

Article 21 deliveries greater than 20 TAF are less frequent in 2021 DCR because SWP San Luis is less frequently full and is generally lower compared to 2019 DCR

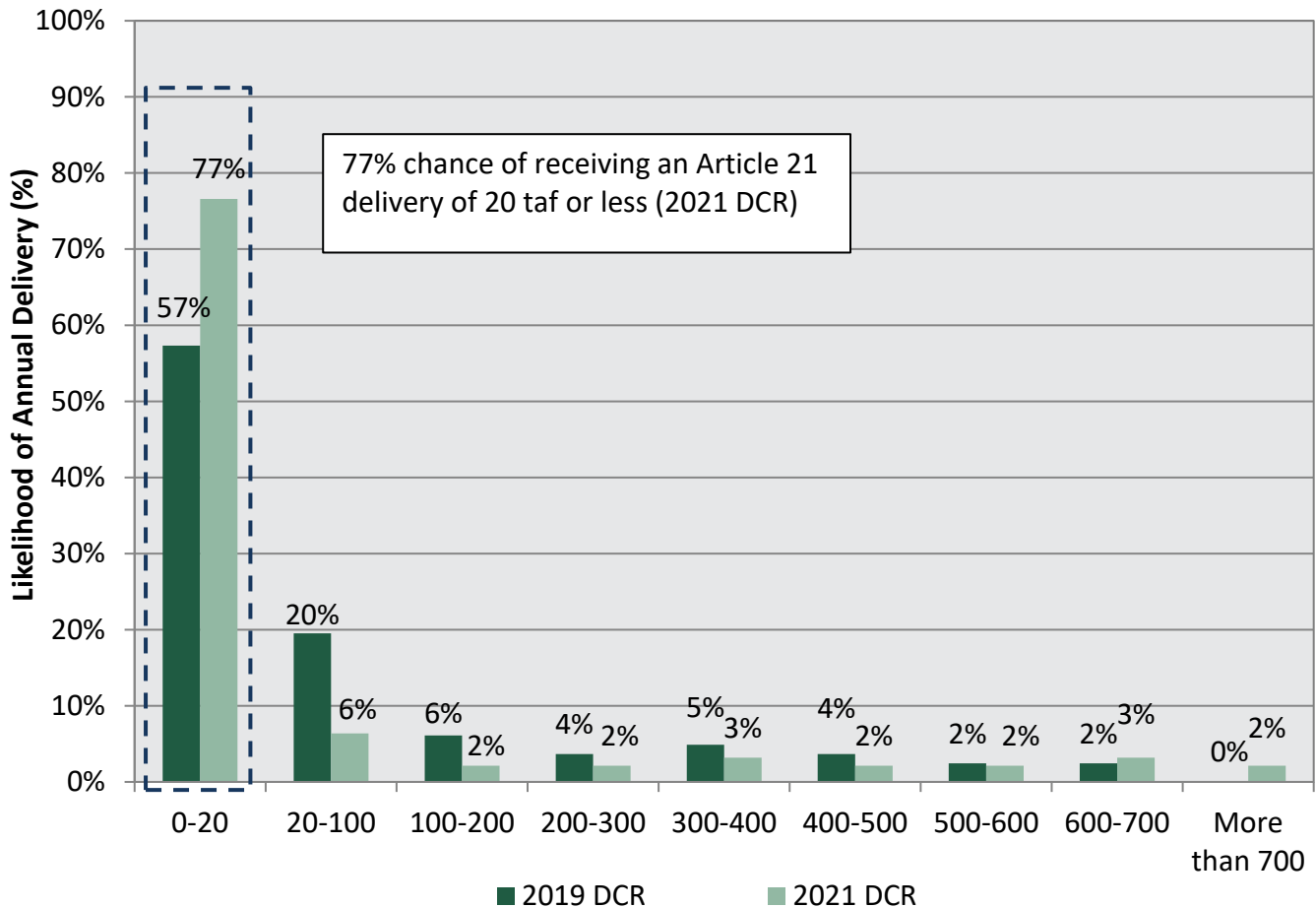


Figure 1. Likelihood of Annual Article 21 deliveries in 2019 and 2021 DCR.

Approach

Article 21 is delivered under specific conditions in the model:

1. North Bay Aqueduct deliveries are dependent on excess delta outflow availability
2. San Luis reservoir is at capacity (1067 TAF)
3. Capacity is available at Banks pumping plant and California Aqueduct

Condition 1 indicates that if excess (surplus) delta outflow is lower in 2021 DCR, then North Bay Aqueduct Article 21 deliveries must be lower.

Condition 2 indicates that if the frequency of San Luis reservoir at capacity in 2021 DCR is lower, then Article 21 deliveries will be lower in the south of Delta region.

Condition 3 indicates that if the frequency of Banks pumping plant and California Aqueduct flows at capacity is higher, then that could result in lower Article 21 deliveries.

For the next section, all three conditions will be evaluated to determine the reasons why Article 21 deliveries over 20 TAF are lower in 2021 DCR.

Results and Discussion

Condition 1

Figure 2 and Figure show that surplus outflow from the CVP and SWP are lower in the select wet periods in the 2021 DCR (red bars). As a result, North Bay Aqueduct Article 21 deliveries are lower as well as shown in Figure .

Additional outflow from CVP
Oct - Sep
Averages

Period	Scenario	TAF	Diff From 2019 DCR
Long Term	2019 DCR (CalSim2)	5,840	
	2021 DCR (CalSim3)	5,259	-581.7
Wet Periods - 1980 - 1983	2019 DCR (CalSim2)	15,629	
	2021 DCR (CalSim3)	14,561	-1,068
Wet Periods - 1983	2019 DCR (CalSim2)	31,599	
	2021 DCR (CalSim3)	30,471	-1,128

Figure 2. 2019 and 2021 DCR Surplus outflow from CVP in the long term and 1980-1983, 1983 wet periods in TAF.

Additional outflow from SWP
Oct - Sep
Averages

Period	Scenario	TAF	Diff From 2019 DCR
Long Term	2019 DCR (CalSim2)	4,866	
	2021 DCR (CalSim3)	4,419	-447.3
Wet Periods - 1980 - 1983	2019 DCR (CalSim2)	11,963	
	2021 DCR (CalSim3)	11,330	-633.0
Wet Periods - 1983	2019 DCR (CalSim2)	24,212	
	2021 DCR (CalSim3)	23,692	-520.0

Figure 3. 2019 and 2021 DCR Surplus outflow from SWP in the long term and 1980-1983, 1983 wet periods in TAF.

North Bay Aqueduct Deliveries
Oct - Sep
Averages

Period	Scenario	TAF	Diff From 2019 DCR
Long Term	2019 DCR (CalSim2)	12.3	
	2021 DCR (CalSim3)	6.06	-6.20
Wet Periods - 1980 - 1983	2019 DCR (CalSim2)	14.3	
	2021 DCR (CalSim3)	7.71	-6.55
Wet Periods - 1983	2019 DCR (CalSim2)	10.5	
	2021 DCR (CalSim3)	7.71	-2.82

Figure 4. North Bay Aqueduct Article 21 deliveries in the long term and 1980-1983, 1983 wet periods in TAF.

Condition 2

Table 7 summarizes the differences in months of SWP San Luis at capacity and corresponding Article 21 deliveries between both DCR studies. There were 64 months that San Luis was at capacity in 2019 DCR while there were only 56 months for 2021 DCR (Table 8).

When San Luis was full in 2019 DCR but not in 2021 DCR, the average Article 21 deliveries for 2019 DCR was 74 TAF although the deliveries could be as high as 317 TAF as seen in March 1937. On the other hand, during the same months, the average Article 21 deliveries in 2021 DCR were only about 1 TAF.

In summary, the main reason why there are less occurrence of Article 21 deliveries over 20 TAF is because San Luis is less likely to be full in 2021 DCR. This is because overall San Luis is also lower in general in 2021 DCR as shown in Figure .

Condition 3

The last condition to check is whether Banks pumping plant and SOD conveyance channels tend to be constrained by capacity in 2021 DCR which could then limit Article 21 delivery opportunities. Table 8 shows that this is not the case. Banks pumping plant is less often at capacity by 52 months in 2021 DCR.

As for the SOD conveyance capacities, the capacities between 2019 and 2021 DCR did not change in the South Bay Aqueduct, California Aqueduct, West Branch, and East Branch. There was one Coastal Branch terminal channel whose capacity was reduced in 2021 DCR based on a code review. Please refer to section Coastal Branch Channel Capacity for more information. In summary, the reduction of channel capacity leading to Santa Barbara diversions can be a reason why this contractor’s Article 21 deliveries is lower. But not for the other contractors. Overall, condition 3 is not a major reason why Article 21 deliveries are lower in 2021 DCR.

Table 7. Months when SWP San Luis was full in DCR 2019 but not in DCR 2021 and the corresponding Article 21 deliveries (all in TAF).

Date	2019 DCR SWP San Luis	2021 DCR SWP San Luis	2019 DCR Article 21 deliveries	2021 DCR Article 21 deliveries
Jan-31	1067	438	33	1
Feb-31	1067	548	132	0
Mar-31	1067	550	0	0
Mar-33	1067	932	65	0
Feb-37	1067	654	69	1
Mar-37	1067	858	317	1
Apr-41	1067	1019	99	1
Apr-52	1067	844	107	1
May-52	1067	888	106	2
Feb-55	1067	668	6	1
Mar-55	1067	687	45	1
May-58	1067	1021	76	2
Jan-69	1067	811	56	1
Dec-84	1067	1019	4	1
Jan-85	1067	962	42	1
Feb-85	1067	907	104	1
Mar-85	1067	875	48	1
Feb-00	1067	1009	68	1
Mar-00	1067	1018	89	1

Table 8. Frequency of Banks pumping plant or SWP San Luis at capacity from Oct 1921 to Sep 2003.

Metric	DCR2019 (CalSim2)	DCR2021 (CalSim3)	Diff
Months Banks PP at capacity	185	133	-52
Months SWP SL at capacity	64	59	-5

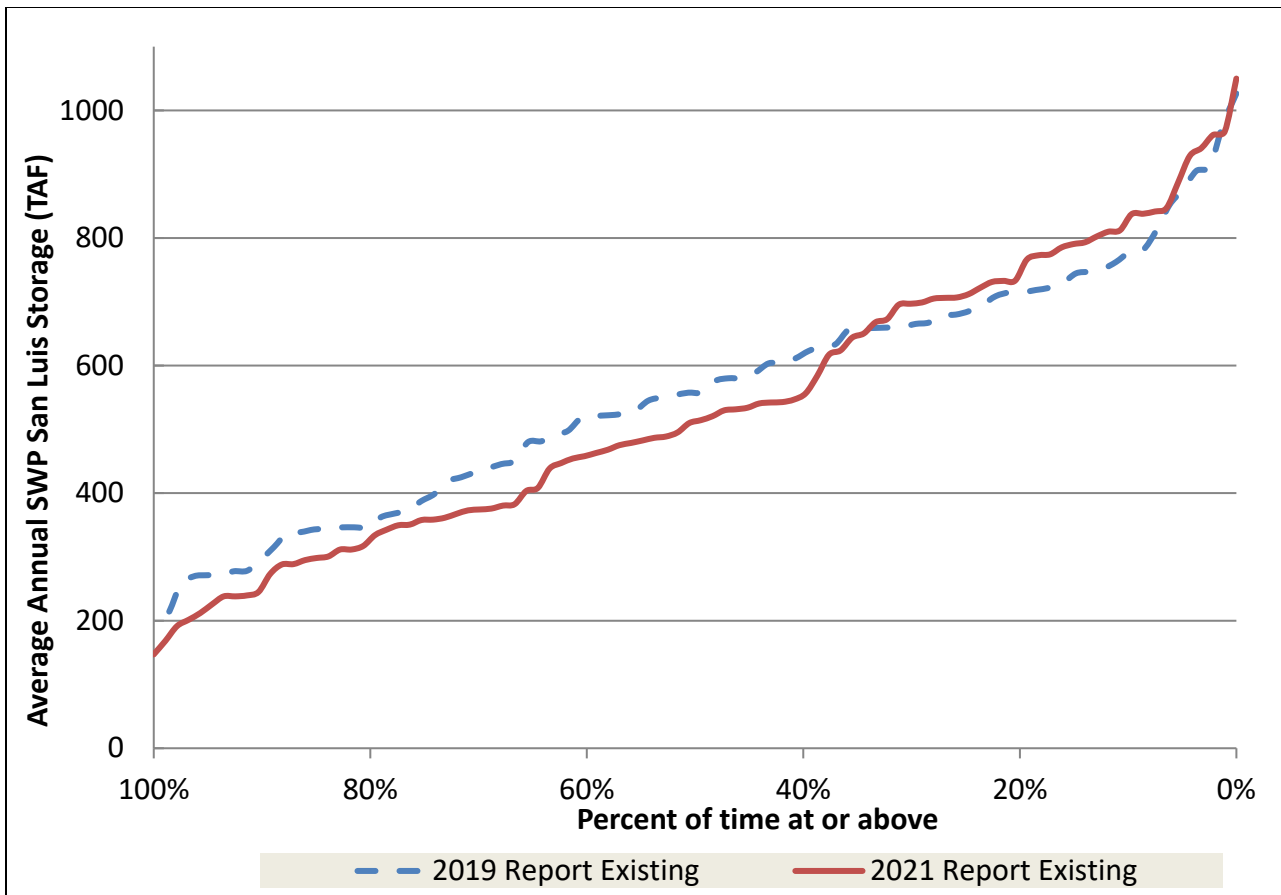


Figure 5. Exceedance curve of average annual SWP San Luis storage between 2019 and 2021 DCR.



Appendix A: Existing Conditions

Appendix A: Existing Conditions

Simulation Results for Existing Conditions

The deliveries shown in this report, as with previous report updates, only include those State Water Project Contractors that rely on delivery of water from the Sacramento-San Joaquin Delta; therefore, State Water Project Contractors in the Feather River area and upstream (i.e., Butte County, Plumas County Flood Control and Water Conservation District, and Yuba City) are excluded from this analysis. This section of the Technical Addendum presents results for the Existing Conditions scenario.

SWP Table A Deliveries

Figure A-1 shows a comparison of SWP Table A delivery exceedance curves from the 2019 report update and the 2021 update. The Table A deliveries for State Water Project Contractors under Existing Conditions are shown in Table A-1 on the following page. The results for individual Contractor Table A deliveries are included at the end of this appendix.

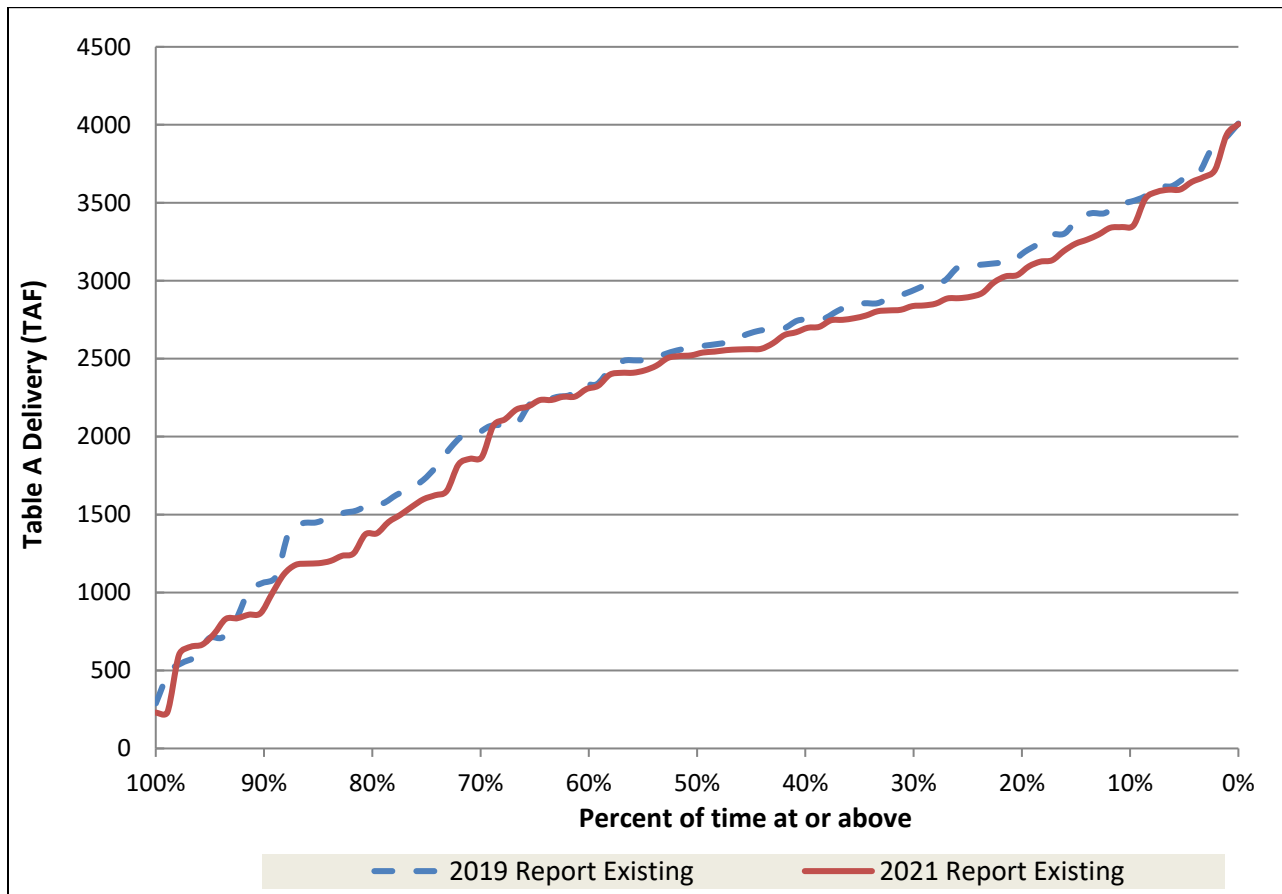


Figure A-1. Comparison of SWP Table A Delivery Probability for Existing Conditions

How to interpret Table A-1 SWP Deliveries

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
1922	4,133	2,595	63%	1983	4,008	0%	97%

Contract Year from January to December

The Maximum Annual Table A. Assume that demands are always the maximum which is 4,133 TAF.

Actual Table A from current contract year and Article 56 from current contract year delivered (except for Feather River deliveries). This means that the Article 56 delivered in this year was requested in the previous contract year.

Annual Volume divided by the SWP Table A demands maximum amount of 4,133 TAF.

Table A-1. SWP Table A Deliveries for Existing Conditions

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
1922	4,133	2,598	63%	2006	4,004	0%	97%
1923	4,133	2,813	68%	1983	3,937	1%	95%
1924	4,133	995	24%	1998	3,712	2%	90%
1925	4,133	1,202	29%	1938	3,664	3%	89%
1926	4,133	1,821	44%	1969	3,634	4%	88%
1927	4,133	2,555	62%	1982	3,585	5%	87%
1928	4,133	2,669	65%	1958	3,584	6%	87%
1929	4,133	1,177	28%	2011	3,570	8%	86%
1930	4,133	1,452	35%	1995	3,526	9%	85%
1931	4,133	830	20%	1941	3,356	10%	81%
1932	4,133	734	18%	1952	3,344	11%	81%
1933	4,133	1,373	33%	1996	3,340	12%	81%
1934	4,133	666	16%	1943	3,297	13%	80%
1935	4,133	2,561	62%	1967	3,263	14%	79%
1936	4,133	2,305	56%	1942	3,237	15%	78%
1937	4,133	2,455	59%	1999	3,190	16%	77%
1938	4,133	3,664	89%	1970	3,131	17%	76%
1939	4,133	2,539	61%	1984	3,122	18%	76%
1940	4,133	2,111	51%	1980	3,092	19%	75%
1941	4,133	3,356	81%	1978	3,036	20%	73%
1942	4,133	3,237	78%	1956	3,028	22%	73%
1943	4,133	3,297	80%	2005	2,989	23%	72%
1944	4,133	1,550	38%	2000	2,921	24%	71%
1945	4,133	2,651	64%	2007	2,897	25%	70%
1946	4,133	2,746	66%	1985	2,888	26%	70%
1947	4,133	2,326	56%	1979	2,886	27%	70%
1948	4,133	1,858	45%	1975	2,853	28%	69%
1949	4,133	1,380	33%	1986	2,841	29%	69%
1950	4,133	2,070	50%	1953	2,837	30%	69%
1951	4,133	2,759	67%	1923	2,813	31%	68%
1952	4,133	3,344	81%	1973	2,810	32%	68%
1953	4,133	2,837	69%	1974	2,804	33%	68%
1954	4,133	2,563	62%	1966	2,777	34%	67%
1955	4,133	1,188	29%	1951	2,759	35%	67%
1956	4,133	3,028	73%	1997	2,749	37%	67%
1957	4,133	2,505	61%	1946	2,746	38%	66%
1958	4,133	3,584	87%	2012	2,704	39%	65%
1959	4,133	2,425	59%	1968	2,698	40%	65%
1960	4,133	2,175	53%	1928	2,669	41%	65%
1961	4,133	1,116	27%	1945	2,651	42%	64%
1962	4,133	2,256	55%	1922	2,598	43%	63%
1963	4,133	2,397	58%	1954	2,563	44%	62%
1964	4,133	2,545	62%	1935	2,561	45%	62%
1965	4,133	1,652	40%	1993	2,559	46%	62%

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
1966	4,133	2,777	67%	1927	2,555	47%	62%
1967	4,133	3,263	79%	1964	2,545	48%	62%
1968	4,133	2,698	65%	1939	2,539	49%	61%
1969	4,133	3,634	88%	1976	2,521	51%	61%
1970	4,133	3,131	76%	1972	2,517	52%	61%
1971	4,133	2,235	54%	1957	2,505	53%	61%
1972	4,133	2,517	61%	1937	2,455	54%	59%
1973	4,133	2,810	68%	1959	2,425	55%	59%
1974	4,133	2,804	68%	2004	2,410	56%	58%
1975	4,133	2,853	69%	1989	2,409	57%	58%
1976	4,133	2,521	61%	1963	2,397	58%	58%
1977	4,133	233	6%	1947	2,326	59%	56%
1978	4,133	3,036	73%	1936	2,305	60%	56%
1979	4,133	2,886	70%	2002	2,257	61%	55%
1980	4,133	3,092	75%	1962	2,256	62%	55%
1981	4,133	2,234	54%	1971	2,235	63%	54%
1982	4,133	3,585	87%	1981	2,234	65%	54%
1983	4,133	3,937	95%	2010	2,194	66%	53%
1984	4,133	3,122	76%	1960	2,175	67%	53%
1985	4,133	2,888	70%	1940	2,111	68%	51%
1986	4,133	2,841	69%	1950	2,070	69%	50%
1987	4,133	1,624	39%	2013	1,868	70%	45%
1988	4,133	652	16%	1948	1,858	71%	45%
1989	4,133	2,409	58%	1926	1,821	72%	44%
1990	4,133	858	21%	1965	1,652	73%	40%
1991	4,133	600	15%	1987	1,624	74%	39%
1992	4,133	835	20%	1994	1,598	75%	39%
1993	4,133	2,559	62%	1944	1,550	76%	38%
1994	4,133	1,598	39%	2003	1,498	77%	36%
1995	4,133	3,526	85%	1930	1,452	78%	35%
1996	4,133	3,340	81%	1949	1,380	80%	33%
1997	4,133	2,749	67%	1933	1,373	81%	33%
1998	4,133	3,712	90%	2009	1,252	82%	30%
1999	4,133	3,190	77%	2001	1,236	83%	30%
2000	4,133	2,921	71%	1925	1,202	84%	29%
2001	4,133	1,236	30%	1955	1,188	85%	29%
2002	4,133	2,257	55%	2015	1,185	86%	29%
2003	4,133	1,498	36%	1929	1,177	87%	28%
2004	4,133	2,410	58%	1961	1,116	88%	27%
2005	4,133	2,989	72%	1924	995	89%	24%
2006	4,133	4,004	97%	2008	867	90%	21%
2007	4,133	2,897	70%	1990	858	91%	21%
2008	4,133	867	21%	1992	835	92%	20%
2009	4,133	1,252	30%	1931	830	94%	20%
2010	4,133	2,194	53%	1932	734	95%	18%
2011	4,133	3,570	86%	1934	666	96%	16%

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
2012	4,133	2,704	65%	1988	652	97%	16%
2013	4,133	1,868	45%	1991	600	98%	15%
2014	4,133	230	6%	1977	233	99%	6%
2015	4,133	1,185	29%	2014	230	100%	6%
Average	4,133	2,321	56%	Average	2,321		56%
Minimum	4,133	230	6%	Minimum	230		6%
Maximum	4,133	4,004	97%	Maximum	4,004		97%

Article 21 Deliveries

Table A-2 below shows the State Water Project Contractors' Article 21 deliveries for the Existing Conditions scenario.

Table A-2. Article 21 Deliveries for Existing Conditions

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										0	1	1	3
1922	1	1	1	1	2	1	1	0	0	0	0	0	9
1923	1	0	1	1	2	0	1	0	0	0	0	0	7
1924	0	1	0	0	1	0	1	0	0	0	0	0	3
1925	1	1	0	1	2	0	1	0	0	0	0	0	7
1926	1	1	0	1	1	0	1	0	0	0	1	0	7
1927	1	1	1	1	2	1	1	0	0	0	0	0	9
1928	1	1	1	1	1	1	1	0	0	0	1	0	9
1929	1	1	0	0	2	0	1	0	0	0	1	0	7
1930	1	1	1	0	1	0	1	0	0	0	1	0	7
1931	1	0	0	0	2	0	1	0	0	0	0	1	5
1932	1	1	0	0	2	0	1	0	0	0	1	1	7
1933	0	0	0	0	2	0	1	0	0	0	1	1	5
1934	1	1	0	0	1	0	1	0	0	0	0	0	4
1935	1	1	1	1	1	0	1	0	0	0	0	0	7
1936	1	1	1	1	2	1	1	0	0	0	0	0	9
1937	0	1	1	1	2	0	1	0	0	0	1	1	9
1938	1	1	285	217	157	1	1	0	0	0	0	0	664
1939	0	1	1	0	1	1	1	0	0	0	0	0	5
1940	1	1	1	1	2	1	1	0	0	0	0	0	9
1941	1	1	1	1	2	1	1	0	0	0	0	0	9
1942	1	1	1	1	2	1	1	0	0	0	0	0	9
1943	1	1	69	1	2	0	1	0	0	0	0	0	75
1944	1	1	1	1	1	0	1	0	0	0	0	1	8
1945	0	1	1	1	2	0	1	0	0	0	0	1	8
1946	1	0	1	1	2	0	1	0	0	0	0	0	7
1947	1	1	1	0	1	0	1	0	0	0	0	0	5
1948	1	0	1	1	2	1	1	0	0	0	0	0	8
1949	1	0	1	0	1	0	1	0	0	0	0	0	4
1950	1	1	1	1	1	0	1	0	0	0	1	135	143
1951	283	309	64	1	2	1	1	0	0	0	0	0	661
1952	1	1	1	1	2	1	1	0	0	0	0	0	9
1953	1	1	1	1	2	1	1	0	0	0	0	0	9
1954	1	1	1	1	1	1	1	0	0	0	1	0	9
1955	1	0	1	0	1	0	1	0	0	0	0	1	5
1956	65	237	131	1	2	1	1	0	0	0	0	0	437
1957	1	1	1	0	2	0	1	0	0	0	0	1	8
1958	1	106	304	202	2	1	1	0	0	0	0	0	618
1959	1	1	1	0	1	1	1	0	0	0	0	0	7
1960	1	1	1	0	1	0	1	0	0	0	0	1	7
1961	1	1	1	0	1	0	1	0	0	0	0	1	7
1962	0	1	1	1	1	0	1	0	0	1	0	1	8
1963	1	1	1	1	2	0	1	0	0	0	1	0	9
1964	1	0	0	0	1	0	1	0	0	0	0	1	4

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1965	1	1	1	1	2	1	1	0	0	0	0	71	80
1966	36	86	10	1	1	1	1	0	0	0	0	1	137
1967	1	1	1	1	2	1	1	0	0	0	0	0	9
1968	1	1	1	0	1	1	1	0	0	0	0	1	8
1969	1	84	156	110	26	1	1	0	0	0	0	0	379
1970	165	91	128	1	2	1	1	0	0	0	0	0	389
1971	1	0	1	1	2	1	1	0	0	0	0	1	9
1972	1	1	1	0	2	0	1	0	0	0	1	1	9
1973	1	1	1	1	2	0	1	0	0	0	1	0	9
1974	1	1	1	1	2	1	1	0	0	0	0	0	9
1975	0	1	1	1	2	1	1	0	0	0	0	0	8
1976	0	0	1	0	1	1	1	0	0	0	0	0	4
1977	0	0	0	0	1	0	1	0	0	0	0	1	3
1978	1	1	1	1	2	1	1	0	0	0	0	0	9
1979	1	1	1	1	2	0	1	0	0	0	0	0	8
1980	1	91	159	1	2	1	1	0	0	0	0	0	256
1981	1	1	1	1	1	0	1	0	0	0	1	1	9
1982	1	1	44	189	2	1	1	0	0	0	0	0	239
1983	2	18	156	112	76	33	10	0	0	0	24	163	593
1984	178	160	75	1	2	0	1	0	0	0	1	0	419
1985	1	1	1	1	1	0	1	0	0	0	0	0	7
1986	1	1	92	1	2	1	1	0	0	0	0	0	100
1987	1	1	1	0	1	0	1	0	0	0	0	1	7
1988	1	0	0	0	1	0	1	0	0	0	0	0	3
1989	0	0	1	0	1	0	1	0	0	0	0	0	3
1990	1	0	1	0	1	0	1	0	0	0	1	0	5
1991	0	1	1	0	1	0	1	0	0	0	0	0	4
1992	1	1	1	0	1	0	1	0	0	0	0	1	7
1993	1	1	1	1	2	1	1	0	0	0	0	0	9
1994	1	1	0	0	1	0	1	0	0	0	0	0	4
1995	1	1	1	1	39	1	1	0	0	0	0	0	46
1996	1	1	16	1	2	1	1	0	0	0	0	45	69
1997	206	295	217	1	2	1	1	0	0	0	0	0	723
1998	1	63	156	111	48	1	1	0	0	0	0	0	380
1999	1	1	1	1	2	1	1	0	0	0	0	0	9
2000	1	1	1	1	2	1	1	0	0	0	0	0	9
2001	1	1	1	0	1	0	1	0	0	0	0	1	7
2002	1	0	1	0	2	0	1	0	0	0	0	1	7
2003	1	1	1	1	2	1	1	0	0	0	0	0	9
2004	1	1	1	0	2	1	1	0	0	0	0	1	9
2005	1	1	1	1	2	1	1	0	0	0	0	0	9
2006	1	1	203	185	127	1	1	0	0	0	0	0	520
2007	1	1	1	0	1	1	1	0	0	0	0	0	7
2008	1	1	0	0	1	0	1	0	0	0	1	0	5
2009	0	1	1	0	2	0	1	0	0	0	0	0	5
2010	1	1	1	1	2	1	1	0	0	0	0	30	39
2011	183	310	261	166	2	1	1	0	0	0	0	0	924
2012	1	0	1	1	1	0	1	0	0	0	0	1	7
2013	1	0	1	0	1	1	1	0	0	0	1	0	7

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2014	0	1	1	0	1	0	1	0	0	0	0	1	5
2015	0	1	0	0	1	0	1	0	0				4
Average	13	21	28	14	6	1	1	0	0	0	0	5	88
Minimum	0	0	0	0	1	0	1	0	0	0	0	0	3
Maximum	283	310	304	217	157	33	10	0	0	1	24	163	924

SWP Exports from the Sacramento-San Joaquin Delta

Table A-3 below shows the SWP Exports from the Delta for the Existing Conditions scenario.

Table A-3. SWP Exports for Existing Conditions

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										147	451	451	1,049
1922	188	270	262	51	166	231	441	421	140	190	397	231	2,990
1923	178	155	133	102	38	114	441	419	346	196	129	143	2,395
1924	195	151	18	43	44	18	18	18	18	142	118	274	1,057
1925	256	152	114	36	39	77	78	64	199	83	79	125	1,300
1926	162	152	18	48	37	108	430	178	70	85	397	291	1,977
1927	150	161	117	108	67	137	441	421	347	148	397	347	2,843
1928	122	143	167	36	40	133	441	422	18	160	298	256	2,236
1929	158	150	142	42	49	78	18	18	31	51	34	152	922
1930	160	135	114	36	51	119	441	297	85	72	61	63	1,634
1931	169	127	63	38	38	18	18	18	24	26	34	155	729
1932	171	178	115	36	38	169	31	32	44	60	32	25	929
1933	362	270	172	36	54	89	91	18	18	55	33	235	1,433
1934	127	137	74	41	43	18	18	18	18	50	170	207	920
1935	129	129	127	36	48	134	441	441	219	150	92	163	2,110
1936	137	347	156	36	119	146	413	421	347	191	133	232	2,679
1937	158	331	279	52	46	278	432	251	154	176	397	271	2,825
1938	204	526	452	397	411	390	441	421	347	384	278	258	4,510
1939	233	174	162	36	37	98	400	109	78	75	43	155	1,598
1940	181	169	155	66	37	135	344	421	347	192	189	295	2,532
1941	182	375	394	349	84	172	441	421	347	411	374	206	3,758
1942	270	216	171	185	73	166	441	421	347	303	397	176	3,168
1943	326	294	518	73	115	124	420	421	347	210	187	328	3,363
1944	167	170	125	36	37	129	286	20	79	123	331	166	1,670
1945	161	271	172	36	46	128	441	350	188	320	397	265	2,775
1946	179	205	189	36	46	122	414	416	425	153	241	294	2,719
1947	158	152	118	36	37	127	438	18	65	180	134	114	1,578
1948	237	56	146	39	37	127	441	441	427	175	99	243	2,468
1949	156	153	131	36	37	125	180	73	78	57	76	113	1,213
1950	137	137	113	36	37	126	441	413	418	388	397	498	3,141
1951	395	376	181	66	37	134	441	421	49	245	344	186	2,877
1952	239	188	319	355	261	306	441	409	360	314	378	186	3,756
1953	255	160	127	37	37	132	441	421	347	111	397	235	2,703
1954	123	136	130	36	37	132	405	421	155	199	340	166	2,280
1955	180	170	103	43	37	123	52	21	92	110	157	407	1,493
1956	501	317	268	66	88	166	441	421	347	399	258	164	3,437
1957	224	148	127	36	39	109	424	425	427	411	340	165	2,876
1958	169	274	417	397	243	285	441	341	427	307	303	356	3,963
1959	149	177	114	53	37	125	426	441	266	85	70	110	2,052
1960	238	151	109	45	50	118	428	66	37	125	195	206	1,768
1961	171	134	115	43	47	117	363	18	55	37	158	266	1,525
1962	199	258	119	36	40	101	411	441	161	411	190	157	2,523
1963	136	250	134	115	67	113	422	421	347	156	397	255	2,814
1964	130	112	100	44	37	102	402	160	86	136	267	182	1,758
1965	229	174	147	137	67	142	441	421	257	75	397	397	2,886

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1966	139	153	127	36	37	109	426	405	105	245	337	186	2,304
1967	177	139	182	397	244	336	441	357	412	257	301	277	3,520
1968	181	193	125	36	37	125	421	441	116	166	179	180	2,202
1969	479	477	250	284	263	397	399	341	427	370	347	298	4,334
1970	539	375	244	66	37	134	441	413	18	221	397	189	3,074
1971	148	132	123	66	37	129	441	421	347	103	204	430	2,581
1972	116	134	104	41	57	123	430	441	201	235	397	161	2,441
1973	171	200	271	41	50	142	400	441	206	280	397	186	2,788
1974	210	156	206	156	67	152	441	421	347	251	312	356	3,076
1975	200	194	179	36	37	153	441	421	347	411	397	258	3,075
1976	195	106	106	51	54	89	375	234	134	138	18	117	1,616
1977	121	18	45	18	18	18	18	18	65	25	18	226	610
1978	207	218	225	189	189	168	441	421	321	221	332	219	3,153
1979	251	233	199	36	46	143	441	417	356	287	271	430	3,110
1980	358	286	259	72	135	179	421	441	206	208	167	320	3,052
1981	160	141	136	36	37	128	382	82	112	170	397	163	1,944
1982	220	397	518	397	260	323	441	341	427	411	397	533	4,666
1983	272	234	221	257	230	332	343	441	327	411	397	359	3,826
1984	461	398	192	66	37	116	437	421	213	295	397	430	3,464
1985	160	157	126	36	37	130	422	157	182	174	198	420	2,196
1986	131	526	518	149	166	155	424	288	94	237	159	210	3,055
1987	214	158	134	54	58	122	214	18	89	96	81	223	1,461
1988	153	98	18	41	47	45	18	18	28	59	137	260	923
1989	164	106	157	40	37	116	425	399	288	242	98	103	2,174
1990	164	152	105	41	50	104	18	18	50	59	31	18	809
1991	101	90	192	40	48	47	18	18	18	81	18	21	693
1992	165	212	155	47	47	18	18	18	27	102	18	203	1,031
1993	197	166	153	36	56	140	441	421	347	229	236	314	2,738
1994	162	173	38	47	53	120	95	18	57	77	138	304	1,283
1995	225	143	518	397	411	397	441	441	327	397	254	217	4,170
1996	310	544	416	66	174	156	441	421	175	248	397	533	3,883
1997	445	382	330	66	73	140	407	332	18	233	328	435	3,188
1998	214	415	294	323	326	397	441	441	327	411	397	169	4,156
1999	297	393	205	70	37	135	441	421	347	174	339	219	3,080
2000	158	418	185	76	37	136	439	421	156	314	163	214	2,717
2001	179	146	120	45	37	87	79	18	101	96	233	179	1,318
2002	152	132	117	36	37	127	349	122	115	138	169	212	1,705
2003	141	133	113	36	37	128	403	441	347	50	214	169	2,212
2004	149	155	109	36	37	96	402	421	121	250	196	170	2,142
2005	181	214	455	67	266	284	423	421	238	275	301	220	3,345
2006	347	381	518	397	411	397	441	421	347	322	368	433	4,785
2007	200	151	114	55	37	124	423	402	112	152	42	193	2,005
2008	153	141	105	37	59	113	18	18	45	70	107	89	956
2009	198	148	109	36	37	124	318	18	95	211	18	167	1,478
2010	138	145	116	36	37	142	441	441	427	411	350	377	3,061
2011	319	374	375	380	165	397	441	441	327	411	302	230	4,163
2012	279	100	203	50	37	125	422	441	160	164	206	186	2,375
2013	162	17	106	45	50	118	430	164	134	42	67	23	1,357
2014	86	169	148	38	38	18	18	18	63	60	91	186	934

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2015	176	132	18	36	18	18	18	18	37				630
Average	207	210	185	93	84	149	343	286	201	197	233	236	2,401
Minimum	86	17	18	18	18	18	18	18	18	25	18	18	610
Maximum	539	544	518	397	411	397	441	441	427	411	451	533	4,785

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Individual Contractor Table A Deliveries - Existing Conditions

The tables on the following pages show the Table A without Article 56 carryover and Total Table A deliveries for each State Water Contractor for the Existing Conditions scenario.

Individual Contractor Tables SWP Table A Deliveries Description

The sum of the current CY Table A only and Article 56 (Requested from previous CY).

The Total Table A delivery divided by the maximum Table A delivered over the Sep 1921-Oct 2015 period of record.

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedence Frequency (%)	Percent of Maximum Table A

Contract year (CY) from January to December (Jan-Dec)

This column shows just Table A deliveries without the carryover from the contract year Jan-Dec.

This column just represents Article 56 deliveries delivered in the current CY. This means that these Article 56 requests were made in the previous CY as the CalSim carryover implementation is single year only. In other words, if a contractor requested carryover in the previous CY, then this amount must be delivered within the current CY. There is a risk that not all carryover requested in the previous CY will be delivered in the current CY due to carryover spills. These spills occur under three SWP San Luis conditions:

1. Reaches dead pool (42 TAF)
2. Reaches flood levels (1067 TAF) and Article 21 is delivered
3. Has insufficient storage at the beginning of January (start of CY)

Table A-4. Alameda County FC&WCD-Zone 7: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	48	0	48	60%	2006	78	0%	96%
1923	45	9	54	67%	1983	76	1%	94%
1924	14	7	21	26%	1998	72	2%	90%
1925	21	2	23	28%	1938	72	3%	89%
1926	32	2	34	43%	1969	71	4%	88%
1927	45	4	49	61%	1982	70	5%	86%
1928	45	7	52	64%	1958	70	6%	86%
1929	17	7	24	30%	1995	68	8%	85%
1930	26	2	28	34%	2011	68	9%	85%
1931	14	3	17	21%	1941	66	10%	81%
1932	13	2	14	18%	1952	65	11%	81%
1933	25	1	26	32%	1996	65	12%	81%
1934	11	3	14	17%	1943	65	13%	80%
1935	47	1	48	60%	1967	64	14%	79%
1936	41	0	41	51%	1942	62	15%	77%
1937	41	6	47	59%	1999	62	16%	76%
1938	66	6	72	89%	1980	61	17%	75%
1939	30	15	45	56%	1970	60	18%	74%
1940	38	0	38	47%	1984	60	19%	74%
1941	60	6	66	81%	2005	59	20%	73%
1942	49	14	62	77%	1956	58	22%	71%
1943	55	9	65	80%	1978	58	23%	71%
1944	18	13	30	37%	2000	57	24%	71%
1945	48	2	50	63%	2007	56	25%	69%
1946	44	9	53	65%	1975	56	26%	69%
1947	33	6	39	49%	1986	56	27%	69%
1948	34	0	34	42%	1985	55	28%	68%
1949	23	4	27	34%	1979	55	29%	68%
1950	37	3	39	49%	1973	55	30%	68%
1951	50	2	52	65%	1923	54	31%	67%
1952	55	10	65	81%	1953	54	32%	67%
1953	42	12	54	67%	1974	54	33%	67%
1954	43	6	49	61%	1946	53	35%	65%
1955	18	7	24	30%	1966	53	36%	65%
1956	57	1	58	71%	1951	52	37%	65%
1957	35	13	48	59%	2012	52	38%	65%
1958	66	4	70	86%	1928	52	39%	64%
1959	32	15	47	58%	1968	51	40%	64%
1960	37	4	42	52%	1997	51	41%	64%
1961	20	0	20	25%	1945	50	42%	63%
1962	40	2	43	53%	1954	49	43%	61%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	40	6	46	57%
1964	43	6	49	61%
1965	30	0	30	37%
1966	51	2	53	65%
1967	53	11	64	79%
1968	39	12	51	64%
1969	66	5	71	88%
1970	50	10	60	74%
1971	32	10	43	53%
1972	44	4	48	59%
1973	48	7	55	68%
1974	45	9	54	67%
1975	49	7	56	69%
1976	39	9	49	61%
1977	2	2	4	5%
1978	57	0	58	71%
1979	42	13	55	68%
1980	55	5	61	75%
1981	30	13	43	53%
1982	66	4	70	86%
1983	66	10	76	94%
1984	50	9	60	74%
1985	45	10	55	68%
1986	49	7	56	69%
1987	22	9	32	40%
1988	11	3	13	16%
1989	44	1	45	56%
1990	12	7	19	23%
1991	10	1	12	14%
1992	15	1	16	20%
1993	46	2	48	60%
1994	24	8	32	39%
1995	66	3	68	85%
1996	50	15	65	81%
1997	46	5	51	64%
1998	66	7	72	90%
1999	47	15	62	76%
2000	49	8	57	71%
2001	15	9	25	31%
2002	40	2	42	52%
2003	26	0	26	33%
2004	42	3	45	56%
2005	53	6	59	73%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1927	49	44%	61%
1964	49	45%	61%
1976	49	46%	61%
1922	48	47%	60%
1993	48	49%	60%
1935	48	50%	60%
1972	48	51%	59%
1957	48	52%	59%
1937	47	53%	59%
1959	47	54%	58%
1963	46	55%	57%
2004	45	56%	56%
1939	45	57%	56%
1989	45	58%	56%
1981	43	59%	53%
1971	43	60%	53%
1962	43	61%	53%
2002	42	63%	52%
1960	42	64%	52%
2010	41	65%	51%
1936	41	66%	51%
1947	39	67%	49%
1950	39	68%	49%
1940	38	69%	47%
2013	37	70%	46%
1926	34	71%	43%
1948	34	72%	42%
1987	32	73%	40%
1994	32	74%	39%
1944	30	76%	37%
1965	30	77%	37%
1930	28	78%	34%
1949	27	79%	34%
2003	26	80%	33%
1933	26	81%	32%
2001	25	82%	31%
1929	24	83%	30%
1955	24	84%	30%
2009	23	85%	29%
1925	23	86%	28%
2015	22	87%	28%
1924	21	88%	26%
1961	20	90%	25%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	66	12	78	96%	1990	19	91%	23%
2007	41	15	56	69%	1931	17	92%	21%
2008	14	2	15	19%	1992	16	93%	20%
2009	22	2	23	29%	2008	15	94%	19%
2010	39	2	41	51%	1932	14	95%	18%
2011	66	3	68	85%	1934	14	96%	17%
2012	37	15	52	65%	1988	13	97%	16%
2013	32	5	37	46%	1991	12	98%	14%
2014	3	0	3	4%	1977	4	99%	5%
2015	22	1	22	28%	2014	3	100%	4%
Average	39	6	44	55%		44		55%
Maximum	66	15	78	96%		78		96%
Minimum	2	0	3	4%		3		4%

Table A-5. Alameda County WD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	22	0	22	52%	2006	40	0%	94%
1923	20	8	28	68%	1983	37	1%	88%
1924	7	7	14	33%	1998	36	2%	85%
1925	10	1	12	28%	1938	36	3%	85%
1926	16	2	17	42%	1996	35	4%	83%
1927	20	3	23	56%	1969	35	5%	82%
1928	20	7	27	64%	1952	34	6%	80%
1929	9	7	15	36%	1999	33	8%	80%
1930	13	2	14	33%	1942	33	9%	79%
1931	7	2	9	22%	1943	33	10%	79%
1932	6	1	7	18%	1967	33	11%	79%
1933	12	1	13	31%	1982	33	12%	78%
1934	5	2	8	18%	1941	33	13%	78%
1935	22	1	23	55%	1958	33	14%	78%
1936	19	0	19	44%	2011	32	15%	77%
1937	19	6	25	59%	1995	32	16%	75%
1938	30	6	36	85%	2007	31	17%	74%
1939	12	12	24	58%	2012	31	18%	73%
1940	17	0	17	41%	1980	30	19%	72%
1941	27	6	33	78%	2005	30	20%	71%
1942	22	11	33	79%	1979	30	22%	71%
1943	25	8	33	79%	1970	30	23%	71%
1944	9	10	19	46%	1984	30	24%	70%
1945	22	2	23	56%	2000	29	25%	70%
1946	20	8	28	66%	1985	29	26%	69%
1947	13	7	19	46%	1953	29	27%	69%
1948	16	0	16	39%	1975	29	28%	68%
1949	11	3	15	35%	1986	29	29%	68%
1950	18	2	20	47%	1923	28	30%	68%
1951	23	2	24	58%	1974	28	31%	67%
1952	25	9	34	80%	1973	28	32%	67%
1953	19	10	29	69%	1959	28	33%	67%
1954	19	6	26	61%	1946	28	35%	66%
1955	9	6	15	36%	1957	28	36%	66%
1956	25	1	26	62%	1968	28	37%	66%
1957	17	11	28	66%	1928	27	38%	64%
1958	30	3	33	78%	1956	26	39%	62%
1959	16	12	28	67%	1976	26	40%	62%
1960	18	3	22	51%	1978	26	41%	62%
1961	10	0	10	23%	1954	26	42%	61%
1962	18	2	20	47%	1964	25	43%	60%
1963	18	6	24	57%	1981	25	44%	60%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	19	6	25	60%
1965	14	0	14	34%
1966	23	1	24	58%
1967	24	9	33	79%
1968	18	10	28	66%
1969	30	5	35	82%
1970	23	7	30	71%
1971	16	9	25	59%
1972	20	3	23	55%
1973	22	7	28	67%
1974	20	8	28	67%
1975	22	7	29	68%
1976	18	8	26	62%
1977	1	1	2	5%
1978	26	0	26	62%
1979	19	11	30	71%
1980	25	5	30	72%
1981	15	10	25	60%
1982	30	3	33	78%
1983	30	7	37	88%
1984	23	7	30	70%
1985	20	9	29	69%
1986	22	7	29	68%
1987	11	8	19	46%
1988	5	2	7	17%
1989	20	1	21	49%
1990	6	5	11	26%
1991	5	1	6	15%
1992	7	1	8	19%
1993	21	1	22	53%
1994	12	7	19	46%
1995	30	2	32	75%
1996	23	12	35	83%
1997	21	4	25	60%
1998	30	6	36	85%
1999	21	12	33	80%
2000	22	8	29	70%
2001	7	8	16	38%
2002	18	1	20	47%
2003	13	0	13	31%
2004	19	3	22	51%
2005	24	6	30	71%
2006	30	10	40	94%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1997	25	45%	60%
1971	25	46%	59%
1937	25	47%	59%
1939	24	49%	58%
1951	24	50%	58%
1966	24	51%	58%
1963	24	52%	57%
1927	23	53%	56%
1945	23	54%	56%
1935	23	55%	55%
1972	23	56%	55%
1993	22	57%	53%
1922	22	58%	52%
2004	22	59%	51%
1960	22	60%	51%
1989	21	61%	49%
1962	20	63%	47%
2013	20	64%	47%
1950	20	65%	47%
2002	20	66%	47%
2010	19	67%	46%
1987	19	68%	46%
1947	19	69%	46%
1944	19	70%	46%
1994	19	71%	46%
1936	19	72%	44%
1926	17	73%	42%
1940	17	74%	41%
1948	16	76%	39%
2001	16	77%	38%
1929	15	78%	36%
1955	15	79%	36%
1949	15	80%	35%
1965	14	81%	34%
1930	14	82%	33%
1924	14	83%	33%
1933	13	84%	31%
2003	13	85%	31%
2009	12	86%	28%
1925	12	87%	28%
1990	11	88%	26%
1961	10	90%	23%
1931	9	91%	22%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	18	12	31	74%	2015	9	92%	21%
2008	7	1	7	18%	1992	8	93%	19%
2009	11	1	12	28%	1934	8	94%	18%
2010	18	2	19	46%	2008	7	95%	18%
2011	30	3	32	77%	1932	7	96%	18%
2012	18	12	31	73%	1988	7	97%	17%
2013	16	4	20	47%	1991	6	98%	15%
2014	2	0	2	4%	1977	2	99%	5%
2015	8	0	9	21%	2014	2	100%	4%
Average	18	5	23	54%		23		54%
Maximum	30	12	40	94%		40		94%
Minimum	1	0	2	4%		2		4%

Table A-6. Antelope Valley-East Kern WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	73	0	73	51%	1999	139	0%	96%
1923	78	29	107	74%	2007	135	1%	93%
1924	26	16	42	29%	1996	133	2%	92%
1925	40	2	41	29%	2006	132	3%	91%
1926	59	2	61	42%	1939	132	4%	91%
1927	78	7	84	58%	2012	131	5%	91%
1928	78	15	93	64%	1942	130	6%	90%
1929	33	14	47	33%	1979	129	8%	89%
1930	48	2	50	34%	1953	126	9%	87%
1931	26	4	30	21%	1959	122	10%	84%
1932	24	2	25	18%	1968	120	11%	83%
1933	46	1	48	33%	1957	119	12%	82%
1934	21	3	24	16%	1985	118	13%	81%
1935	70	1	71	49%	1983	116	14%	80%
1936	73	0	73	50%	1981	109	15%	75%
1937	72	13	85	59%	1967	108	16%	74%
1938	81	13	94	65%	1952	108	17%	74%
1939	70	62	132	91%	1974	107	18%	74%
1940	67	0	67	46%	1923	107	19%	74%
1941	74	12	86	60%	1946	107	20%	74%
1942	72	58	130	90%	1970	103	22%	71%
1943	68	33	101	70%	1984	103	23%	71%
1944	33	53	87	60%	1976	102	24%	70%
1945	73	2	75	52%	1943	101	25%	70%
1946	77	30	107	74%	1998	100	26%	69%
1947	78	13	91	63%	1971	99	27%	68%
1948	61	0	61	42%	2000	95	28%	65%
1949	43	7	50	34%	1938	94	29%	65%
1950	67	3	69	48%	1997	94	30%	65%
1951	69	3	73	50%	1928	93	31%	64%
1952	68	40	108	74%	1969	92	32%	63%
1953	73	53	126	87%	1947	91	33%	63%
1954	76	13	89	61%	1954	89	35%	61%
1955	33	14	47	32%	1964	88	36%	61%
1956	70	1	71	49%	1982	88	37%	61%
1957	64	55	119	82%	1958	88	38%	60%
1958	81	6	88	60%	1975	88	39%	60%
1959	58	63	122	84%	1973	87	40%	60%
1960	68	7	75	52%	2011	87	41%	60%
1961	38	0	38	26%	1986	87	42%	60%
1962	71	2	73	50%	1944	87	43%	60%
1963	70	13	83	57%	1941	86	44%	60%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	75	13	88	61%
1965	54	0	54	37%
1966	68	3	71	49%
1967	66	42	108	74%
1968	69	51	120	83%
1969	81	11	92	63%
1970	69	34	103	71%
1971	59	40	99	68%
1972	76	7	83	57%
1973	73	14	87	60%
1974	78	30	107	74%
1975	72	15	88	60%
1976	69	32	102	70%
1977	4	3	8	5%
1978	71	0	71	49%
1979	74	55	129	89%
1980	68	11	80	55%
1981	55	53	109	75%
1982	81	6	88	61%
1983	81	35	116	80%
1984	69	33	103	71%
1985	78	40	118	81%
1986	72	15	87	60%
1987	42	32	75	52%
1988	20	3	23	16%
1989	76	1	78	54%
1990	22	14	36	25%
1991	19	1	21	14%
1992	28	1	29	20%
1993	76	2	78	54%
1994	45	22	67	46%
1995	81	3	84	58%
1996	69	63	133	92%
1997	76	18	94	65%
1998	81	18	100	69%
1999	75	63	139	96%
2000	72	23	95	65%
2001	29	33	62	42%
2002	71	2	73	50%
2003	48	0	48	33%
2004	74	5	79	54%
2005	65	13	78	54%
2006	81	51	132	91%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1937	85	45%	59%
1927	84	46%	58%
1995	84	47%	58%
1972	83	49%	57%
1963	83	50%	57%
1980	80	51%	55%
2004	79	52%	54%
2005	78	53%	54%
1989	78	54%	54%
1993	78	55%	54%
1945	75	56%	52%
1960	75	57%	52%
1987	75	58%	52%
1922	73	59%	51%
1962	73	60%	50%
1936	73	61%	50%
2002	73	63%	50%
1951	73	64%	50%
1935	71	65%	49%
1956	71	66%	49%
1978	71	67%	49%
1966	71	68%	49%
2010	71	69%	49%
1950	69	70%	48%
1940	67	71%	46%
1994	67	72%	46%
2013	64	73%	44%
2001	62	74%	42%
1948	61	76%	42%
1926	61	77%	42%
1965	54	78%	37%
1930	50	79%	34%
1949	50	80%	34%
2003	48	81%	33%
1933	48	82%	33%
1929	47	83%	33%
1955	47	84%	32%
2015	43	85%	30%
2009	43	86%	30%
1924	42	87%	29%
1925	41	88%	29%
1961	38	90%	26%
1990	36	91%	25%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	72	63	135	93%	1931	30	92%	21%
2008	26	3	28	20%	1992	29	93%	20%
2009	41	2	43	30%	2008	28	94%	20%
2010	68	2	71	49%	1932	25	95%	18%
2011	81	6	87	60%	1934	24	96%	16%
2012	68	63	131	91%	1988	23	97%	16%
2013	57	8	64	44%	1991	21	98%	14%
2014	6	0	6	4%	1977	8	99%	5%
2015	43	1	43	30%	2014	6	100%	4%
Average	61	18	79	55%		79		55%
Maximum	81	63	139	96%		139		96%
Minimum	4	0	6	4%		6		4%

Table A-7. Santa Clarita Valley WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	45	0	45	47%	1999	91	0%	96%
1923	48	23	71	75%	2007	90	1%	94%
1924	17	13	31	32%	1996	89	2%	94%
1925	27	1	27	29%	1979	88	3%	93%
1926	39	1	40	42%	1942	87	4%	92%
1927	48	4	53	55%	2012	87	5%	91%
1928	49	13	61	65%	1959	86	6%	90%
1929	22	12	34	36%	1953	86	8%	90%
1930	32	1	33	34%	2006	86	9%	90%
1931	17	2	20	21%	1939	86	10%	90%
1932	16	1	17	18%	1957	84	11%	88%
1933	31	1	32	33%	1968	82	12%	86%
1934	14	1	15	16%	1985	79	13%	83%
1935	40	1	41	43%	1981	77	14%	81%
1936	46	0	46	48%	1983	72	15%	76%
1937	45	11	56	59%	1974	72	16%	75%
1938	47	11	58	61%	1946	71	17%	75%
1939	38	48	86	90%	1923	71	18%	75%
1940	42	0	42	44%	1967	70	19%	74%
1941	43	10	53	56%	1952	70	20%	73%
1942	43	44	87	92%	1971	69	22%	73%
1943	39	25	65	68%	1976	68	23%	72%
1944	22	40	63	66%	1970	66	24%	69%
1945	45	1	45	48%	1984	66	25%	69%
1946	48	23	71	75%	1943	65	26%	68%
1947	40	11	51	54%	1944	63	27%	66%
1948	40	0	40	42%	1998	62	28%	65%
1949	29	5	33	35%	2000	62	29%	65%
1950	44	1	45	47%	1928	61	30%	65%
1951	41	2	43	46%	1997	61	31%	64%
1952	39	30	70	73%	1954	58	32%	61%
1953	46	40	86	90%	1938	58	33%	61%
1954	47	11	58	61%	1964	58	35%	61%
1955	22	11	33	35%	1975	56	36%	59%
1956	41	0	41	43%	1937	56	37%	59%
1957	42	42	84	88%	1973	56	38%	59%
1958	45	4	49	52%	1969	56	39%	59%
1959	38	48	86	90%	1986	56	40%	59%
1960	45	4	49	52%	1963	55	41%	57%
1961	25	0	25	26%	1987	53	42%	56%
1962	44	1	45	47%	1941	53	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	44	11	55	57%
1964	47	11	58	61%
1965	36	0	36	37%
1966	40	2	42	44%
1967	38	32	70	74%
1968	43	39	82	86%
1969	47	9	56	59%
1970	41	25	66	69%
1971	39	30	69	73%
1972	48	4	52	55%
1973	44	11	56	59%
1974	48	23	72	75%
1975	44	13	56	59%
1976	43	25	68	72%
1977	3	2	5	5%
1978	41	0	41	43%
1979	46	42	88	93%
1980	40	9	49	51%
1981	36	40	77	81%
1982	45	4	49	52%
1983	47	25	72	76%
1984	41	24	66	69%
1985	49	30	79	83%
1986	44	12	56	59%
1987	28	25	53	56%
1988	14	1	15	15%
1989	48	1	48	51%
1990	15	10	25	26%
1991	13	1	14	14%
1992	19	1	19	20%
1993	47	1	48	50%
1994	30	17	47	50%
1995	46	1	47	49%
1996	41	48	89	94%
1997	47	14	61	64%
1998	47	15	62	65%
1999	43	48	91	96%
2000	43	18	62	65%
2001	19	25	45	47%
2002	44	1	45	47%
2003	32	0	32	34%
2004	46	3	49	52%
2005	38	11	49	51%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1927	53	44%	55%
1972	52	45%	55%
2011	52	46%	54%
1947	51	47%	54%
2004	49	49%	52%
1960	49	50%	52%
1982	49	51%	52%
1958	49	52%	52%
1980	49	53%	51%
2005	49	54%	51%
1989	48	55%	51%
1993	48	56%	50%
1994	47	57%	50%
1995	47	58%	49%
1936	46	59%	48%
1945	45	60%	48%
1962	45	61%	47%
2002	45	63%	47%
1950	45	64%	47%
1922	45	65%	47%
2001	45	66%	47%
2010	44	67%	46%
1951	43	68%	46%
2013	42	69%	45%
1966	42	70%	44%
1940	42	71%	44%
1978	41	72%	43%
1956	41	73%	43%
1935	41	74%	43%
1948	40	76%	42%
1926	40	77%	42%
1965	36	78%	37%
1929	34	79%	36%
1955	33	80%	35%
1949	33	81%	35%
1930	33	82%	34%
2003	32	83%	34%
1933	32	84%	33%
1924	31	85%	32%
2015	30	86%	32%
2009	28	87%	30%
1925	27	88%	29%
1961	25	90%	26%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	47	39	86	90%	1990	25	91%	26%
2007	42	48	90	94%	1931	20	92%	21%
2008	17	2	19	20%	1992	19	93%	20%
2009	28	1	28	30%	2008	19	94%	20%
2010	43	1	44	46%	1932	17	95%	18%
2011	47	5	52	54%	1934	15	96%	16%
2012	39	48	87	91%	1988	15	97%	15%
2013	37	5	42	45%	1991	14	98%	14%
2014	4	0	4	4%	1977	5	99%	5%
2015	30	0	30	32%	2014	4	100%	4%
Average	37	14	51	54%		51		54%
Maximum	49	48	91	96%		91		96%
Minimum	3	0	4	4%		4		4%

Table A-8. Coachella Valley WD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	69	0	69	50%	2007	138	0%	100%
1923	77	29	106	76%	1999	138	0%	100%
1924	26	13	39	28%	2012	135	2%	98%
1925	40	0	40	29%	1979	134	3%	97%
1926	57	0	57	41%	1996	132	4%	95%
1927	77	5	82	59%	1953	130	5%	94%
1928	77	12	89	65%	1942	130	6%	94%
1929	33	11	44	32%	1959	126	8%	91%
1930	47	0	47	34%	2006	125	9%	90%
1931	26	2	28	20%	1968	124	10%	90%
1932	24	0	24	18%	1957	122	11%	88%
1933	47	0	47	34%	1985	119	12%	86%
1934	21	0	21	15%	1981	112	13%	81%
1935	40	0	40	29%	1974	106	14%	77%
1936	72	0	72	52%	1946	106	15%	77%
1937	72	10	81	59%	1983	106	16%	77%
1938	69	9	79	57%	1923	106	17%	76%
1939	18	69	87	63%	1976	102	18%	73%
1940	67	0	67	48%	1967	101	19%	73%
1941	63	9	72	52%	1971	99	20%	72%
1942	67	63	130	94%	1952	99	22%	72%
1943	58	33	91	66%	1970	98	23%	71%
1944	34	58	92	66%	1984	98	24%	71%
1945	69	0	69	50%	1997	93	25%	67%
1946	76	30	106	77%	1944	92	26%	66%
1947	57	10	67	49%	1943	91	27%	66%
1948	60	0	60	43%	1928	89	28%	65%
1949	43	5	49	35%	2000	88	29%	63%
1950	65	0	65	47%	1939	87	30%	63%
1951	62	3	65	47%	1998	86	31%	62%
1952	58	42	99	72%	1954	85	32%	61%
1953	72	58	130	94%	1964	84	33%	61%
1954	75	10	85	61%	1927	82	35%	59%
1955	34	10	43	31%	1972	81	36%	59%
1956	60	0	60	43%	1937	81	37%	59%
1957	62	60	122	88%	1963	79	38%	57%
1958	69	5	74	53%	1975	79	39%	57%
1959	57	69	126	91%	1973	79	40%	57%
1960	67	5	72	52%	1938	79	41%	57%
1961	38	0	38	28%	1986	78	42%	56%
1962	70	0	70	51%	2004	77	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	70	9	79	57%
1964	75	9	84	61%
1965	53	0	53	38%
1966	61	2	63	45%
1967	56	45	101	73%
1968	69	56	124	90%
1969	69	8	77	56%
1970	62	36	98	71%
1971	58	42	99	72%
1972	76	5	81	59%
1973	69	10	79	57%
1974	77	29	106	77%
1975	67	12	79	57%
1976	69	33	102	73%
1977	5	3	8	6%
1978	60	0	60	44%
1979	73	60	134	97%
1980	58	8	66	48%
1981	54	58	112	81%
1982	69	5	74	54%
1983	69	37	106	77%
1984	62	36	98	71%
1985	78	42	119	86%
1986	67	11	78	56%
1987	43	33	76	55%
1988	20	0	20	15%
1989	76	0	76	55%
1990	23	10	33	24%
1991	20	0	20	14%
1992	28	0	28	20%
1993	74	0	74	53%
1994	45	20	65	47%
1995	69	0	69	50%
1996	62	69	132	95%
1997	74	19	93	67%
1998	69	16	86	62%
1999	69	69	138	100%
2000	67	21	88	63%
2001	29	33	62	45%
2002	71	0	71	51%
2003	47	0	47	34%
2004	73	4	77	56%
2005	55	10	65	47%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1969	77	44%	56%
1989	76	45%	55%
1987	76	46%	55%
1982	74	47%	54%
1958	74	49%	53%
1993	74	50%	53%
2011	73	51%	53%
1936	72	52%	52%
1941	72	53%	52%
1960	72	54%	52%
2002	71	55%	51%
1962	70	56%	51%
1995	69	57%	50%
1922	69	58%	50%
1945	69	59%	50%
2010	68	60%	49%
1947	67	61%	49%
1940	67	63%	48%
1980	66	64%	48%
1994	65	65%	47%
1950	65	66%	47%
2005	65	67%	47%
1951	65	68%	47%
1966	63	69%	45%
2001	62	70%	45%
1978	60	71%	44%
1956	60	72%	43%
1948	60	73%	43%
1926	57	74%	41%
1965	53	76%	38%
2013	52	77%	37%
1949	49	78%	35%
2003	47	79%	34%
1930	47	80%	34%
1933	47	81%	34%
1929	44	82%	32%
1955	43	83%	31%
2009	42	84%	30%
1925	40	85%	29%
1935	40	86%	29%
1924	39	87%	28%
1961	38	88%	28%
1990	33	90%	24%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	69	55	125	90%	2008	29	91%	21%
2007	69	69	138	100%	1992	28	92%	20%
2008	26	3	29	21%	1931	28	93%	20%
2009	42	0	42	30%	1932	24	94%	18%
2010	68	0	68	49%	1934	21	95%	15%
2011	69	4	73	53%	1988	20	96%	15%
2012	66	69	135	98%	1991	20	97%	14%
2013	46	6	52	37%	1977	8	98%	6%
2014	6	0	6	5%	2014	6	99%	5%
2015	4	0	4	3%	2015	4	100%	3%
Average	56	18	74	54%		74		54%
Maximum	78	69	138	100%		138		100%
Minimum	4	0	4	3%		4		3%

Table A-9. County of Kings: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	7	0	7	71%	2011	9	0%	100%
1923	6	0	6	65%	2006	9	0%	100%
1924	2	0	2	19%	1998	9	0%	100%
1925	3	0	3	29%	1995	9	0%	100%
1926	4	0	4	45%	1983	9	0%	100%
1927	6	0	6	64%	1982	9	0%	100%
1928	6	0	6	64%	1969	9	0%	100%
1929	2	0	2	24%	1958	9	0%	100%
1930	3	0	3	36%	1938	9	0%	100%
1931	2	0	2	19%	1941	8	10%	91%
1932	2	0	2	18%	1978	8	11%	87%
1933	3	0	3	34%	1956	8	12%	86%
1934	1	0	1	15%	1980	8	13%	84%
1935	6	0	6	63%	1943	8	14%	84%
1936	6	0	6	59%	1952	8	15%	84%
1937	5	0	5	59%	1967	8	16%	81%
1938	9	0	9	100%	2005	7	17%	80%
1939	5	0	5	57%	1966	7	18%	76%
1940	5	0	5	55%	1984	7	19%	75%
1941	8	0	8	91%	1951	7	20%	75%
1942	7	0	7	72%	1970	7	20%	75%
1943	8	0	8	84%	1996	7	23%	75%
1944	2	0	2	24%	1942	7	24%	72%
1945	7	0	7	71%	2000	7	25%	72%
1946	6	0	6	63%	1975	7	26%	72%
1947	6	0	6	64%	1986	7	27%	72%
1948	4	0	4	47%	1945	7	28%	71%
1949	3	0	3	31%	1973	7	29%	71%
1950	5	0	5	51%	1922	7	30%	71%
1951	7	0	7	75%	1999	6	31%	68%
1952	8	0	8	84%	1993	6	32%	67%
1953	6	0	6	59%	1997	6	33%	67%
1954	6	0	6	62%	1923	6	35%	65%
1955	2	0	2	24%	1927	6	36%	64%
1956	8	0	8	86%	1974	6	37%	64%
1957	5	0	5	49%	1985	6	38%	64%
1958	9	0	9	100%	1928	6	39%	64%
1959	4	0	4	45%	1947	6	40%	64%
1960	5	0	5	53%	1935	6	41%	63%
1961	3	0	3	28%	1946	6	42%	63%
1962	5	0	5	58%	1972	6	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	5	0	5	57%
1964	6	0	6	61%
1965	4	0	4	42%
1966	7	0	7	76%
1967	8	0	8	81%
1968	5	0	5	56%
1969	9	0	9	100%
1970	7	0	7	75%
1971	4	0	4	46%
1972	6	0	6	62%
1973	7	0	7	71%
1974	6	0	6	64%
1975	7	0	7	72%
1976	5	0	5	56%
1977	0	0	0	3%
1978	8	0	8	87%
1979	6	0	6	60%
1980	8	0	8	84%
1981	4	0	4	43%
1982	9	0	9	100%
1983	9	0	9	100%
1984	7	0	7	75%
1985	6	0	6	64%
1986	7	0	7	72%
1987	3	0	3	31%
1988	1	0	1	15%
1989	6	0	6	62%
1990	2	0	2	16%
1991	1	0	1	14%
1992	2	0	2	20%
1993	6	0	6	67%
1994	3	0	3	33%
1995	9	0	9	100%
1996	7	0	7	75%
1997	6	0	6	67%
1998	9	0	9	100%
1999	6	0	6	68%
2000	7	0	7	72%
2001	2	0	2	21%
2002	5	0	5	58%
2003	3	0	3	37%
2004	6	0	6	60%
2005	7	0	7	80%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1989	6	44%	62%
1954	6	45%	62%
1964	6	46%	61%
1979	6	47%	60%
2004	6	49%	60%
1953	6	50%	59%
1936	6	51%	59%
1937	5	52%	59%
2007	5	53%	58%
2002	5	54%	58%
1962	5	55%	58%
1963	5	56%	57%
1939	5	57%	57%
1976	5	58%	56%
1968	5	59%	56%
2010	5	60%	56%
1940	5	61%	55%
1960	5	63%	53%
2012	5	64%	52%
1950	5	65%	51%
1957	5	66%	49%
1948	4	67%	47%
2013	4	68%	46%
1971	4	69%	46%
1926	4	70%	45%
1959	4	71%	45%
1981	4	72%	43%
1965	4	73%	42%
2003	3	74%	37%
1930	3	76%	36%
1933	3	77%	34%
1994	3	78%	33%
1949	3	79%	31%
1987	3	80%	31%
2009	3	81%	30%
1925	3	82%	29%
2015	3	83%	28%
1961	3	84%	28%
1944	2	85%	24%
1955	2	86%	24%
1929	2	87%	24%
2001	2	88%	21%
1992	2	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	9	0	9	100%	1924	2	91%	19%
2007	5	0	5	58%	1931	2	92%	19%
2008	2	0	2	19%	2008	2	93%	19%
2009	3	0	3	30%	1932	2	94%	18%
2010	5	0	5	56%	1990	2	95%	16%
2011	9	0	9	100%	1934	1	96%	15%
2012	5	0	5	52%	1988	1	97%	15%
2013	4	0	4	46%	1991	1	98%	14%
2014	0	0	0	5%	2014	0	99%	5%
2015	3	0	3	28%	1977	0	100%	3%
Average	5	0	5	57%		5		57%
Maximum	9	0	9	100%		9		100%
Minimum	0	0	0	3%		0		3%

Table A-10. Crestline-Lake Arrowhead WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	3	0	3	44%	1999	6	0%	96%
1923	3	2	4	73%	2012	5	1%	93%
1924	1	1	2	35%	2007	5	2%	93%
1925	1	0	2	28%	1996	5	3%	92%
1926	2	0	2	41%	2006	5	4%	90%
1927	3	0	3	54%	1942	5	5%	89%
1928	3	1	4	64%	1979	5	6%	88%
1929	1	1	2	38%	1959	5	8%	87%
1930	2	0	2	33%	1953	5	9%	86%
1931	1	0	1	22%	1957	5	10%	84%
1932	1	0	1	18%	1968	5	11%	82%
1933	2	0	2	32%	1985	5	12%	80%
1934	1	0	1	18%	1939	5	13%	78%
1935	2	0	2	39%	1981	4	14%	77%
1936	3	0	3	44%	1983	4	15%	77%
1937	3	1	3	59%	1967	4	16%	75%
1938	3	1	4	65%	1952	4	17%	75%
1939	2	3	5	78%	1974	4	18%	73%
1940	2	0	2	40%	1923	4	19%	73%
1941	3	1	3	60%	1946	4	20%	73%
1942	3	3	5	89%	1971	4	22%	71%
1943	2	2	4	71%	1943	4	23%	71%
1944	1	2	4	63%	1976	4	24%	70%
1945	3	0	3	48%	1970	4	25%	68%
1946	3	2	4	73%	1998	4	26%	68%
1947	2	1	3	47%	1984	4	27%	68%
1948	2	0	2	39%	2000	4	28%	66%
1949	2	0	2	35%	1938	4	29%	65%
1950	2	0	3	47%	1928	4	30%	64%
1951	2	0	3	46%	1944	4	31%	63%
1952	2	2	4	75%	1969	4	32%	62%
1953	3	2	5	86%	1975	4	33%	61%
1954	3	1	4	61%	1954	4	35%	61%
1955	1	1	2	37%	1997	4	36%	61%
1956	3	0	3	45%	1986	4	37%	61%
1957	2	3	5	84%	1973	4	38%	61%
1958	3	0	3	57%	1964	3	39%	60%
1959	2	3	5	87%	1941	3	40%	60%
1960	3	0	3	51%	1937	3	41%	59%
1961	1	0	1	24%	1963	3	42%	57%
1962	2	0	3	46%	1982	3	43%	57%
1963	2	1	3	57%	1958	3	44%	57%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	3	1	3	60%
1965	2	0	2	35%
1966	2	0	3	45%
1967	2	2	4	75%
1968	2	2	5	82%
1969	3	1	4	62%
1970	2	2	4	68%
1971	2	2	4	71%
1972	3	0	3	54%
1973	3	1	4	61%
1974	3	2	4	73%
1975	3	1	4	61%
1976	2	2	4	70%
1977	0	0	0	5%
1978	3	0	3	44%
1979	3	3	5	88%
1980	2	1	3	55%
1981	2	2	4	77%
1982	3	0	3	57%
1983	3	2	4	77%
1984	2	1	4	68%
1985	3	2	5	80%
1986	3	1	4	61%
1987	2	2	3	55%
1988	1	0	1	17%
1989	3	0	3	48%
1990	1	1	2	26%
1991	1	0	1	14%
1992	1	0	1	19%
1993	3	0	3	49%
1994	2	1	3	50%
1995	3	0	3	54%
1996	2	3	5	92%
1997	3	1	4	61%
1998	3	1	4	68%
1999	3	3	6	96%
2000	3	1	4	66%
2001	1	2	3	47%
2002	2	0	3	45%
2003	2	0	2	31%
2004	3	0	3	50%
2005	2	1	3	56%
2006	3	2	5	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2011	3	45%	57%
2005	3	46%	56%
1987	3	47%	55%
1980	3	47%	55%
1995	3	50%	54%
1927	3	50%	54%
1972	3	52%	54%
1960	3	53%	51%
2004	3	54%	50%
1994	3	55%	50%
1993	3	56%	49%
1989	3	57%	48%
1945	3	58%	48%
1950	3	59%	47%
2001	3	60%	47%
1947	3	61%	47%
1962	3	63%	46%
1951	3	64%	46%
2002	3	65%	45%
2010	3	66%	45%
1966	3	67%	45%
2013	3	68%	45%
1956	3	69%	45%
1922	3	70%	44%
1978	3	71%	44%
1936	3	72%	44%
1926	2	73%	41%
1940	2	74%	40%
1948	2	76%	39%
1935	2	77%	39%
1929	2	78%	38%
1955	2	79%	37%
1949	2	80%	35%
1965	2	81%	35%
1924	2	82%	35%
1930	2	83%	33%
1933	2	84%	32%
2003	2	85%	31%
2015	2	86%	30%
2009	2	87%	29%
1925	2	88%	28%
1990	2	90%	26%
1961	1	91%	24%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	3	3	5	93%	1931	1	92%	22%
2008	1	0	1	18%	1992	1	93%	19%
2009	2	0	2	29%	2008	1	94%	18%
2010	2	0	3	45%	1932	1	95%	18%
2011	3	0	3	57%	1934	1	96%	18%
2012	3	3	5	93%	1988	1	97%	17%
2013	2	1	3	45%	1991	1	98%	14%
2014	0	0	0	4%	1977	0	99%	5%
2015	2	0	2	30%	2014	0	100%	4%
Average	2	1	3	54%		3		54%
Maximum	3	3	6	96%		6		96%
Minimum	0	0	0	4%		0		4%

Table A-11. Desert WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	28	0	28	50%	2007	56	0%	100%
1923	31	12	43	76%	1999	56	0%	100%
1924	11	5	16	28%	2012	54	2%	97%
1925	16	0	16	29%	1979	54	3%	97%
1926	23	0	23	41%	1996	53	4%	95%
1927	31	3	33	60%	1953	52	5%	94%
1928	31	5	36	65%	1942	52	6%	94%
1929	13	4	18	32%	1959	50	8%	90%
1930	19	0	19	34%	2006	50	9%	90%
1931	11	1	11	20%	1968	50	10%	90%
1932	10	0	10	18%	1957	49	11%	87%
1933	19	0	19	34%	1985	48	12%	86%
1934	8	0	8	15%	1981	45	13%	80%
1935	16	0	16	28%	1974	43	14%	77%
1936	29	0	29	52%	1946	43	15%	77%
1937	29	4	33	59%	1983	43	16%	77%
1938	28	4	32	57%	1923	43	17%	76%
1939	7	28	34	62%	1976	41	18%	73%
1940	27	0	27	48%	1967	41	19%	73%
1941	25	4	29	52%	1952	40	20%	72%
1942	27	25	52	94%	1970	40	22%	71%
1943	23	13	37	66%	1971	40	23%	71%
1944	14	23	37	66%	1984	39	24%	71%
1945	28	0	28	50%	1997	37	25%	67%
1946	31	12	43	77%	1944	37	26%	66%
1947	7	4	11	21%	1943	37	27%	66%
1948	24	0	24	42%	1928	36	28%	65%
1949	17	3	20	36%	2000	35	29%	63%
1950	26	0	26	46%	1998	35	30%	62%
1951	25	1	26	47%	1939	34	31%	62%
1952	23	17	40	72%	1954	34	32%	61%
1953	29	23	52	94%	1964	34	33%	61%
1954	30	4	34	61%	1927	33	35%	60%
1955	14	4	18	31%	1972	33	36%	60%
1956	24	0	24	43%	1937	33	37%	59%
1957	25	24	49	87%	1963	32	38%	57%
1958	28	2	30	54%	1975	32	39%	57%
1959	22	28	50	90%	1973	32	40%	57%
1960	26	3	29	52%	1938	32	41%	57%
1961	15	0	15	28%	1986	31	42%	56%
1962	28	0	28	51%	2004	31	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	28	4	32	57%
1964	30	4	34	61%
1965	21	0	21	37%
1966	24	1	26	46%
1967	22	18	41	73%
1968	28	22	50	90%
1969	28	3	31	56%
1970	25	15	40	71%
1971	23	17	40	71%
1972	31	3	33	60%
1973	28	4	32	57%
1974	31	12	43	77%
1975	27	5	32	57%
1976	28	13	41	73%
1977	2	1	3	6%
1978	24	0	24	44%
1979	30	24	54	97%
1980	23	3	27	48%
1981	21	23	45	80%
1982	28	2	30	54%
1983	28	15	43	77%
1984	25	14	39	71%
1985	31	17	48	86%
1986	27	4	31	56%
1987	17	13	30	55%
1988	8	0	8	15%
1989	31	0	31	55%
1990	9	4	13	24%
1991	8	0	8	14%
1992	11	0	11	20%
1993	30	0	30	53%
1994	18	8	26	47%
1995	28	0	28	50%
1996	25	28	53	95%
1997	30	8	37	67%
1998	28	7	35	62%
1999	28	28	56	100%
2000	27	8	35	63%
2001	12	13	25	45%
2002	28	0	28	51%
2003	19	0	19	34%
2004	30	2	31	56%
2005	22	4	26	47%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1969	31	44%	56%
1989	31	45%	55%
1987	30	46%	55%
1982	30	47%	54%
1958	30	49%	54%
1993	30	50%	53%
2011	30	51%	53%
1936	29	52%	52%
1941	29	53%	52%
1960	29	54%	52%
2002	28	55%	51%
1962	28	56%	51%
1995	28	57%	50%
1922	28	58%	50%
1945	28	59%	50%
2010	27	60%	49%
1940	27	61%	48%
1980	27	63%	48%
1951	26	64%	47%
1994	26	65%	47%
2005	26	66%	47%
1950	26	67%	46%
1966	26	68%	46%
2001	25	69%	45%
1978	24	70%	44%
1956	24	71%	43%
1948	24	72%	42%
1926	23	73%	41%
1965	21	74%	37%
1949	20	76%	36%
1930	19	77%	34%
1933	19	78%	34%
2003	19	79%	34%
1929	18	80%	32%
1955	18	81%	31%
2013	17	82%	31%
2009	17	83%	30%
1925	16	84%	29%
1935	16	85%	28%
1924	16	86%	28%
1961	15	87%	28%
1990	13	88%	24%
2008	12	90%	21%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	28	22	50	90%	1947	11	91%	21%
2007	28	28	56	100%	1931	11	92%	20%
2008	10	1	12	21%	1992	11	93%	20%
2009	17	0	17	30%	1932	10	94%	18%
2010	27	0	27	49%	1934	8	95%	15%
2011	28	2	30	53%	1988	8	96%	15%
2012	26	28	54	97%	1991	8	97%	14%
2013	14	3	17	31%	2015	4	98%	8%
2014	3	0	3	5%	1977	3	99%	6%
2015	4	0	4	8%	2014	3	100%	5%
Average	22	7	30	53%		30		53%
Maximum	31	28	56	100%		56		100%
Minimum	2	0	3	5%		3		5%

Table A-12. Dudley Ridge WD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	23	0	23	56%	2006	39	0%	95%
1923	22	6	28	69%	1983	37	1%	90%
1924	7	4	12	29%	1998	35	2%	85%
1925	11	1	12	28%	1996	35	3%	83%
1926	16	1	17	41%	1938	34	4%	83%
1927	22	3	25	60%	1969	34	5%	82%
1928	22	4	26	64%	1999	34	6%	81%
1929	9	4	14	33%	1942	33	8%	80%
1930	13	1	14	34%	1982	33	9%	80%
1931	7	1	9	21%	1958	33	10%	80%
1932	7	1	7	18%	1952	33	11%	79%
1933	13	1	14	33%	2011	32	12%	78%
1934	6	1	7	17%	1967	32	13%	78%
1935	22	0	22	54%	1943	32	14%	78%
1936	21	0	21	50%	1995	32	15%	76%
1937	20	4	24	59%	1941	32	16%	76%
1938	31	4	34	83%	2007	31	17%	75%
1939	20	11	30	73%	1939	30	18%	73%
1940	19	0	19	46%	1979	30	19%	73%
1941	28	4	32	76%	1970	30	20%	73%
1942	23	10	33	80%	1984	30	22%	73%
1943	26	6	32	78%	1953	30	23%	72%
1944	9	9	18	45%	1985	29	24%	71%
1945	23	1	24	58%	2012	29	25%	71%
1946	22	6	28	67%	1980	29	26%	70%
1947	22	4	26	63%	2000	29	27%	69%
1948	17	0	17	41%	2005	28	28%	69%
1949	12	3	15	35%	1923	28	29%	69%
1950	18	1	19	47%	1974	28	30%	68%
1951	24	1	25	61%	1968	28	31%	68%
1952	26	7	33	79%	1946	28	32%	67%
1953	21	9	30	72%	1975	28	33%	67%
1954	21	4	25	61%	1986	28	35%	67%
1955	9	4	13	32%	1973	27	36%	66%
1956	26	0	27	65%	1957	27	37%	65%
1957	18	9	27	65%	1978	27	38%	65%
1958	31	2	33	80%	1959	27	39%	65%
1959	16	11	27	65%	1956	27	40%	65%
1960	19	3	21	52%	1928	26	41%	64%
1961	11	0	11	26%	1997	26	42%	63%
1962	20	1	21	50%	1976	26	43%	63%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	20	4	24	57%
1964	21	4	25	61%
1965	15	0	15	36%
1966	24	1	25	60%
1967	25	8	32	78%
1968	20	9	28	68%
1969	31	3	34	82%
1970	24	6	30	73%
1971	16	7	24	57%
1972	22	3	24	59%
1973	23	4	27	66%
1974	22	6	28	68%
1975	23	4	28	67%
1976	20	6	26	63%
1977	1	1	2	5%
1978	27	0	27	65%
1979	21	9	30	73%
1980	26	3	29	70%
1981	15	9	24	59%
1982	31	2	33	80%
1983	31	7	37	90%
1984	24	6	30	73%
1985	22	7	29	71%
1986	23	4	28	67%
1987	12	6	18	44%
1988	6	1	7	16%
1989	22	0	22	53%
1990	6	4	10	25%
1991	5	0	6	14%
1992	8	0	8	20%
1993	23	1	23	56%
1994	13	5	18	43%
1995	31	1	32	76%
1996	24	11	35	83%
1997	23	3	26	63%
1998	31	4	35	85%
1999	23	11	34	81%
2000	23	5	29	69%
2001	8	6	15	35%
2002	20	1	21	50%
2003	13	0	13	32%
2004	21	2	23	55%
2005	25	4	28	69%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1947	26	44%	63%
1954	25	45%	61%
1964	25	46%	61%
1951	25	47%	61%
1966	25	49%	60%
1927	25	50%	60%
1937	24	51%	59%
1981	24	52%	59%
1972	24	53%	59%
1945	24	54%	58%
1963	24	55%	57%
1971	24	56%	57%
1993	23	57%	56%
1922	23	58%	56%
2004	23	59%	55%
1935	22	60%	54%
1989	22	61%	53%
1960	21	63%	52%
1962	21	64%	50%
2002	21	65%	50%
1936	21	66%	50%
2010	20	67%	49%
2013	19	68%	47%
1950	19	69%	47%
1940	19	70%	46%
1944	18	71%	45%
1987	18	72%	44%
1994	18	73%	43%
1926	17	74%	41%
1948	17	76%	41%
1965	15	77%	36%
1949	15	78%	35%
2001	15	79%	35%
2015	14	80%	35%
1930	14	81%	34%
1933	14	82%	33%
1929	14	83%	33%
1955	13	84%	32%
2003	13	85%	32%
2009	12	86%	29%
1924	12	87%	29%
1925	12	88%	28%
1961	11	90%	26%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	31	9	39	95%	1990	10	91%	25%
2007	20	11	31	75%	1931	9	92%	21%
2008	7	1	8	19%	1992	8	93%	20%
2009	12	1	12	29%	2008	8	94%	19%
2010	19	1	20	49%	1932	7	95%	18%
2011	31	2	32	78%	1934	7	96%	17%
2012	19	11	29	71%	1988	7	97%	16%
2013	16	3	19	47%	1991	6	98%	14%
2014	2	0	2	4%	1977	2	99%	5%
2015	14	0	14	35%	2014	2	100%	4%
Average	19	4	23	55%		23		55%
Maximum	31	11	39	95%		39		95%
Minimum	1	0	2	4%		2		4%

Table A-13. Empire West Side ID: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	2	0	2	65%	2006	3	0%	97%
1923	2	0	2	67%	1983	3	1%	97%
1924	1	0	1	23%	1998	3	2%	92%
1925	1	0	1	29%	1938	3	3%	91%
1926	1	0	1	44%	1969	3	4%	90%
1927	2	0	2	62%	1982	3	5%	89%
1928	2	0	2	64%	1958	3	5%	89%
1929	1	0	1	27%	2011	3	8%	89%
1930	1	0	1	35%	1995	3	9%	88%
1931	1	0	1	20%	1941	2	10%	83%
1932	1	0	1	18%	1952	2	11%	81%
1933	1	0	1	34%	1943	2	12%	80%
1934	0	0	0	15%	1996	2	13%	80%
1935	2	0	2	63%	1967	2	14%	79%
1936	2	0	2	56%	1942	2	15%	77%
1937	2	0	2	59%	1970	2	16%	76%
1938	3	0	3	91%	1980	2	16%	76%
1939	2	0	2	66%	1978	2	16%	76%
1940	2	0	2	52%	1984	2	19%	76%
1941	2	0	2	83%	1956	2	20%	76%
1942	2	0	2	77%	1999	2	22%	75%
1943	2	0	2	80%	2005	2	23%	73%
1944	1	0	1	35%	2000	2	24%	71%
1945	2	0	2	65%	1975	2	25%	69%
1946	2	0	2	65%	1986	2	26%	69%
1947	2	0	2	64%	1985	2	27%	68%
1948	1	0	1	45%	1966	2	28%	68%
1949	1	0	1	33%	1973	2	29%	68%
1950	1	0	1	50%	1951	2	30%	68%
1951	2	0	2	68%	2007	2	31%	68%
1952	2	0	2	81%	1979	2	32%	68%
1953	2	0	2	67%	1923	2	33%	67%
1954	2	0	2	61%	1974	2	35%	67%
1955	1	0	1	27%	1953	2	36%	67%
1956	2	0	2	76%	1939	2	37%	66%
1957	1	0	2	58%	1997	2	38%	66%
1958	3	0	3	89%	1946	2	39%	65%
1959	1	0	2	56%	1945	2	40%	65%
1960	2	0	2	52%	1922	2	41%	65%
1961	1	0	1	27%	1928	2	42%	64%
1962	2	0	2	55%	1947	2	43%	64%
1963	2	0	2	57%	1935	2	44%	63%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	2	0	2	61%
1965	1	0	1	40%
1966	2	0	2	68%
1967	2	0	2	79%
1968	2	0	2	63%
1969	3	0	3	90%
1970	2	0	2	76%
1971	1	0	2	52%
1972	2	0	2	61%
1973	2	0	2	68%
1974	2	0	2	67%
1975	2	0	2	69%
1976	2	0	2	60%
1977	0	0	0	6%
1978	2	0	2	76%
1979	2	0	2	68%
1980	2	0	2	76%
1981	1	0	2	51%
1982	3	0	3	89%
1983	3	0	3	97%
1984	2	0	2	76%
1985	2	0	2	68%
1986	2	0	2	69%
1987	1	0	1	38%
1988	0	0	0	15%
1989	2	0	2	59%
1990	0	0	1	20%
1991	0	0	0	14%
1992	1	0	1	20%
1993	2	0	2	63%
1994	1	0	1	37%
1995	3	0	3	88%
1996	2	0	2	80%
1997	2	0	2	66%
1998	3	0	3	92%
1999	2	0	2	75%
2000	2	0	2	71%
2001	1	0	1	28%
2002	2	0	2	55%
2003	1	0	1	36%
2004	2	0	2	58%
2005	2	0	2	73%
2006	3	0	3	97%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1968	2	45%	63%
2012	2	46%	63%
1993	2	47%	63%
1927	2	49%	62%
1954	2	50%	61%
1964	2	51%	61%
1972	2	52%	61%
1976	2	53%	60%
1989	2	54%	59%
1937	2	55%	59%
1957	2	56%	58%
2004	2	57%	58%
1963	2	58%	57%
1936	2	59%	56%
1959	2	60%	56%
2002	2	61%	55%
1962	2	63%	55%
2010	2	64%	53%
1960	2	65%	52%
1971	2	66%	52%
1940	2	67%	52%
1981	2	68%	51%
1950	1	69%	50%
2013	1	70%	46%
1948	1	71%	45%
1926	1	72%	44%
2015	1	73%	40%
1965	1	74%	40%
1987	1	76%	38%
1994	1	77%	37%
2003	1	78%	36%
1930	1	79%	35%
1944	1	80%	35%
1933	1	81%	34%
1949	1	82%	33%
2009	1	83%	30%
1925	1	84%	29%
2001	1	85%	28%
1929	1	86%	27%
1955	1	87%	27%
1961	1	88%	27%
1924	1	90%	23%
2008	1	91%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	2	0	2	68%	1992	1	92%	20%
2008	1	0	1	20%	1990	1	93%	20%
2009	1	0	1	30%	1931	1	94%	20%
2010	2	0	2	53%	1932	1	95%	18%
2011	3	0	3	89%	1934	0	96%	15%
2012	2	0	2	63%	1988	0	97%	15%
2013	1	0	1	46%	1991	0	98%	14%
2014	0	0	0	5%	1977	0	99%	6%
2015	1	0	1	40%	2014	0	100%	5%
Average	2	0	2	56%		2		56%
Maximum	3	0	3	97%		3		97%
Minimum	0	0	0	5%		0		5%

Table A-14. Kern County WA-AG: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	564	0	564	67%	1983	836	0%	99%
1923	530	37	567	67%	2006	832	1%	98%
1924	161	19	180	21%	1998	789	2%	93%
1925	246	1	247	29%	1938	782	3%	92%
1926	376	1	378	45%	1969	779	4%	92%
1927	526	6	532	63%	2011	773	5%	91%
1928	524	18	542	64%	1982	772	6%	91%
1929	203	17	220	26%	1958	772	8%	91%
1930	299	1	300	35%	1995	768	9%	91%
1931	160	3	163	19%	1941	713	10%	84%
1932	148	1	149	18%	1952	691	11%	81%
1933	286	1	287	34%	1943	684	12%	81%
1934	128	2	130	15%	1967	672	13%	79%
1935	563	1	563	66%	1978	668	14%	79%
1936	487	0	487	57%	1996	667	15%	79%
1937	483	15	498	59%	1956	663	16%	78%
1938	767	15	782	92%	1980	657	17%	77%
1939	469	81	551	65%	1970	653	18%	77%
1940	449	0	449	53%	1984	651	19%	77%
1941	699	14	713	84%	1942	646	20%	76%
1942	572	74	646	76%	2005	630	22%	74%
1943	643	41	684	81%	1999	629	23%	74%
1944	206	68	274	32%	2000	600	24%	71%
1945	567	1	568	67%	1966	596	25%	70%
1946	514	37	552	65%	1975	590	26%	70%
1947	523	16	539	64%	1951	589	27%	69%
1948	393	0	393	46%	1986	588	28%	69%
1949	263	6	269	32%	1973	581	29%	69%
1950	429	2	431	51%	1985	576	30%	68%
1951	586	3	589	69%	1997	569	31%	67%
1952	640	50	691	81%	1945	568	32%	67%
1953	488	68	556	66%	1923	567	33%	67%
1954	506	15	521	61%	1979	565	35%	67%
1955	204	16	220	26%	1922	564	36%	67%
1956	662	1	663	78%	1935	563	37%	66%
1957	410	70	480	57%	1974	563	38%	66%
1958	767	6	772	91%	2007	562	39%	66%
1959	374	81	456	54%	1953	556	40%	66%
1960	439	6	445	52%	1946	552	41%	65%
1961	232	0	232	27%	1939	551	42%	65%
1962	473	1	474	56%	1993	546	43%	64%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	471	15	486	57%
1964	504	15	519	61%
1965	348	0	348	41%
1966	593	2	596	70%
1967	618	54	672	79%
1968	462	66	528	62%
1969	767	12	779	92%
1970	586	67	653	77%
1971	381	50	431	51%
1972	512	6	518	61%
1973	565	16	581	69%
1974	526	37	563	66%
1975	572	18	590	70%
1976	464	41	504	59%
1977	27	15	42	5%
1978	668	0	668	79%
1979	494	71	565	67%
1980	643	13	657	77%
1981	355	68	423	50%
1982	767	6	772	91%
1983	767	69	836	99%
1984	586	65	651	77%
1985	526	50	576	68%
1986	571	17	588	69%
1987	262	41	303	36%
1988	125	2	126	15%
1989	512	1	513	60%
1990	138	16	154	18%
1991	120	1	120	14%
1992	171	1	172	20%
1993	545	1	546	64%
1994	277	27	304	36%
1995	767	2	768	91%
1996	586	81	667	79%
1997	544	25	569	67%
1998	767	22	789	93%
1999	547	81	629	74%
2000	572	28	600	71%
2001	177	41	218	26%
2002	475	1	476	56%
2003	310	0	310	36%
2004	493	5	498	59%
2005	614	15	630	74%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1928	542	44%	64%
1947	539	45%	64%
1927	532	46%	63%
1968	528	47%	62%
1954	521	49%	61%
1964	519	50%	61%
1972	518	51%	61%
2012	517	52%	61%
1989	513	53%	60%
1976	504	54%	59%
1937	498	55%	59%
2004	498	56%	59%
1936	487	57%	57%
1963	486	58%	57%
1957	480	59%	57%
2002	476	60%	56%
1962	474	61%	56%
2010	460	63%	54%
1959	456	64%	54%
1940	449	65%	53%
1960	445	66%	52%
1971	431	67%	51%
1950	431	68%	51%
1981	423	69%	50%
1948	393	70%	46%
2013	391	71%	46%
1926	378	72%	45%
1965	348	73%	41%
2015	312	74%	37%
2003	310	76%	36%
1994	304	77%	36%
1987	303	78%	36%
1930	300	79%	35%
1933	287	80%	34%
1944	274	81%	32%
1949	269	82%	32%
2009	256	83%	30%
1925	247	84%	29%
1961	232	85%	27%
1955	220	86%	26%
1929	220	87%	26%
2001	218	88%	26%
1924	180	90%	21%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	767	65	832	98%	2008	173	91%	20%
2007	480	81	562	66%	1992	172	92%	20%
2008	158	15	173	20%	1931	163	93%	19%
2009	255	1	256	30%	1990	154	94%	18%
2010	458	2	460	54%	1932	149	95%	18%
2011	767	6	773	91%	1934	130	96%	15%
2012	436	81	517	61%	1988	126	97%	15%
2013	384	7	391	46%	1991	120	98%	14%
2014	39	0	39	5%	1977	42	99%	5%
2015	311	0	312	37%	2014	39	100%	5%
Average	455	24	479	56%		479		56%
Maximum	767	81	836	99%		836		99%
Minimum	27	0	39	5%		39		5%

Table A-15. Kern County WA-MI: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	95	0	95	71%	2011	135	0%	100%
1923	87	0	87	65%	2006	135	0%	100%
1924	26	0	26	19%	1998	135	0%	100%
1925	39	0	39	29%	1995	135	0%	100%
1926	61	0	61	45%	1983	135	0%	100%
1927	86	0	86	64%	1982	135	0%	100%
1928	86	0	86	64%	1969	135	0%	100%
1929	32	0	32	24%	1958	135	0%	100%
1930	48	0	48	36%	1938	135	0%	100%
1931	25	0	25	19%	1941	123	10%	91%
1932	24	0	24	18%	1978	117	11%	87%
1933	46	0	46	34%	1956	116	12%	86%
1934	20	0	20	15%	1980	113	13%	84%
1935	96	0	96	71%	1943	113	14%	84%
1936	80	0	80	59%	1952	112	15%	84%
1937	79	0	79	59%	1967	109	16%	81%
1938	135	0	135	100%	2005	108	17%	80%
1939	77	0	77	57%	1966	103	18%	76%
1940	74	0	74	55%	1984	101	19%	75%
1941	123	0	123	91%	1951	101	20%	75%
1942	97	0	97	72%	1970	101	22%	75%
1943	113	0	113	84%	1996	101	23%	75%
1944	33	0	33	24%	1942	97	24%	72%
1945	96	0	96	71%	2000	97	25%	72%
1946	84	0	84	63%	1975	97	26%	72%
1947	86	0	86	64%	1986	97	27%	72%
1948	63	0	63	47%	1935	96	28%	71%
1949	42	0	42	31%	1945	96	29%	71%
1950	69	0	69	51%	1973	96	30%	71%
1951	101	0	101	75%	1922	95	31%	71%
1952	112	0	112	84%	1999	91	32%	68%
1953	80	0	80	59%	1993	91	33%	67%
1954	83	0	83	62%	1997	90	35%	67%
1955	33	0	33	24%	1923	87	36%	65%
1956	116	0	116	86%	1927	86	37%	64%
1957	66	0	66	49%	1974	86	38%	64%
1958	135	0	135	100%	1985	86	39%	64%
1959	60	0	60	45%	1928	86	40%	64%
1960	71	0	71	53%	1947	86	41%	64%
1961	37	0	37	28%	1946	84	42%	63%
1962	77	0	77	58%	1972	84	43%	62%
1963	77	0	77	57%	1989	84	44%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	83	0	83	61%
1965	56	0	56	42%
1966	103	0	103	76%
1967	109	0	109	81%
1968	76	0	76	56%
1969	135	0	135	100%
1970	101	0	101	75%
1971	61	0	61	46%
1972	84	0	84	62%
1973	96	0	96	71%
1974	86	0	86	64%
1975	97	0	97	72%
1976	76	0	76	56%
1977	4	0	4	3%
1978	117	0	117	87%
1979	81	0	81	60%
1980	113	0	113	84%
1981	57	0	57	43%
1982	135	0	135	100%
1983	135	0	135	100%
1984	101	0	101	75%
1985	86	0	86	64%
1986	97	0	97	72%
1987	42	0	42	31%
1988	20	0	20	15%
1989	84	0	84	62%
1990	22	0	22	16%
1991	19	0	19	14%
1992	27	0	27	20%
1993	91	0	91	67%
1994	44	0	44	33%
1995	135	0	135	100%
1996	101	0	101	75%
1997	90	0	90	67%
1998	135	0	135	100%
1999	91	0	91	68%
2000	97	0	97	72%
2001	28	0	28	21%
2002	78	0	78	58%
2003	50	0	50	37%
2004	81	0	81	60%
2005	108	0	108	80%
2006	135	0	135	100%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1954	83	45%	62%
1964	83	46%	61%
1979	81	47%	60%
2004	81	49%	60%
1953	80	50%	59%
1936	80	51%	59%
1937	79	52%	59%
2007	79	53%	58%
2002	78	54%	58%
1962	77	55%	58%
1963	77	56%	57%
1939	77	57%	57%
1976	76	58%	56%
1968	76	59%	56%
2010	75	60%	56%
1940	74	61%	55%
1960	71	63%	53%
2012	70	64%	52%
1950	69	65%	51%
1957	66	66%	49%
1948	63	67%	47%
2013	62	68%	46%
1971	61	69%	46%
1926	61	70%	45%
1959	60	71%	45%
1981	57	72%	43%
1965	56	73%	42%
2003	50	74%	37%
1930	48	76%	36%
1933	46	77%	34%
2015	45	78%	33%
1994	44	79%	33%
1949	42	80%	31%
1987	42	81%	31%
2009	41	82%	30%
1925	39	83%	29%
1961	37	84%	28%
1944	33	85%	24%
1955	33	86%	24%
1929	32	87%	24%
2001	28	88%	21%
1992	27	90%	20%
1924	26	91%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	79	0	79	58%	1931	25	92%	19%
2008	25	0	25	19%	2008	25	93%	19%
2009	41	0	41	30%	1932	24	94%	18%
2010	75	0	75	56%	1990	22	95%	16%
2011	135	0	135	100%	1934	20	96%	15%
2012	70	0	70	52%	1988	20	97%	15%
2013	62	0	62	46%	1991	19	98%	14%
2014	6	0	6	5%	2014	6	99%	5%
2015	45	0	45	33%	1977	4	100%	3%
Average	76	0	76	57%		76		57%
Maximum	135	0	135	100%		135		100%
Minimum	4	0	4	3%		4		3%

Table A-16. Littlerock Creek ID: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	2	0	2	71%	2011	2	0%	100%
1923	1	0	1	65%	2006	2	0%	100%
1924	0	0	0	19%	1998	2	0%	100%
1925	1	0	1	29%	1995	2	0%	100%
1926	1	0	1	45%	1983	2	0%	100%
1927	1	0	1	64%	1982	2	0%	100%
1928	1	0	1	64%	1969	2	0%	100%
1929	1	0	1	24%	1958	2	0%	100%
1930	1	0	1	36%	1938	2	0%	100%
1931	0	0	0	19%	1941	2	10%	91%
1932	0	0	0	18%	1978	2	11%	87%
1933	1	0	1	34%	1956	2	12%	86%
1934	0	0	0	15%	1980	2	13%	84%
1935	2	0	2	74%	1943	2	14%	84%
1936	1	0	1	59%	1952	2	15%	84%
1937	1	0	1	59%	1967	2	16%	81%
1938	2	0	2	100%	2005	2	17%	80%
1939	1	0	1	57%	1966	2	18%	76%
1940	1	0	1	55%	1984	2	19%	75%
1941	2	0	2	91%	1951	2	20%	75%
1942	2	0	2	72%	1970	2	20%	75%
1943	2	0	2	84%	1996	2	23%	75%
1944	1	0	1	24%	1935	2	24%	74%
1945	2	0	2	71%	1942	2	25%	72%
1946	1	0	1	63%	2000	2	25%	72%
1947	1	0	1	64%	1975	2	27%	72%
1948	1	0	1	47%	1986	2	28%	72%
1949	1	0	1	31%	1945	2	29%	71%
1950	1	0	1	51%	1973	2	30%	71%
1951	2	0	2	75%	1922	2	31%	71%
1952	2	0	2	84%	1999	2	32%	68%
1953	1	0	1	59%	1993	2	33%	67%
1954	1	0	1	62%	1997	2	35%	67%
1955	1	0	1	24%	1923	1	36%	65%
1956	2	0	2	86%	1927	1	37%	64%
1957	1	0	1	49%	1974	1	37%	64%
1958	2	0	2	100%	1985	1	39%	64%
1959	1	0	1	45%	1928	1	40%	64%
1960	1	0	1	53%	1947	1	41%	64%
1961	1	0	1	28%	1946	1	42%	63%
1962	1	0	1	58%	1972	1	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	1	0	1	57%
1964	1	0	1	61%
1965	1	0	1	42%
1966	2	0	2	76%
1967	2	0	2	81%
1968	1	0	1	56%
1969	2	0	2	100%
1970	2	0	2	75%
1971	1	0	1	46%
1972	1	0	1	62%
1973	2	0	2	71%
1974	1	0	1	64%
1975	2	0	2	72%
1976	1	0	1	56%
1977	0	0	0	3%
1978	2	0	2	87%
1979	1	0	1	60%
1980	2	0	2	84%
1981	1	0	1	43%
1982	2	0	2	100%
1983	2	0	2	100%
1984	2	0	2	75%
1985	1	0	1	64%
1986	2	0	2	72%
1987	1	0	1	31%
1988	0	0	0	15%
1989	1	0	1	62%
1990	0	0	0	16%
1991	0	0	0	14%
1992	0	0	0	20%
1993	2	0	2	67%
1994	1	0	1	33%
1995	2	0	2	100%
1996	2	0	2	75%
1997	2	0	2	67%
1998	2	0	2	100%
1999	2	0	2	68%
2000	2	0	2	72%
2001	0	0	0	21%
2002	1	0	1	58%
2003	1	0	1	37%
2004	1	0	1	60%
2005	2	0	2	80%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1989	1	44%	62%
1954	1	45%	62%
1964	1	46%	61%
1979	1	47%	60%
2004	1	49%	60%
1953	1	50%	59%
1936	1	51%	59%
1937	1	52%	59%
2007	1	53%	58%
2002	1	54%	58%
1962	1	55%	58%
1963	1	56%	57%
1939	1	57%	57%
1976	1	58%	56%
1968	1	59%	56%
2010	1	60%	56%
1940	1	61%	55%
1960	1	63%	53%
2012	1	64%	52%
1950	1	65%	51%
1957	1	66%	49%
1948	1	67%	47%
1971	1	68%	46%
1926	1	69%	45%
1959	1	70%	45%
2013	1	71%	44%
1981	1	72%	43%
1965	1	73%	42%
2003	1	74%	37%
1930	1	76%	36%
2015	1	77%	35%
1933	1	78%	34%
1994	1	79%	33%
1949	1	80%	31%
1987	1	81%	31%
2009	1	82%	30%
1925	1	83%	29%
1961	1	84%	28%
1944	1	85%	24%
1955	1	86%	24%
1929	1	87%	24%
2001	0	88%	21%
1992	0	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	2	0	2	100%	1924	0	91%	19%
2007	1	0	1	58%	1931	0	92%	19%
2008	0	0	0	19%	2008	0	93%	19%
2009	1	0	1	30%	1932	0	94%	18%
2010	1	0	1	56%	1990	0	95%	16%
2011	2	0	2	100%	1934	0	96%	15%
2012	1	0	1	52%	1988	0	97%	15%
2013	1	0	1	44%	1991	0	98%	14%
2014	0	0	0	5%	2014	0	99%	5%
2015	1	0	1	35%	1977	0	100%	3%
Average	1	0	1	57%		1		57%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	3%		0		3%

Table A-17. Metropolitan WDSC: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	1245	0	1245	65%	1983	1881	0%	98%
1923	1160	109	1270	66%	2006	1872	1%	98%
1924	345	78	424	22%	1998	1789	2%	94%
1925	528	19	547	29%	1938	1779	3%	93%
1926	816	29	845	44%	1969	1766	4%	92%
1927	1151	45	1196	63%	1982	1754	5%	92%
1928	1145	76	1221	64%	1958	1753	6%	92%
1929	436	74	510	27%	1995	1744	8%	91%
1930	644	24	668	35%	2011	1740	9%	91%
1931	343	36	378	20%	1941	1623	10%	85%
1932	317	19	336	18%	1952	1563	11%	82%
1933	615	18	632	33%	1943	1553	12%	81%
1934	275	34	309	16%	1967	1520	13%	79%
1935	1267	15	1282	67%	1996	1500	14%	78%
1936	1065	0	1065	56%	1978	1495	15%	78%
1937	1056	68	1124	59%	1980	1495	16%	78%
1938	1712	67	1779	93%	1956	1490	17%	78%
1939	871	199	1069	56%	1970	1460	18%	76%
1940	982	0	982	51%	1984	1456	19%	76%
1941	1560	63	1623	85%	1942	1447	20%	76%
1942	1265	182	1447	76%	2005	1440	22%	75%
1943	1435	118	1553	81%	1999	1403	23%	73%
1944	443	168	610	32%	2000	1358	24%	71%
1945	1251	24	1275	67%	1975	1339	25%	70%
1946	1123	111	1234	65%	1966	1337	26%	70%
1947	960	69	1029	54%	1986	1336	27%	70%
1948	853	0	853	45%	1951	1324	28%	69%
1949	565	47	612	32%	1973	1319	29%	69%
1950	930	31	962	50%	1985	1283	30%	67%
1951	1301	23	1324	69%	1935	1282	31%	67%
1952	1430	133	1563	82%	1945	1275	32%	67%
1953	1066	167	1233	64%	1923	1270	33%	66%
1954	1106	68	1174	61%	1974	1261	35%	66%
1955	439	71	509	27%	1997	1260	36%	66%
1956	1479	11	1490	78%	1979	1254	37%	66%
1957	889	173	1062	56%	2007	1249	38%	65%
1958	1712	42	1753	92%	1922	1245	39%	65%
1959	811	200	1011	53%	1946	1234	40%	65%
1960	951	45	996	52%	1953	1233	41%	64%
1961	498	0	498	26%	1928	1221	42%	64%
1962	1033	28	1061	55%	1993	1218	43%	64%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	1030	66	1096	57%
1964	1102	66	1168	61%
1965	754	0	754	39%
1966	1318	19	1337	70%
1967	1380	140	1520	79%
1968	1009	161	1171	61%
1969	1712	55	1766	92%
1970	1301	159	1460	76%
1971	825	133	959	50%
1972	1120	46	1165	61%
1973	1247	72	1319	69%
1974	1150	110	1261	66%
1975	1263	76	1339	70%
1976	1013	117	1130	59%
1977	59	46	105	5%
1978	1492	3	1495	78%
1979	1079	174	1254	66%
1980	1436	59	1495	78%
1981	770	168	938	49%
1982	1712	43	1754	92%
1983	1712	170	1881	98%
1984	1302	154	1456	76%
1985	1149	134	1283	67%
1986	1261	75	1336	70%
1987	563	117	679	36%
1988	268	31	299	16%
1989	1119	15	1133	59%
1990	297	71	369	19%
1991	257	16	273	14%
1992	368	14	382	20%
1993	1198	20	1218	64%
1994	595	92	687	36%
1995	1712	33	1744	91%
1996	1300	200	1500	78%
1997	1194	66	1260	66%
1998	1712	77	1789	94%
1999	1203	200	1403	73%
2000	1264	94	1358	71%
2001	381	118	498	26%
2002	1038	21	1059	55%
2003	671	0	671	35%
2004	1078	37	1115	58%
2005	1371	69	1440	75%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1927	1196	44%	63%
1954	1174	45%	61%
1968	1171	46%	61%
1964	1168	47%	61%
1972	1165	49%	61%
2012	1146	50%	60%
1989	1133	51%	59%
1976	1130	52%	59%
1937	1124	53%	59%
2004	1115	54%	58%
1963	1096	55%	57%
1939	1069	56%	56%
1936	1065	57%	56%
1957	1062	58%	56%
1962	1061	59%	55%
2002	1059	60%	55%
2010	1032	61%	54%
1947	1029	63%	54%
1959	1011	64%	53%
1960	996	65%	52%
1940	982	66%	51%
1950	962	67%	50%
1971	959	68%	50%
1981	938	69%	49%
1948	853	70%	45%
2013	849	71%	44%
1926	845	72%	44%
1965	754	73%	39%
1994	687	74%	36%
1987	679	76%	36%
2003	671	77%	35%
1930	668	78%	35%
1933	632	79%	33%
1949	612	80%	32%
1944	610	81%	32%
2009	566	82%	30%
1925	547	83%	29%
2015	524	84%	27%
1929	510	85%	27%
1955	509	86%	27%
2001	498	87%	26%
1961	498	88%	26%
1924	424	90%	22%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	1712	160	1872	98%	1992	382	91%	20%
2007	1049	200	1249	65%	1931	378	92%	20%
2008	340	36	376	20%	2008	376	93%	20%
2009	548	19	566	30%	1990	369	94%	19%
2010	1001	30	1032	54%	1932	336	95%	18%
2011	1712	29	1740	91%	1934	309	96%	16%
2012	946	200	1146	60%	1988	299	97%	16%
2013	797	52	849	44%	1991	273	98%	14%
2014	84	0	84	4%	1977	105	99%	5%
2015	518	6	524	27%	2014	84	100%	4%
Average	995	74	1069	56%		1069		56%
Maximum	1712	200	1881	98%		1881		98%
Minimum	59	0	84	4%		84		4%

Table A-18. Mojave WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	41	0	41	45%	2006	82	0%	91%
1923	41	23	64	71%	2012	80	1%	90%
1924	16	17	33	37%	1999	80	2%	89%
1925	24	1	26	28%	1996	80	3%	89%
1926	35	2	37	41%	2007	77	4%	86%
1927	41	5	46	51%	1942	77	5%	85%
1928	41	17	58	64%	1939	75	6%	84%
1929	20	16	37	41%	1959	75	8%	83%
1930	29	2	30	34%	1979	73	9%	81%
1931	16	3	19	21%	1957	73	10%	81%
1932	15	1	16	18%	1983	72	11%	80%
1933	28	1	29	33%	1953	71	12%	79%
1934	13	2	15	17%	1952	69	13%	77%
1935	41	1	42	46%	1967	69	14%	76%
1936	38	0	38	42%	1968	68	15%	76%
1937	38	15	53	59%	1985	68	16%	76%
1938	50	15	65	73%	1998	67	17%	74%
1939	37	39	75	84%	1981	66	18%	74%
1940	35	0	35	39%	1943	66	19%	74%
1941	46	14	60	67%	1938	65	20%	73%
1942	41	36	77	85%	1923	64	22%	71%
1943	42	24	66	74%	1974	64	23%	71%
1944	20	33	53	60%	1946	63	24%	70%
1945	41	2	42	47%	1971	63	25%	70%
1946	40	23	63	70%	1969	63	26%	70%
1947	41	15	56	62%	1970	61	27%	68%
1948	37	0	37	41%	1984	61	28%	68%
1949	26	5	31	35%	2000	61	29%	68%
1950	40	2	42	47%	1976	60	30%	67%
1951	40	3	43	48%	1941	60	31%	67%
1952	42	27	69	77%	1975	58	32%	64%
1953	38	33	71	79%	1928	58	33%	64%
1954	39	15	55	61%	1986	57	35%	64%
1955	20	16	36	40%	1973	57	36%	63%
1956	43	1	44	49%	2011	57	37%	63%
1957	38	34	73	81%	2005	56	38%	62%
1958	50	5	55	61%	1947	56	39%	62%
1959	35	40	75	83%	1980	55	40%	62%
1960	41	5	46	52%	1982	55	41%	61%
1961	23	0	23	26%	1958	55	42%	61%
1962	37	2	39	43%	1954	55	43%	61%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	37	15	52	57%
1964	39	15	54	60%
1965	33	0	33	36%
1966	40	2	43	47%
1967	41	28	69	76%
1968	36	32	68	76%
1969	50	12	63	70%
1970	40	21	61	68%
1971	36	27	63	70%
1972	40	5	45	50%
1973	41	16	57	63%
1974	41	23	64	71%
1975	41	17	58	64%
1976	36	24	60	67%
1977	3	2	5	5%
1978	44	0	44	49%
1979	39	34	73	81%
1980	42	13	55	62%
1981	33	33	66	74%
1982	50	5	55	61%
1983	50	22	72	80%
1984	40	21	61	68%
1985	41	27	68	76%
1986	41	17	57	64%
1987	26	24	50	56%
1988	12	2	14	16%
1989	40	1	41	45%
1990	14	11	25	27%
1991	12	1	13	14%
1992	17	1	18	20%
1993	41	1	42	47%
1994	27	20	47	52%
1995	50	2	52	58%
1996	40	40	80	89%
1997	41	12	53	59%
1998	50	17	67	74%
1999	41	40	80	89%
2000	41	20	61	68%
2001	18	24	42	46%
2002	37	1	38	43%
2003	29	0	29	33%
2004	38	4	42	47%
2005	40	15	56	62%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1964	54	44%	60%
1944	53	45%	60%
1997	53	46%	59%
1937	53	47%	59%
1995	52	49%	58%
1963	52	50%	57%
1987	50	51%	56%
1994	47	52%	52%
1960	46	53%	52%
1927	46	54%	51%
1972	45	55%	50%
1956	44	56%	49%
1978	44	57%	49%
1951	43	58%	48%
1966	43	59%	47%
1945	42	60%	47%
2004	42	61%	47%
1950	42	63%	47%
1993	42	64%	47%
2001	42	65%	46%
1935	42	66%	46%
1922	41	67%	45%
1989	41	67%	45%
2013	40	69%	44%
1962	39	70%	43%
2002	38	71%	43%
1936	38	72%	42%
2010	38	73%	42%
1926	37	74%	41%
1948	37	76%	41%
1929	37	77%	41%
1955	36	78%	40%
1940	35	79%	39%
1924	33	80%	37%
1965	33	81%	36%
1949	31	82%	35%
1930	30	83%	34%
1933	29	84%	33%
2003	29	85%	33%
2009	26	86%	29%
1925	26	87%	28%
1990	25	88%	27%
2015	24	90%	26%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	50	32	82	91%	1961	23	91%	26%
2007	37	40	77	86%	1931	19	92%	21%
2008	16	2	17	19%	1992	18	93%	20%
2009	25	1	26	29%	2008	17	94%	19%
2010	36	2	38	42%	1932	16	95%	18%
2011	50	6	57	63%	1934	15	96%	17%
2012	41	40	80	90%	1988	14	97%	16%
2013	34	6	40	44%	1991	13	98%	14%
2014	4	0	4	4%	1977	5	99%	5%
2015	23	0	24	26%	2014	4	100%	4%
Average	35	14	48	54%		48		54%
Maximum	50	40	82	91%		82		91%
Minimum	3	0	4	4%		4		4%

Table A-19. Napa County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	18	0	18	60%	2000	29	0%	100%
1923	17	11	28	96%	1999	29	0%	100%
1924	8	11	19	64%	1998	29	0%	100%
1925	14	2	15	53%	1997	29	0%	100%
1926	14	6	20	68%	1996	29	0%	100%
1927	18	6	24	81%	1984	29	0%	100%
1928	18	11	29	99%	1983	29	0%	100%
1929	8	11	19	66%	1971	29	0%	100%
1930	14	2	15	53%	1970	29	0%	100%
1931	8	6	14	48%	1952	29	0%	100%
1932	8	2	10	33%	1943	29	0%	100%
1933	8	2	10	33%	1942	29	0%	100%
1934	8	2	10	33%	1941	29	0%	100%
1935	17	2	18	63%	2006	29	14%	100%
1936	18	11	28	97%	1974	29	14%	100%
1937	17	11	28	96%	1975	29	16%	99%
1938	18	11	28	98%	1953	29	16%	99%
1939	14	11	25	87%	1928	29	16%	99%
1940	18	6	24	81%	2005	29	19%	99%
1941	18	11	29	100%	2004	29	19%	99%
1942	18	11	29	100%	1954	29	19%	99%
1943	18	11	29	100%	2011	28	23%	98%
1944	14	11	25	87%	1986	28	23%	98%
1945	17	6	23	78%	1982	28	23%	98%
1946	17	11	27	94%	1969	28	23%	98%
1947	14	11	25	84%	1967	28	23%	98%
1948	17	6	23	78%	1963	28	23%	98%
1949	14	11	25	84%	1958	28	23%	98%
1950	17	6	23	78%	1951	28	23%	98%
1951	18	11	28	98%	1938	28	23%	98%
1952	18	11	29	100%	2003	28	32%	97%
1953	18	11	29	99%	1980	28	32%	97%
1954	18	11	29	99%	1973	28	32%	97%
1955	14	11	25	86%	1936	28	32%	97%
1956	18	6	24	81%	2012	28	37%	96%
1957	17	11	28	96%	2007	28	37%	96%
1958	18	11	28	98%	1985	28	37%	96%
1959	17	11	28	96%	1979	28	37%	96%
1960	14	11	25	84%	1972	28	37%	96%
1961	14	6	20	68%	1968	28	37%	96%
1962	17	6	23	78%	1966	28	37%	96%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	18	11	28	98%
1964	14	11	25	87%
1965	18	6	24	81%
1966	17	11	28	96%
1967	18	11	28	98%
1968	17	11	28	96%
1969	18	11	28	98%
1970	18	11	29	100%
1971	18	11	29	100%
1972	17	11	28	96%
1973	18	11	28	97%
1974	18	11	29	100%
1975	18	11	29	99%
1976	8	11	19	66%
1977	8	2	10	33%
1978	18	2	19	66%
1979	17	11	28	96%
1980	18	11	28	97%
1981	17	11	28	96%
1982	18	11	28	98%
1983	18	11	29	100%
1984	18	11	29	100%
1985	17	11	28	96%
1986	18	11	28	98%
1987	14	11	25	87%
1988	8	6	14	48%
1989	17	2	18	63%
1990	8	11	19	64%
1991	8	2	10	33%
1992	8	2	10	33%
1993	18	2	19	66%
1994	14	11	25	86%
1995	18	6	24	81%
1996	18	11	29	100%
1997	18	11	29	100%
1998	18	11	29	100%
1999	18	11	29	100%
2000	18	11	29	100%
2001	14	11	25	87%
2002	17	6	23	78%
2003	18	11	28	97%
2004	18	11	29	99%
2005	18	11	29	99%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1959	28	37%	96%
1957	28	37%	96%
1981	28	46%	96%
1937	28	46%	96%
1923	28	46%	96%
2013	27	50%	94%
1946	27	50%	94%
2001	25	52%	87%
1987	25	52%	87%
1964	25	52%	87%
1944	25	52%	87%
1939	25	52%	87%
1994	25	57%	86%
1955	25	57%	86%
2008	25	59%	84%
1960	25	59%	84%
1949	25	59%	84%
1947	25	59%	84%
1995	24	64%	81%
1965	24	64%	81%
1956	24	64%	81%
1940	24	64%	81%
1927	24	64%	81%
2010	23	69%	78%
2002	23	69%	78%
1962	23	69%	78%
1950	23	69%	78%
1948	23	69%	78%
1945	23	69%	78%
2009	20	76%	68%
1961	20	76%	68%
1926	20	76%	68%
1976	19	79%	66%
1929	19	79%	66%
1978	19	81%	66%
1993	19	82%	66%
2014	19	83%	64%
1990	19	83%	64%
1924	19	83%	64%
1989	18	86%	63%
1935	18	86%	63%
1922	18	88%	60%
1930	15	90%	53%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	18	11	29	100%	1925	15	90%	53%
2007	17	11	28	96%	1988	14	92%	48%
2008	14	11	25	84%	1931	14	92%	48%
2009	14	6	20	68%	1992	10	94%	33%
2010	17	6	23	78%	1991	10	94%	33%
2011	18	11	28	98%	1977	10	94%	33%
2012	17	11	28	96%	1934	10	94%	33%
2013	17	11	27	94%	1933	10	94%	33%
2014	8	11	19	64%	1932	10	94%	33%
2015	7	1	9	29%	2015	9	100%	29%
Average	15	9	24	83%		24		83%
Maximum	18	11	29	100%		29		100%
Minimum	7	0	9	29%		9		29%

Table A-20. Oak Flat WD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	3	0	3	45%	1999	5	0%	94%
1923	3	1	4	72%	1996	5	1%	91%
1924	1	1	2	36%	2007	5	2%	91%
1925	2	0	2	28%	2012	5	3%	91%
1926	2	0	2	39%	2006	5	3%	91%
1927	3	0	3	55%	1939	5	5%	89%
1928	3	1	4	64%	1942	5	6%	88%
1929	1	1	2	39%	1979	5	8%	86%
1930	2	0	2	33%	1959	5	9%	84%
1931	1	0	1	22%	1953	5	10%	83%
1932	1	0	1	18%	1957	5	11%	81%
1933	2	0	2	33%	1968	5	12%	80%
1934	1	0	1	17%	1985	4	13%	79%
1935	2	0	3	45%	1983	4	14%	78%
1936	2	0	2	44%	1967	4	15%	75%
1937	2	1	3	59%	1952	4	16%	75%
1938	3	1	4	68%	1981	4	17%	75%
1939	2	3	5	89%	1974	4	18%	73%
1940	2	0	2	40%	1923	4	19%	72%
1941	3	1	4	62%	1946	4	20%	72%
1942	3	2	5	88%	1943	4	22%	72%
1943	2	2	4	72%	1998	4	23%	70%
1944	1	2	4	62%	1976	4	24%	69%
1945	3	0	3	47%	1971	4	24%	69%
1946	3	1	4	72%	1970	4	26%	68%
1947	3	1	4	62%	1984	4	27%	68%
1948	2	0	2	39%	1938	4	28%	68%
1949	2	0	2	37%	2000	4	29%	66%
1950	2	0	3	45%	1969	4	30%	65%
1951	2	0	3	48%	1928	4	31%	64%
1952	2	2	4	75%	1944	4	32%	62%
1953	2	2	5	83%	1975	4	33%	62%
1954	3	1	3	61%	1947	4	35%	62%
1955	1	1	2	39%	1941	4	35%	62%
1956	3	0	3	46%	1986	4	37%	62%
1957	2	2	5	81%	1973	4	38%	62%
1958	3	0	3	60%	1954	3	39%	61%
1959	2	3	5	84%	1997	3	40%	61%
1960	2	0	3	51%	1964	3	41%	60%
1961	1	0	1	25%	1982	3	42%	60%
1962	2	0	3	44%	1958	3	43%	60%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	2	1	3	57%
1964	3	1	3	60%
1965	2	0	2	34%
1966	2	0	3	46%
1967	2	2	4	75%
1968	2	2	5	80%
1969	3	1	4	65%
1970	2	1	4	68%
1971	2	2	4	69%
1972	3	0	3	54%
1973	3	1	4	62%
1974	3	1	4	73%
1975	3	1	4	62%
1976	2	2	4	69%
1977	0	0	0	5%
1978	3	0	3	46%
1979	3	2	5	86%
1980	3	1	3	57%
1981	2	2	4	75%
1982	3	0	3	60%
1983	3	1	4	78%
1984	2	1	4	68%
1985	3	2	4	79%
1986	3	1	4	62%
1987	2	2	3	56%
1988	1	0	1	16%
1989	3	0	3	47%
1990	1	1	2	27%
1991	1	0	1	14%
1992	1	0	1	20%
1993	3	0	3	48%
1994	2	1	3	52%
1995	3	0	3	55%
1996	2	3	5	91%
1997	3	1	3	61%
1998	3	1	4	70%
1999	3	3	5	94%
2000	3	1	4	66%
2001	1	2	3	47%
2002	2	0	3	44%
2003	2	0	2	31%
2004	3	0	3	50%
2005	2	1	3	58%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2011	3	44%	59%
1937	3	45%	59%
2005	3	46%	58%
1980	3	47%	57%
1963	3	49%	57%
1987	3	50%	56%
1995	3	51%	55%
1927	3	52%	55%
1972	3	53%	54%
1994	3	54%	52%
1960	3	55%	51%
2004	3	56%	50%
1993	3	57%	48%
1951	3	58%	48%
2013	3	59%	47%
2001	3	60%	47%
1945	3	61%	47%
1989	3	63%	47%
1966	3	64%	46%
1956	3	65%	46%
1978	3	66%	46%
1922	3	67%	45%
1935	3	68%	45%
1950	3	69%	45%
1962	3	70%	44%
2002	3	71%	44%
1936	2	72%	44%
2010	2	73%	43%
1940	2	74%	40%
1926	2	76%	39%
1929	2	77%	39%
1948	2	78%	39%
1955	2	79%	39%
1949	2	80%	37%
1924	2	81%	36%
2015	2	82%	35%
1965	2	83%	34%
1930	2	84%	33%
1933	2	85%	33%
2003	2	86%	31%
2009	2	87%	29%
1925	2	88%	28%
1990	2	90%	27%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	3	2	5	91%	1961	1	91%	25%
2007	2	3	5	91%	1931	1	92%	22%
2008	1	0	1	19%	1992	1	93%	20%
2009	2	0	2	29%	2008	1	94%	19%
2010	2	0	2	43%	1932	1	95%	18%
2011	3	0	3	59%	1934	1	96%	17%
2012	2	3	5	91%	1988	1	97%	16%
2013	2	1	3	47%	1991	1	98%	14%
2014	0	0	0	4%	1977	0	99%	5%
2015	2	0	2	35%	2014	0	100%	4%
Average	2	1	3	54%		3		54%
Maximum	3	3	5	94%		5		94%
Minimum	0	0	0	4%		0		4%

Table A-21. Palmdale WD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	13	0	13	63%	2011	21	0%	100%
1923	11	2	13	60%	2006	21	0%	100%
1924	4	3	6	30%	1998	21	0%	100%
1925	6	0	6	29%	1995	21	0%	100%
1926	9	0	9	43%	1983	21	0%	100%
1927	11	1	12	56%	1982	21	0%	100%
1928	11	3	14	63%	1969	21	0%	100%
1929	5	3	7	35%	1958	21	0%	100%
1930	7	0	7	34%	1941	21	0%	100%
1931	4	1	4	20%	1938	21	0%	100%
1932	3	0	4	18%	1980	20	11%	94%
1933	7	0	7	33%	2005	20	12%	92%
1934	3	0	3	16%	1943	19	13%	90%
1935	15	0	15	71%	1952	19	14%	87%
1936	10	0	10	47%	1978	19	15%	87%
1937	10	3	13	59%	1956	19	16%	87%
1938	19	2	21	100%	1967	18	17%	84%
1939	10	0	10	46%	1986	17	18%	78%
1940	9	0	9	44%	1975	17	19%	78%
1941	19	2	21	100%	1973	16	20%	76%
1942	14	0	14	66%	2000	16	22%	76%
1943	18	1	19	90%	1966	16	23%	75%
1944	5	0	5	23%	1951	16	24%	73%
1945	14	0	14	65%	1984	15	25%	71%
1946	11	2	12	57%	1970	15	26%	71%
1947	11	2	13	62%	1996	15	27%	71%
1948	9	0	9	43%	1935	15	28%	71%
1949	6	1	7	33%	1942	14	29%	66%
1950	10	0	10	49%	1945	14	30%	65%
1951	15	0	16	73%	1928	14	31%	63%
1952	18	1	19	87%	1922	13	32%	63%
1953	10	0	10	48%	1947	13	33%	62%
1954	10	3	13	61%	1954	13	35%	61%
1955	5	3	7	35%	1964	13	36%	61%
1956	18	0	19	87%	1923	13	37%	60%
1957	10	0	10	45%	1974	13	38%	59%
1958	21	1	21	100%	1997	13	39%	59%
1959	9	0	9	41%	1937	13	40%	59%
1960	10	1	11	52%	1993	12	41%	59%
1961	5	0	5	26%	1999	12	42%	58%
1962	10	0	10	48%	1946	12	43%	57%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	10	2	12	57%
1964	10	2	13	61%
1965	8	0	8	38%
1966	16	0	16	75%
1967	17	1	18	84%
1968	10	0	10	45%
1969	19	2	21	100%
1970	15	0	15	71%
1971	9	1	10	45%
1972	11	1	12	54%
1973	14	3	16	76%
1974	11	2	13	59%
1975	14	3	17	78%
1976	10	1	11	52%
1977	1	1	1	5%
1978	19	0	19	87%
1979	10	0	10	48%
1980	18	2	20	94%
1981	8	0	8	39%
1982	20	1	21	100%
1983	21	0	21	100%
1984	15	0	15	71%
1985	11	1	12	55%
1986	14	3	17	78%
1987	6	1	8	36%
1988	3	0	3	16%
1989	11	0	11	51%
1990	3	3	6	28%
1991	3	0	3	14%
1992	4	0	4	20%
1993	12	0	12	59%
1994	7	2	9	41%
1995	21	0	21	100%
1996	15	0	15	71%
1997	12	0	13	59%
1998	19	2	21	100%
1999	12	0	12	58%
2000	14	2	16	76%
2001	4	1	6	26%
2002	10	0	10	48%
2003	7	0	7	34%
2004	10	1	11	51%
2005	17	3	20	92%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1963	12	44%	57%
1927	12	45%	56%
1985	12	46%	55%
1972	12	47%	54%
1960	11	49%	52%
1976	11	50%	52%
2004	11	51%	51%
1989	11	52%	51%
1950	10	53%	49%
1979	10	54%	48%
1962	10	55%	48%
2002	10	56%	48%
2012	10	57%	48%
1953	10	58%	48%
1936	10	59%	47%
2007	10	60%	47%
2010	10	61%	47%
1939	10	63%	46%
1971	10	64%	45%
2013	10	65%	45%
1968	10	66%	45%
1957	10	67%	45%
1940	9	68%	44%
1948	9	69%	43%
1926	9	70%	43%
1994	9	71%	41%
1959	9	72%	41%
1981	8	73%	39%
1965	8	74%	38%
1987	8	76%	36%
1929	7	77%	35%
1955	7	78%	35%
1930	7	79%	34%
2003	7	80%	34%
1949	7	81%	33%
1933	7	82%	33%
1924	6	83%	30%
2009	6	84%	30%
2015	6	85%	29%
1925	6	86%	29%
1990	6	87%	28%
2001	6	88%	26%
1961	5	90%	26%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	21	0	21	100%	1944	5	91%	23%
2007	10	0	10	47%	1931	4	92%	20%
2008	4	0	4	19%	1992	4	93%	20%
2009	6	0	6	30%	2008	4	94%	19%
2010	10	0	10	47%	1932	4	95%	18%
2011	20	1	21	100%	1934	3	96%	16%
2012	10	0	10	48%	1988	3	97%	16%
2013	9	1	10	45%	1991	3	98%	14%
2014	1	0	1	4%	1977	1	99%	5%
2015	6	0	6	29%	2014	1	100%	4%
Average	11	1	12	55%		12		55%
Maximum	21	3	21	100%		21		100%
Minimum	1	0	1	4%		1		4%

Table A-22. San Bernardino Valley MWD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	67	0	67	65%	1983	101	0%	99%
1923	62	6	68	66%	2006	101	1%	98%
1924	19	4	23	22%	1998	97	2%	94%
1925	29	1	30	29%	1938	96	3%	94%
1926	44	1	45	44%	1969	95	4%	93%
1927	62	2	64	63%	1982	95	5%	92%
1928	62	4	66	64%	1958	95	6%	92%
1929	24	4	28	27%	2011	94	8%	92%
1930	35	1	36	35%	1995	94	9%	91%
1931	19	1	20	20%	1941	88	10%	85%
1932	17	1	18	18%	1952	84	11%	82%
1933	34	1	34	33%	1943	84	12%	81%
1934	15	1	16	16%	1967	82	13%	80%
1935	55	0	56	54%	1978	81	14%	79%
1936	57	0	57	56%	1980	81	15%	79%
1937	57	4	60	59%	1956	80	16%	78%
1938	93	3	96	94%	1996	80	17%	78%
1939	29	10	38	37%	1970	78	18%	76%
1940	53	0	53	51%	1984	78	19%	76%
1941	84	3	88	85%	2005	78	20%	76%
1942	68	9	77	75%	1942	77	22%	75%
1943	78	6	84	81%	1999	75	23%	73%
1944	24	8	33	32%	2000	73	24%	71%
1945	67	1	68	66%	1966	72	25%	70%
1946	60	6	66	64%	1975	72	26%	70%
1947	39	3	43	42%	1986	72	27%	70%
1948	46	0	46	45%	1951	71	28%	70%
1949	31	2	33	33%	1973	71	29%	69%
1950	50	1	51	50%	1985	69	30%	67%
1951	70	1	71	70%	1945	68	31%	66%
1952	77	7	84	82%	1923	68	32%	66%
1953	57	8	66	64%	1997	68	33%	66%
1954	59	4	63	61%	1974	67	35%	66%
1955	24	4	28	27%	1922	67	36%	65%
1956	80	0	80	78%	1979	67	37%	65%
1957	48	9	57	55%	2007	66	38%	65%
1958	93	2	95	92%	1946	66	39%	64%
1959	44	10	54	52%	1953	66	40%	64%
1960	51	2	54	52%	1928	66	41%	64%
1961	27	0	27	27%	1993	65	42%	63%
1962	56	1	56	55%	1927	64	43%	63%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	55	3	59	57%
1964	59	3	63	61%
1965	41	0	41	40%
1966	71	1	72	70%
1967	75	7	82	80%
1968	54	8	62	61%
1969	93	3	95	93%
1970	70	8	78	76%
1971	45	7	51	50%
1972	60	2	62	61%
1973	67	4	71	69%
1974	62	6	67	66%
1975	68	4	72	70%
1976	54	6	60	59%
1977	3	2	6	6%
1978	81	0	81	79%
1979	58	9	67	65%
1980	78	3	81	79%
1981	42	8	50	49%
1982	93	2	95	92%
1983	93	9	101	99%
1984	70	8	78	76%
1985	62	7	69	67%
1986	68	4	72	70%
1987	31	6	37	36%
1988	15	1	16	15%
1989	60	0	61	59%
1990	16	4	20	20%
1991	14	0	15	14%
1992	20	0	21	20%
1993	65	1	65	63%
1994	33	5	37	37%
1995	93	1	94	91%
1996	70	10	80	78%
1997	64	3	68	66%
1998	93	4	97	94%
1999	65	10	75	73%
2000	68	5	73	71%
2001	21	6	27	26%
2002	56	1	56	55%
2003	36	0	36	35%
2004	58	2	60	58%
2005	74	4	78	76%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1954	63	44%	61%
1964	63	45%	61%
1972	62	46%	61%
1968	62	47%	61%
2012	61	49%	59%
1989	61	50%	59%
1976	60	51%	59%
1937	60	52%	59%
2004	60	53%	58%
1963	59	54%	57%
1936	57	55%	56%
1957	57	56%	55%
2002	56	57%	55%
1962	56	58%	55%
1935	56	59%	54%
2010	55	60%	53%
1959	54	61%	52%
1960	54	63%	52%
1940	53	64%	51%
1971	51	65%	50%
1950	51	66%	50%
1981	50	67%	49%
1948	46	68%	45%
1926	45	69%	44%
2013	44	70%	43%
1947	43	71%	42%
1965	41	72%	40%
1939	38	73%	37%
1994	37	74%	37%
1987	37	76%	36%
2003	36	77%	35%
1930	36	78%	35%
1933	34	79%	33%
1949	33	80%	33%
1944	33	81%	32%
2009	31	82%	30%
1925	30	83%	29%
2015	28	84%	27%
1929	28	85%	27%
1955	28	86%	27%
1961	27	87%	27%
2001	27	88%	26%
1924	23	90%	22%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	93	8	101	98%	2008	21	91%	20%
2007	56	10	66	65%	1992	21	91%	20%
2008	19	2	21	20%	1931	20	93%	20%
2009	30	1	31	30%	1990	20	94%	20%
2010	54	1	55	53%	1932	18	95%	18%
2011	93	1	94	92%	1934	16	96%	16%
2012	51	10	61	59%	1988	16	97%	15%
2013	42	3	44	43%	1991	15	98%	14%
2014	5	0	5	4%	1977	6	99%	6%
2015	28	0	28	27%	2014	5	100%	4%
Average	53	4	57	56%		57		56%
Maximum	93	10	101	99%		101		99%
Minimum	3	0	5	4%		5		4%

Table A-23. San Gabriel Valley MWD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	20	0	20	71%	2011	29	0%	100%
1923	19	0	19	65%	2006	29	0%	100%
1924	5	0	5	19%	1998	29	0%	100%
1925	8	0	8	29%	1995	29	0%	100%
1926	13	0	13	45%	1983	29	0%	100%
1927	18	0	18	64%	1982	29	0%	100%
1928	18	0	18	64%	1969	29	0%	100%
1929	7	0	7	24%	1958	29	0%	100%
1930	10	0	10	36%	1938	29	0%	100%
1931	5	0	5	19%	1941	26	10%	91%
1932	5	0	5	18%	1978	25	11%	87%
1933	10	0	10	34%	1956	25	12%	86%
1934	4	0	4	15%	1980	24	13%	84%
1935	18	0	18	64%	1943	24	14%	84%
1936	17	0	17	59%	1952	24	15%	84%
1937	17	0	17	59%	1967	23	16%	81%
1938	29	0	29	100%	2005	23	17%	80%
1939	10	0	10	36%	1966	22	18%	76%
1940	16	0	16	55%	1984	22	19%	75%
1941	26	0	26	91%	1951	22	20%	75%
1942	21	0	21	72%	1970	22	20%	75%
1943	24	0	24	84%	1996	22	23%	75%
1944	7	0	7	24%	1942	21	24%	72%
1945	21	0	21	71%	2000	21	25%	72%
1946	18	0	18	63%	1975	21	26%	72%
1947	16	0	16	55%	1986	21	27%	72%
1948	14	0	14	47%	1945	21	28%	71%
1949	9	0	9	31%	1973	20	29%	71%
1950	15	0	15	51%	1922	20	30%	71%
1951	22	0	22	75%	1999	20	31%	68%
1952	24	0	24	84%	1993	19	32%	67%
1953	17	0	17	59%	1997	19	33%	67%
1954	18	0	18	62%	1923	19	35%	65%
1955	7	0	7	24%	1935	18	36%	64%
1956	25	0	25	86%	1927	18	37%	64%
1957	14	0	14	49%	1974	18	38%	64%
1958	29	0	29	100%	1985	18	39%	64%
1959	13	0	13	45%	1928	18	40%	64%
1960	10	0	10	36%	1946	18	41%	63%
1961	8	0	8	28%	1972	18	42%	62%
1962	17	0	17	58%	1989	18	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	17	0	17	57%
1964	18	0	18	61%
1965	12	0	12	42%
1966	22	0	22	76%
1967	23	0	23	81%
1968	16	0	16	56%
1969	29	0	29	100%
1970	22	0	22	75%
1971	13	0	13	46%
1972	18	0	18	62%
1973	20	0	20	71%
1974	18	0	18	64%
1975	21	0	21	72%
1976	16	0	16	56%
1977	1	0	1	3%
1978	25	0	25	87%
1979	17	0	17	60%
1980	24	0	24	84%
1981	12	0	12	43%
1982	29	0	29	100%
1983	29	0	29	100%
1984	22	0	22	75%
1985	18	0	18	64%
1986	21	0	21	72%
1987	9	0	9	31%
1988	4	0	4	15%
1989	18	0	18	62%
1990	5	0	5	16%
1991	4	0	4	14%
1992	6	0	6	20%
1993	19	0	19	67%
1994	7	0	7	25%
1995	29	0	29	100%
1996	22	0	22	75%
1997	19	0	19	67%
1998	29	0	29	100%
1999	20	0	20	68%
2000	21	0	21	72%
2001	6	0	6	21%
2002	17	0	17	58%
2003	11	0	11	37%
2004	17	0	17	60%
2005	23	0	23	80%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1954	18	44%	62%
1964	18	45%	61%
1979	17	46%	60%
2004	17	47%	60%
1953	17	49%	59%
1936	17	50%	59%
1937	17	51%	59%
2007	17	52%	58%
2002	17	53%	58%
1962	17	54%	58%
1963	17	55%	57%
1976	16	56%	56%
1968	16	57%	56%
2010	16	58%	56%
1947	16	59%	55%
1940	16	60%	55%
2012	15	61%	52%
1950	15	63%	51%
1957	14	64%	49%
1948	14	65%	47%
2013	13	66%	46%
1971	13	67%	46%
1926	13	68%	45%
1959	13	69%	45%
1981	12	70%	43%
1965	12	71%	42%
2015	11	72%	39%
2003	11	73%	37%
1939	10	74%	36%
1960	10	76%	36%
1930	10	77%	36%
1933	10	78%	34%
1949	9	79%	31%
1987	9	80%	31%
2009	9	81%	30%
1925	8	82%	29%
1961	8	83%	28%
1994	7	84%	25%
1944	7	85%	24%
1955	7	86%	24%
1929	7	87%	24%
2001	6	88%	21%
1992	6	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	29	0	29	100%	1924	5	91%	19%
2007	17	0	17	58%	1931	5	92%	19%
2008	5	0	5	19%	2008	5	93%	19%
2009	9	0	9	30%	1932	5	94%	18%
2010	16	0	16	56%	1990	5	95%	16%
2011	29	0	29	100%	1934	4	96%	15%
2012	15	0	15	52%	1988	4	97%	15%
2013	13	0	13	46%	1991	4	98%	14%
2014	1	0	1	5%	2014	1	99%	5%
2015	11	0	11	39%	1977	1	100%	3%
Average	16	0	16	56%		16		56%
Maximum	29	0	29	100%		29		100%
Minimum	1	0	1	3%		1		3%

Table A-24. San Gorgonio Pass WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	10	0	10	60%	2006	16	0%	95%
1923	10	2	12	70%	1983	16	1%	91%
1924	3	1	4	24%	1996	15	2%	84%
1925	5	0	5	29%	1999	14	3%	83%
1926	7	0	7	43%	1998	14	4%	83%
1927	10	0	11	61%	1942	14	5%	82%
1928	10	1	11	64%	1938	14	6%	81%
1929	4	1	5	29%	1969	14	8%	80%
1930	6	0	6	35%	1982	14	9%	79%
1931	3	0	3	20%	1958	14	10%	79%
1932	3	0	3	18%	1952	14	11%	78%
1933	6	0	6	33%	2011	14	12%	78%
1934	3	0	3	16%	2007	13	13%	78%
1935	8	0	9	50%	1967	13	14%	77%
1936	9	0	9	54%	1995	13	14%	77%
1937	9	1	10	59%	1943	13	16%	76%
1938	13	1	14	81%	1979	13	17%	76%
1939	6	4	10	59%	1970	13	18%	74%
1940	9	0	9	50%	1953	13	19%	74%
1941	12	1	13	74%	1984	13	20%	74%
1942	10	4	14	82%	1941	13	22%	74%
1943	11	2	13	76%	1985	13	23%	74%
1944	4	3	8	44%	2012	13	24%	73%
1945	10	0	11	61%	1968	12	25%	71%
1946	10	2	12	69%	1923	12	26%	70%
1947	8	1	9	49%	1974	12	27%	70%
1948	8	0	8	44%	1946	12	28%	69%
1949	5	1	6	33%	2000	12	29%	68%
1950	8	0	9	49%	1980	12	30%	68%
1951	10	0	11	62%	1957	12	31%	67%
1952	11	3	14	78%	1978	11	32%	66%
1953	9	3	13	74%	1997	11	33%	66%
1954	10	1	11	61%	1959	11	35%	66%
1955	4	1	5	28%	1956	11	35%	66%
1956	11	0	11	66%	2005	11	37%	66%
1957	8	4	12	67%	1975	11	38%	66%
1958	13	0	14	79%	1986	11	39%	65%
1959	7	4	11	66%	1973	11	40%	65%
1960	9	0	9	52%	1928	11	41%	64%
1961	5	0	5	26%	1976	11	42%	64%
1962	9	0	9	54%	1951	11	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	9	1	10	57%
1964	10	1	11	61%
1965	7	0	7	39%
1966	10	0	11	61%
1967	11	3	13	77%
1968	9	3	12	71%
1969	13	1	14	80%
1970	10	2	13	74%
1971	7	3	10	58%
1972	10	0	10	60%
1973	10	1	11	65%
1974	10	2	12	70%
1975	10	1	11	66%
1976	9	2	11	64%
1977	1	0	1	6%
1978	11	0	11	66%
1979	10	4	13	76%
1980	11	1	12	68%
1981	7	3	10	60%
1982	13	0	14	79%
1983	13	3	16	91%
1984	10	2	13	74%
1985	10	3	13	74%
1986	10	1	11	65%
1987	5	2	7	42%
1988	2	0	3	15%
1989	10	0	10	58%
1990	3	1	4	21%
1991	2	0	2	14%
1992	3	0	3	20%
1993	10	0	10	60%
1994	5	1	7	40%
1995	13	0	13	77%
1996	10	4	15	84%
1997	10	1	11	66%
1998	13	1	14	83%
1999	10	4	14	83%
2000	10	1	12	68%
2001	3	2	6	33%
2002	9	0	9	54%
2003	6	0	6	35%
2004	10	0	10	57%
2005	11	1	11	66%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1966	11	44%	61%
1954	11	45%	61%
1927	11	46%	61%
1964	11	47%	61%
1945	11	49%	61%
1981	10	50%	60%
1972	10	51%	60%
1993	10	52%	60%
1922	10	53%	60%
1939	10	54%	59%
1937	10	55%	59%
1971	10	56%	58%
1989	10	57%	58%
1963	10	58%	57%
2004	10	59%	57%
1936	9	60%	54%
2002	9	61%	54%
1962	9	63%	54%
2010	9	64%	52%
1960	9	65%	52%
1940	9	66%	50%
1935	9	67%	50%
1947	9	68%	49%
1950	9	69%	49%
1948	8	70%	44%
2013	8	71%	44%
1944	8	72%	44%
1926	7	73%	43%
1987	7	74%	42%
1994	7	76%	40%
1965	7	77%	39%
2003	6	78%	35%
1930	6	79%	35%
1933	6	80%	33%
1949	6	81%	33%
2001	6	82%	33%
2015	5	83%	30%
2009	5	84%	30%
1925	5	85%	29%
1929	5	86%	29%
1955	5	87%	28%
1961	5	88%	26%
1924	4	90%	24%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	13	3	16	95%	1990	4	91%	21%
2007	9	4	13	78%	1992	3	92%	20%
2008	3	0	3	20%	1931	3	93%	20%
2009	5	0	5	30%	2008	3	94%	20%
2010	9	0	9	52%	1932	3	95%	18%
2011	13	0	14	78%	1934	3	96%	16%
2012	8	4	13	73%	1988	3	97%	15%
2013	7	1	8	44%	1991	2	98%	14%
2014	1	0	1	4%	1977	1	99%	6%
2015	5	0	5	30%	2014	1	100%	4%
Average	8	1	10	55%		10		55%
Maximum	13	4	16	95%		16		95%
Minimum	1	0	1	4%		1		4%

Table A-25. San Luis Obispo County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	11	0	11	44%	2006	23	0%	91%
1923	11	7	18	71%	1999	22	1%	90%
1924	4	5	9	37%	1996	22	2%	89%
1925	6	1	7	28%	2012	22	3%	87%
1926	9	1	10	40%	2007	22	4%	86%
1927	11	2	13	54%	1942	21	5%	86%
1928	11	5	16	64%	1939	21	6%	84%
1929	5	5	10	40%	1979	20	8%	81%
1930	7	1	8	33%	1959	20	9%	81%
1931	4	2	6	22%	1953	20	10%	79%
1932	4	1	4	18%	1983	20	11%	79%
1933	7	1	8	31%	1957	19	12%	78%
1934	3	1	5	18%	1952	19	13%	77%
1935	11	1	12	46%	1967	19	14%	76%
1936	10	0	10	41%	1968	19	15%	76%
1937	10	5	15	59%	1985	19	16%	76%
1938	14	5	18	72%	1998	18	17%	74%
1939	10	11	21	84%	1943	18	18%	74%
1940	9	0	9	38%	1938	18	19%	72%
1941	12	4	17	66%	1981	18	20%	72%
1942	11	10	21	86%	1923	18	22%	71%
1943	11	7	18	74%	1974	18	23%	71%
1944	5	10	15	59%	1946	18	24%	70%
1945	11	1	12	48%	1969	17	25%	69%
1946	11	7	18	70%	1970	17	26%	68%
1947	11	4	15	62%	2000	17	27%	68%
1948	9	0	9	37%	1984	17	28%	68%
1949	7	3	9	37%	1976	17	29%	67%
1950	10	1	11	45%	1971	17	30%	67%
1951	11	1	12	49%	1941	17	31%	66%
1952	11	8	19	77%	1928	16	32%	64%
1953	10	10	20	79%	1975	16	33%	64%
1954	11	5	15	61%	1986	16	35%	64%
1955	5	5	10	39%	1982	16	36%	64%
1956	12	0	12	49%	1958	16	37%	63%
1957	10	10	19	78%	1973	16	38%	63%
1958	14	2	16	63%	2011	16	39%	62%
1959	9	11	20	81%	2005	15	40%	62%
1960	10	2	13	51%	1947	15	40%	62%
1961	6	0	6	23%	1980	15	42%	61%
1962	10	1	11	44%	1954	15	43%	61%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	10	4	14	57%
1964	11	4	15	60%
1965	8	0	8	33%
1966	11	1	12	48%
1967	11	8	19	76%
1968	10	9	19	76%
1969	14	4	17	69%
1970	11	6	17	68%
1971	9	8	17	67%
1972	11	2	13	53%
1973	11	5	16	63%
1974	11	7	18	71%
1975	11	5	16	64%
1976	10	7	17	67%
1977	1	1	1	5%
1978	12	0	12	48%
1979	10	10	20	81%
1980	11	4	15	61%
1981	8	10	18	72%
1982	14	2	16	64%
1983	14	6	20	79%
1984	11	6	17	68%
1985	11	8	19	76%
1986	11	5	16	64%
1987	7	7	14	54%
1988	3	1	4	17%
1989	11	1	11	45%
1990	3	3	7	26%
1991	3	1	4	15%
1992	4	1	5	19%
1993	11	1	12	47%
1994	7	6	13	51%
1995	14	1	15	59%
1996	11	11	22	89%
1997	11	4	15	59%
1998	14	5	18	74%
1999	11	11	22	90%
2000	11	6	17	68%
2001	4	7	12	46%
2002	10	1	11	43%
2003	7	0	7	29%
2004	10	2	12	49%
2005	11	5	15	62%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1964	15	44%	60%
1995	15	45%	59%
1944	15	46%	59%
1937	15	47%	59%
1997	15	49%	59%
1963	14	50%	57%
1987	14	51%	54%
1927	13	52%	54%
1972	13	53%	53%
1994	13	54%	51%
1960	13	55%	51%
2004	12	56%	49%
1951	12	57%	49%
1956	12	58%	49%
1945	12	59%	48%
1978	12	60%	48%
1966	12	61%	48%
1993	12	63%	47%
2013	12	64%	47%
1935	12	65%	46%
2001	12	66%	46%
1989	11	67%	45%
1950	11	68%	45%
1922	11	69%	44%
1962	11	70%	44%
2010	11	71%	43%
2002	11	72%	43%
1936	10	73%	41%
1929	10	74%	40%
1926	10	76%	40%
1955	10	77%	39%
1940	9	78%	38%
1948	9	79%	37%
1924	9	80%	37%
1949	9	81%	37%
1930	8	82%	33%
1965	8	83%	33%
1933	8	84%	31%
2003	7	85%	29%
2009	7	86%	28%
1925	7	87%	28%
1990	7	88%	26%
2015	6	90%	26%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	14	9	23	91%	1961	6	91%	23%
2007	10	11	22	86%	1931	6	92%	22%
2008	4	0	4	18%	1992	5	93%	19%
2009	6	1	7	28%	1934	5	94%	18%
2010	10	1	11	43%	2008	4	95%	18%
2011	14	2	16	62%	1932	4	96%	18%
2012	10	11	22	87%	1988	4	97%	17%
2013	9	3	12	47%	1991	4	98%	15%
2014	1	0	1	4%	1977	1	99%	5%
2015	6	0	6	26%	2014	1	100%	4%
Average	9	4	13	54%		13		54%
Maximum	14	11	23	91%		23		91%
Minimum	1	0	1	4%		1		4%

Table A-26. Santa Barbara County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	28	0	28	62%	2006	42	0%	92%
1923	28	4	32	71%	1983	39	1%	86%
1924	9	1	10	22%	1999	39	2%	85%
1925	13	0	13	29%	1942	38	3%	83%
1926	20	0	20	44%	1998	37	4%	81%
1927	28	0	28	63%	2007	36	5%	80%
1928	28	1	29	64%	1979	36	6%	79%
1929	11	1	12	26%	1938	36	8%	79%
1930	16	0	16	35%	1969	36	9%	78%
1931	9	0	9	19%	1952	35	10%	78%
1932	8	0	8	18%	1982	35	11%	78%
1933	15	0	15	34%	2011	35	12%	78%
1934	7	0	7	15%	1958	35	13%	78%
1935	25	0	25	54%	1996	35	14%	77%
1936	26	0	26	58%	1939	35	15%	77%
1937	26	1	27	59%	1953	35	16%	77%
1938	35	1	36	79%	1995	35	17%	77%
1939	25	10	35	77%	1967	35	18%	77%
1940	24	0	24	53%	1985	34	19%	75%
1941	32	1	33	72%	1943	34	20%	75%
1942	28	10	38	83%	2012	34	22%	75%
1943	29	5	34	75%	1968	33	23%	73%
1944	11	9	20	44%	1941	33	24%	72%
1945	28	0	28	62%	1970	32	25%	71%
1946	28	4	32	70%	1923	32	26%	71%
1947	28	1	29	63%	1974	32	27%	71%
1948	21	0	21	46%	1946	32	28%	70%
1949	14	0	15	32%	1984	32	29%	70%
1950	23	0	23	51%	1957	31	30%	68%
1951	28	0	28	62%	1997	31	31%	68%
1952	29	6	35	78%	2000	31	32%	68%
1953	26	9	35	77%	1959	31	33%	67%
1954	27	1	28	61%	1978	30	35%	67%
1955	11	1	12	26%	1956	30	36%	66%
1956	30	0	30	66%	1980	30	37%	66%
1957	22	9	31	68%	1976	30	38%	65%
1958	35	0	35	78%	1975	29	39%	64%
1959	20	11	31	67%	1928	29	40%	64%
1960	24	0	24	52%	1986	29	41%	64%
1961	13	0	13	28%	1973	29	42%	64%
1962	25	0	25	56%	1947	29	43%	63%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	25	1	26	57%
1964	27	1	28	61%
1965	19	0	19	41%
1966	28	0	28	62%
1967	28	7	35	77%
1968	25	8	33	73%
1969	35	1	36	78%
1970	28	4	32	71%
1971	20	6	26	58%
1972	28	0	28	61%
1973	28	1	29	64%
1974	28	4	32	71%
1975	28	1	29	64%
1976	25	5	30	65%
1977	1	1	2	5%
1978	30	0	30	67%
1979	27	9	36	79%
1980	29	1	30	66%
1981	19	9	28	61%
1982	35	0	35	78%
1983	35	4	39	86%
1984	28	4	32	70%
1985	28	6	34	75%
1986	28	1	29	64%
1987	14	5	19	41%
1988	7	0	7	15%
1989	28	0	28	60%
1990	7	1	8	18%
1991	6	0	6	14%
1992	9	0	9	20%
1993	28	0	28	62%
1994	15	2	17	38%
1995	35	0	35	77%
1996	28	7	35	77%
1997	28	3	31	68%
1998	35	2	37	81%
1999	28	11	39	85%
2000	28	3	31	68%
2001	10	5	14	31%
2002	26	0	26	56%
2003	17	0	17	36%
2004	27	0	27	59%
2005	28	1	29	63%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2005	29	44%	63%
1927	28	45%	63%
1945	28	46%	62%
1922	28	47%	62%
1993	28	49%	62%
1951	28	50%	62%
1966	28	51%	62%
1954	28	52%	61%
1972	28	53%	61%
1981	28	54%	61%
1964	28	55%	61%
1989	28	56%	60%
2004	27	57%	59%
1937	27	58%	59%
1971	26	59%	58%
1936	26	60%	58%
1963	26	61%	57%
2002	26	63%	56%
1962	25	64%	56%
1935	25	65%	54%
2010	25	66%	54%
1940	24	67%	53%
1960	24	68%	52%
1950	23	69%	51%
1948	21	70%	46%
2013	21	71%	46%
1926	20	72%	44%
1944	20	73%	44%
1987	19	74%	41%
1965	19	76%	41%
1994	17	77%	38%
2003	17	78%	36%
1930	16	79%	35%
1933	15	80%	34%
1949	15	81%	32%
2001	14	82%	31%
2015	14	83%	31%
2009	14	84%	30%
1925	13	85%	29%
1961	13	86%	28%
1929	12	87%	26%
1955	12	88%	26%
1924	10	90%	22%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	35	7	42	92%	2008	9	91%	20%
2007	26	11	36	80%	1992	9	92%	20%
2008	9	1	9	20%	1931	9	93%	19%
2009	14	0	14	30%	1990	8	94%	18%
2010	25	0	25	54%	1932	8	95%	18%
2011	35	0	35	78%	1934	7	96%	15%
2012	23	11	34	75%	1988	7	97%	15%
2013	20	0	21	46%	1991	6	98%	14%
2014	2	0	2	5%	1977	2	99%	5%
2015	14	0	14	31%	2014	2	100%	5%
Average	23	2	25	56%		25		56%
Maximum	35	11	42	92%		42		92%
Minimum	1	0	2	5%		2		5%

Table A-27. Santa Clara Valley WD (Valley Water): Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	63	0	63	63%	2006	96	0%	96%
1923	62	8	69	69%	1983	94	1%	94%
1924	19	3	22	22%	1998	85	2%	85%
1925	29	0	29	29%	1938	83	3%	83%
1926	44	0	44	44%	1996	83	4%	83%
1927	61	1	63	63%	1969	83	5%	83%
1928	61	3	64	64%	1982	82	6%	82%
1929	24	3	26	26%	1958	82	8%	82%
1930	35	0	35	35%	2011	82	9%	82%
1931	19	1	19	19%	1999	82	10%	82%
1932	17	0	18	18%	1995	81	11%	81%
1933	34	0	34	34%	1942	81	12%	81%
1934	15	0	15	15%	1952	79	13%	79%
1935	64	0	64	64%	1967	77	14%	77%
1936	57	0	57	57%	1943	77	15%	77%
1937	57	2	59	59%	1970	76	16%	76%
1938	81	2	83	83%	1941	76	17%	76%
1939	47	19	66	66%	1984	76	18%	76%
1940	53	0	53	53%	2007	75	19%	75%
1941	74	2	76	76%	1979	75	20%	75%
1942	63	18	81	81%	1953	73	22%	73%
1943	68	9	77	77%	1985	73	23%	73%
1944	24	16	40	40%	1978	70	24%	70%
1945	63	0	64	64%	2012	70	25%	70%
1946	60	8	68	68%	1956	70	26%	70%
1947	48	2	50	50%	1980	70	27%	70%
1948	46	0	46	46%	1968	70	28%	70%
1949	31	1	32	32%	1923	69	29%	69%
1950	50	0	50	50%	1974	69	30%	69%
1951	64	1	64	64%	2000	69	31%	69%
1952	67	11	79	79%	1946	68	32%	68%
1953	57	16	73	73%	1997	68	33%	68%
1954	59	2	61	61%	2005	67	35%	67%
1955	24	2	26	26%	1975	66	36%	66%
1956	70	0	70	70%	1939	66	37%	66%
1957	48	17	64	64%	1986	66	38%	66%
1958	81	1	82	82%	1973	65	39%	65%
1959	43	19	63	63%	1966	64	40%	64%
1960	51	1	52	52%	1951	64	41%	64%
1961	27	0	27	27%	1957	64	42%	64%
1962	55	0	56	56%	1928	64	43%	64%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	55	2	57	57%
1964	59	2	61	61%
1965	40	0	40	40%
1966	64	1	64	64%
1967	65	12	77	77%
1968	54	16	70	70%
1969	81	2	83	83%
1970	64	12	76	76%
1971	44	11	56	56%
1972	60	1	61	61%
1973	63	2	65	65%
1974	61	8	69	69%
1975	63	3	66	66%
1976	54	9	63	63%
1977	3	2	5	5%
1978	70	0	70	70%
1979	58	17	75	75%
1980	68	2	70	70%
1981	41	16	57	57%
1982	81	1	82	82%
1983	81	13	94	94%
1984	64	12	76	76%
1985	61	11	73	73%
1986	63	3	66	66%
1987	31	9	40	40%
1988	15	0	15	15%
1989	60	0	60	60%
1990	16	2	19	19%
1991	14	0	14	14%
1992	20	0	20	20%
1993	62	0	63	63%
1994	32	5	38	38%
1995	81	0	81	81%
1996	64	19	83	83%
1997	62	5	68	68%
1998	81	4	85	85%
1999	62	19	82	82%
2000	63	6	69	69%
2001	21	9	30	30%
2002	56	0	56	56%
2003	36	0	36	36%
2004	58	1	59	59%
2005	65	2	67	67%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1935	64	44%	64%
1945	64	45%	64%
1976	63	46%	63%
1922	63	47%	63%
1959	63	49%	63%
1927	63	50%	63%
1993	63	51%	63%
1954	61	52%	61%
1972	61	53%	61%
1964	61	54%	61%
1989	60	55%	60%
1937	59	56%	59%
2004	59	57%	59%
1981	57	58%	57%
1963	57	59%	57%
1936	57	60%	57%
2002	56	61%	56%
1971	56	63%	56%
1962	56	64%	56%
2010	54	65%	54%
1940	53	66%	53%
1960	52	67%	52%
1947	50	68%	50%
1950	50	69%	50%
2013	46	70%	46%
1948	46	71%	46%
1926	44	72%	44%
1965	40	73%	40%
1944	40	74%	40%
1987	40	76%	40%
1994	38	77%	38%
2003	36	78%	36%
1930	35	79%	35%
1933	34	80%	34%
1949	32	81%	32%
2009	30	82%	30%
2001	30	83%	30%
1925	29	84%	29%
1961	27	85%	27%
1929	26	86%	26%
1955	26	87%	26%
1924	22	88%	22%
2015	22	90%	22%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	81	15	96	96%	2008	20	91%	20%
2007	56	19	75	75%	1992	20	92%	20%
2008	19	2	20	20%	1931	19	93%	19%
2009	30	0	30	30%	1990	19	94%	19%
2010	54	0	54	54%	1932	18	95%	18%
2011	81	1	82	82%	1934	15	96%	15%
2012	51	19	70	70%	1988	15	97%	15%
2013	45	2	46	46%	1991	14	98%	14%
2014	5	0	5	5%	1977	5	99%	5%
2015	21	0	22	22%	2014	5	100%	5%
Average	51	5	56	56%		56		56%
Maximum	81	19	96	96%		96		96%
Minimum	3	0	5	5%		5		5%

Table A-28. Solano County WA: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	22	0	22	47%	2000	48	0%	100%
1923	20	22	42	89%	1999	48	0%	100%
1924	11	20	31	66%	1998	48	0%	100%
1925	20	1	21	43%	1997	48	0%	100%
1926	20	3	23	48%	1996	48	0%	100%
1927	24	3	27	56%	1984	48	0%	100%
1928	22	24	46	97%	1983	48	0%	100%
1929	11	22	34	70%	1971	48	0%	100%
1930	20	1	21	43%	1970	48	0%	100%
1931	11	3	14	30%	1952	48	0%	100%
1932	11	1	12	25%	1943	48	0%	100%
1933	11	1	12	25%	1942	48	0%	100%
1934	11	1	12	25%	1941	48	0%	100%
1935	20	1	21	43%	2006	46	14%	97%
1936	22	20	42	89%	1974	46	14%	97%
1937	20	22	42	89%	1975	46	16%	97%
1938	24	20	44	92%	1953	46	16%	97%
1939	20	24	44	92%	1928	46	16%	97%
1940	24	3	27	56%	2005	44	19%	93%
1941	24	24	48	100%	2004	44	19%	93%
1942	24	24	48	100%	1954	44	19%	93%
1943	24	24	48	100%	2011	44	23%	92%
1944	20	24	44	92%	1986	44	23%	92%
1945	20	3	23	48%	1982	44	23%	92%
1946	20	20	40	84%	1969	44	23%	92%
1947	20	20	40	84%	1967	44	23%	92%
1948	20	3	23	48%	1963	44	23%	92%
1949	20	20	40	84%	1958	44	23%	92%
1950	20	3	23	48%	1951	44	23%	92%
1951	24	20	44	92%	1938	44	23%	92%
1952	24	24	48	100%	2012	44	32%	92%
1953	22	24	46	97%	2007	44	32%	92%
1954	22	22	44	93%	1985	44	32%	92%
1955	20	22	42	88%	1979	44	32%	92%
1956	24	3	27	56%	1972	44	32%	92%
1957	20	24	44	92%	1968	44	32%	92%
1958	24	20	44	92%	1966	44	32%	92%
1959	20	24	44	92%	1959	44	32%	92%
1960	20	20	40	84%	1957	44	32%	92%
1961	20	3	23	48%	2001	44	42%	92%
1962	20	3	23	48%	1987	44	42%	92%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	24	20	44	92%
1964	20	24	44	92%
1965	24	3	27	56%
1966	20	24	44	92%
1967	24	20	44	92%
1968	20	24	44	92%
1969	24	20	44	92%
1970	24	24	48	100%
1971	24	24	48	100%
1972	20	24	44	92%
1973	22	20	42	89%
1974	24	22	46	97%
1975	22	24	46	97%
1976	11	22	34	70%
1977	11	1	12	25%
1978	24	1	24	51%
1979	20	24	44	92%
1980	22	20	42	89%
1981	20	22	42	89%
1982	24	20	44	92%
1983	24	24	48	100%
1984	24	24	48	100%
1985	20	24	44	92%
1986	24	20	44	92%
1987	20	24	44	92%
1988	11	3	14	30%
1989	20	1	21	43%
1990	11	20	31	66%
1991	11	1	12	25%
1992	11	1	12	25%
1993	22	1	23	48%
1994	20	22	42	88%
1995	24	3	27	56%
1996	24	24	48	100%
1997	24	24	48	100%
1998	24	24	48	100%
1999	24	24	48	100%
2000	24	24	48	100%
2001	20	24	44	92%
2002	20	3	23	48%
2003	22	20	42	89%
2004	22	22	44	93%
2005	22	22	44	93%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1964	44	42%	92%
1944	44	42%	92%
1939	44	42%	92%
2003	42	47%	89%
1980	42	47%	89%
1973	42	47%	89%
1936	42	47%	89%
1981	42	52%	89%
1937	42	52%	89%
1923	42	52%	89%
1994	42	55%	88%
1955	42	55%	88%
2013	40	57%	84%
1946	40	57%	84%
2008	40	59%	84%
1960	40	59%	84%
1949	40	59%	84%
1947	40	59%	84%
1976	34	64%	70%
1929	34	64%	70%
2014	31	66%	66%
1990	31	66%	66%
1924	31	66%	66%
1995	27	69%	56%
1965	27	69%	56%
1956	27	69%	56%
1940	27	69%	56%
1927	27	69%	56%
1978	24	74%	51%
2010	23	76%	48%
2002	23	76%	48%
1962	23	76%	48%
1950	23	76%	48%
1948	23	76%	48%
1945	23	76%	48%
2009	23	82%	48%
1961	23	82%	48%
1926	23	82%	48%
1993	23	85%	48%
1922	22	86%	47%
1989	21	87%	43%
1935	21	87%	43%
1930	21	90%	43%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	24	22	46	97%	1925	21	90%	43%
2007	20	24	44	92%	1988	14	92%	30%
2008	20	20	40	84%	1931	14	92%	30%
2009	20	3	23	48%	2015	12	94%	26%
2010	20	3	23	48%	1992	12	95%	25%
2011	24	20	44	92%	1991	12	95%	25%
2012	20	24	44	92%	1977	12	95%	25%
2013	20	20	40	84%	1934	12	95%	25%
2014	11	20	31	66%	1933	12	95%	25%
2015	12	1	12	26%	1932	12	95%	25%
Average	20	16	36	75%		36		75%
Maximum	24	24	48	100%		48		100%
Minimum	11	0	12	25%		12		25%

Table A-29. Tulare Lake Basin WSD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	62	0	62	71%	2011	87	0%	100%
1923	57	0	57	65%	2006	87	0%	100%
1924	17	0	17	19%	1998	87	0%	100%
1925	25	0	25	29%	1995	87	0%	100%
1926	39	0	39	45%	1983	87	0%	100%
1927	56	0	56	64%	1982	87	0%	100%
1928	56	0	56	64%	1969	87	0%	100%
1929	21	0	21	24%	1958	87	0%	100%
1930	31	0	31	36%	1938	87	0%	100%
1931	17	0	17	19%	1941	80	10%	91%
1932	15	0	15	18%	1978	76	11%	87%
1933	30	0	30	34%	1956	76	12%	86%
1934	13	0	13	15%	1980	73	13%	84%
1935	50	0	50	58%	1943	73	14%	84%
1936	52	0	52	59%	1952	73	15%	84%
1937	51	0	51	59%	1967	71	16%	81%
1938	87	0	87	100%	2005	70	17%	80%
1939	50	0	50	57%	1966	67	18%	76%
1940	48	0	48	55%	1984	66	19%	75%
1941	80	0	80	91%	1951	66	20%	75%
1942	63	0	63	72%	1970	66	20%	75%
1943	73	0	73	84%	1996	66	23%	75%
1944	21	0	21	24%	1942	63	24%	72%
1945	62	0	62	71%	2000	63	25%	72%
1946	55	0	55	63%	1975	63	26%	72%
1947	56	0	56	64%	1986	63	27%	72%
1948	41	0	41	47%	1945	62	28%	71%
1949	27	0	27	31%	1973	62	29%	71%
1950	45	0	45	51%	1922	62	30%	71%
1951	66	0	66	75%	1999	59	31%	68%
1952	73	0	73	84%	1993	59	32%	67%
1953	52	0	52	59%	1997	59	33%	67%
1954	54	0	54	62%	1923	57	35%	65%
1955	21	0	21	24%	1927	56	36%	64%
1956	76	0	76	86%	1974	56	37%	64%
1957	43	0	43	49%	1985	56	38%	64%
1958	87	0	87	100%	1928	56	39%	64%
1959	39	0	39	45%	1947	56	40%	64%
1960	46	0	46	53%	1946	55	41%	63%
1961	24	0	24	28%	1972	55	42%	62%
1962	50	0	50	57%	1989	54	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	50	0	50	57%
1964	54	0	54	61%
1965	36	0	36	42%
1966	67	0	67	76%
1967	71	0	71	81%
1968	49	0	49	56%
1969	87	0	87	100%
1970	66	0	66	75%
1971	40	0	40	46%
1972	55	0	55	62%
1973	62	0	62	71%
1974	56	0	56	64%
1975	63	0	63	72%
1976	49	0	49	56%
1977	3	0	3	3%
1978	76	0	76	87%
1979	53	0	53	60%
1980	73	0	73	84%
1981	37	0	37	43%
1982	87	0	87	100%
1983	87	0	87	100%
1984	66	0	66	75%
1985	56	0	56	64%
1986	63	0	63	72%
1987	27	0	27	31%
1988	13	0	13	15%
1989	54	0	54	62%
1990	14	0	14	16%
1991	12	0	12	14%
1992	18	0	18	20%
1993	59	0	59	67%
1994	29	0	29	33%
1995	87	0	87	100%
1996	66	0	66	75%
1997	59	0	59	67%
1998	87	0	87	100%
1999	59	0	59	68%
2000	63	0	63	72%
2001	18	0	18	21%
2002	51	0	51	58%
2003	32	0	32	37%
2004	52	0	52	60%
2005	70	0	70	80%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1954	54	44%	62%
1964	54	45%	61%
1979	53	46%	60%
2004	52	47%	60%
1953	52	49%	59%
1936	52	50%	59%
1937	51	51%	59%
2007	51	52%	58%
2002	51	53%	58%
1935	50	54%	58%
1962	50	55%	57%
1963	50	56%	57%
1939	50	57%	57%
1976	49	58%	56%
1968	49	59%	56%
2010	49	60%	56%
1940	48	61%	55%
1960	46	63%	53%
2012	46	64%	52%
1950	45	65%	51%
1957	43	66%	49%
1948	41	67%	47%
2013	40	68%	46%
1971	40	69%	46%
1926	39	70%	45%
1959	39	71%	45%
1981	37	72%	43%
1965	36	73%	42%
2003	32	74%	37%
2015	31	76%	36%
1930	31	77%	36%
1933	30	78%	34%
1994	29	79%	33%
1949	27	80%	31%
1987	27	81%	31%
2009	26	82%	30%
1925	25	83%	29%
1961	24	84%	28%
1944	21	85%	24%
1955	21	86%	24%
1929	21	87%	24%
2001	18	88%	21%
1992	18	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	87	0	87	100%	1924	17	91%	19%
2007	51	0	51	58%	1931	17	92%	19%
2008	16	0	16	19%	2008	16	93%	19%
2009	26	0	26	30%	1932	15	94%	18%
2010	49	0	49	56%	1990	14	95%	16%
2011	87	0	87	100%	1934	13	96%	15%
2012	46	0	46	52%	1988	13	97%	15%
2013	40	0	40	46%	1991	12	98%	14%
2014	4	0	4	5%	2014	4	99%	5%
2015	31	0	31	36%	1977	3	100%	3%
Average	49	0	49	57%		49		57%
Maximum	87	0	87	100%		87		100%
Minimum	3	0	3	3%		3		3%

Table A-30. Ventura County WPD: Existing Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	14	0	14	71%	2011	20	0%	100%
1923	13	0	13	65%	2006	20	0%	100%
1924	4	0	4	19%	1998	20	0%	100%
1925	6	0	6	29%	1995	20	0%	100%
1926	9	0	9	45%	1983	20	0%	100%
1927	13	0	13	64%	1982	20	0%	100%
1928	13	0	13	64%	1969	20	0%	100%
1929	5	0	5	24%	1958	20	0%	100%
1930	7	0	7	36%	1938	20	0%	100%
1931	4	0	4	19%	1941	18	10%	91%
1932	4	0	4	18%	1978	17	11%	87%
1933	7	0	7	34%	1956	17	12%	86%
1934	3	0	3	15%	1980	17	13%	84%
1935	15	0	15	74%	1943	17	14%	84%
1936	12	0	12	59%	1952	17	15%	84%
1937	12	0	12	59%	1967	16	16%	81%
1938	20	0	20	100%	2005	16	17%	80%
1939	1	0	1	3%	1966	15	18%	76%
1940	11	0	11	55%	1984	15	19%	75%
1941	18	0	18	91%	1951	15	20%	75%
1942	14	0	14	72%	1970	15	20%	75%
1943	17	0	17	84%	1996	15	23%	75%
1944	5	0	5	24%	1935	15	24%	74%
1945	14	0	14	71%	1942	14	25%	72%
1946	13	0	13	63%	2000	14	26%	72%
1947	1	0	1	3%	1975	14	27%	72%
1948	9	0	9	47%	1986	14	28%	72%
1949	6	0	6	31%	1945	14	29%	71%
1950	10	0	10	51%	1973	14	30%	71%
1951	15	0	15	75%	1922	14	31%	71%
1952	17	0	17	84%	1999	14	32%	68%
1953	12	0	12	59%	1993	13	33%	67%
1954	12	0	12	62%	1997	13	35%	67%
1955	5	0	5	24%	1923	13	36%	65%
1956	17	0	17	86%	1927	13	37%	64%
1957	10	0	10	49%	1974	13	38%	64%
1958	20	0	20	100%	1985	13	39%	64%
1959	9	0	9	45%	1928	13	40%	64%
1960	11	0	11	53%	1946	13	41%	63%
1961	6	0	6	28%	1972	12	42%	62%
1962	12	0	12	58%	1989	12	43%	62%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	11	0	11	57%
1964	12	0	12	61%
1965	8	0	8	42%
1966	15	0	15	76%
1967	16	0	16	81%
1968	11	0	11	56%
1969	20	0	20	100%
1970	15	0	15	75%
1971	9	0	9	46%
1972	12	0	12	62%
1973	14	0	14	71%
1974	13	0	13	64%
1975	14	0	14	72%
1976	11	0	11	56%
1977	1	0	1	3%
1978	17	0	17	87%
1979	12	0	12	60%
1980	17	0	17	84%
1981	9	0	9	43%
1982	20	0	20	100%
1983	20	0	20	100%
1984	15	0	15	75%
1985	13	0	13	64%
1986	14	0	14	72%
1987	6	0	6	31%
1988	3	0	3	15%
1989	12	0	12	62%
1990	3	0	3	16%
1991	3	0	3	14%
1992	4	0	4	20%
1993	13	0	13	67%
1994	7	0	7	33%
1995	20	0	20	100%
1996	15	0	15	75%
1997	13	0	13	67%
1998	20	0	20	100%
1999	14	0	14	68%
2000	14	0	14	72%
2001	4	0	4	21%
2002	12	0	12	58%
2003	7	0	7	37%
2004	12	0	12	60%
2005	16	0	16	80%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1954	12	44%	62%
1964	12	45%	61%
1979	12	46%	60%
2004	12	47%	60%
1953	12	49%	59%
1936	12	50%	59%
1937	12	51%	59%
2007	12	52%	58%
2002	12	53%	58%
1962	12	54%	58%
1963	11	55%	57%
1976	11	56%	56%
1968	11	57%	56%
2010	11	58%	56%
1940	11	59%	55%
1960	11	60%	53%
2012	10	61%	52%
1950	10	63%	51%
1957	10	64%	49%
1948	9	65%	47%
1971	9	66%	46%
1926	9	67%	45%
1959	9	68%	45%
1981	9	69%	43%
1965	8	70%	42%
2003	7	71%	37%
1930	7	72%	36%
1933	7	73%	34%
1994	7	74%	33%
1949	6	76%	31%
1987	6	77%	31%
2009	6	78%	30%
1925	6	79%	29%
1961	6	80%	28%
1944	5	81%	24%
1955	5	82%	24%
1929	5	83%	24%
2001	4	84%	21%
1992	4	85%	20%
1924	4	86%	19%
1931	4	87%	19%
2008	4	88%	19%
1932	4	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	20	0	20	100%	1990	3	91%	16%
2007	12	0	12	58%	1934	3	92%	15%
2008	4	0	4	19%	1988	3	93%	15%
2009	6	0	6	30%	1991	3	94%	14%
2010	11	0	11	56%	2013	2	95%	11%
2011	20	0	20	100%	2014	1	96%	5%
2012	10	0	10	52%	1939	1	97%	3%
2013	2	0	2	11%	1977	1	98%	3%
2014	1	0	1	5%	1947	1	99%	3%
2015	0	0	0	0%	2015	0	100%	0%
Average	11	0	11	55%		11		55%
Maximum	20	0	20	100%		20		100%
Minimum	0	0	0	0%		0		0%



Appendix B: Future Condition with Climate Change and 55 cm Sea Level Rise Scenario

Appendix B: Future Condition with Climate Change and 55 cm Sea Level Rise Scenario

Introduction

This appendix provides background and results on the Future Conditions Scenario, an alternative of the DCR 2021 main model, Existing Conditions. This section provides information on the climate change hydrology and sea-level rise (SLR) projection selected and presents State Water Project (SWP) deliveries results. The following sections will be discussed:

- Climate Change Hydrology
- Sea-Level Rise
- Simulation results
 - Annual delivery for Table A, Article 56, and Article 21
 - SWP Exports from the Delta
 - SWP Contractor annual deliveries

Climate Change Hydrology

Climate Change projections from Global Circulation Models (GCM) are downscaled to regional scales, run through hydrology models and then used to adjust historical hydrology to produce hydrologic inputs to the CalSim model under potential future climate changed conditions. GCMs project a broad range of climate outcomes ranging from wetter to drier and from 1 to 4 degrees F warmer. The uncertainty associated with these outcomes leads to considerable uncertainty related to hydrologic inputs to CalSim and associated project deliveries calculated by the model. The 2021 DCR presents a single realization of future climate change conditions at 2040 and its effect on SWP deliveries. This realization describes the central tendency or center of the range of potential outcomes and provides water users with a starting point to assess the magnitude and direction of potential future changes in water supply deliveries from the SWP. Water users should not take this realization as a forecast of future deliveries—actual future outcomes could be significantly better or worse. SWP water users are encouraged to consider the information carefully and evaluate their system’s vulnerability to outcomes that may be worse than those described in the climate change scenario.

The 2021 DCR Future Conditions scenario uses the same climate change hydrology inputs as the DCP Draft EIR climate change studies. The DCP climate change scenario was developed centered around 2040 (2026-2055). The DCP Draft EIR Modeling Appendix summarizes how the climate change projections were developed:

“CalSim 3 meteorologic and hydrologic boundary conditions were updated to represent 2040 climate conditions. The 2040 climate was developed with 20 Coupled Model Intercomparison Project 5 (CMIP5) global climate projections, selected by the California Department of Water Resources (DWR) Climate Change Technical Advisory Group (CCTAG) (DWR CCTAG, 2015). Daily historical Livneh data (Livneh et al., 2016) with adjustments based on the Parameter-elevation Regressions on Independent Slopes Model (PRISM) dataset (Daly et al., 1994), were perturbed using the differences observed in the ensemble of the 20 selected global climate projections.

Historical and perturbed meteorological data were used in the Variable Infiltration Capacity (VIC) model to simulate future surface runoff, baseflow, surface water evaporation, and potential evapotranspiration variables. The differences between simulated historical and projected variables were applied to the historical CalSim 3 boundary conditions to represent 2040 conditions.”

For more details on the steps and assumptions used in developing climate change boundary conditions for the 2040 climate conditions, please refer to the DCP Draft EIR Modeling Appendix 5A, Modeling Technical Appendix, Section B, Attachment 4, *Climate Change Development for Delta Conveyance Project* located here: <https://cadwr.app.box.com/s/c1a3pdekwturhkt7ifkx4g0z38r4mlmz>.

Sea-Level Rise (SLR)

The Ocean Protection Council released the latest Sea-Level Rise Guidance in 2018 (OPC 2018)¹. Table B-1 (OPC 2018) shows the three levels of risk aversion: low, medium-high, and extreme for high emissions scenarios in 2030 or 2040. The high emissions, 2040 row was selected because of the approximately 20-year “project lifespan” of DCR Future Conditions scenarios. In 2019 DCR, the high-risk aversion SLR projection of 45 cm or 1.5 ft was chosen (though not shown explicitly in in Table B-1.)

In the 2021 DCR, the 55 cm or 1.8 ft SLR future conditions assumption was chosen because this is also the SLR assumed in the DCP future condition modeling. The 1.8 ft SLR projection in 2040 is under the H++ scenario (extreme risk aversion). This is a single scenario and does not have an associated likelihood of occurrence as do the others. Table B-2 summarizes the risk aversion projects in the high emissions 2040 scenario.

Table B-1. Projected SLR (ft) for San Francisco (OPC 2018)

		Probabilistic Projections (in feet) (based on Kopp et al. 2014)				H++ scenario (Sweet et al. 2017) *Single scenario
		MEDIAN <i>50% probability sea-level rise meets or exceeds...</i>	LIKELY RANGE <i>66% probability sea-level rise is between...</i>	1-IN-20 CHANCE <i>5% probability sea-level rise meets or exceeds...</i>	1-IN-200 CHANCE <i>0.5% probability sea-level rise meets or exceeds...</i>	
				Low Risk Aversion	Medium - High Risk Aversion	Extreme Risk Aversion
High emissions	2030	0.4	0.3 - 0.5	0.6	0.8	1.0
	2040	0.6	0.5 - 0.8	1.0	1.3	1.8

Table B-2. Summary of risk aversion projections in high emissions 2040 scenario.

Risk aversion projection (High emissions, 2040)	SLR (ft) projection
Low	0.8
Medium	1.0
Medium-High	1.3
High (2019 DCR 1.5 ft SLR)	1.476
Extreme (2021 DCR 1.8 ft SLR)	1.8

¹ State of California Sea-Level Rise Guidance (updated 2018):

http://www.opc.ca.gov/webmaster/ftp/pdf/agenda_items/20180314/Item3_Exhibit-A_OPC_SLR_Guidance-rd3.pdf

Simulation Results for Future Conditions

The deliveries shown in this report only include those State Water Project Contractors that rely on delivery of water from the Sacramento-San Joaquin Delta; therefore, State Water Project Contractors in the Feather River area and upstream (i.e., Butte County, Plumas County Flood Control and Water Conservation District, and Yuba City) are excluded from this analysis. This section of the appendix presents results for the Future Conditions scenario with 55 cm SLR.

SWP Table A Deliveries

Figure B-1 shows the comparison of SWP Table A delivery Exceedance curves between the 2021 DCR Existing Conditions and Future Conditions studies. The Table A deliveries for State Water Project Contractors for Future Conditions scenario are shown in Table B-3 on the following page. The results for individual Contractor Table A deliveries are included at the end of this appendix.

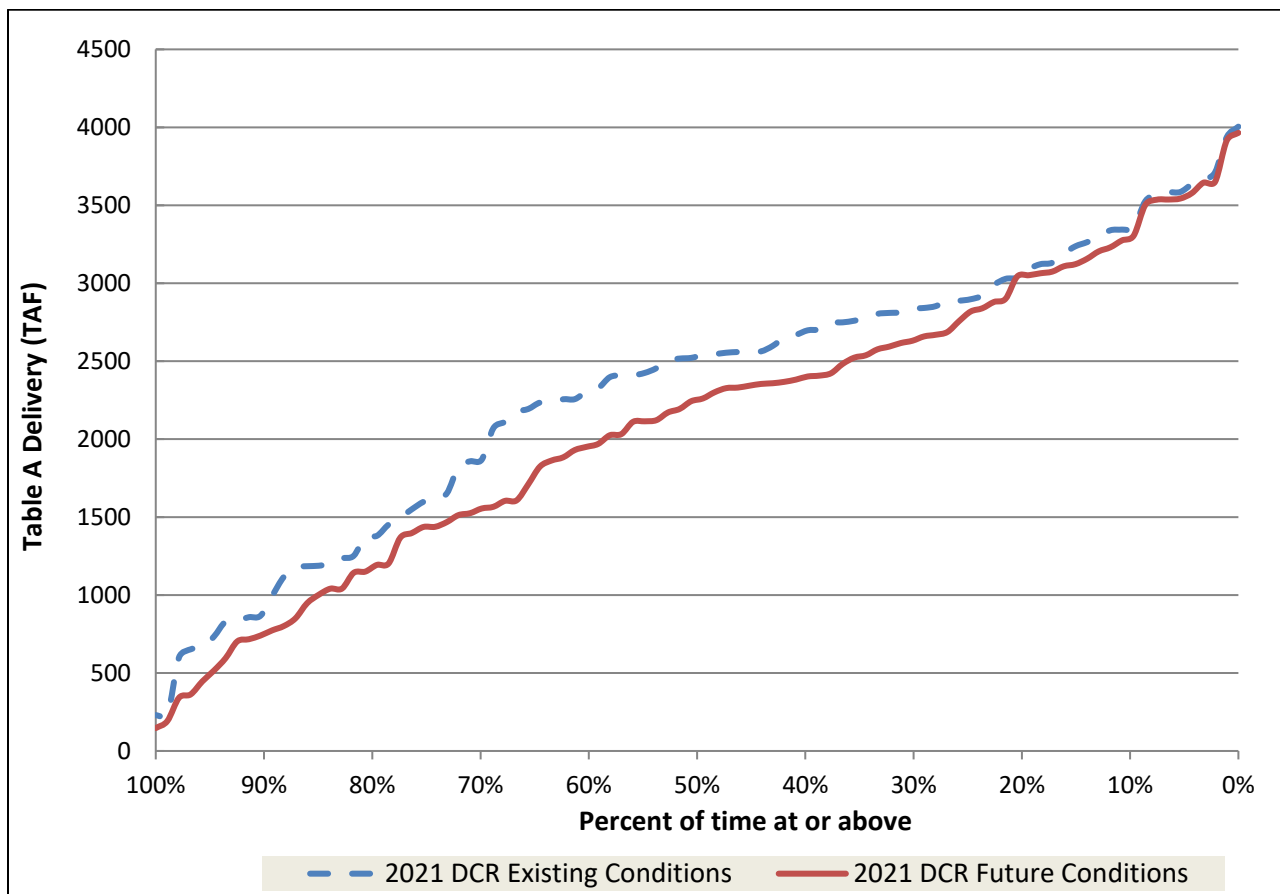


Figure B-1. Comparison of SWP Table A Delivery Probability for Future Conditions

How to interpret Table B-3 SWP Deliveries

Please refer to **How to interpret Table A-1 SWP Deliveries**.

Table B-3. SWP Table A Deliveries for Future Conditions

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
1922	4,133	2,616	63%	1983	3,965	0%	96%
1923	4,133	2,482	60%	2006	3,915	1%	95%
1924	4,133	851	21%	1998	3,651	2%	88%
1925	4,133	1,042	25%	1938	3,645	3%	88%
1926	4,133	1,438	35%	1969	3,578	4%	87%
1927	4,133	2,576	62%	2011	3,543	5%	86%
1928	4,133	2,343	57%	1996	3,537	6%	86%
1929	4,133	1,041	25%	1982	3,536	8%	86%
1930	4,133	1,398	34%	1995	3,502	9%	85%
1931	4,133	363	9%	2005	3,305	10%	80%
1932	4,133	1,150	28%	1999	3,275	11%	79%
1933	4,133	717	17%	1958	3,230	12%	78%
1934	4,133	774	19%	1978	3,204	13%	78%
1935	4,133	2,122	51%	1970	3,157	14%	76%
1936	4,133	2,402	58%	1984	3,122	15%	76%
1937	4,133	2,368	57%	1942	3,109	16%	75%
1938	4,133	3,645	88%	1941	3,074	17%	74%
1939	4,133	1,143	28%	1967	3,064	18%	74%
1940	4,133	2,382	58%	1952	3,051	19%	74%
1941	4,133	3,074	74%	1951	3,043	20%	74%
1942	4,133	3,109	75%	1943	2,900	22%	70%
1943	4,133	2,900	70%	2000	2,880	23%	70%
1944	4,133	1,368	33%	1997	2,839	24%	69%
1945	4,133	2,523	61%	1980	2,819	25%	68%
1946	4,133	2,243	54%	1974	2,756	26%	67%
1947	4,133	2,025	49%	1966	2,687	27%	65%
1948	4,133	1,883	46%	1975	2,669	28%	65%
1949	4,133	446	11%	1973	2,659	29%	64%
1950	4,133	2,331	56%	2012	2,631	30%	64%
1951	4,133	3,043	74%	1922	2,616	31%	63%
1952	4,133	3,051	74%	1993	2,593	32%	63%
1953	4,133	2,538	61%	1927	2,576	33%	62%
1954	4,133	2,301	56%	1953	2,538	34%	61%
1955	4,133	595	14%	1945	2,523	35%	61%
1956	4,133	2,359	57%	1923	2,482	37%	60%
1957	4,133	2,261	55%	1963	2,422	38%	59%
1958	4,133	3,230	78%	1985	2,407	39%	58%
1959	4,133	2,111	51%	1936	2,402	40%	58%
1960	4,133	1,607	39%	1940	2,382	41%	58%

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
1961	4,133	1,437	35%	1937	2,368	42%	57%
1962	4,133	1,969	48%	1956	2,359	43%	57%
1963	4,133	2,422	59%	1989	2,354	44%	57%
1964	4,133	2,032	49%	1928	2,343	45%	57%
1965	4,133	1,711	41%	1950	2,331	46%	56%
1966	4,133	2,687	65%	1968	2,327	47%	56%
1967	4,133	3,064	74%	1954	2,301	48%	56%
1968	4,133	2,327	56%	1957	2,261	49%	55%
1969	4,133	3,578	87%	1946	2,243	51%	54%
1970	4,133	3,157	76%	2004	2,194	52%	53%
1971	4,133	1,863	45%	2002	2,171	53%	53%
1972	4,133	1,824	44%	1935	2,122	54%	51%
1973	4,133	2,659	64%	1986	2,114	55%	51%
1974	4,133	2,756	67%	1959	2,111	56%	51%
1975	4,133	2,669	65%	1964	2,032	57%	49%
1976	4,133	1,468	36%	1947	2,025	58%	49%
1977	4,133	192	5%	1962	1,969	59%	48%
1978	4,133	3,204	78%	1979	1,951	60%	47%
1979	4,133	1,951	47%	2010	1,930	61%	47%
1980	4,133	2,819	68%	1948	1,883	62%	46%
1981	4,133	1,555	38%	1971	1,863	63%	45%
1982	4,133	3,536	86%	1972	1,824	65%	44%
1983	4,133	3,965	96%	1965	1,711	66%	41%
1984	4,133	3,122	76%	1960	1,607	67%	39%
1985	4,133	2,407	58%	2009	1,604	68%	39%
1986	4,133	2,114	51%	2013	1,566	69%	38%
1987	4,133	1,202	29%	1981	1,555	70%	38%
1988	4,133	740	18%	2007	1,525	71%	37%
1989	4,133	2,354	57%	2003	1,513	72%	37%
1990	4,133	342	8%	1976	1,468	73%	36%
1991	4,133	947	23%	1926	1,438	74%	35%
1992	4,133	801	19%	1961	1,437	75%	35%
1993	4,133	2,593	63%	1930	1,398	76%	34%
1994	4,133	1,002	24%	1944	1,368	77%	33%
1995	4,133	3,502	85%	1987	1,202	78%	29%
1996	4,133	3,537	86%	2015	1,193	80%	29%
1997	4,133	2,839	69%	1932	1,150	81%	28%
1998	4,133	3,651	88%	1939	1,143	82%	28%
1999	4,133	3,275	79%	1925	1,042	83%	25%
2000	4,133	2,880	70%	1929	1,041	84%	25%

Year	SWP Table A Demands	SWP Table A Delivery		Probability Curve (percent of time at or above given value)			
		Annual Volume (TAF)	Percent of Maximum SWP Table A	Year	SWP Table A Delivery (TAF)	Exceedance Frequency	Percent of Maximum SWP Table A
2001	4,133	703	17%	1994	1,002	85%	24%
2002	4,133	2,171	53%	1991	947	86%	23%
2003	4,133	1,513	37%	1924	851	87%	21%
2004	4,133	2,194	53%	1992	801	88%	19%
2005	4,133	3,305	80%	1934	774	89%	19%
2006	4,133	3,915	95%	1988	740	90%	18%
2007	4,133	1,525	37%	1933	717	91%	17%
2008	4,133	516	12%	2001	703	92%	17%
2009	4,133	1,604	39%	1955	595	94%	14%
2010	4,133	1,930	47%	2008	516	95%	12%
2011	4,133	3,543	86%	1949	446	96%	11%
2012	4,133	2,631	64%	1931	363	97%	9%
2013	4,133	1,566	38%	1990	342	98%	8%
2014	4,133	147	4%	1977	192	99%	5%
2015	4,133	1,193	29%	2014	147	100%	4%
Average	4,133	2,111	51%	Average	2,111		51%
Minimum	4,133	147	4%	Minimum	147		4%
Maximum	4,133	3,965	96%	Maximum	3,965		96%

Article 21 Deliveries

Table B-4 below shows the State Water Project Contractors' Article 21 deliveries for the Future Conditions scenario.

Table B-4. Article 21 Deliveries for Future Conditions

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										0	1	1	3
1922	1	1	1	1	2	0	1	0	0	0	1	0	9
1923	1	0	1	1	1	0	1	0	0	0	0	0	5
1924	1	1	0	0	1	0	1	0	0	0	0	0	4
1925	1	1	0	1	1	0	1	0	0	0	0	0	5
1926	1	1	0	1	1	0	1	0	0	0	1	0	7
1927	1	1	1	1	1	1	1	0	0	0	1	0	9
1928	1	1	1	1	1	1	1	0	0	0	0	1	9
1929	1	1	0	0	1	0	1	0	0	0	0	1	5
1930	1	1	1	0	1	0	1	0	0	1	0	0	6
1931	1	0	0	0	1	0	1	0	0	0	0	1	4
1932	1	1	0	0	1	0	1	0	0	0	0	0	4
1933	1	0	0	0	1	0	1	0	0	0	0	1	4
1934	1	1	0	0	1	0	1	0	0	0	0	0	4
1935	1	1	1	1	1	0	1	0	0	0	0	0	7
1936	1	1	1	1	1	0	1	0	0	0	0	0	7
1937	1	1	1	1	1	0	1	0	0	0	1	1	9
1938	1	196	292	219	159	0	1	0	0	0	0	0	868
1939	1	0	1	0	1	0	1	0	0	0	0	0	4
1940	1	1	1	1	1	1	1	0	0	0	0	1	9
1941	1	1	1	1	2	0	1	0	0	0	0	1	9
1942	1	1	1	1	2	0	1	0	0	0	0	1	9
1943	1	1	29	1	1	1	1	0	0	0	0	0	35
1944	1	1	1	0	1	0	1	0	0	1	0	1	8
1945	0	1	0	0	1	0	1	0	0	0	0	1	4
1946	1	0	1	1	1	1	1	0	0	0	1	0	8
1947	0	1	1	0	1	0	1	0	0	0	0	3	7
1948	1	0	1	1	1	0	1	0	0	0	0	0	5
1949	1	0	1	0	1	0	1	0	0	0	1	0	5
1950	1	1	0	1	1	0	1	0	0	0	1	1	8
1951	1	286	49	0	2	1	1	0	0	0	1	0	341
1952	1	1	1	1	2	0	1	0	0	0	0	1	9
1953	1	0	1	1	2	1	1	0	0	0	0	0	8
1954	1	1	1	1	1	1	1	0	0	0	1	0	9
1955	1	0	0	1	1	0	1	0	0	0	0	1	5
1956	314	316	163	0	2	0	1	0	0	0	0	0	796
1957	1	1	1	0	2	1	1	0	0	0	0	1	9
1958	1	1	1	47	2	0	1	0	0	0	0	0	53
1959	1	1	1	0	1	1	1	0	0	0	0	0	7
1960	1	1	1	0	1	1	1	0	0	0	0	0	7
1961	1	1	1	0	1	0	1	0	0	0	1	1	8
1962	0	1	0	0	1	0	1	0	0	1	0	1	6
1963	1	1	0	1	1	0	1	0	0	0	1	0	7

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1964	1	0	0	0	1	1	1	0	0	1	0	1	7
1965	1	1	0	1	1	1	1	0	0	0	1	1	9
1966	1	1	1	0	1	1	1	0	0	0	0	1	8
1967	1	1	1	1	2	1	1	0	0	0	0	0	9
1968	1	1	1	0	1	1	1	0	0	1	0	1	9
1969	1	104	155	103	2	0	1	0	0	0	0	1	368
1970	1	1	1	0	1	1	1	0	0	0	1	1	9
1971	1	0	1	0	2	1	1	0	0	0	0	1	8
1972	1	1	1	0	1	1	1	0	0	0	1	1	9
1973	1	40	92	0	2	1	1	0	0	0	1	0	138
1974	1	1	1	1	1	0	1	0	0	0	0	0	7
1975	0	1	1	1	2	0	1	0	0	0	0	0	7
1976	0	0	1	0	1	1	1	0	0	0	0	0	4
1977	0	0	0	0	1	0	1	0	0	0	0	1	3
1978	1	1	1	1	1	0	1	0	0	0	0	0	7
1979	1	1	1	0	2	0	1	0	0	0	0	1	8
1980	1	121	162	0	1	0	1	0	0	0	0	0	286
1981	1	1	1	0	1	1	1	0	0	0	1	1	9
1982	1	42	304	192	2	0	1	0	0	1	0	0	543
1983	2	2	116	112	96	33	10	0	0	0	24	163	557
1984	178	145	86	0	2	1	1	0	0	0	1	0	415
1985	1	1	1	0	1	1	1	0	0	1	0	1	9
1986	1	1	1	0	2	0	1	0	0	0	0	0	7
1987	1	1	1	0	1	1	1	0	0	0	0	1	8
1988	1	0	0	0	1	0	1	0	0	0	0	0	3
1989	1	0	1	0	1	0	1	0	0	0	0	0	4
1990	1	1	1	0	1	0	1	0	0	0	0	0	5
1991	0	0	1	0	1	0	1	0	0	0	0	0	3
1992	0	1	1	0	1	0	1	0	0	0	0	1	5
1993	1	1	1	1	1	0	1	0	0	0	0	0	7
1994	1	1	0	0	1	0	1	0	0	0	0	1	5
1995	1	1	61	108	91	0	1	0	0	0	0	1	264
1996	1	1	70	1	2	0	1	0	0	0	1	0	77
1997	39	142	209	0	1	1	1	0	0	0	0	1	394
1998	1	84	155	109	27	1	1	0	0	0	0	0	379
1999	1	53	1	1	1	1	1	0	0	0	0	0	60
2000	1	1	1	0	1	1	1	0	0	0	0	0	7
2001	1	1	1	0	1	0	1	0	0	0	0	1	7
2002	1	0	1	0	1	1	1	0	0	0	0	1	7
2003	1	0	1	1	2	0	1	0	0	0	1	1	9
2004	1	1	1	0	1	0	1	0	0	0	1	1	8
2005	1	1	1	1	50	0	1	0	0	0	0	1	57
2006	1	1	1	122	124	0	1	0	0	0	0	1	252
2007	1	1	1	0	1	1	1	0	0	0	0	0	7
2008	1	1	0	0	1	0	1	0	0	0	0	0	4
2009	0	1	1	0	2	0	1	0	0	0	0	0	5
2010	1	1	0	1	2	0	1	0	0	0	0	100	106
2011	266	310	237	153	2	1	1	0	0	0	0	0	970

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2012	1	0	1	1	1	1	1	0	0	0	0	1	8
2013	1	0	1	0	1	0	1	0	0	0	1	0	5
2014	0	1	1	0	1	0	1	0	0	0	0	1	5
2015	0	1	0	0	1	0	1	0	0				4
Average	10	20	24	13	7	1	1	0	0	0	1	3	78
Minimum	0	0	0	0	1	0	1	0	0	0	0	0	3
Maximum	314	316	304	219	159	33	10	0	0	1	24	163	970

SWP Exports from the Sacramento-San Joaquin Delta

Table B-5 below shows the SWP Exports from the Delta for the Future Conditions scenario.

Table B-5. SWP Exports for Future Conditions

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										145	238	238	621
1922	180	403	337	46	42	222	421	441	151	180	391	267	3,082
1923	193	87	112	58	47	138	419	413	244	163	110	148	2,132
1924	163	138	18	42	18	18	18	18	18	120	66	308	946
1925	250	151	54	36	37	79	64	49	122	60	98	139	1,138
1926	165	155	18	49	37	163	211	18	46	44	397	251	1,555
1927	152	160	122	103	67	135	421	398	18	197	397	357	2,528
1928	123	147	165	36	37	133	421	407	18	18	324	293	2,123
1929	160	131	151	44	37	18	18	18	35	27	18	157	815
1930	162	139	113	45	37	126	429	18	187	65	61	51	1,434
1931	171	125	61	39	23	18	21	18	18	97	18	256	865
1932	145	163	18	36	37	73	68	18	36	26	45	171	838
1933	180	115	99	36	37	72	18	18	19	49	18	168	829
1934	147	142	117	43	46	18	18	18	75	39	168	164	996
1935	131	136	123	36	68	242	43	18	427	143	95	172	1,635
1936	140	526	172	39	123	111	412	386	90	221	87	203	2,509
1937	181	396	422	247	235	324	210	211	95	196	397	356	3,272
1938	250	526	423	397	411	342	441	421	31	200	256	431	4,128
1939	207	161	117	36	37	18	18	18	67	18	18	75	791
1940	193	193	167	66	51	139	420	441	18	18	170	336	2,212
1941	209	469	375	372	98	193	421	441	218	196	312	279	3,583
1942	341	273	180	178	76	147	421	441	347	179	354	179	3,119
1943	427	318	511	79	130	143	403	250	18	153	185	186	2,804
1944	167	172	116	36	18	129	18	231	83	104	332	165	1,570
1945	185	266	172	36	37	135	415	436	114	163	343	265	2,565
1946	175	248	152	36	37	134	421	441	18	144	233	429	2,469
1947	166	139	118	36	18	128	233	18	57	159	143	117	1,333
1948	236	63	122	39	37	122	438	386	143	112	83	270	2,051
1949	155	134	131	36	37	107	51	18	44	32	74	120	938
1950	140	136	120	36	37	127	426	426	158	266	397	533	2,801
1951	345	397	166	66	37	138	421	441	22	159	346	231	2,770
1952	260	181	322	359	374	269	404	377	221	166	350	215	3,499
1953	189	153	136	66	37	134	418	441	347	65	233	203	2,423
1954	123	136	124	36	37	132	383	441	18	37	365	169	2,001
1955	164	115	67	36	37	125	33	18	78	90	191	533	1,486
1956	418	389	299	66	94	162	421	210	102	119	130	138	2,548
1957	195	152	139	36	42	128	425	382	228	276	197	159	2,358
1958	173	221	417	397	185	287	392	431	106	176	259	196	3,242
1959	151	204	68	36	37	126	87	18	427	247	114	98	1,614
1960	233	153	111	47	37	121	423	231	66	63	204	159	1,847
1961	180	131	117	45	50	118	161	18	68	18	167	192	1,264
1962	209	293	122	36	37	130	425	377	74	411	229	158	2,498
1963	147	254	127	134	67	134	421	441	155	207	397	255	2,740

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1964	131	98	95	46	37	126	319	18	50	85	271	274	1,549
1965	303	193	152	131	67	123	402	241	18	52	397	356	2,436
1966	130	143	110	36	37	131	430	381	99	94	300	202	2,092
1967	192	143	257	397	93	304	441	421	347	157	291	275	3,319
1968	139	153	129	36	37	126	430	416	96	125	179	182	2,047
1969	599	343	250	278	160	397	418	421	199	200	352	191	3,810
1970	599	399	266	66	37	117	440	368	18	34	397	185	2,926
1971	148	135	118	66	37	130	403	441	274	31	145	177	2,103
1972	140	135	104	42	58	72	430	369	165	183	397	163	2,258
1973	176	243	207	36	62	140	421	302	18	276	397	202	2,481
1974	284	167	221	158	70	141	405	441	268	196	183	356	2,890
1975	165	212	188	36	67	142	421	441	295	199	324	225	2,716
1976	151	169	126	51	55	51	18	18	137	24	83	34	918
1977	193	41	64	18	40	18	18	18	126	18	18	160	732
1978	222	242	254	203	194	181	421	441	18	186	330	274	2,965
1979	179	253	183	36	57	166	441	152	89	150	286	172	2,163
1980	539	358	253	71	69	160	441	339	18	189	145	326	2,908
1981	166	136	134	36	37	129	233	18	96	124	397	167	1,673
1982	294	513	440	397	261	237	421	441	301	411	397	533	4,648
1983	311	239	234	258	251	332	344	341	427	411	397	359	3,905
1984	461	383	202	66	37	121	436	362	18	226	397	429	3,139
1985	158	136	121	36	37	129	184	18	236	124	238	168	1,584
1986	156	526	518	87	149	312	153	159	18	170	96	173	2,518
1987	223	165	128	53	57	122	84	18	93	74	81	155	1,254
1988	154	114	18	45	18	52	18	18	44	24	177	275	958
1989	183	69	123	41	37	122	430	236	314	222	62	62	1,902
1990	122	113	106	43	50	174	18	18	42	37	18	105	846
1991	18	54	211	36	37	18	18	18	27	115	71	44	667
1992	152	234	156	36	18	18	18	18	32	71	0	172	927
1993	287	172	159	66	49	140	421	441	347	170	229	328	2,810
1994	162	144	19	47	18	146	18	18	47	43	171	158	991
1995	311	148	518	322	378	383	441	421	347	174	231	204	3,880
1996	297	544	476	70	128	147	421	441	347	215	383	533	4,003
1997	599	417	325	66	40	119	441	225	18	180	341	435	3,206
1998	201	419	292	323	307	397	441	421	347	404	397	170	4,121
1999	407	423	221	76	37	116	441	441	18	165	271	320	2,936
2000	170	544	240	67	37	119	425	441	18	198	150	205	2,615
2001	183	145	121	36	37	46	18	18	95	62	252	198	1,210
2002	152	60	122	36	37	127	336	63	103	117	134	283	1,570
2003	139	134	120	36	67	129	409	441	231	27	207	179	2,120
2004	157	158	116	36	38	88	441	372	18	159	198	184	1,965
2005	233	246	444	99	368	318	401	399	18	193	328	322	3,367
2006	465	298	455	397	411	226	421	441	175	189	397	169	4,046
2007	159	159	115	36	37	125	180	28	94	89	38	237	1,297
2008	167	147	18	36	18	90	18	18	50	44	98	172	878
2009	157	150	110	36	37	126	280	18	77	153	22	193	1,360
2010	148	150	121	36	37	115	432	414	364	411	368	533	3,128

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
2011	376	374	371	365	147	329	441	421	347	278	266	432	4,149
2012	170	84	173	52	37	126	423	441	90	131	209	194	2,130
2013	143	148	122	47	18	32	417	64	120	49	38	67	1,265
2014	18	162	144	39	38	18	18	18	99	65	18	219	856
2015	208	134	18	18	18	18	18	18	85				714
Average	216	218	183	94	80	144	295	247	129	141	219	233	2,178
Minimum	18	41	18	18	18	18	18	18	18	18	0	34	621
Maximum	599	544	518	397	411	397	441	441	427	411	397	533	4,648

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Individual Contractor Table A Deliveries - Future Conditions

The tables on the following pages show the Table A without Article 56 carryover and Total Table A deliveries for each State Water Contractor for the Future Conditions scenario.

Individual Contractor Tables SWP Table A Deliveries Description

Please refer to **Individual Contractor Tables SWP Table A Deliveries Description**.

Table B-6. Alameda County FC&WCD-Zone 7: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	49	0	49	60%	2006	79	0%	98%
1923	39	9	48	59%	1983	78	1%	97%
1924	12	6	18	22%	1998	71	2%	88%
1925	18	1	19	24%	1938	71	3%	88%
1926	25	2	27	33%	1969	69	4%	86%
1927	46	3	49	61%	1996	69	5%	86%
1928	38	8	45	56%	2011	68	6%	84%
1929	15	6	21	26%	1982	68	8%	84%
1930	25	2	26	33%	1995	67	9%	83%
1931	5	3	8	10%	2005	65	10%	80%
1932	20	1	21	26%	1970	65	11%	80%
1933	12	2	14	18%	1999	63	12%	79%
1934	13	1	15	18%	1958	63	13%	78%
1935	32	2	33	41%	1942	63	14%	78%
1936	45	0	45	55%	1978	61	15%	75%
1937	43	0	43	53%	1967	61	16%	75%
1938	66	6	71	88%	1984	60	17%	74%
1939	12	12	24	30%	1951	58	18%	72%
1940	44	1	46	57%	1941	57	19%	71%
1941	57	0	57	71%	1952	57	20%	71%
1942	50	13	63	78%	1943	56	22%	70%
1943	46	10	56	70%	2000	55	23%	68%
1944	20	8	27	34%	1980	54	24%	67%
1945	45	2	48	59%	1997	54	25%	67%
1946	36	7	44	54%	1974	53	26%	66%
1947	21	5	25	31%	1975	52	27%	64%
1948	34	0	34	42%	1966	51	28%	64%
1949	7	0	7	9%	2012	51	29%	63%
1950	42	1	43	53%	1973	51	30%	63%
1951	55	3	58	72%	1927	49	31%	61%
1952	54	4	57	71%	1993	49	32%	61%
1953	36	12	48	60%	1922	49	33%	60%
1954	39	5	44	55%	1953	48	35%	60%
1955	7	6	13	16%	1923	48	36%	59%
1956	42	0	43	53%	1945	48	37%	59%
1957	37	6	44	54%	1963	46	38%	58%
1958	58	6	63	78%	1940	46	39%	57%
1959	30	10	40	50%	1928	45	40%	56%
1960	28	0	28	35%	1936	45	41%	55%
1961	24	4	28	34%	1968	44	42%	55%
1962	36	0	36	44%	1954	44	43%	55%
1963	42	5	46	58%	1957	44	44%	54%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	33	6	39	49%
1965	29	4	33	41%
1966	48	4	51	64%
1967	52	8	61	75%
1968	32	12	44	55%
1969	66	4	69	86%
1970	50	15	65	80%
1971	28	6	35	43%
1972	31	4	35	43%
1973	47	3	51	63%
1974	45	8	53	66%
1975	45	7	52	64%
1976	23	7	30	37%
1977	3	0	3	4%
1978	60	0	61	75%
1979	30	6	36	44%
1980	51	3	54	67%
1981	21	11	32	40%
1982	66	2	68	84%
1983	66	13	78	97%
1984	50	9	60	74%
1985	33	10	43	54%
1986	38	0	38	47%
1987	19	5	24	30%
1988	12	2	14	18%
1989	42	1	44	54%
1990	5	0	5	7%
1991	17	1	18	22%
1992	14	2	16	20%
1993	47	2	49	61%
1994	12	8	20	25%
1995	66	1	67	83%
1996	59	10	69	86%
1997	43	11	54	67%
1998	66	6	71	88%
1999	50	14	63	79%
2000	45	10	55	68%
2001	10	2	12	15%
2002	39	1	40	50%
2003	27	0	27	33%
2004	38	4	41	51%
2005	59	6	65	80%
2006	66	13	79	98%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1989	44	45%	54%
1946	44	46%	54%
1985	43	47%	54%
1950	43	49%	53%
1937	43	50%	53%
1956	43	51%	53%
2004	41	52%	51%
1959	40	53%	50%
2002	40	54%	50%
1964	39	55%	49%
1986	38	56%	47%
1979	36	57%	44%
1962	36	58%	44%
2010	35	59%	43%
1972	35	60%	43%
1971	35	61%	43%
1948	34	63%	42%
1935	33	64%	41%
1965	33	65%	41%
1981	32	66%	40%
1976	30	67%	37%
2009	30	68%	37%
1960	28	69%	35%
1961	28	70%	34%
2007	28	71%	34%
1944	27	72%	34%
1926	27	73%	33%
2003	27	74%	33%
1930	26	76%	33%
1947	25	77%	31%
1939	24	78%	30%
1987	24	79%	30%
2015	22	80%	28%
1929	21	81%	26%
1932	21	82%	26%
1994	20	83%	25%
2013	20	84%	25%
1925	19	85%	24%
1924	18	86%	22%
1991	18	87%	22%
1992	16	88%	20%
1934	15	90%	18%
1988	14	91%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	22	5	28	34%	1933	14	92%	18%
2008	8	0	8	10%	1955	13	93%	16%
2009	29	1	30	37%	2001	12	94%	15%
2010	34	1	35	43%	2008	8	95%	10%
2011	66	2	68	84%	1931	8	96%	10%
2012	36	15	51	63%	1949	7	97%	9%
2013	15	5	20	25%	1990	5	98%	7%
2014	2	0	2	2%	1977	3	99%	4%
2015	22	0	22	28%	2014	2	100%	2%
Average	35	5	40	50%		40		50%
Maximum	66	15	79	98%		79		98%
Minimum	2	0	2	2%		2		2%

Table B-7. Alameda County WD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	22	0	22	52%	1983	38	0%	91%
1923	17	8	26	61%	2006	37	1%	88%
1924	6	6	12	28%	1998	35	2%	83%
1925	9	1	10	24%	1938	35	3%	83%
1926	12	2	14	33%	1999	33	4%	80%
1927	21	2	23	55%	1969	32	5%	77%
1928	17	7	24	58%	2005	32	6%	77%
1929	8	6	13	32%	1996	32	8%	76%
1930	12	1	13	32%	1958	31	9%	75%
1931	3	2	5	11%	1967	31	10%	74%
1932	10	0	11	25%	2011	31	11%	74%
1933	6	2	8	18%	1982	31	12%	74%
1934	7	1	8	18%	1995	31	13%	73%
1935	13	1	14	34%	1970	31	14%	73%
1936	20	0	20	48%	2012	30	15%	71%
1937	19	0	19	46%	1943	30	16%	71%
1938	30	5	35	83%	1984	30	17%	70%
1939	6	6	12	29%	1942	29	18%	70%
1940	20	1	21	50%	2000	29	19%	69%
1941	26	0	26	61%	1997	29	20%	69%
1942	22	7	29	70%	1951	28	22%	66%
1943	21	9	30	71%	1974	28	23%	66%
1944	10	7	17	40%	1953	28	24%	66%
1945	20	2	22	53%	1978	27	25%	65%
1946	18	7	25	59%	1975	27	26%	64%
1947	12	4	16	38%	1952	26	27%	62%
1948	17	0	17	39%	1941	26	28%	61%
1949	3	0	3	8%	1968	26	29%	61%
1950	19	1	20	47%	1923	26	30%	61%
1951	25	3	28	66%	1980	26	31%	61%
1952	24	2	26	62%	1946	25	32%	59%
1953	18	10	28	66%	1966	24	33%	58%
1954	18	4	21	51%	1928	24	35%	58%
1955	3	6	9	22%	1973	24	36%	57%
1956	19	0	19	46%	1957	23	37%	55%
1957	17	6	23	55%	1927	23	38%	55%
1958	26	6	31	75%	1985	23	39%	54%
1959	15	5	20	49%	1993	22	40%	54%
1960	14	0	14	33%	1963	22	41%	53%
1961	12	3	15	35%	1964	22	42%	53%
1962	17	0	17	41%	1945	22	43%	53%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	19	4	22	53%
1964	16	6	22	53%
1965	14	3	17	41%
1966	21	3	24	58%
1967	23	8	31	74%
1968	16	10	26	61%
1969	30	3	32	77%
1970	22	8	31	73%
1971	14	3	17	41%
1972	15	3	18	43%
1973	21	3	24	57%
1974	20	8	28	66%
1975	20	7	27	64%
1976	11	7	18	43%
1977	2	0	2	4%
1978	27	0	27	65%
1979	14	3	18	42%
1980	23	3	26	61%
1981	10	7	17	41%
1982	30	2	31	74%
1983	30	9	38	91%
1984	23	7	30	70%
1985	14	9	23	54%
1986	18	0	18	44%
1987	9	4	13	32%
1988	6	2	8	18%
1989	19	1	20	48%
1990	3	0	3	6%
1991	8	0	9	21%
1992	7	2	8	20%
1993	21	1	22	54%
1994	6	8	14	33%
1995	30	1	31	73%
1996	26	5	32	76%
1997	19	9	29	69%
1998	30	5	35	83%
1999	22	11	33	80%
2000	20	9	29	69%
2001	5	1	6	14%
2002	18	1	19	44%
2003	13	0	13	31%
2004	17	3	20	47%
2005	26	6	32	77%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	22	44%	52%
1954	21	45%	51%
1940	21	46%	50%
1959	20	47%	49%
1989	20	49%	48%
1936	20	50%	48%
2004	20	51%	47%
1950	20	52%	47%
1956	19	53%	46%
1937	19	54%	46%
2002	19	55%	44%
1986	18	56%	44%
1972	18	57%	43%
1976	18	58%	43%
1979	18	59%	42%
1965	17	60%	41%
1962	17	61%	41%
1981	17	63%	41%
2010	17	64%	41%
1971	17	65%	41%
1944	17	66%	40%
1948	17	67%	39%
1947	16	68%	38%
1961	15	69%	35%
2009	15	70%	35%
1935	14	71%	34%
2013	14	72%	34%
1960	14	73%	33%
2007	14	74%	33%
1926	14	76%	33%
1994	14	77%	33%
1930	13	78%	32%
1929	13	79%	32%
1987	13	80%	32%
2003	13	81%	31%
1939	12	82%	29%
1924	12	83%	28%
1932	11	84%	25%
1925	10	85%	24%
1955	9	86%	22%
1991	9	87%	21%
2015	9	88%	20%
1992	8	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	30	7	37	88%	1933	8	91%	18%
2007	11	3	14	33%	1934	8	92%	18%
2008	4	0	4	10%	1988	8	93%	18%
2009	14	1	15	35%	2001	6	94%	14%
2010	17	0	17	41%	1931	5	95%	11%
2011	30	2	31	74%	2008	4	96%	10%
2012	17	12	30	71%	1949	3	97%	8%
2013	11	4	14	34%	1990	3	98%	6%
2014	1	0	1	2%	1977	2	99%	4%
2015	8	0	9	20%	2014	1	100%	2%
Average	16	4	20	48%		20		48%
Maximum	30	12	38	91%		38		91%
Minimum	1	0	1	2%		1		2%

Table B-8. Antelope Valley-East Kern WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	73	0	73	50%	2012	129	0%	89%
1923	68	31	99	68%	1999	126	1%	87%
1924	23	12	35	24%	1983	121	2%	83%
1925	34	1	36	25%	1997	119	3%	82%
1926	46	2	48	33%	1953	118	4%	81%
1927	76	3	79	55%	2000	115	5%	79%
1928	66	21	87	60%	1968	110	6%	76%
1929	29	12	41	28%	1985	109	8%	75%
1930	46	2	48	33%	1943	108	9%	75%
1931	10	3	13	9%	2006	106	10%	74%
1932	39	1	39	27%	1984	103	11%	71%
1933	23	2	25	17%	1974	102	12%	70%
1934	25	1	27	19%	1923	99	13%	68%
1935	70	2	72	49%	1970	99	14%	68%
1936	78	0	78	54%	1975	93	15%	64%
1937	75	0	75	52%	1998	93	16%	64%
1938	81	11	93	64%	1938	93	17%	64%
1939	23	22	45	31%	1942	93	18%	64%
1940	78	1	79	55%	1996	91	19%	63%
1941	71	0	71	49%	1967	90	20%	62%
1942	69	23	93	64%	1969	87	22%	60%
1943	76	32	108	75%	1928	87	23%	60%
1944	37	20	57	40%	2005	85	24%	59%
1945	77	2	80	55%	2011	85	25%	58%
1946	67	17	83	58%	1982	83	26%	58%
1947	67	7	74	51%	1946	83	27%	58%
1948	62	0	62	43%	1958	83	28%	57%
1949	13	0	13	9%	1995	83	29%	57%
1950	74	1	75	52%	1966	81	30%	56%
1951	68	7	75	52%	1973	80	31%	56%
1952	66	7	73	51%	1963	80	32%	56%
1953	66	52	118	81%	1945	80	33%	55%
1954	69	7	76	53%	1927	79	35%	55%
1955	13	12	25	17%	1940	79	36%	55%
1956	74	0	75	51%	1957	79	37%	55%
1957	66	13	79	55%	1936	78	38%	54%
1958	71	12	83	57%	1954	76	39%	53%
1959	58	18	75	52%	1993	76	40%	53%
1960	52	0	52	36%	1989	76	41%	52%
1961	45	6	51	35%	1959	75	42%	52%
1962	65	0	65	45%	1978	75	43%	52%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	73	7	80	56%
1964	61	13	74	51%
1965	52	7	59	41%
1966	75	6	81	56%
1967	65	26	90	62%
1968	59	50	110	76%
1969	81	6	87	60%
1970	70	29	99	68%
1971	52	11	63	44%
1972	56	6	62	43%
1973	75	5	80	56%
1974	78	24	102	70%
1975	78	15	93	64%
1976	43	15	58	40%
1977	6	0	6	4%
1978	75	0	75	52%
1979	54	11	65	45%
1980	67	5	72	50%
1981	40	23	63	44%
1982	81	2	83	58%
1983	81	39	121	83%
1984	69	33	103	71%
1985	69	40	109	75%
1986	69	0	69	48%
1987	36	8	44	30%
1988	23	2	25	17%
1989	74	1	76	52%
1990	10	0	10	7%
1991	32	1	33	23%
1992	26	2	28	19%
1993	75	2	76	53%
1994	23	26	48	33%
1995	81	1	83	57%
1996	73	19	91	63%
1997	75	43	119	82%
1998	81	12	93	64%
1999	70	56	126	87%
2000	77	37	115	79%
2001	20	3	22	16%
2002	69	1	70	48%
2003	49	0	49	34%
2004	66	5	72	50%
2005	73	12	85	59%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1951	75	44%	52%
1937	75	45%	52%
1950	75	46%	52%
1956	75	47%	51%
1964	74	49%	51%
1947	74	50%	51%
1952	73	51%	51%
1922	73	52%	50%
1980	72	53%	50%
2004	72	54%	50%
1935	72	55%	49%
1941	71	56%	49%
2002	70	57%	48%
1986	69	58%	48%
1962	65	59%	45%
1979	65	60%	45%
2010	64	61%	44%
2013	64	63%	44%
1981	63	64%	44%
1971	63	65%	44%
1972	62	66%	43%
1948	62	67%	43%
1965	59	68%	41%
1976	58	69%	40%
1944	57	70%	40%
2009	53	71%	37%
1960	52	72%	36%
2007	52	73%	36%
1961	51	74%	35%
2003	49	76%	34%
1926	48	77%	33%
1994	48	78%	33%
1930	48	79%	33%
1939	45	80%	31%
2015	44	81%	30%
1987	44	82%	30%
1929	41	83%	28%
1932	39	84%	27%
1925	36	85%	25%
1924	35	86%	24%
1991	33	87%	23%
1992	28	88%	19%
1934	27	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	81	25	106	74%	1955	25	91%	17%
2007	42	10	52	36%	1988	25	92%	17%
2008	16	0	16	11%	1933	25	93%	17%
2009	52	1	53	37%	2001	22	94%	16%
2010	63	2	64	44%	2008	16	95%	11%
2011	81	3	85	58%	1949	13	96%	9%
2012	65	63	129	89%	1931	13	97%	9%
2013	56	7	64	44%	1990	10	98%	7%
2014	3	0	3	2%	1977	6	99%	4%
2015	43	0	44	30%	2014	3	100%	2%
Average	57	12	69	47%		69		47%
Maximum	81	63	129	89%		129		89%
Minimum	3	0	3	2%		3		2%

Table B-9. Santa Clarita Valley WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	44	0	44	46%	2012	86	0%	91%
1923	42	24	67	70%	1999	84	1%	88%
1924	15	10	25	26%	1953	83	2%	87%
1925	23	1	24	25%	1968	77	3%	81%
1926	31	1	32	34%	1997	77	4%	81%
1927	47	2	49	51%	1983	75	5%	79%
1928	41	16	58	61%	2000	72	6%	76%
1929	20	10	29	31%	1985	70	8%	74%
1930	31	1	32	33%	1974	68	9%	71%
1931	7	2	8	9%	1923	67	10%	70%
1932	26	0	26	27%	1943	66	11%	69%
1933	15	1	16	17%	1984	66	12%	69%
1934	17	1	18	19%	2006	61	13%	65%
1935	30	1	31	32%	1975	61	14%	64%
1936	46	0	46	49%	1970	58	15%	61%
1937	47	0	47	49%	1928	58	16%	61%
1938	47	10	57	60%	1946	57	17%	60%
1939	15	13	28	29%	1998	57	18%	60%
1940	46	1	46	49%	1938	57	19%	60%
1941	41	0	41	43%	1942	55	20%	57%
1942	41	13	55	57%	1996	53	22%	55%
1943	47	18	66	69%	1967	53	23%	55%
1944	25	16	41	43%	2005	52	24%	55%
1945	48	1	49	52%	1957	52	25%	55%
1946	44	14	57	60%	1958	51	26%	54%
1947	42	5	46	49%	1964	51	27%	53%
1948	41	0	41	43%	1963	51	28%	53%
1949	9	0	9	9%	1973	50	29%	52%
1950	46	0	47	49%	1966	50	30%	52%
1951	39	5	45	47%	1945	49	31%	52%
1952	38	4	42	45%	1969	49	32%	51%
1953	43	39	83	87%	1927	49	33%	51%
1954	43	5	48	51%	2011	48	35%	51%
1955	9	10	19	20%	1954	48	36%	51%
1956	46	0	47	49%	1959	48	37%	50%
1957	41	11	52	55%	1989	47	38%	50%
1958	41	10	51	54%	1995	47	39%	49%
1959	38	10	48	50%	1982	47	39%	49%
1960	34	0	34	36%	1937	47	41%	49%
1961	30	4	34	36%	1950	47	42%	49%
1962	43	0	43	45%	1956	47	43%	49%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	46	5	51	53%
1964	40	11	51	53%
1965	34	5	39	41%
1966	46	4	50	52%
1967	37	15	53	55%
1968	39	38	77	81%
1969	45	4	49	51%
1970	42	16	58	61%
1971	34	6	41	43%
1972	37	4	41	43%
1973	46	4	50	52%
1974	48	19	68	71%
1975	49	13	61	64%
1976	29	12	41	43%
1977	4	0	4	4%
1978	43	0	44	46%
1979	36	6	42	44%
1980	40	3	43	45%
1981	27	13	40	42%
1982	46	1	47	49%
1983	47	28	75	79%
1984	41	24	66	69%
1985	40	30	70	74%
1986	45	0	45	48%
1987	24	5	29	31%
1988	15	1	16	17%
1989	47	1	47	50%
1990	7	0	7	7%
1991	21	0	22	23%
1992	17	1	18	19%
1993	46	1	46	49%
1994	15	20	35	37%
1995	46	1	47	49%
1996	42	11	53	55%
1997	47	29	77	81%
1998	47	10	57	60%
1999	42	42	84	88%
2000	48	24	72	76%
2001	13	2	15	16%
2002	43	1	43	46%
2003	32	0	32	34%
2004	42	4	45	47%
2005	42	10	52	55%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1936	46	44%	49%
1940	46	45%	49%
1993	46	46%	49%
1947	46	47%	49%
1986	45	49%	48%
2004	45	50%	47%
1951	45	51%	47%
1922	44	52%	46%
1978	44	53%	46%
2002	43	54%	46%
1980	43	55%	45%
1962	43	56%	45%
1952	42	57%	45%
2010	42	58%	44%
1979	42	59%	44%
1941	41	60%	43%
1944	41	61%	43%
1972	41	63%	43%
1948	41	64%	43%
1976	41	65%	43%
1971	41	66%	43%
1981	40	67%	42%
1965	39	68%	41%
2013	38	69%	40%
1994	35	70%	37%
2009	35	71%	37%
1960	34	72%	36%
1961	34	73%	36%
2007	34	74%	35%
2003	32	76%	34%
1926	32	77%	34%
1930	32	78%	33%
1935	31	79%	32%
2015	30	80%	32%
1929	29	81%	31%
1987	29	82%	31%
1939	28	83%	29%
1932	26	84%	27%
1924	25	85%	26%
1925	24	86%	25%
1991	22	87%	23%
1955	19	88%	20%
1992	18	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	47	14	61	65%	1934	18	91%	19%
2007	28	5	34	35%	1988	16	92%	17%
2008	11	0	11	11%	1933	16	93%	17%
2009	34	0	35	37%	2001	15	94%	16%
2010	41	1	42	44%	2008	11	95%	11%
2011	46	2	48	51%	1949	9	96%	9%
2012	38	48	86	91%	1931	8	97%	9%
2013	33	5	38	40%	1990	7	98%	7%
2014	2	0	2	2%	1977	4	99%	4%
2015	30	0	30	32%	2014	2	100%	2%
Average	35	8	43	45%		43		45%
Maximum	49	48	86	91%		86		91%
Minimum	2	0	2	2%		2		2%

Table B-10. Coachella Valley WD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	68	0	68	49%	2012	133	0%	96%
1923	67	31	99	71%	1999	124	1%	90%
1924	23	9	32	23%	1953	121	2%	87%
1925	35	0	35	25%	1997	120	3%	87%
1926	47	0	47	34%	2000	115	4%	83%
1927	74	1	75	54%	1968	113	5%	82%
1928	66	18	84	61%	1983	111	6%	80%
1929	30	9	38	28%	1985	109	8%	79%
1930	47	0	47	34%	1943	105	9%	76%
1931	10	1	11	8%	1974	100	10%	72%
1932	39	0	39	28%	1923	99	11%	71%
1933	23	0	23	17%	1984	98	12%	71%
1934	26	0	26	19%	2006	93	13%	67%
1935	64	0	64	46%	1970	91	14%	66%
1936	78	0	78	56%	1975	89	15%	64%
1937	75	0	75	54%	1942	85	16%	61%
1938	69	8	78	56%	1928	84	17%	61%
1939	23	21	44	32%	1967	80	18%	58%
1940	78	0	78	56%	1996	80	19%	58%
1941	60	0	61	44%	1963	79	20%	57%
1942	63	22	85	61%	1946	79	22%	57%
1943	74	31	105	76%	1936	78	23%	56%
1944	38	18	55	40%	1998	78	24%	56%
1945	76	0	76	55%	1938	78	25%	56%
1946	65	14	79	57%	1940	78	26%	56%
1947	65	6	71	51%	1945	76	27%	55%
1948	61	0	61	44%	1973	76	28%	55%
1949	13	0	14	10%	1966	76	29%	55%
1950	74	0	74	53%	1957	75	30%	54%
1951	58	5	63	46%	1927	75	31%	54%
1952	56	7	63	46%	1954	75	32%	54%
1953	64	56	121	87%	1937	75	33%	54%
1954	69	6	75	54%	1989	74	35%	53%
1955	13	9	22	16%	1956	74	36%	53%
1956	74	0	74	53%	1969	74	37%	53%
1957	65	10	75	54%	1950	74	38%	53%
1958	61	9	69	50%	1959	73	39%	53%
1959	56	17	73	53%	2011	72	40%	52%
1960	51	0	51	37%	1993	71	41%	51%
1961	46	5	50	36%	2005	71	42%	51%
1962	63	0	63	46%	1947	71	43%	51%
1963	73	6	79	57%	2004	70	44%	51%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	59	10	69	50%
1965	51	5	56	41%
1966	71	5	76	55%
1967	55	25	80	58%
1968	58	55	113	82%
1969	69	4	74	53%
1970	64	27	91	66%
1971	51	11	61	44%
1972	55	5	60	43%
1973	72	4	76	55%
1974	77	23	100	72%
1975	77	12	89	64%
1976	43	11	54	39%
1977	6	0	6	4%
1978	64	0	64	46%
1979	53	10	63	46%
1980	59	4	63	46%
1981	40	22	63	45%
1982	69	0	69	50%
1983	69	41	111	80%
1984	62	36	98	71%
1985	67	42	109	79%
1986	67	0	67	49%
1987	36	6	42	31%
1988	23	0	23	17%
1989	74	0	74	53%
1990	10	0	10	7%
1991	32	0	32	23%
1992	26	0	26	19%
1993	71	0	71	51%
1994	23	24	47	34%
1995	69	0	69	50%
1996	62	18	80	58%
1997	75	45	120	87%
1998	69	8	78	56%
1999	64	61	124	90%
2000	76	39	115	83%
2001	20	3	23	16%
2002	68	0	68	49%
2003	48	0	48	34%
2004	66	4	70	51%
2005	62	9	71	51%
2006	69	24	93	67%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1958	69	45%	50%
1995	69	46%	50%
1982	69	46%	50%
1964	69	49%	50%
2002	68	50%	49%
1922	68	51%	49%
1986	67	52%	49%
1978	64	53%	46%
1935	64	54%	46%
1962	63	55%	46%
1980	63	56%	46%
1951	63	57%	46%
1979	63	58%	46%
1952	63	59%	46%
1981	63	60%	45%
2010	62	61%	45%
1971	61	63%	44%
1948	61	64%	44%
1941	61	65%	44%
1972	60	66%	43%
1965	56	67%	41%
1944	55	68%	40%
1976	54	69%	39%
2007	52	70%	37%
2009	51	71%	37%
1960	51	72%	37%
1961	50	73%	36%
2003	48	74%	34%
1994	47	76%	34%
1926	47	77%	34%
1930	47	78%	34%
1939	44	79%	32%
1987	42	80%	31%
1932	39	81%	28%
1929	38	82%	28%
1925	35	83%	25%
1991	32	84%	23%
1924	32	85%	23%
1992	26	86%	19%
1934	26	87%	19%
1988	23	88%	17%
1933	23	90%	17%
2001	23	91%	16%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	43	9	52	37%	1955	22	92%	16%
2008	16	0	16	12%	2013	20	93%	14%
2009	51	0	51	37%	2008	16	94%	12%
2010	61	1	62	45%	1949	14	95%	10%
2011	69	2	72	52%	1931	11	96%	8%
2012	64	69	133	96%	1990	10	97%	7%
2013	14	6	20	14%	1977	6	98%	4%
2014	3	0	3	2%	2015	4	99%	3%
2015	4	0	4	3%	2014	3	100%	2%
Average	53	11	64	46%		64		46%
Maximum	78	69	133	96%		133		96%
Minimum	3	0	3	2%		3		2%

Table B-11. County of Kings: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	7	0	7	72%	2011	9	0%	100%
1923	5	0	5	55%	2006	9	0%	100%
1924	2	0	2	16%	1998	9	0%	100%
1925	2	0	2	25%	1995	9	0%	100%
1926	3	0	3	34%	1983	9	0%	100%
1927	6	0	6	67%	1982	9	0%	100%
1928	5	0	5	54%	1969	9	0%	100%
1929	2	0	2	21%	1938	9	0%	100%
1930	3	0	3	34%	1978	9	9%	92%
1931	1	0	1	7%	2005	8	10%	90%
1932	3	0	3	28%	1996	8	11%	89%
1933	2	0	2	17%	1958	8	12%	88%
1934	2	0	2	19%	1941	8	13%	87%
1935	4	0	4	45%	1951	8	14%	84%
1936	6	0	6	64%	1952	8	15%	82%
1937	6	0	6	61%	1967	7	16%	79%
1938	9	0	9	100%	1980	7	17%	77%
1939	2	0	2	17%	1984	7	18%	75%
1940	6	0	6	64%	1942	7	19%	75%
1941	8	0	8	87%	1999	7	20%	74%
1942	7	0	7	75%	1970	7	22%	74%
1943	6	0	6	67%	1922	7	23%	72%
1944	3	0	3	27%	1966	6	24%	70%
1945	6	0	6	65%	1993	6	25%	69%
1946	5	0	5	51%	1973	6	26%	69%
1947	5	0	5	51%	1927	6	27%	67%
1948	4	0	4	48%	1943	6	28%	67%
1949	1	0	1	10%	1945	6	29%	65%
1950	6	0	6	60%	2000	6	30%	65%
1951	8	0	8	84%	1974	6	31%	64%
1952	8	0	8	82%	1936	6	32%	64%
1953	5	0	5	51%	1975	6	33%	64%
1954	5	0	5	56%	1940	6	35%	64%
1955	1	0	1	9%	1997	6	36%	61%
1956	6	0	6	60%	1937	6	37%	61%
1957	5	0	5	54%	1989	6	38%	61%
1958	8	0	8	88%	1956	6	39%	60%
1959	4	0	4	44%	1950	6	40%	60%
1960	4	0	4	40%	1963	6	41%	60%
1961	3	0	3	33%	1954	5	42%	56%
1962	5	0	5	50%	2002	5	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	6	0	6	60%
1964	4	0	4	47%
1965	4	0	4	40%
1966	6	0	6	70%
1967	7	0	7	79%
1968	4	0	4	46%
1969	9	0	9	100%
1970	7	0	7	74%
1971	4	0	4	40%
1972	4	0	4	43%
1973	6	0	6	69%
1974	6	0	6	64%
1975	6	0	6	64%
1976	3	0	3	31%
1977	0	0	0	4%
1978	9	0	9	92%
1979	4	0	4	42%
1980	7	0	7	77%
1981	3	0	3	29%
1982	9	0	9	100%
1983	9	0	9	100%
1984	7	0	7	75%
1985	5	0	5	53%
1986	5	0	5	53%
1987	2	0	2	26%
1988	2	0	2	17%
1989	6	0	6	61%
1990	1	0	1	7%
1991	2	0	2	23%
1992	2	0	2	19%
1993	6	0	6	69%
1994	2	0	2	17%
1995	9	0	9	100%
1996	8	0	8	89%
1997	6	0	6	61%
1998	9	0	9	100%
1999	7	0	7	74%
2000	6	0	6	65%
2001	1	0	1	14%
2002	5	0	5	56%
2003	3	0	3	37%
2004	5	0	5	54%
2005	8	0	8	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1923	5	44%	55%
2004	5	45%	54%
1928	5	46%	54%
1957	5	47%	54%
1986	5	49%	53%
1985	5	50%	53%
1946	5	51%	51%
1947	5	51%	51%
1953	5	53%	51%
2012	5	54%	50%
1962	5	55%	50%
2010	4	56%	48%
1948	4	57%	48%
1964	4	58%	47%
1968	4	59%	46%
1935	4	60%	45%
1959	4	61%	44%
1972	4	63%	43%
2013	4	64%	43%
1979	4	65%	42%
2009	4	66%	40%
1965	4	67%	40%
1960	4	68%	40%
1971	4	69%	40%
2003	3	70%	37%
1926	3	71%	34%
1930	3	72%	34%
1961	3	73%	33%
1976	3	74%	31%
2007	3	76%	31%
1981	3	77%	29%
1932	3	78%	28%
2015	3	79%	28%
1944	3	80%	27%
1987	2	81%	26%
1925	2	82%	25%
1991	2	83%	23%
1929	2	84%	21%
1992	2	85%	19%
1934	2	86%	19%
1988	2	87%	17%
1994	2	88%	17%
1939	2	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	9	0	9	100%	1933	2	91%	17%
2007	3	0	3	31%	1924	2	92%	16%
2008	1	0	1	12%	2001	1	93%	14%
2009	4	0	4	40%	2008	1	94%	12%
2010	4	0	4	48%	1949	1	95%	10%
2011	9	0	9	100%	1955	1	96%	9%
2012	5	0	5	50%	1990	1	97%	7%
2013	4	0	4	43%	1931	1	98%	7%
2014	0	0	0	2%	1977	0	99%	4%
2015	3	0	3	28%	2014	0	100%	2%
Average	5	0	5	52%		5		52%
Maximum	9	0	9	100%		9		100%
Minimum	0	0	0	2%		0		2%

Table B-12. Crestline-Lake Arrowhead WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	3	0	3	44%	2012	5	0%	92%
1923	2	2	4	68%	1999	5	1%	87%
1924	1	1	2	29%	1953	5	2%	83%
1925	1	0	1	24%	1983	5	3%	80%
1926	2	0	2	33%	1997	5	4%	78%
1927	3	0	3	51%	1968	5	5%	78%
1928	2	1	4	61%	2000	4	6%	76%
1929	1	1	2	33%	1974	4	8%	70%
1930	2	0	2	32%	1923	4	9%	68%
1931	0	0	1	11%	1943	4	10%	68%
1932	1	0	1	26%	1984	4	11%	68%
1933	1	0	1	18%	2006	4	12%	67%
1934	1	0	1	18%	1985	4	13%	66%
1935	1	0	1	17%	1975	4	14%	64%
1936	2	0	2	41%	1998	4	15%	64%
1937	3	0	3	45%	1938	4	16%	64%
1938	3	1	4	64%	1970	4	17%	63%
1939	1	1	2	30%	1946	4	18%	61%
1940	2	0	2	38%	1928	4	19%	61%
1941	3	0	3	44%	2005	3	20%	59%
1942	2	1	3	58%	1942	3	22%	58%
1943	3	1	4	68%	1967	3	23%	58%
1944	1	1	3	44%	1958	3	24%	58%
1945	3	0	3	50%	1996	3	25%	58%
1946	2	1	4	61%	1969	3	26%	57%
1947	2	0	2	37%	1957	3	27%	55%
1948	2	0	2	40%	1964	3	28%	54%
1949	0	0	0	9%	2011	3	29%	54%
1950	3	0	3	46%	1982	3	30%	53%
1951	2	0	3	50%	1963	3	31%	52%
1952	2	0	3	46%	1995	3	32%	52%
1953	2	2	5	83%	1966	3	33%	52%
1954	2	0	3	50%	1973	3	35%	52%
1955	0	1	1	23%	1927	3	36%	51%
1956	3	0	3	45%	1945	3	37%	50%
1957	2	1	3	55%	1954	3	38%	50%
1958	3	1	3	58%	1951	3	39%	50%
1959	2	1	3	44%	1993	3	40%	48%
1960	2	0	2	33%	1980	3	41%	47%
1961	2	0	2	35%	1989	3	42%	47%
1962	2	0	2	42%	1978	3	43%	47%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	3	0	3	52%
1964	2	1	3	54%
1965	2	0	2	41%
1966	3	0	3	52%
1967	2	1	3	58%
1968	2	2	5	78%
1969	3	0	3	57%
1970	2	1	4	63%
1971	2	0	2	41%
1972	2	0	2	43%
1973	3	0	3	52%
1974	3	1	4	70%
1975	3	1	4	64%
1976	2	1	3	44%
1977	0	0	0	4%
1978	3	0	3	47%
1979	2	0	2	42%
1980	2	0	3	47%
1981	1	1	2	42%
1982	3	0	3	53%
1983	3	2	5	80%
1984	2	1	4	68%
1985	2	2	4	66%
1986	3	0	3	44%
1987	1	1	2	32%
1988	1	0	1	18%
1989	3	0	3	47%
1990	0	0	0	6%
1991	1	0	1	21%
1992	1	0	1	20%
1993	3	0	3	48%
1994	1	1	2	38%
1995	3	0	3	52%
1996	3	1	3	58%
1997	3	2	5	78%
1998	3	1	4	64%
1999	2	3	5	87%
2000	3	2	4	76%
2001	1	0	1	14%
2002	2	0	3	43%
2003	2	0	2	31%
2004	2	0	3	46%
2005	3	1	3	59%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2004	3	44%	46%
1950	3	45%	46%
1952	3	46%	46%
1956	3	47%	45%
1937	3	49%	45%
1959	3	50%	44%
1976	3	51%	44%
1986	3	51%	44%
1944	3	53%	44%
1922	3	54%	44%
1941	3	55%	44%
2002	3	56%	43%
1972	2	57%	43%
1979	2	58%	42%
1962	2	59%	42%
1981	2	60%	42%
1965	2	61%	41%
2010	2	63%	41%
1971	2	64%	41%
1936	2	65%	41%
1948	2	66%	40%
1994	2	67%	38%
1940	2	68%	38%
1947	2	69%	37%
1961	2	70%	35%
2009	2	71%	35%
2007	2	72%	33%
1960	2	73%	33%
1926	2	74%	33%
1929	2	76%	33%
1930	2	77%	32%
1987	2	78%	32%
2013	2	79%	31%
2003	2	79%	31%
1939	2	81%	30%
2015	2	82%	30%
1924	2	83%	29%
1932	1	84%	26%
1925	1	85%	24%
1955	1	86%	23%
1991	1	87%	21%
1992	1	88%	20%
1934	1	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	3	1	4	67%	1988	1	91%	18%
2007	2	0	2	33%	1933	1	91%	18%
2008	1	0	1	10%	1935	1	93%	17%
2009	2	0	2	35%	2001	1	94%	14%
2010	2	0	2	41%	1931	1	95%	11%
2011	3	0	3	54%	2008	1	96%	10%
2012	2	3	5	92%	1949	0	97%	9%
2013	1	0	2	31%	1990	0	98%	6%
2014	0	0	0	2%	1977	0	99%	4%
2015	2	0	2	30%	2014	0	100%	2%
Average	2	1	3	45%		3		45%
Maximum	3	3	5	92%		5		92%
Minimum	0	0	0	2%		0		2%

Table B-13. Desert WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	27	0	27	49%	2012	53	0%	95%
1923	27	13	40	71%	1999	50	1%	90%
1924	9	4	13	23%	1997	48	2%	87%
1925	14	0	14	25%	1953	48	3%	86%
1926	19	0	19	34%	2000	46	4%	83%
1927	30	0	30	54%	1968	45	5%	81%
1928	26	7	34	61%	1983	45	6%	80%
1929	12	3	15	28%	1985	43	8%	78%
1930	19	0	19	34%	1943	42	9%	76%
1931	4	0	4	8%	1974	40	10%	72%
1932	16	0	16	28%	1923	40	11%	71%
1933	9	0	9	17%	1984	39	12%	71%
1934	10	0	10	19%	2006	38	13%	67%
1935	26	0	26	46%	1970	37	14%	66%
1936	31	0	31	56%	1975	36	15%	64%
1937	30	0	30	54%	1942	34	16%	61%
1938	28	3	31	56%	1928	34	17%	61%
1939	9	9	18	32%	1963	32	18%	58%
1940	31	0	31	56%	1967	32	19%	58%
1941	24	0	24	44%	1996	32	20%	58%
1942	25	9	34	61%	1936	31	22%	56%
1943	30	12	42	76%	1998	31	23%	56%
1944	15	7	22	40%	1938	31	24%	56%
1945	31	0	31	55%	1940	31	25%	56%
1946	26	6	31	56%	1946	31	26%	56%
1947	26	3	29	51%	1973	31	27%	56%
1948	24	0	24	43%	1966	31	28%	56%
1949	5	0	5	10%	1945	31	29%	55%
1950	30	0	30	53%	1954	31	30%	55%
1951	23	2	25	46%	1957	30	31%	54%
1952	23	3	25	46%	1927	30	32%	54%
1953	25	23	48	86%	1969	30	33%	54%
1954	28	3	31	55%	1937	30	33%	54%
1955	5	4	9	16%	1989	30	36%	53%
1956	30	0	30	53%	1956	30	37%	53%
1957	26	4	30	54%	1950	30	38%	53%
1958	24	3	28	50%	2011	29	39%	52%
1959	22	7	29	52%	1959	29	40%	52%
1960	20	0	20	36%	1993	29	41%	51%
1961	18	2	21	37%	2004	29	42%	51%
1962	25	0	25	45%	2005	29	43%	51%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	29	3	32	58%
1964	23	4	27	49%
1965	20	3	23	41%
1966	29	2	31	56%
1967	22	10	32	58%
1968	23	22	45	81%
1969	28	2	30	54%
1970	26	11	37	66%
1971	20	4	24	44%
1972	22	2	24	43%
1973	29	2	31	56%
1974	31	9	40	72%
1975	31	5	36	64%
1976	18	4	22	39%
1977	2	0	2	4%
1978	26	0	26	46%
1979	21	4	25	45%
1980	24	2	26	46%
1981	16	9	25	45%
1982	28	0	28	50%
1983	28	17	45	80%
1984	25	14	39	71%
1985	27	17	43	78%
1986	27	0	27	48%
1987	15	3	18	32%
1988	9	0	9	17%
1989	30	0	30	53%
1990	4	0	4	7%
1991	13	0	13	23%
1992	11	0	11	19%
1993	29	0	29	51%
1994	9	10	19	34%
1995	28	0	28	50%
1996	25	7	32	58%
1997	30	18	48	87%
1998	28	3	31	56%
1999	26	24	50	90%
2000	31	16	46	83%
2001	8	1	9	16%
2002	27	0	27	49%
2003	19	0	19	34%
2004	27	2	29	51%
2005	25	4	29	51%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1947	29	44%	51%
1958	28	45%	50%
1995	28	46%	50%
1982	28	46%	50%
2002	27	49%	49%
1922	27	50%	49%
1964	27	51%	49%
1986	27	52%	48%
1980	26	53%	46%
1978	26	54%	46%
1935	26	55%	46%
1951	25	56%	46%
1952	25	57%	46%
1981	25	58%	45%
1962	25	59%	45%
1979	25	60%	45%
2010	25	61%	44%
1941	24	63%	44%
1971	24	64%	44%
1972	24	65%	43%
1948	24	66%	43%
1965	23	67%	41%
1944	22	68%	40%
1976	22	69%	39%
2007	21	70%	37%
1961	21	71%	37%
2009	20	72%	36%
1960	20	73%	36%
1994	19	74%	34%
2003	19	76%	34%
1926	19	77%	34%
1930	19	78%	34%
1939	18	79%	32%
1987	18	80%	32%
1932	16	81%	28%
1929	15	82%	28%
1925	14	83%	25%
1991	13	84%	23%
1924	13	85%	23%
1992	11	86%	19%
1934	10	87%	19%
1988	9	88%	17%
1933	9	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	28	10	38	67%	2001	9	91%	16%
2007	17	4	21	37%	1955	9	92%	16%
2008	6	0	6	12%	2008	6	93%	12%
2009	20	0	20	36%	1949	5	94%	10%
2010	24	1	25	44%	2015	4	95%	8%
2011	28	1	29	52%	1931	4	96%	8%
2012	25	28	53	95%	1990	4	97%	7%
2013	1	3	3	6%	2013	3	98%	6%
2014	1	0	1	2%	1977	2	99%	4%
2015	4	0	4	8%	2014	1	100%	2%
Average	21	4	26	46%		26		46%
Maximum	31	28	53	95%		53		95%
Minimum	1	0	1	2%		1		2%

Table B-14. Dudley Ridge WD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	23	0	23	57%	1983	38	0%	93%
1923	19	6	25	62%	2006	38	1%	91%
1924	6	4	10	24%	1998	34	2%	82%
1925	10	0	10	24%	1938	34	3%	82%
1926	13	1	14	33%	1999	33	4%	81%
1927	23	1	24	58%	1969	33	5%	79%
1928	19	5	24	57%	1996	33	6%	79%
1929	8	4	12	29%	2011	32	8%	77%
1930	13	1	14	33%	1970	32	9%	77%
1931	3	1	4	9%	1982	31	10%	76%
1932	11	0	11	27%	1995	31	11%	75%
1933	6	1	7	17%	2005	31	12%	75%
1934	7	0	8	18%	1942	30	13%	74%
1935	14	1	15	36%	1958	30	14%	73%
1936	22	0	22	54%	1984	30	15%	73%
1937	21	0	21	51%	1967	30	16%	72%
1938	31	3	34	82%	1943	30	17%	72%
1939	6	6	13	31%	1997	29	18%	71%
1940	22	0	23	54%	2000	29	19%	71%
1941	27	0	27	65%	2012	29	20%	69%
1942	24	7	30	74%	1978	28	22%	68%
1943	23	7	30	72%	1951	28	23%	67%
1944	10	5	15	37%	1974	28	24%	67%
1945	22	1	23	56%	1952	27	25%	65%
1946	18	5	23	55%	1953	27	26%	65%
1947	18	3	21	51%	1941	27	27%	65%
1948	17	0	17	41%	1975	26	28%	64%
1949	4	0	4	9%	1985	26	29%	63%
1950	21	0	21	51%	1980	26	30%	63%
1951	26	2	28	67%	1923	25	31%	62%
1952	25	2	27	65%	1966	25	32%	61%
1953	18	9	27	65%	1973	25	33%	60%
1954	20	3	22	54%	1968	25	35%	60%
1955	4	4	7	18%	1927	24	36%	58%
1956	21	0	21	51%	1928	24	37%	57%
1957	19	4	23	55%	1993	24	38%	57%
1958	27	4	30	73%	1963	23	39%	57%
1959	16	5	21	50%	1922	23	40%	57%
1960	14	0	14	35%	1945	23	41%	56%
1961	13	2	15	36%	1946	23	42%	55%
1962	18	0	18	43%	1957	23	43%	55%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	21	3	23	57%
1964	17	4	21	50%
1965	14	3	17	41%
1966	23	2	25	61%
1967	24	6	30	72%
1968	16	9	25	60%
1969	31	2	33	79%
1970	24	8	32	77%
1971	14	3	17	42%
1972	15	2	18	43%
1973	23	2	25	60%
1974	22	5	28	67%
1975	22	4	26	64%
1976	12	4	16	40%
1977	2	0	2	4%
1978	28	0	28	68%
1979	15	3	18	43%
1980	24	2	26	63%
1981	11	7	18	43%
1982	31	1	31	76%
1983	31	8	38	93%
1984	24	6	30	73%
1985	19	7	26	63%
1986	19	0	19	46%
1987	10	3	13	32%
1988	6	1	7	18%
1989	21	0	22	52%
1990	3	0	3	7%
1991	9	0	9	22%
1992	7	1	8	19%
1993	23	1	24	57%
1994	6	6	12	29%
1995	31	0	31	75%
1996	27	5	33	79%
1997	21	8	29	71%
1998	31	3	34	82%
1999	24	10	33	81%
2000	22	7	29	71%
2001	6	1	6	15%
2002	19	0	20	48%
2003	13	0	13	32%
2004	19	2	21	50%
2005	27	4	31	75%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1940	23	44%	54%
1954	22	45%	54%
1936	22	46%	54%
1989	22	47%	52%
1950	21	49%	51%
1937	21	50%	51%
1956	21	51%	51%
1947	21	52%	51%
2004	21	53%	50%
1959	21	54%	50%
1964	21	55%	50%
2002	20	56%	48%
1986	19	57%	46%
2013	18	58%	44%
1979	18	59%	43%
1981	18	60%	43%
1962	18	61%	43%
1972	18	63%	43%
2010	18	64%	43%
1971	17	65%	42%
1948	17	66%	41%
1965	17	67%	41%
1976	16	68%	40%
1944	15	69%	37%
1961	15	70%	36%
1935	15	71%	36%
2009	15	72%	35%
2007	15	73%	35%
2015	14	74%	35%
1960	14	76%	35%
1926	14	77%	33%
1930	14	78%	33%
2003	13	79%	32%
1987	13	80%	32%
1939	13	81%	31%
1994	12	82%	29%
1929	12	83%	29%
1932	11	84%	27%
1925	10	85%	24%
1924	10	86%	24%
1991	9	87%	22%
1992	8	88%	19%
1934	8	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	31	7	38	91%	1955	7	91%	18%
2007	12	3	15	35%	1988	7	92%	18%
2008	4	0	4	11%	1933	7	93%	17%
2009	14	0	15	35%	2001	6	94%	15%
2010	17	0	18	43%	2008	4	95%	11%
2011	31	1	32	77%	1931	4	96%	9%
2012	18	11	29	69%	1949	4	97%	9%
2013	15	3	18	44%	1990	3	98%	7%
2014	1	0	1	2%	1977	2	99%	4%
2015	14	0	14	35%	2014	1	100%	2%
Average	18	3	20	49%		20		49%
Maximum	31	11	38	93%		38		93%
Minimum	1	0	1	2%		1		2%

Table B-15. Empire West Side ID: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	2	0	2	65%	2006	3	0%	99%
1923	2	0	2	59%	1983	3	1%	98%
1924	0	0	1	19%	1996	3	2%	91%
1925	1	0	1	25%	1998	3	3%	90%
1926	1	0	1	34%	1938	3	3%	90%
1927	2	0	2	63%	1969	3	5%	89%
1928	2	0	2	56%	2011	3	6%	88%
1929	1	0	1	24%	1982	3	8%	88%
1930	1	0	1	34%	1995	3	9%	88%
1931	0	0	0	8%	2005	2	10%	81%
1932	1	0	1	28%	1978	2	11%	80%
1933	0	0	1	17%	1958	2	12%	80%
1934	1	0	1	19%	1970	2	13%	79%
1935	2	0	2	58%	1999	2	14%	78%
1936	2	0	2	60%	1942	2	15%	78%
1937	2	0	2	58%	1941	2	16%	76%
1938	3	0	3	90%	1952	2	17%	76%
1939	0	0	1	29%	1984	2	18%	76%
1940	2	0	2	60%	1951	2	19%	75%
1941	2	0	2	76%	1967	2	20%	75%
1942	2	0	2	78%	1943	2	22%	70%
1943	2	0	2	70%	1980	2	23%	69%
1944	1	0	1	32%	2000	2	24%	68%
1945	2	0	2	61%	1997	2	25%	68%
1946	1	0	2	53%	1974	2	26%	66%
1947	1	0	2	51%	1966	2	27%	65%
1948	1	0	1	46%	1922	2	28%	65%
1949	0	0	0	10%	1973	2	29%	65%
1950	2	0	2	57%	1975	2	30%	64%
1951	2	0	2	75%	1993	2	31%	64%
1952	2	0	2	76%	1927	2	32%	63%
1953	1	0	2	59%	1945	2	33%	61%
1954	2	0	2	55%	2012	2	35%	61%
1955	0	0	0	12%	1936	2	36%	60%
1956	2	0	2	57%	1940	2	36%	60%
1957	2	0	2	54%	1985	2	38%	59%
1958	2	0	2	80%	1953	2	39%	59%
1959	1	0	2	54%	1923	2	40%	59%
1960	1	0	1	38%	1935	2	41%	58%
1961	1	0	1	34%	1963	2	42%	58%
1962	1	0	1	48%	1937	2	43%	58%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	2	0	2	58%
1964	1	0	1	48%
1965	1	0	1	40%
1966	2	0	2	65%
1967	2	0	2	75%
1968	1	0	2	54%
1969	3	0	3	89%
1970	2	0	2	79%
1971	1	0	1	46%
1972	1	0	1	43%
1973	2	0	2	65%
1974	2	0	2	66%
1975	2	0	2	64%
1976	1	0	1	35%
1977	0	0	0	4%
1978	2	0	2	80%
1979	1	0	1	47%
1980	2	0	2	69%
1981	1	0	1	38%
1982	3	0	3	88%
1983	3	0	3	98%
1984	2	0	2	76%
1985	2	0	2	59%
1986	2	0	2	51%
1987	1	0	1	28%
1988	0	0	1	17%
1989	2	0	2	57%
1990	0	0	0	7%
1991	1	0	1	23%
1992	1	0	1	19%
1993	2	0	2	64%
1994	0	0	1	22%
1995	3	0	3	88%
1996	2	0	3	91%
1997	2	0	2	68%
1998	3	0	3	90%
1999	2	0	2	78%
2000	2	0	2	68%
2001	0	0	0	16%
2002	2	0	2	53%
2003	1	0	1	36%
2004	2	0	2	53%
2005	2	0	2	81%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1989	2	44%	57%
1956	2	45%	57%
1950	2	46%	57%
1928	2	47%	56%
1954	2	49%	55%
1968	2	50%	54%
1957	2	50%	54%
1959	2	52%	54%
1946	2	53%	53%
2002	2	54%	53%
2004	2	55%	53%
1947	2	56%	51%
1986	2	57%	51%
1964	1	58%	48%
1962	1	59%	48%
1979	1	60%	47%
2010	1	61%	47%
1971	1	63%	46%
1948	1	64%	46%
2013	1	65%	43%
1972	1	66%	43%
2015	1	67%	41%
1965	1	68%	40%
2009	1	69%	39%
1960	1	70%	38%
1981	1	71%	38%
2007	1	72%	37%
2003	1	73%	36%
1976	1	74%	35%
1961	1	76%	34%
1926	1	77%	34%
1930	1	78%	34%
1944	1	79%	32%
1939	1	80%	29%
1932	1	81%	28%
1987	1	81%	28%
1925	1	83%	25%
1929	1	84%	24%
1991	1	85%	23%
1994	1	86%	22%
1924	1	87%	19%
1992	1	88%	19%
1934	1	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	3	0	3	99%	1988	1	91%	17%
2007	1	0	1	37%	1933	1	92%	17%
2008	0	0	0	11%	2001	0	93%	16%
2009	1	0	1	39%	1955	0	94%	12%
2010	1	0	1	47%	2008	0	95%	11%
2011	3	0	3	88%	1949	0	96%	10%
2012	1	0	2	61%	1931	0	97%	8%
2013	1	0	1	43%	1990	0	98%	7%
2014	0	0	0	2%	1977	0	99%	4%
2015	1	0	1	41%	2014	0	100%	2%
Average	1	0	2	52%		2		52%
Maximum	3	0	3	99%		3		99%
Minimum	0	0	0	2%		0		2%

Table B-16. Kern County WA-AG: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	569	0	569	67%	2006	840	0%	99%
1923	453	39	493	58%	1983	836	1%	99%
1924	139	14	153	18%	1998	780	2%	92%
1925	211	1	212	25%	1938	780	3%	92%
1926	289	1	290	34%	1969	772	4%	91%
1927	541	2	544	64%	2011	770	5%	91%
1928	442	25	468	55%	1982	768	6%	91%
1929	180	14	194	23%	1995	768	8%	91%
1930	287	1	288	34%	1996	765	9%	90%
1931	60	2	63	7%	1978	706	10%	83%
1932	238	0	239	28%	2005	702	11%	83%
1933	139	1	141	17%	1958	686	12%	81%
1934	157	1	158	19%	1941	671	13%	79%
1935	503	1	504	59%	1952	666	14%	79%
1936	524	0	524	62%	1970	662	15%	78%
1937	502	0	502	59%	1999	661	16%	78%
1938	767	13	780	92%	1942	656	17%	77%
1939	140	81	221	26%	1951	654	18%	77%
1940	522	1	523	62%	1984	651	19%	77%
1941	670	1	671	79%	1967	640	20%	75%
1942	585	71	656	77%	1980	601	22%	71%
1943	540	50	590	70%	1943	590	23%	70%
1944	230	25	254	30%	2000	577	24%	68%
1945	532	1	534	63%	1922	569	25%	67%
1946	427	20	447	53%	1997	567	26%	67%
1947	427	7	434	51%	1966	562	27%	66%
1948	399	0	399	47%	1973	557	28%	66%
1949	82	1	82	10%	1974	556	29%	66%
1950	495	0	496	58%	1993	555	30%	65%
1951	643	12	654	77%	1927	544	31%	64%
1952	625	41	666	79%	1975	542	32%	64%
1953	423	66	489	58%	1945	534	33%	63%
1954	462	7	469	55%	1936	524	35%	62%
1955	79	14	93	11%	1940	523	36%	62%
1956	497	0	497	59%	1935	504	37%	59%
1957	440	16	455	54%	1937	502	38%	59%
1958	672	14	686	81%	2012	501	39%	59%
1959	370	71	442	52%	1989	499	40%	59%
1960	334	0	334	39%	1956	497	41%	59%
1961	279	5	284	34%	1963	496	42%	59%
1962	418	0	418	49%	1950	496	43%	58%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	490	7	496	59%
1964	389	15	404	48%
1965	335	6	341	40%
1966	557	5	562	66%
1967	608	32	640	75%
1968	381	65	446	53%
1969	767	5	772	91%
1970	580	81	662	78%
1971	334	46	380	45%
1972	362	5	367	43%
1973	552	5	557	66%
1974	526	30	556	66%
1975	524	18	542	64%
1976	265	17	282	33%
1977	37	0	37	4%
1978	706	0	706	83%
1979	347	64	411	48%
1980	596	5	601	71%
1981	246	56	303	36%
1982	767	1	768	91%
1983	767	69	836	99%
1984	586	65	651	77%
1985	442	50	493	58%
1986	443	0	443	52%
1987	221	7	228	27%
1988	142	1	143	17%
1989	498	1	499	59%
1990	63	0	63	7%
1991	198	0	198	23%
1992	161	1	162	19%
1993	554	1	555	65%
1994	140	32	172	20%
1995	767	1	768	91%
1996	683	81	765	90%
1997	505	62	567	67%
1998	767	13	780	92%
1999	581	80	661	78%
2000	530	47	577	68%
2001	121	17	138	16%
2002	459	1	460	54%
2003	313	0	313	37%
2004	445	5	450	53%
2005	688	14	702	83%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1923	493	44%	58%
1985	493	45%	58%
1953	489	46%	58%
1954	469	47%	55%
1928	468	49%	55%
2002	460	50%	54%
1957	455	51%	54%
2004	450	52%	53%
1946	447	53%	53%
1968	446	54%	53%
1986	443	55%	52%
1959	442	56%	52%
1947	434	57%	51%
1962	418	58%	49%
1979	411	59%	48%
2010	407	60%	48%
1964	404	61%	48%
1948	399	63%	47%
1971	380	64%	45%
1972	367	65%	43%
2013	366	66%	43%
1965	341	67%	40%
2009	336	68%	40%
1960	334	69%	39%
2007	316	70%	37%
2015	315	71%	37%
2003	313	72%	37%
1981	303	73%	36%
1926	290	74%	34%
1930	288	76%	34%
1961	284	77%	34%
1976	282	78%	33%
1944	254	79%	30%
1932	239	80%	28%
1987	228	81%	27%
1939	221	82%	26%
1925	212	83%	25%
1991	198	84%	23%
1929	194	85%	23%
1994	172	86%	20%
1992	162	87%	19%
1934	158	88%	19%
1924	153	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	767	73	840	99%	1988	143	91%	17%
2007	261	56	316	37%	1933	141	92%	17%
2008	97	0	97	11%	2001	138	93%	16%
2009	335	1	336	40%	2008	97	94%	11%
2010	401	5	407	48%	1955	93	95%	11%
2011	767	3	770	91%	1949	82	96%	10%
2012	420	81	501	59%	1990	63	97%	7%
2013	359	7	366	43%	1931	63	98%	7%
2014	21	0	21	2%	1977	37	99%	4%
2015	315	0	315	37%	2014	21	100%	2%
Average	420	20	440	52%		440		52%
Maximum	767	81	840	99%		840		99%
Minimum	21	0	21	2%		21		2%

Table B-17. Kern County WA-MI: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	97	0	97	72%	2011	135	0%	100%
1923	74	0	74	55%	2006	135	0%	100%
1924	22	0	22	16%	1998	135	0%	100%
1925	34	0	34	25%	1995	135	0%	100%
1926	46	0	46	34%	1983	135	0%	100%
1927	90	0	90	67%	1982	135	0%	100%
1928	72	0	72	54%	1969	135	0%	100%
1929	29	0	29	21%	1938	135	0%	100%
1930	46	0	46	34%	1978	124	9%	92%
1931	10	0	10	7%	2005	121	10%	90%
1932	38	0	38	28%	1996	120	11%	89%
1933	22	0	22	17%	1958	118	12%	88%
1934	25	0	25	19%	1941	118	13%	87%
1935	78	0	78	58%	1951	113	14%	84%
1936	86	0	86	64%	1952	110	15%	82%
1937	82	0	82	61%	1967	107	16%	79%
1938	135	0	135	100%	1980	104	17%	77%
1939	22	0	22	17%	1984	101	18%	75%
1940	85	0	85	63%	1942	101	19%	75%
1941	118	0	118	87%	1999	100	20%	74%
1942	101	0	101	75%	1970	99	22%	74%
1943	90	0	90	67%	1922	97	23%	72%
1944	37	0	37	27%	1966	94	24%	69%
1945	88	0	88	65%	1993	93	25%	69%
1946	69	0	69	51%	1973	92	26%	69%
1947	69	0	69	51%	1927	90	27%	67%
1948	64	0	64	48%	1943	90	28%	67%
1949	13	0	13	10%	1945	88	29%	65%
1950	81	0	81	60%	2000	87	30%	65%
1951	113	0	113	84%	1974	86	31%	64%
1952	110	0	110	82%	1936	86	32%	64%
1953	68	0	68	51%	1975	86	33%	64%
1954	76	0	76	56%	1940	85	35%	63%
1955	13	0	13	9%	1997	83	36%	61%
1956	81	0	81	60%	1937	82	37%	61%
1957	72	0	72	53%	1989	81	38%	61%
1958	118	0	118	88%	1956	81	39%	60%
1959	60	0	60	44%	1950	81	40%	60%
1960	54	0	54	40%	1963	80	41%	60%
1961	45	0	45	33%	1935	78	42%	58%
1962	67	0	67	50%	1954	76	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	80	0	80	60%
1964	63	0	63	47%
1965	54	0	54	40%
1966	94	0	94	69%
1967	107	0	107	79%
1968	61	0	61	46%
1969	135	0	135	100%
1970	99	0	99	74%
1971	54	0	54	40%
1972	58	0	58	43%
1973	92	0	92	69%
1974	86	0	86	64%
1975	86	0	86	64%
1976	42	0	42	31%
1977	6	0	6	4%
1978	124	0	124	92%
1979	56	0	56	42%
1980	104	0	104	77%
1981	39	0	39	29%
1982	135	0	135	100%
1983	135	0	135	100%
1984	101	0	101	75%
1985	71	0	71	53%
1986	71	0	71	53%
1987	35	0	35	26%
1988	23	0	23	17%
1989	81	0	81	61%
1990	10	0	10	7%
1991	32	0	32	23%
1992	26	0	26	19%
1993	93	0	93	69%
1994	22	0	22	17%
1995	135	0	135	100%
1996	120	0	120	89%
1997	83	0	83	61%
1998	135	0	135	100%
1999	100	0	100	74%
2000	87	0	87	65%
2001	19	0	19	14%
2002	75	0	75	56%
2003	50	0	50	37%
2004	73	0	73	54%
2005	121	0	121	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2002	75	44%	56%
1923	74	45%	55%
2004	73	46%	54%
1928	72	47%	54%
1957	72	49%	53%
1986	71	50%	53%
1985	71	51%	53%
1946	69	52%	51%
1947	69	53%	51%
1953	68	54%	51%
2012	68	55%	50%
1962	67	56%	50%
2010	65	57%	48%
1948	64	58%	48%
1964	63	59%	47%
1968	61	60%	46%
1959	60	61%	44%
1972	58	63%	43%
2013	58	64%	43%
1979	56	65%	42%
2009	54	66%	40%
1965	54	67%	40%
1960	54	68%	40%
1971	54	69%	40%
2003	50	70%	37%
1926	46	71%	34%
1930	46	72%	34%
2015	45	73%	34%
1961	45	74%	33%
1976	42	76%	31%
2007	42	77%	31%
1981	39	78%	29%
1932	38	79%	28%
1944	37	80%	27%
1987	35	81%	26%
1925	34	82%	25%
1991	32	83%	23%
1929	29	84%	21%
1992	26	85%	19%
1934	25	86%	19%
1988	23	87%	17%
1994	22	88%	17%
1939	22	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	135	0	135	100%	1933	22	91%	17%
2007	42	0	42	31%	1924	22	92%	16%
2008	16	0	16	12%	2001	19	93%	14%
2009	54	0	54	40%	2008	16	94%	12%
2010	65	0	65	48%	1949	13	95%	10%
2011	135	0	135	100%	1955	13	96%	9%
2012	68	0	68	50%	1990	10	97%	7%
2013	58	0	58	43%	1931	10	98%	7%
2014	3	0	3	2%	1977	6	99%	4%
2015	45	0	45	34%	2014	3	100%	2%
Average	70	0	70	52%		70		52%
Maximum	135	0	135	100%		135		100%
Minimum	3	0	3	2%		3		2%

Table B-18. Littlerock Creek ID: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	2	0	2	72%	2011	2	0%	100%
1923	1	0	1	55%	2006	2	0%	100%
1924	0	0	0	16%	1998	2	0%	100%
1925	1	0	1	25%	1995	2	0%	100%
1926	1	0	1	34%	1983	2	0%	100%
1927	2	0	2	67%	1982	2	0%	100%
1928	1	0	1	54%	1969	2	0%	100%
1929	0	0	0	21%	1938	2	0%	100%
1930	1	0	1	34%	1978	2	9%	92%
1931	0	0	0	7%	2005	2	10%	90%
1932	1	0	1	28%	1996	2	11%	89%
1933	0	0	0	17%	1958	2	12%	88%
1934	0	0	0	19%	1941	2	13%	87%
1935	2	0	2	75%	1951	2	14%	84%
1936	1	0	1	64%	1952	2	15%	82%
1937	1	0	1	61%	1967	2	16%	79%
1938	2	0	2	100%	1980	2	17%	77%
1939	0	0	0	17%	1984	2	18%	75%
1940	1	0	1	63%	1942	2	19%	75%
1941	2	0	2	87%	1935	2	20%	75%
1942	2	0	2	75%	1999	2	22%	74%
1943	2	0	2	67%	1970	2	23%	74%
1944	1	0	1	27%	1922	2	24%	72%
1945	1	0	1	65%	1966	2	25%	69%
1946	1	0	1	51%	1993	2	26%	69%
1947	1	0	1	51%	1973	2	27%	69%
1948	1	0	1	48%	1927	2	28%	67%
1949	0	0	0	10%	1943	2	29%	67%
1950	1	0	1	60%	1945	1	30%	65%
1951	2	0	2	84%	2000	1	31%	65%
1952	2	0	2	82%	1974	1	32%	64%
1953	1	0	1	51%	1936	1	33%	64%
1954	1	0	1	56%	1975	1	33%	64%
1955	0	0	0	9%	1940	1	36%	63%
1956	1	0	1	60%	1997	1	37%	61%
1957	1	0	1	53%	1937	1	38%	61%
1958	2	0	2	88%	1989	1	39%	61%
1959	1	0	1	44%	1956	1	40%	60%
1960	1	0	1	40%	1950	1	41%	60%
1961	1	0	1	33%	1963	1	42%	60%
1962	1	0	1	50%	1954	1	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	1	0	1	60%
1964	1	0	1	47%
1965	1	0	1	40%
1966	2	0	2	69%
1967	2	0	2	79%
1968	1	0	1	46%
1969	2	0	2	100%
1970	2	0	2	74%
1971	1	0	1	40%
1972	1	0	1	43%
1973	2	0	2	69%
1974	1	0	1	64%
1975	1	0	1	64%
1976	1	0	1	31%
1977	0	0	0	4%
1978	2	0	2	92%
1979	1	0	1	42%
1980	2	0	2	77%
1981	1	0	1	29%
1982	2	0	2	100%
1983	2	0	2	100%
1984	2	0	2	75%
1985	1	0	1	53%
1986	1	0	1	53%
1987	1	0	1	26%
1988	0	0	0	17%
1989	1	0	1	61%
1990	0	0	0	7%
1991	1	0	1	23%
1992	0	0	0	19%
1993	2	0	2	69%
1994	0	0	0	17%
1995	2	0	2	100%
1996	2	0	2	89%
1997	1	0	1	61%
1998	2	0	2	100%
1999	2	0	2	74%
2000	1	0	1	65%
2001	0	0	0	14%
2002	1	0	1	56%
2003	1	0	1	37%
2004	1	0	1	54%
2005	2	0	2	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2002	1	44%	56%
1923	1	45%	55%
2004	1	46%	54%
1928	1	47%	54%
1957	1	49%	53%
1986	1	50%	53%
1985	1	51%	53%
1946	1	52%	51%
1947	1	52%	51%
1953	1	54%	51%
2012	1	55%	50%
1962	1	56%	50%
2010	1	57%	48%
1948	1	58%	48%
1964	1	59%	47%
1968	1	60%	46%
1959	1	61%	44%
1972	1	63%	43%
2013	1	64%	43%
1979	1	65%	42%
2009	1	66%	40%
1965	1	67%	40%
1960	1	67%	40%
1971	1	69%	40%
2003	1	70%	37%
2015	1	71%	35%
1926	1	72%	34%
1930	1	73%	34%
1961	1	74%	33%
1976	1	76%	31%
2007	1	77%	31%
1981	1	78%	29%
1932	1	79%	28%
1944	1	80%	27%
1987	1	81%	26%
1925	1	82%	25%
1991	1	83%	23%
1929	0	84%	21%
1992	0	85%	19%
1934	0	86%	19%
1988	0	87%	17%
1994	0	88%	17%
1939	0	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	2	0	2	100%	1933	0	91%	17%
2007	1	0	1	31%	1924	0	92%	16%
2008	0	0	0	12%	2001	0	93%	14%
2009	1	0	1	40%	2008	0	94%	12%
2010	1	0	1	48%	1949	0	95%	10%
2011	2	0	2	100%	1955	0	96%	9%
2012	1	0	1	50%	1990	0	97%	7%
2013	1	0	1	43%	1931	0	98%	7%
2014	0	0	0	2%	1977	0	99%	4%
2015	1	0	1	35%	2014	0	100%	2%
Average	1	0	1	52%		1		52%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	2%		0		2%

Table B-19. Metropolitan WDSC: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	1257	0	1257	66%	2006	1891	0%	99%
1923	990	114	1105	58%	1983	1882	1%	98%
1924	299	63	362	19%	1998	1772	2%	93%
1925	454	16	470	25%	1938	1771	3%	93%
1926	621	25	646	34%	1969	1750	4%	92%
1927	1188	34	1222	64%	1982	1736	5%	91%
1928	967	89	1055	55%	2011	1733	6%	91%
1929	387	62	449	24%	1995	1728	8%	90%
1930	618	21	640	33%	1996	1726	9%	90%
1931	130	34	164	9%	2005	1599	10%	84%
1932	512	7	519	27%	1978	1579	11%	83%
1933	300	28	328	17%	1958	1562	12%	82%
1934	337	17	354	19%	1941	1497	13%	78%
1935	953	19	972	51%	1952	1488	14%	78%
1936	1087	0	1087	57%	1970	1486	15%	78%
1937	1096	0	1096	57%	1999	1482	16%	78%
1938	1712	60	1771	93%	1951	1476	17%	77%
1939	301	200	501	26%	1942	1473	18%	77%
1940	1073	17	1089	57%	1967	1459	19%	76%
1941	1496	1	1497	78%	1984	1455	20%	76%
1942	1299	175	1473	77%	1980	1361	22%	71%
1943	1185	132	1317	69%	1943	1317	23%	69%
1944	493	88	581	30%	2000	1288	24%	67%
1945	1165	27	1192	62%	1966	1266	25%	66%
1946	926	80	1005	53%	1922	1257	26%	66%
1947	852	50	902	47%	1997	1255	27%	66%
1948	865	0	865	45%	1973	1251	28%	65%
1949	175	2	177	9%	1974	1248	29%	65%
1950	1082	10	1091	57%	1993	1240	30%	65%
1951	1435	42	1476	77%	1927	1222	31%	64%
1952	1395	92	1488	78%	1975	1221	32%	64%
1953	917	163	1080	56%	1945	1192	33%	62%
1954	1010	51	1061	55%	1963	1120	35%	59%
1955	169	65	234	12%	2012	1111	36%	58%
1956	1086	4	1090	57%	1923	1105	37%	58%
1957	961	69	1030	54%	1989	1105	38%	58%
1958	1501	61	1562	82%	1937	1096	39%	57%
1959	781	175	956	50%	1950	1091	40%	57%
1960	725	0	725	38%	1956	1090	41%	57%
1961	599	40	639	33%	1940	1089	42%	57%
1962	905	0	905	47%	1936	1087	43%	57%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	1070	50	1120	59%
1964	843	68	912	48%
1965	725	47	772	40%
1966	1226	40	1266	66%
1967	1357	102	1459	76%
1968	827	159	985	52%
1969	1712	39	1750	92%
1970	1286	200	1486	78%
1971	724	127	851	45%
1972	785	40	825	43%
1973	1214	37	1251	65%
1974	1150	98	1248	65%
1975	1145	76	1221	64%
1976	570	74	644	34%
1977	79	0	79	4%
1978	1575	4	1579	83%
1979	751	144	896	47%
1980	1326	35	1361	71%
1981	529	144	674	35%
1982	1712	25	1736	91%
1983	1712	170	1882	98%
1984	1302	154	1455	76%
1985	889	134	1023	54%
1986	961	0	961	50%
1987	475	53	528	28%
1988	305	26	331	17%
1989	1088	17	1105	58%
1990	135	0	135	7%
1991	424	7	432	23%
1992	345	23	369	19%
1993	1221	19	1240	65%
1994	302	101	402	21%
1995	1712	17	1728	90%
1996	1526	200	1726	90%
1997	1103	152	1255	66%
1998	1712	60	1772	93%
1999	1288	194	1482	78%
2000	1160	128	1288	67%
2001	261	37	298	16%
2002	1003	14	1017	53%
2003	678	0	678	35%
2004	973	37	1010	53%
2005	1537	62	1599	84%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1953	1080	44%	56%
1954	1061	45%	55%
1928	1055	46%	55%
1957	1030	47%	54%
1985	1023	49%	54%
2002	1017	50%	53%
2004	1010	51%	53%
1946	1005	52%	53%
1968	985	53%	52%
1935	972	54%	51%
1986	961	55%	50%
1959	956	56%	50%
1964	912	57%	48%
1962	905	58%	47%
1947	902	59%	47%
1979	896	60%	47%
2010	890	61%	47%
1948	865	63%	45%
1971	851	64%	45%
1972	825	65%	43%
1965	772	66%	40%
2009	738	67%	39%
1960	725	68%	38%
2013	695	69%	36%
2007	686	70%	36%
2003	678	71%	35%
1981	674	72%	35%
1926	646	73%	34%
1976	644	74%	34%
1930	640	76%	33%
1961	639	77%	33%
1944	581	78%	30%
1987	528	79%	28%
2015	526	80%	28%
1932	519	81%	27%
1939	501	82%	26%
1925	470	83%	25%
1929	449	84%	24%
1991	432	85%	23%
1994	402	86%	21%
1992	369	87%	19%
1924	362	88%	19%
1934	354	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	1712	180	1891	99%	1988	331	91%	17%
2007	560	125	686	36%	1933	328	92%	17%
2008	209	0	209	11%	2001	298	93%	16%
2009	726	12	738	39%	1955	234	94%	12%
2010	870	20	890	47%	2008	209	95%	11%
2011	1712	22	1733	91%	1949	177	96%	9%
2012	911	200	1111	58%	1931	164	97%	9%
2013	645	50	695	36%	1990	135	98%	7%
2014	45	0	45	2%	1977	79	99%	4%
2015	523	3	526	28%	2014	45	100%	2%
Average	914	62	976	51%		976		51%
Maximum	1712	200	1891	99%		1891		99%
Minimum	45	0	45	2%		45		2%

Table B-20. Mojave WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	41	0	41	45%	2012	79	0%	88%
1923	35	24	59	66%	1999	75	1%	84%
1924	14	14	28	31%	1983	75	2%	83%
1925	21	1	22	24%	1953	72	3%	80%
1926	28	2	30	33%	1985	68	4%	76%
1927	41	3	43	48%	1968	67	5%	75%
1928	34	19	54	60%	2000	67	6%	74%
1929	18	14	32	35%	1997	66	8%	74%
1930	28	1	30	33%	2006	66	9%	73%
1931	6	2	8	9%	1998	64	10%	71%
1932	24	0	24	27%	1938	64	11%	71%
1933	14	2	16	17%	1974	61	12%	68%
1934	16	1	17	18%	1984	61	13%	68%
1935	41	1	42	47%	1943	61	14%	68%
1936	41	0	41	45%	2005	59	15%	66%
1937	39	0	39	44%	1923	59	16%	66%
1938	50	13	64	71%	1970	58	17%	65%
1939	14	14	28	31%	1958	58	18%	64%
1940	41	1	42	46%	1946	58	19%	64%
1941	44	0	44	49%	1975	58	20%	64%
1942	40	14	55	61%	1996	56	22%	63%
1943	41	20	61	68%	1967	56	22%	63%
1944	23	19	42	46%	1942	55	24%	61%
1945	41	2	43	48%	1969	55	25%	61%
1946	40	18	58	64%	1928	54	26%	60%
1947	40	5	46	51%	2011	53	27%	59%
1948	37	0	37	42%	1982	52	28%	58%
1949	8	0	8	9%	1964	52	29%	58%
1950	39	1	39	44%	1995	51	30%	57%
1951	42	7	50	55%	1957	50	31%	55%
1952	41	4	45	50%	1951	50	32%	55%
1953	40	32	72	80%	1978	47	33%	52%
1954	36	6	42	47%	1966	46	35%	51%
1955	8	14	22	25%	1959	46	36%	51%
1956	39	0	39	43%	1947	46	37%	51%
1957	34	16	50	55%	1952	45	38%	50%
1958	44	14	58	64%	1973	45	39%	50%
1959	35	11	46	51%	1980	44	40%	49%
1960	31	0	31	35%	1941	44	41%	49%
1961	28	5	32	36%	1963	44	42%	49%
1962	39	0	39	44%	1927	43	43%	48%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	38	6	44	49%
1964	36	15	52	58%
1965	31	5	37	41%
1966	41	5	46	51%
1967	40	17	56	63%
1968	36	31	67	75%
1969	50	4	55	61%
1970	41	18	58	65%
1971	31	7	38	43%
1972	34	5	39	43%
1973	41	4	45	50%
1974	41	21	61	68%
1975	41	17	58	64%
1976	26	17	43	48%
1977	4	0	4	4%
1978	46	0	47	52%
1979	32	7	39	44%
1980	40	4	44	49%
1981	24	14	39	43%
1982	50	2	52	58%
1983	50	24	75	83%
1984	40	21	61	68%
1985	41	27	68	76%
1986	42	0	42	46%
1987	22	6	28	31%
1988	14	2	16	18%
1989	39	1	40	44%
1990	6	0	6	7%
1991	20	0	20	22%
1992	16	2	17	19%
1993	41	1	42	47%
1994	14	21	35	39%
1995	50	1	51	57%
1996	45	12	56	63%
1997	39	27	66	74%
1998	50	13	64	71%
1999	41	35	75	84%
2000	41	26	67	74%
2001	12	2	14	15%
2002	36	1	37	41%
2003	29	0	29	33%
2004	35	4	39	43%
2005	45	14	59	66%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1976	43	44%	48%
1945	43	45%	48%
1993	42	46%	47%
1954	42	47%	47%
1935	42	49%	47%
1940	42	50%	46%
1944	42	51%	46%
1986	42	52%	46%
1936	41	53%	45%
1922	41	54%	45%
1989	40	55%	44%
2013	40	56%	44%
1979	39	57%	44%
1950	39	58%	44%
1962	39	59%	44%
1937	39	60%	44%
1956	39	61%	43%
2004	39	63%	43%
1981	39	64%	43%
2010	39	65%	43%
1972	39	66%	43%
1971	38	67%	43%
1948	37	68%	42%
1965	37	69%	41%
2002	37	70%	41%
1994	35	71%	39%
1961	32	72%	36%
2009	32	73%	36%
2007	32	74%	35%
1929	32	76%	35%
1960	31	77%	35%
1926	30	78%	33%
1930	30	79%	33%
2003	29	80%	33%
1987	28	81%	31%
1924	28	82%	31%
1939	28	83%	31%
1932	24	84%	27%
2015	24	85%	26%
1955	22	86%	25%
1925	22	87%	24%
1991	20	88%	22%
1992	17	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	50	16	66	73%	1934	17	91%	18%
2007	26	6	32	35%	1988	16	92%	18%
2008	10	0	10	11%	1933	16	93%	17%
2009	31	1	32	36%	2001	14	94%	15%
2010	38	1	39	43%	2008	10	95%	11%
2011	50	2	53	59%	1931	8	96%	9%
2012	39	40	79	88%	1949	8	97%	9%
2013	34	6	40	44%	1990	6	98%	7%
2014	2	0	2	2%	1977	4	99%	4%
2015	23	0	24	26%	2014	2	100%	2%
Average	33	9	42	46%		42		46%
Maximum	50	40	79	88%		79		88%
Minimum	2	0	2	2%		2		2%

Table B-21. Napa County FC&WCD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	18	0	18	60%	1999	29	0%	100%
1923	17	11	28	96%	1998	29	0%	100%
1924	8	11	19	64%	1997	29	0%	100%
1925	17	2	18	63%	1996	29	0%	100%
1926	14	11	25	84%	1984	29	0%	100%
1927	18	6	24	81%	1983	29	0%	100%
1928	18	11	29	99%	1975	29	0%	100%
1929	8	11	19	66%	1971	29	0%	100%
1930	14	2	15	53%	1970	29	0%	100%
1931	8	6	14	48%	1953	29	0%	100%
1932	14	2	15	53%	1952	29	0%	100%
1933	8	6	14	48%	1943	29	0%	100%
1934	8	2	10	33%	1942	29	0%	100%
1935	17	2	18	63%	1941	29	0%	100%
1936	17	11	27	94%	2006	29	15%	100%
1937	17	11	27	94%	1974	29	15%	100%
1938	18	11	28	98%	2004	29	17%	99%
1939	14	11	25	87%	2000	29	17%	99%
1940	18	6	24	81%	1954	29	17%	99%
1941	18	11	29	100%	1928	29	17%	99%
1942	18	11	29	100%	2005	29	22%	99%
1943	18	11	29	100%	2011	28	23%	98%
1944	14	11	25	87%	2003	28	23%	98%
1945	17	6	23	78%	1986	28	23%	98%
1946	18	11	28	97%	1982	28	23%	98%
1947	14	11	25	86%	1969	28	23%	98%
1948	17	6	23	78%	1967	28	23%	98%
1949	14	11	25	84%	1965	28	23%	98%
1950	17	6	23	78%	1963	28	23%	98%
1951	18	11	28	98%	1958	28	23%	98%
1952	18	11	29	100%	1956	28	23%	98%
1953	18	11	29	100%	1951	28	23%	98%
1954	18	11	29	99%	1938	28	23%	98%
1955	17	11	28	96%	1980	28	36%	97%
1956	18	11	28	98%	1973	28	36%	97%
1957	17	11	28	96%	1946	28	36%	97%
1958	18	11	28	98%	2012	28	39%	96%
1959	17	11	28	96%	2007	28	39%	96%
1960	17	11	27	94%	1985	28	39%	96%
1961	14	11	25	84%	1979	28	39%	96%
1962	17	6	23	78%	1972	28	39%	96%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	18	11	28	98%
1964	17	11	28	96%
1965	18	11	28	98%
1966	17	11	28	96%
1967	18	11	28	98%
1968	17	11	28	96%
1969	18	11	28	98%
1970	18	11	29	100%
1971	18	11	29	100%
1972	17	11	28	96%
1973	18	11	28	97%
1974	18	11	29	100%
1975	18	11	29	100%
1976	8	11	19	67%
1977	8	2	10	33%
1978	18	2	19	66%
1979	17	11	28	96%
1980	18	11	28	97%
1981	17	11	28	96%
1982	18	11	28	98%
1983	18	11	29	100%
1984	18	11	29	100%
1985	17	11	28	96%
1986	18	11	28	98%
1987	14	11	25	87%
1988	14	6	20	68%
1989	17	6	23	78%
1990	8	11	19	64%
1991	8	2	10	33%
1992	8	2	10	33%
1993	18	2	19	66%
1994	14	11	25	87%
1995	18	6	24	81%
1996	18	11	29	100%
1997	18	11	29	100%
1998	18	11	29	100%
1999	18	11	29	100%
2000	18	11	29	99%
2001	14	11	25	86%
2002	17	6	23	78%
2003	18	11	28	98%
2004	18	11	29	99%
2005	18	11	29	99%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1968	28	39%	96%
1966	28	39%	96%
1964	28	39%	96%
1959	28	39%	96%
1957	28	39%	96%
1981	28	50%	96%
1955	28	50%	96%
1923	28	50%	96%
2013	27	53%	94%
1960	27	53%	94%
1937	27	53%	94%
1936	27	53%	94%
1994	25	57%	87%
1987	25	57%	87%
1944	25	57%	87%
1939	25	57%	87%
2001	25	61%	86%
1947	25	61%	86%
2008	25	64%	84%
1961	25	64%	84%
1949	25	64%	84%
1926	25	64%	84%
1995	24	68%	81%
1940	24	68%	81%
1927	24	68%	81%
2010	23	71%	78%
2002	23	71%	78%
1989	23	71%	78%
1962	23	71%	78%
1950	23	71%	78%
1948	23	71%	78%
1945	23	71%	78%
2009	20	79%	68%
1988	20	79%	68%
1976	19	81%	67%
1929	19	82%	66%
1993	19	83%	66%
1978	19	83%	66%
2014	19	85%	64%
1990	19	85%	64%
1924	19	85%	64%
1935	18	88%	63%
1925	18	88%	63%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	18	11	29	100%	1922	18	91%	60%
2007	17	11	28	96%	1932	15	92%	53%
2008	14	11	25	84%	1930	15	92%	53%
2009	14	6	20	68%	1933	14	94%	48%
2010	17	6	23	78%	1931	14	94%	48%
2011	18	11	28	98%	2015	10	96%	36%
2012	17	11	28	96%	1992	10	97%	33%
2013	17	11	27	94%	1991	10	97%	33%
2014	8	11	19	64%	1977	10	97%	33%
2015	8	2	10	36%	1934	10	97%	33%
Average	16	9	25	85%		25		85%
Maximum	18	11	29	100%		29		100%
Minimum	8	0	10	33%		10		33%

Table B-22. Oak Flat WD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	3	0	3	45%	2012	5	0%	89%
1923	2	2	4	67%	1999	5	1%	86%
1924	1	1	2	30%	1983	5	2%	81%
1925	1	0	1	24%	1953	5	3%	80%
1926	2	0	2	33%	1997	4	4%	77%
1927	3	0	3	50%	2000	4	5%	75%
1928	2	1	3	60%	1968	4	6%	75%
1929	1	1	2	34%	1985	4	8%	75%
1930	2	0	2	33%	2006	4	9%	70%
1931	0	0	1	10%	1974	4	10%	69%
1932	1	0	2	27%	1943	4	11%	68%
1933	1	0	1	17%	1984	4	12%	68%
1934	1	0	1	18%	1923	4	13%	67%
1935	2	0	3	45%	1998	4	14%	66%
1936	3	0	3	47%	1938	4	15%	66%
1937	3	0	3	45%	1975	4	16%	64%
1938	3	1	4	66%	1970	4	17%	64%
1939	1	1	2	31%	2005	3	18%	61%
1940	3	0	3	48%	1946	3	19%	60%
1941	3	0	3	46%	1928	3	20%	60%
1942	2	1	3	60%	1958	3	22%	60%
1943	3	1	4	68%	1967	3	23%	60%
1944	1	1	3	45%	1942	3	24%	60%
1945	3	0	3	49%	1996	3	25%	60%
1946	2	1	3	60%	1969	3	26%	59%
1947	2	0	3	50%	2011	3	27%	56%
1948	2	0	2	39%	1957	3	28%	55%
1949	1	0	1	9%	1982	3	29%	54%
1950	3	0	3	45%	1964	3	30%	54%
1951	2	0	3	52%	1995	3	31%	54%
1952	2	0	3	47%	1966	3	32%	53%
1953	2	2	5	80%	1963	3	33%	53%
1954	2	1	3	50%	1973	3	35%	52%
1955	0	1	1	23%	1951	3	36%	52%
1956	3	0	3	45%	1947	3	37%	50%
1957	2	1	3	55%	1954	3	37%	50%
1958	3	1	3	60%	1927	3	39%	50%
1959	2	1	3	48%	1980	3	40%	49%
1960	2	0	2	33%	1945	3	41%	49%
1961	2	0	2	38%	1978	3	42%	48%
1962	2	0	2	41%	1959	3	42%	48%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	2	1	3	53%
1964	2	1	3	54%
1965	2	0	2	41%
1966	3	0	3	53%
1967	2	1	3	60%
1968	2	2	4	75%
1969	3	0	3	59%
1970	3	1	4	64%
1971	2	0	2	40%
1972	2	0	2	43%
1973	3	0	3	52%
1974	3	1	4	69%
1975	3	1	4	64%
1976	2	1	3	46%
1977	0	0	0	4%
1978	3	0	3	48%
1979	2	0	2	42%
1980	2	0	3	49%
1981	2	1	2	43%
1982	3	0	3	54%
1983	3	2	5	81%
1984	2	1	4	68%
1985	2	2	4	75%
1986	2	0	2	43%
1987	1	1	2	34%
1988	1	0	1	18%
1989	3	0	3	46%
1990	0	0	0	7%
1991	1	0	1	22%
1992	1	0	1	19%
1993	3	0	3	47%
1994	1	1	2	39%
1995	3	0	3	54%
1996	3	1	3	60%
1997	3	2	4	77%
1998	3	1	4	66%
1999	2	2	5	86%
2000	3	2	4	75%
2001	1	0	1	15%
2002	2	0	2	42%
2003	2	0	2	31%
2004	2	0	3	46%
2005	3	1	3	61%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1940	3	44%	48%
1952	3	45%	47%
1993	3	46%	47%
1936	3	47%	47%
2004	3	49%	46%
1976	3	50%	46%
1989	3	51%	46%
1941	3	52%	46%
1944	3	53%	45%
1950	3	54%	45%
1937	3	55%	45%
1956	3	56%	45%
1922	3	56%	45%
1935	3	58%	45%
2013	3	59%	44%
1986	2	60%	43%
1981	2	61%	43%
1972	2	63%	43%
2002	2	64%	42%
1979	2	65%	42%
1965	2	66%	41%
1962	2	67%	41%
2010	2	68%	40%
1971	2	68%	40%
1948	2	70%	39%
1994	2	71%	39%
1961	2	72%	38%
2015	2	73%	35%
2007	2	74%	35%
1929	2	76%	34%
2009	2	77%	34%
1987	2	78%	34%
1926	2	79%	33%
1960	2	80%	33%
1930	2	81%	33%
2003	2	82%	31%
1939	2	83%	31%
1924	2	84%	30%
1932	2	85%	27%
1925	1	86%	24%
1955	1	87%	23%
1991	1	88%	22%
1992	1	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	3	1	4	70%	1934	1	91%	18%
2007	2	0	2	35%	1988	1	92%	18%
2008	1	0	1	11%	1933	1	93%	17%
2009	2	0	2	34%	2001	1	94%	15%
2010	2	0	2	40%	2008	1	95%	11%
2011	3	0	3	56%	1931	1	96%	10%
2012	2	3	5	89%	1949	1	97%	9%
2013	2	1	3	44%	1990	0	98%	7%
2014	0	0	0	2%	1977	0	99%	4%
2015	2	0	2	35%	2014	0	100%	2%
Average	2	1	3	46%		3		46%
Maximum	3	3	5	89%		5		89%
Minimum	0	0	0	2%		0		2%

Table B-23. Palmdale WD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	14	0	14	65%	2011	21	0%	100%
1923	9	1	11	51%	2006	21	0%	100%
1924	3	2	6	26%	2005	21	0%	100%
1925	5	0	5	25%	1998	21	0%	100%
1926	7	0	7	34%	1995	21	0%	100%
1927	12	0	12	59%	1983	21	0%	100%
1928	9	2	11	54%	1982	21	0%	100%
1929	4	2	7	31%	1969	21	0%	100%
1930	7	0	7	33%	1938	21	0%	100%
1931	1	0	2	9%	1958	21	10%	98%
1932	6	0	6	27%	1978	20	11%	92%
1933	3	0	4	17%	1951	19	12%	90%
1934	4	0	4	18%	1996	19	13%	89%
1935	15	0	15	71%	1967	19	14%	88%
1936	11	0	11	51%	1941	19	15%	87%
1937	10	0	10	49%	1952	17	16%	82%
1938	19	2	21	100%	1980	17	17%	78%
1939	3	0	3	16%	1935	15	18%	71%
1940	11	0	11	52%	1984	15	19%	71%
1941	19	0	19	87%	1942	15	20%	71%
1942	15	0	15	71%	1999	15	22%	69%
1943	12	1	13	60%	1970	15	23%	69%
1944	5	2	8	36%	1922	14	24%	65%
1945	11	0	12	55%	1966	14	25%	64%
1946	10	3	12	58%	1975	14	26%	64%
1947	10	1	11	51%	1973	13	27%	63%
1948	9	0	9	44%	1993	13	28%	62%
1949	2	0	2	9%	1974	13	29%	61%
1950	10	0	10	49%	1943	13	30%	60%
1951	18	1	19	90%	1927	12	31%	59%
1952	17	0	17	82%	1946	12	32%	58%
1953	10	0	10	46%	2000	12	33%	58%
1954	10	1	11	50%	1945	12	35%	55%
1955	2	2	4	20%	1957	12	36%	55%
1956	10	0	10	49%	1964	12	37%	54%
1957	9	3	12	55%	1928	11	38%	54%
1958	19	2	21	98%	1963	11	39%	52%
1959	9	0	9	40%	1985	11	40%	52%
1960	8	0	8	36%	1940	11	41%	52%
1961	7	1	7	35%	1936	11	42%	51%
1962	10	0	10	46%	1923	11	43%	51%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	10	1	11	52%
1964	9	3	12	54%
1965	8	1	9	41%
1966	13	1	14	64%
1967	17	2	19	88%
1968	9	0	9	42%
1969	21	1	21	100%
1970	15	0	15	69%
1971	8	1	9	41%
1972	8	1	9	43%
1973	13	1	13	63%
1974	11	2	13	61%
1975	11	3	14	64%
1976	6	3	9	42%
1977	1	0	1	4%
1978	20	0	20	92%
1979	8	0	8	38%
1980	16	1	17	78%
1981	6	0	6	30%
1982	21	0	21	100%
1983	21	0	21	100%
1984	15	0	15	71%
1985	10	1	11	52%
1986	10	0	10	48%
1987	5	1	6	29%
1988	3	0	4	17%
1989	10	0	11	50%
1990	1	0	1	7%
1991	5	0	5	22%
1992	4	0	4	19%
1993	13	0	13	62%
1994	3	2	5	24%
1995	21	0	21	100%
1996	19	0	19	89%
1997	10	0	10	49%
1998	19	2	21	100%
1999	15	0	15	69%
2000	11	1	12	58%
2001	3	0	3	15%
2002	10	0	10	46%
2003	7	0	7	34%
2004	9	1	10	47%
2005	19	2	21	100%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1947	11	44%	51%
1954	11	45%	50%
1989	11	46%	50%
1997	10	47%	49%
1937	10	49%	49%
1950	10	50%	49%
1956	10	51%	49%
1986	10	52%	48%
2004	10	53%	47%
1953	10	54%	46%
2012	10	55%	46%
2002	10	56%	46%
1962	10	57%	46%
2010	10	58%	45%
2013	9	59%	44%
1948	9	60%	44%
1972	9	61%	43%
1976	9	63%	42%
1968	9	64%	42%
1971	9	65%	41%
1965	9	66%	41%
1959	9	67%	40%
1979	8	68%	38%
2009	8	69%	37%
1960	8	70%	36%
1944	8	71%	36%
1961	7	72%	35%
2003	7	73%	34%
1926	7	74%	34%
1930	7	76%	33%
1929	7	77%	31%
1981	6	78%	30%
1987	6	79%	29%
2007	6	80%	29%
2015	6	81%	29%
1932	6	82%	27%
1924	6	83%	26%
1925	5	84%	25%
1994	5	85%	24%
1991	5	86%	22%
1955	4	87%	20%
1992	4	88%	19%
1934	4	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	21	0	21	100%	1988	4	91%	17%
2007	6	0	6	29%	1933	4	92%	17%
2008	2	0	2	11%	1939	3	93%	16%
2009	8	0	8	37%	2001	3	94%	15%
2010	9	0	10	45%	2008	2	95%	11%
2011	21	0	21	100%	1949	2	96%	9%
2012	10	0	10	46%	1931	2	97%	9%
2013	8	1	9	44%	1990	1	98%	7%
2014	0	0	0	2%	1977	1	99%	4%
2015	6	0	6	29%	2014	0	100%	2%
Average	10	1	11	51%		11		51%
Maximum	21	3	21	100%		21		100%
Minimum	0	0	0	2%		0		2%

Table B-24. San Bernardino Valley MWD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	68	0	68	66%	2006	102	0%	99%
1923	53	6	59	58%	1983	101	1%	99%
1924	16	3	20	19%	1998	96	2%	93%
1925	25	0	25	25%	1938	96	3%	93%
1926	34	1	35	34%	1969	95	4%	92%
1927	64	1	65	63%	2011	94	5%	91%
1928	52	5	57	55%	1982	93	6%	91%
1929	21	3	25	24%	1995	93	8%	91%
1930	34	1	35	34%	1996	93	9%	90%
1931	7	1	8	8%	2005	86	10%	84%
1932	28	0	28	28%	1978	85	11%	83%
1933	16	1	17	17%	1958	84	12%	82%
1934	19	0	19	19%	1941	81	13%	79%
1935	70	1	71	69%	1952	80	14%	78%
1936	62	0	62	60%	1951	80	15%	78%
1937	59	0	59	57%	1970	79	16%	77%
1938	93	3	96	93%	1999	79	17%	77%
1939	17	10	27	26%	1942	79	18%	77%
1940	61	0	62	60%	1967	79	19%	77%
1941	81	0	81	79%	1984	78	20%	76%
1942	70	9	79	77%	1980	73	22%	72%
1943	64	7	70	69%	1935	71	23%	69%
1944	27	4	32	31%	1943	70	24%	69%
1945	63	1	64	62%	2000	69	25%	67%
1946	50	4	54	53%	1966	68	26%	66%
1947	50	2	52	51%	1922	68	27%	66%
1948	47	0	47	45%	1973	67	28%	66%
1949	10	0	10	10%	1997	67	29%	65%
1950	58	0	58	57%	1974	67	30%	65%
1951	78	2	80	78%	1993	66	31%	65%
1952	76	5	80	78%	1975	66	32%	64%
1953	49	8	58	56%	1927	65	33%	63%
1954	54	2	57	55%	1945	64	35%	62%
1955	9	3	13	12%	1940	62	36%	60%
1956	58	0	59	57%	1936	62	37%	60%
1957	52	4	55	54%	1963	60	38%	59%
1958	81	3	84	82%	2012	59	39%	58%
1959	39	9	48	46%	1923	59	40%	58%
1960	39	0	39	38%	1989	59	41%	58%
1961	33	2	35	34%	1937	59	42%	57%
1962	49	0	49	48%	1956	59	43%	57%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	58	2	60	59%
1964	46	4	49	48%
1965	39	2	41	40%
1966	66	2	68	66%
1967	73	5	79	77%
1968	45	8	53	51%
1969	93	2	95	92%
1970	69	10	79	77%
1971	39	6	45	44%
1972	42	2	44	43%
1973	65	2	67	66%
1974	62	5	67	65%
1975	62	4	66	64%
1976	31	4	35	34%
1977	4	0	4	4%
1978	85	0	85	83%
1979	41	8	48	47%
1980	72	2	73	72%
1981	29	7	36	35%
1982	93	1	93	91%
1983	93	9	101	99%
1984	70	8	78	76%
1985	52	7	58	57%
1986	52	0	52	51%
1987	26	3	29	28%
1988	17	1	18	17%
1989	59	0	59	58%
1990	7	0	7	7%
1991	23	0	24	23%
1992	19	1	20	19%
1993	66	1	66	65%
1994	17	5	22	21%
1995	93	0	93	91%
1996	83	10	93	90%
1997	59	8	67	65%
1998	93	3	96	93%
1999	70	10	79	77%
2000	62	6	69	67%
2001	14	2	16	16%
2002	54	0	54	53%
2003	37	0	37	36%
2004	52	2	54	53%
2005	83	3	86	84%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1950	58	44%	57%
1985	58	45%	57%
1953	58	46%	56%
1954	57	47%	55%
1928	57	49%	55%
1957	55	50%	54%
2002	54	51%	53%
2004	54	52%	53%
1946	54	53%	53%
1968	53	54%	51%
1947	52	55%	51%
1986	52	56%	51%
1964	49	57%	48%
1962	49	58%	48%
1979	48	59%	47%
2010	48	60%	47%
1959	48	61%	46%
1948	47	63%	45%
1971	45	64%	44%
1972	44	65%	43%
1965	41	66%	40%
2009	40	67%	39%
1960	39	68%	38%
2007	38	69%	37%
2003	37	70%	36%
1981	36	71%	35%
1976	35	72%	34%
1961	35	73%	34%
1926	35	74%	34%
1930	35	76%	34%
1944	32	77%	31%
1987	29	78%	28%
1932	28	79%	28%
2015	28	80%	28%
1939	27	81%	26%
2013	26	82%	25%
1925	25	83%	25%
1929	25	84%	24%
1991	24	85%	23%
1994	22	86%	21%
1924	20	87%	19%
1992	20	88%	19%
1934	19	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	93	9	102	99%	1988	18	91%	17%
2007	31	7	38	37%	1933	17	92%	17%
2008	12	0	12	11%	2001	16	93%	16%
2009	39	0	40	39%	1955	13	94%	12%
2010	47	1	48	47%	2008	12	95%	11%
2011	93	1	94	91%	1949	10	96%	10%
2012	49	10	59	58%	1931	8	97%	8%
2013	23	2	26	25%	1990	7	98%	7%
2014	2	0	2	2%	1977	4	99%	4%
2015	28	0	28	28%	2014	2	100%	2%
Average	50	3	53	51%		53		51%
Maximum	93	10	102	99%		102		99%
Minimum	2	0	2	2%		2		2%

Table B-25. San Gabriel Valley MWD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	21	0	21	72%	2011	29	0%	100%
1923	16	0	16	55%	2006	29	0%	100%
1924	5	0	5	16%	1998	29	0%	100%
1925	7	0	7	25%	1995	29	0%	100%
1926	10	0	10	34%	1983	29	0%	100%
1927	19	0	19	67%	1982	29	0%	100%
1928	15	0	15	54%	1969	29	0%	100%
1929	6	0	6	21%	1938	29	0%	100%
1930	10	0	10	34%	1978	27	9%	92%
1931	2	0	2	7%	2005	26	10%	90%
1932	8	0	8	28%	1996	26	11%	89%
1933	5	0	5	17%	1958	25	12%	88%
1934	5	0	5	19%	1941	25	13%	87%
1935	13	0	13	47%	1951	24	14%	84%
1936	18	0	18	64%	1952	23	15%	82%
1937	18	0	18	61%	1967	23	16%	79%
1938	29	0	29	100%	1980	22	17%	77%
1939	5	0	5	17%	1984	22	18%	75%
1940	18	0	18	63%	1942	22	19%	75%
1941	25	0	25	87%	1999	21	20%	74%
1942	22	0	22	75%	1970	21	22%	74%
1943	19	0	19	67%	1922	21	23%	72%
1944	8	0	8	27%	1966	20	24%	69%
1945	19	0	19	65%	1993	20	25%	69%
1946	15	0	15	51%	1973	20	26%	69%
1947	15	0	15	51%	1927	19	27%	67%
1948	14	0	14	48%	1943	19	28%	67%
1949	3	0	3	10%	1945	19	29%	65%
1950	17	0	17	60%	2000	19	30%	65%
1951	24	0	24	84%	1974	18	31%	64%
1952	23	0	23	82%	1936	18	32%	64%
1953	15	0	15	51%	1975	18	33%	64%
1954	16	0	16	56%	1940	18	35%	63%
1955	3	0	3	9%	1997	18	36%	61%
1956	17	0	17	60%	1937	18	37%	61%
1957	15	0	15	53%	1989	17	38%	61%
1958	25	0	25	88%	1956	17	39%	60%
1959	13	0	13	44%	1950	17	40%	60%
1960	12	0	12	40%	1963	17	41%	60%
1961	7	0	7	25%	1954	16	42%	56%
1962	14	0	14	50%	2002	16	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	17	0	17	60%
1964	12	0	12	43%
1965	12	0	12	40%
1966	20	0	20	69%
1967	23	0	23	79%
1968	13	0	13	46%
1969	29	0	29	100%
1970	21	0	21	74%
1971	12	0	12	40%
1972	12	0	12	43%
1973	20	0	20	69%
1974	18	0	18	64%
1975	18	0	18	64%
1976	9	0	9	31%
1977	1	0	1	4%
1978	27	0	27	92%
1979	12	0	12	42%
1980	22	0	22	77%
1981	8	0	8	29%
1982	29	0	29	100%
1983	29	0	29	100%
1984	22	0	22	75%
1985	12	0	12	43%
1986	15	0	15	53%
1987	8	0	8	26%
1988	5	0	5	17%
1989	17	0	17	61%
1990	2	0	2	7%
1991	7	0	7	23%
1992	5	0	5	19%
1993	20	0	20	69%
1994	5	0	5	17%
1995	29	0	29	100%
1996	26	0	26	89%
1997	18	0	18	61%
1998	29	0	29	100%
1999	21	0	21	74%
2000	19	0	19	65%
2001	4	0	4	14%
2002	16	0	16	56%
2003	11	0	11	37%
2004	16	0	16	54%
2005	26	0	26	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1923	16	44%	55%
2004	16	45%	54%
1928	15	46%	54%
1957	15	47%	53%
1986	15	49%	53%
1946	15	50%	51%
1947	15	51%	51%
1953	15	52%	51%
2012	14	53%	50%
1962	14	54%	50%
2010	14	55%	48%
1948	14	56%	48%
1935	13	57%	47%
1968	13	58%	46%
1959	13	59%	44%
1972	12	60%	43%
1964	12	61%	43%
1985	12	63%	43%
1979	12	64%	42%
2009	12	65%	40%
1965	12	66%	40%
1960	12	67%	40%
1971	12	68%	40%
2015	11	69%	39%
2003	11	70%	37%
1926	10	71%	34%
1930	10	72%	34%
1976	9	73%	31%
2007	9	74%	31%
2013	8	76%	29%
1981	8	77%	29%
1932	8	78%	28%
1944	8	79%	27%
1987	8	80%	26%
1961	7	81%	25%
1925	7	82%	25%
1991	7	83%	23%
1929	6	84%	21%
1992	5	85%	19%
1934	5	86%	19%
1988	5	87%	17%
1994	5	88%	17%
1939	5	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	29	0	29	100%	1933	5	91%	17%
2007	9	0	9	31%	1924	5	92%	16%
2008	3	0	3	12%	2001	4	93%	14%
2009	12	0	12	40%	2008	3	94%	12%
2010	14	0	14	48%	1949	3	95%	10%
2011	29	0	29	100%	1955	3	96%	9%
2012	14	0	14	50%	1990	2	97%	7%
2013	8	0	8	29%	1931	2	98%	7%
2014	1	0	1	2%	1977	1	99%	4%
2015	11	0	11	39%	2014	1	100%	2%
Average	15	0	15	52%		15		52%
Maximum	29	0	29	100%		29		100%
Minimum	1	0	1	2%		1		2%

Table B-26. San Geronio Pass WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	10	0	10	60%	1983	16	0%	94%
1923	9	2	11	62%	2006	16	1%	93%
1924	3	1	4	20%	1999	14	2%	82%
1925	4	0	4	25%	1996	14	3%	81%
1926	6	0	6	34%	1998	14	4%	80%
1927	10	0	10	60%	1938	14	5%	80%
1928	9	1	10	57%	1970	14	6%	80%
1929	4	1	4	25%	1969	14	8%	78%
1930	6	0	6	34%	2011	13	9%	77%
1931	1	0	1	8%	1982	13	10%	77%
1932	5	0	5	27%	1995	13	11%	77%
1933	3	0	3	17%	1942	13	12%	76%
1934	3	0	3	19%	1997	13	13%	75%
1935	4	0	4	24%	1984	13	14%	74%
1936	9	0	9	50%	1943	13	15%	74%
1937	10	0	10	56%	2005	13	16%	73%
1938	13	1	14	80%	2000	13	17%	73%
1939	3	3	5	31%	2012	12	18%	71%
1940	7	0	7	43%	1958	12	19%	71%
1941	11	0	11	66%	1978	12	20%	70%
1942	10	3	13	76%	1967	12	22%	70%
1943	10	3	13	74%	1974	12	23%	68%
1944	5	1	6	34%	1953	12	24%	67%
1945	10	0	10	60%	1952	12	25%	67%
1946	8	1	9	54%	1951	12	26%	66%
1947	8	1	9	51%	1941	11	27%	66%
1948	8	0	8	45%	1985	11	28%	65%
1949	2	0	2	9%	1975	11	29%	64%
1950	10	0	10	56%	1980	11	30%	62%
1951	11	0	12	66%	1923	11	31%	62%
1952	11	1	12	67%	1966	11	32%	62%
1953	8	3	12	67%	1968	11	33%	62%
1954	9	1	9	55%	1973	11	35%	62%
1955	2	1	2	14%	1927	10	36%	60%
1956	10	0	10	56%	1993	10	37%	60%
1957	8	1	9	54%	1922	10	38%	60%
1958	12	1	12	71%	1945	10	39%	60%
1959	6	2	8	49%	1963	10	40%	58%
1960	6	0	6	38%	1928	10	41%	57%
1961	6	0	6	34%	1989	10	42%	56%
1962	8	0	8	47%	1937	10	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	9	1	10	58%
1964	8	1	8	49%
1965	6	1	7	40%
1966	10	0	11	62%
1967	10	2	12	70%
1968	7	3	11	62%
1969	13	0	14	78%
1970	10	3	14	80%
1971	6	1	8	45%
1972	7	0	7	43%
1973	10	0	11	62%
1974	10	2	12	68%
1975	10	1	11	64%
1976	5	1	6	36%
1977	1	0	1	4%
1978	12	0	12	70%
1979	7	1	8	46%
1980	10	0	11	62%
1981	5	3	8	44%
1982	13	0	13	77%
1983	13	3	16	94%
1984	10	2	13	74%
1985	9	3	11	65%
1986	9	0	9	50%
1987	4	1	5	29%
1988	3	0	3	17%
1989	10	0	10	56%
1990	1	0	1	7%
1991	4	0	4	23%
1992	3	0	3	19%
1993	10	0	10	60%
1994	3	2	4	26%
1995	13	0	13	77%
1996	12	2	14	81%
1997	10	3	13	75%
1998	13	1	14	80%
1999	10	4	14	82%
2000	10	2	13	73%
2001	2	0	3	16%
2002	9	0	9	52%
2003	6	0	6	35%
2004	9	0	9	52%
2005	12	1	13	73%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1956	10	44%	56%
1950	10	45%	56%
1954	9	46%	55%
1946	9	47%	54%
1957	9	49%	54%
2004	9	50%	52%
2002	9	51%	52%
1947	9	52%	51%
1936	9	53%	50%
1986	9	54%	50%
1959	8	55%	49%
1964	8	56%	49%
1962	8	57%	47%
1979	8	58%	46%
2010	8	59%	46%
1971	8	60%	45%
1948	8	61%	45%
1981	8	63%	44%
1972	7	64%	43%
1940	7	65%	43%
1965	7	66%	40%
2009	7	67%	38%
1960	6	68%	38%
2007	6	69%	36%
1976	6	70%	36%
2003	6	71%	35%
1961	6	72%	34%
1944	6	73%	34%
1926	6	74%	34%
1930	6	76%	34%
1939	5	77%	31%
2015	5	78%	30%
1987	5	79%	29%
1932	5	80%	27%
1994	4	81%	26%
1929	4	82%	25%
1925	4	83%	25%
2013	4	84%	25%
1935	4	85%	24%
1991	4	86%	23%
1924	4	87%	20%
1992	3	88%	19%
1934	3	90%	19%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	13	3	16	93%	1988	3	91%	17%
2007	5	1	6	36%	1933	3	92%	17%
2008	2	0	2	11%	2001	3	93%	16%
2009	7	0	7	38%	1955	2	94%	14%
2010	8	0	8	46%	2008	2	95%	11%
2011	13	0	13	77%	1949	2	96%	9%
2012	8	4	12	71%	1931	1	97%	8%
2013	4	1	4	25%	1990	1	98%	7%
2014	0	0	0	2%	1977	1	99%	4%
2015	5	0	5	30%	2014	0	100%	2%
Average	8	1	9	49%		9		49%
Maximum	13	4	16	94%		16		94%
Minimum	0	0	0	2%		0		2%

Table B-27. San Luis Obispo County FC&WCD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	11	0	11	44%	2012	21	0%	85%
1923	10	7	16	66%	1999	21	1%	84%
1924	3	4	8	31%	1983	21	2%	82%
1925	5	1	6	24%	1953	19	3%	77%
1926	7	1	8	32%	1997	18	4%	73%
1927	11	1	12	50%	2000	18	5%	73%
1928	9	6	15	60%	1985	18	6%	73%
1929	5	4	9	35%	1968	18	8%	72%
1930	7	1	8	32%	2006	18	9%	72%
1931	2	1	3	12%	1998	18	10%	70%
1932	6	0	6	25%	1938	18	11%	70%
1933	3	1	5	18%	1974	17	12%	68%
1934	4	1	5	18%	1984	17	13%	68%
1935	11	1	12	47%	1943	17	14%	66%
1936	11	0	11	44%	1923	16	15%	66%
1937	11	0	11	42%	2005	16	16%	65%
1938	14	4	18	70%	1975	16	17%	64%
1939	4	4	7	29%	1958	16	18%	64%
1940	11	1	12	47%	1970	16	19%	64%
1941	12	0	12	48%	1969	16	20%	63%
1942	11	4	15	60%	1967	15	22%	62%
1943	11	6	17	66%	1996	15	23%	61%
1944	6	6	11	45%	1946	15	24%	61%
1945	11	1	12	48%	1928	15	25%	60%
1946	10	5	15	61%	1942	15	26%	60%
1947	10	3	13	50%	2011	15	27%	59%
1948	9	0	9	37%	1982	15	28%	58%
1949	2	0	2	8%	1995	14	29%	57%
1950	10	0	11	43%	1957	14	30%	56%
1951	11	2	14	54%	1964	14	31%	55%
1952	11	1	12	49%	1951	14	32%	54%
1953	10	9	19	77%	1966	13	33%	53%
1954	10	3	12	50%	1973	13	35%	52%
1955	2	4	6	25%	1963	13	36%	52%
1956	10	0	11	43%	1980	13	37%	51%
1957	9	5	14	56%	1978	13	38%	51%
1958	12	4	16	64%	1947	13	39%	50%
1959	9	3	12	47%	1954	12	40%	50%
1960	8	0	8	31%	1927	12	41%	50%
1961	7	2	9	37%	1952	12	42%	49%
1962	10	0	10	39%	1945	12	43%	48%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	10	3	13	52%
1964	9	5	14	55%
1965	8	3	10	41%
1966	11	2	13	53%
1967	11	5	15	62%
1968	9	9	18	72%
1969	14	2	16	63%
1970	11	5	16	64%
1971	8	2	10	39%
1972	8	2	11	43%
1973	11	2	13	52%
1974	11	6	17	68%
1975	11	5	16	64%
1976	7	5	12	46%
1977	1	0	1	4%
1978	13	0	13	51%
1979	8	2	10	40%
1980	11	2	13	51%
1981	6	4	10	41%
1982	14	1	15	58%
1983	14	7	21	82%
1984	11	6	17	68%
1985	10	8	18	73%
1986	10	0	10	42%
1987	6	3	8	34%
1988	4	1	5	18%
1989	10	1	11	45%
1990	2	0	2	6%
1991	5	0	5	21%
1992	4	1	5	20%
1993	11	1	12	47%
1994	4	6	10	39%
1995	14	1	14	57%
1996	12	3	15	61%
1997	11	8	18	73%
1998	14	4	18	70%
1999	11	10	21	84%
2000	11	7	18	73%
2001	3	0	4	14%
2002	10	1	10	41%
2003	7	0	7	29%
2004	9	2	11	46%
2005	12	4	16	65%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1941	12	44%	48%
1993	12	45%	47%
1959	12	46%	47%
1935	12	47%	47%
1940	12	49%	47%
1976	12	50%	46%
2004	11	51%	46%
1944	11	52%	45%
2013	11	53%	45%
1989	11	54%	45%
1936	11	55%	44%
1922	11	56%	44%
1950	11	57%	43%
1972	11	58%	43%
1956	11	59%	43%
1937	11	60%	42%
1986	10	61%	42%
1965	10	63%	41%
2002	10	64%	41%
1981	10	65%	41%
1979	10	66%	40%
1962	10	67%	39%
1994	10	68%	39%
1971	10	69%	39%
2010	10	70%	39%
1948	9	71%	37%
1961	9	72%	37%
1929	9	73%	35%
1987	8	74%	34%
2009	8	76%	33%
2007	8	77%	33%
1926	8	78%	32%
1930	8	79%	32%
1960	8	80%	31%
1924	8	81%	31%
2003	7	82%	29%
1939	7	83%	29%
2015	6	84%	26%
1955	6	85%	25%
1932	6	86%	25%
1925	6	87%	24%
1991	5	88%	21%
1992	5	90%	20%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	14	4	18	72%	1933	5	91%	18%
2007	7	2	8	33%	1934	5	92%	18%
2008	2	0	2	10%	1988	5	92%	18%
2009	8	0	8	33%	2001	4	94%	14%
2010	9	0	10	39%	1931	3	95%	12%
2011	14	1	15	59%	2008	2	96%	10%
2012	10	11	21	85%	1949	2	97%	8%
2013	8	3	11	45%	1990	2	98%	6%
2014	1	0	1	2%	1977	1	99%	4%
2015	6	0	6	26%	2014	1	100%	2%
Average	9	3	11	46%		11		46%
Maximum	14	11	21	85%		21		85%
Minimum	1	0	1	2%		1		2%

Table B-28. Santa Barbara County FC&WCD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	28	0	28	62%	2006	43	0%	94%
1923	24	4	29	63%	1983	39	1%	86%
1924	8	1	8	18%	1970	37	2%	82%
1925	11	0	11	25%	1996	37	3%	81%
1926	16	0	16	34%	1998	36	4%	78%
1927	28	0	28	62%	1938	36	5%	78%
1928	24	2	26	57%	1942	35	6%	78%
1929	10	1	10	23%	1969	35	8%	78%
1930	15	0	15	34%	2011	35	9%	77%
1931	3	0	3	7%	1995	35	10%	77%
1932	13	0	13	28%	1982	35	10%	77%
1933	8	0	8	17%	1943	34	12%	75%
1934	8	0	8	19%	2000	34	13%	74%
1935	18	0	18	40%	1999	34	14%	74%
1936	28	0	28	62%	2012	33	15%	73%
1937	27	0	27	59%	1978	32	16%	71%
1938	35	1	36	78%	2005	32	17%	71%
1939	8	7	15	32%	1984	32	18%	70%
1940	28	0	28	62%	1997	32	19%	70%
1941	31	0	31	67%	1958	31	20%	69%
1942	28	7	35	78%	1953	31	22%	69%
1943	28	6	34	75%	1974	31	23%	68%
1944	12	2	14	32%	1967	31	24%	68%
1945	28	0	28	62%	1952	31	25%	67%
1946	23	1	24	53%	1941	31	26%	67%
1947	23	0	23	51%	1951	30	27%	66%
1948	21	0	21	47%	1985	30	28%	66%
1949	4	0	4	10%	1975	29	29%	64%
1950	27	0	27	59%	1968	29	30%	63%
1951	29	1	30	66%	1923	29	31%	63%
1952	29	2	31	67%	1966	29	32%	63%
1953	23	9	31	69%	1973	29	33%	63%
1954	25	0	25	55%	1927	28	35%	62%
1955	4	1	5	11%	1993	28	36%	62%
1956	27	0	27	59%	1922	28	36%	62%
1957	24	1	24	54%	1945	28	38%	62%
1958	31	1	31	69%	1980	28	39%	62%
1959	20	6	25	56%	1936	28	40%	62%
1960	18	0	18	39%	1940	28	41%	62%
1961	15	0	15	34%	1937	27	42%	59%
1962	22	0	22	49%	1989	27	43%	59%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	26	0	27	59%
1964	21	1	22	47%
1965	18	0	18	40%
1966	28	0	29	63%
1967	28	3	31	68%
1968	20	8	29	63%
1969	35	0	35	78%
1970	28	9	37	82%
1971	18	3	21	47%
1972	19	0	20	43%
1973	28	0	29	63%
1974	28	3	31	68%
1975	28	1	29	64%
1976	14	1	15	34%
1977	2	0	2	4%
1978	32	0	32	71%
1979	19	3	22	48%
1980	28	0	28	62%
1981	13	7	20	45%
1982	35	0	35	77%
1983	35	4	39	86%
1984	28	4	32	70%
1985	24	6	30	66%
1986	24	0	24	52%
1987	12	0	12	27%
1988	8	0	8	17%
1989	27	0	27	59%
1990	3	0	3	7%
1991	11	0	11	23%
1992	9	0	9	19%
1993	28	0	28	62%
1994	8	3	11	24%
1995	35	0	35	77%
1996	31	6	37	81%
1997	27	5	32	70%
1998	35	1	36	78%
1999	28	5	34	74%
2000	28	6	34	74%
2001	7	1	7	16%
2002	25	0	25	54%
2003	17	0	17	37%
2004	24	0	24	53%
2005	31	1	32	71%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1956	27	44%	59%
1963	27	45%	59%
1950	27	46%	59%
1928	26	47%	57%
1959	25	49%	56%
1954	25	50%	55%
2002	25	51%	54%
1957	24	52%	54%
1946	24	53%	53%
2004	24	54%	53%
1986	24	55%	52%
1947	23	56%	51%
1962	22	57%	49%
1979	22	58%	48%
2010	22	59%	48%
1964	22	60%	47%
1948	21	61%	47%
1971	21	63%	47%
1981	20	64%	45%
1972	20	65%	43%
2013	20	66%	43%
1965	18	67%	40%
1935	18	68%	40%
2009	18	69%	39%
1960	18	70%	39%
2007	17	71%	37%
2003	17	72%	37%
1926	16	73%	34%
1930	15	74%	34%
1961	15	76%	34%
1976	15	77%	34%
1939	15	78%	32%
1944	14	79%	32%
2015	14	80%	31%
1932	13	81%	28%
1987	12	82%	27%
1925	11	83%	25%
1994	11	84%	24%
1991	11	85%	23%
1929	10	86%	23%
1992	9	87%	19%
1934	8	88%	19%
1924	8	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	35	8	43	94%	1988	8	91%	17%
2007	14	3	17	37%	1933	8	92%	17%
2008	5	0	5	12%	2001	7	93%	16%
2009	18	0	18	39%	2008	5	94%	12%
2010	21	0	22	48%	1955	5	95%	11%
2011	35	0	35	77%	1949	4	96%	10%
2012	22	11	33	73%	1990	3	97%	7%
2013	19	0	20	43%	1931	3	98%	7%
2014	1	0	1	2%	1977	2	99%	4%
2015	14	0	14	31%	2014	1	100%	2%
Average	21	2	23	50%		23		50%
Maximum	35	11	43	94%		43		94%
Minimum	1	0	1	2%		1		2%

Table B-29. Santa Clara Valley WD (Valley Water): Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	63	0	63	63%	2006	98	0%	98%
1923	53	9	62	62%	1983	97	1%	97%
1924	16	2	18	18%	1996	85	2%	85%
1925	25	0	25	25%	1998	83	3%	83%
1926	34	0	34	34%	1970	83	4%	83%
1927	62	1	63	63%	1938	83	5%	83%
1928	52	5	56	56%	1969	82	6%	82%
1929	21	2	23	23%	2011	81	8%	81%
1930	34	0	34	34%	1999	81	9%	81%
1931	7	1	8	8%	1982	81	10%	81%
1932	28	0	28	28%	1995	81	11%	81%
1933	16	0	17	17%	1942	80	12%	80%
1934	18	0	19	19%	1984	76	13%	76%
1935	43	0	43	43%	2005	75	14%	75%
1936	60	0	60	60%	1978	74	15%	74%
1937	59	0	59	59%	1997	74	16%	74%
1938	81	2	83	83%	1943	73	17%	73%
1939	16	15	32	32%	1958	73	18%	73%
1940	59	0	60	60%	2000	72	19%	72%
1941	71	0	71	71%	1952	71	20%	71%
1942	64	16	80	80%	1967	71	22%	71%
1943	62	11	73	73%	1941	71	23%	71%
1944	27	5	31	31%	1951	69	24%	69%
1945	62	0	62	62%	2012	68	25%	68%
1946	50	3	53	53%	1974	67	26%	67%
1947	43	2	44	44%	1980	65	27%	65%
1948	46	0	46	46%	1953	65	28%	65%
1949	10	0	10	10%	1966	64	29%	64%
1950	58	0	58	58%	1975	64	30%	64%
1951	68	2	69	69%	1973	64	31%	64%
1952	66	5	71	71%	1922	63	32%	63%
1953	49	16	65	65%	1993	63	33%	63%
1954	54	2	56	56%	1927	63	35%	63%
1955	9	2	11	11%	1945	62	36%	62%
1956	58	0	58	58%	1923	62	37%	62%
1957	51	2	54	54%	1936	60	38%	60%
1958	71	2	73	73%	1940	60	39%	60%
1959	43	12	55	55%	1968	60	40%	60%
1960	39	0	39	39%	1963	59	41%	59%
1961	33	1	34	34%	1937	59	42%	59%
1962	49	0	49	49%	1989	58	43%	58%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	57	2	59	59%
1964	45	2	47	47%
1965	39	1	40	40%
1966	63	1	64	64%
1967	64	7	71	71%
1968	44	15	60	60%
1969	81	1	82	82%
1970	63	19	83	83%
1971	39	8	46	46%
1972	42	1	43	43%
1973	63	1	64	64%
1974	61	6	67	67%
1975	61	3	64	64%
1976	31	3	34	34%
1977	4	0	4	4%
1978	74	0	74	74%
1979	40	8	48	48%
1980	64	1	65	65%
1981	29	13	42	42%
1982	81	0	81	81%
1983	81	16	97	97%
1984	64	12	76	76%
1985	41	11	53	53%
1986	51	0	51	51%
1987	26	2	27	27%
1988	17	0	17	17%
1989	58	0	58	58%
1990	7	0	7	7%
1991	23	0	23	23%
1992	19	0	19	19%
1993	63	0	63	63%
1994	16	6	23	23%
1995	81	0	81	81%
1996	72	13	85	85%
1997	59	15	74	74%
1998	81	2	83	83%
1999	63	18	81	81%
2000	62	11	72	72%
2001	14	2	16	16%
2002	54	0	54	54%
2003	36	0	36	36%
2004	52	1	53	53%
2005	72	2	75	75%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1956	58	44%	58%
1950	58	45%	58%
1928	56	46%	56%
1954	56	47%	56%
1959	55	49%	55%
2002	54	50%	54%
1957	54	51%	54%
2004	53	52%	53%
1946	53	53%	53%
1985	53	54%	53%
1986	51	55%	51%
1962	49	56%	49%
1979	48	57%	48%
2010	48	58%	48%
1964	47	59%	47%
1971	46	60%	46%
1948	46	61%	46%
1947	44	63%	44%
1935	43	64%	43%
1972	43	65%	43%
1981	42	66%	42%
1965	40	67%	40%
2009	39	68%	39%
1960	39	69%	39%
2007	37	70%	37%
2003	36	71%	36%
2013	35	72%	35%
1926	34	73%	34%
1961	34	74%	34%
1930	34	76%	34%
1976	34	77%	34%
1939	32	78%	32%
1944	31	79%	31%
1932	28	80%	28%
1987	27	81%	27%
1925	25	82%	25%
1991	23	83%	23%
1929	23	84%	23%
1994	23	85%	23%
2015	22	86%	22%
1992	19	87%	19%
1934	19	88%	19%
1924	18	90%	18%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	81	17	98	98%	1988	17	91%	17%
2007	31	7	37	37%	1933	17	92%	17%
2008	11	0	11	11%	2001	16	93%	16%
2009	39	0	39	39%	2008	11	94%	11%
2010	47	1	48	48%	1955	11	95%	11%
2011	81	1	81	81%	1949	10	96%	10%
2012	49	19	68	68%	1931	8	97%	8%
2013	34	2	35	35%	1990	7	98%	7%
2014	2	0	2	2%	1977	4	99%	4%
2015	22	0	22	22%	2014	2	100%	2%
Average	47	4	51	51%		51		51%
Maximum	81	19	98	98%		98		98%
Minimum	2	0	2	2%		2		2%

Table B-30. Solano County WA: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	22	0	22	47%	1999	48	0%	100%
1923	20	22	42	89%	1998	48	0%	100%
1924	11	20	31	66%	1997	48	0%	100%
1925	20	1	21	43%	1996	48	0%	100%
1926	20	20	40	84%	1984	48	0%	100%
1927	24	3	27	56%	1983	48	0%	100%
1928	22	24	46	97%	1975	48	0%	100%
1929	11	22	34	70%	1971	48	0%	100%
1930	20	1	21	43%	1970	48	0%	100%
1931	11	3	14	30%	1953	48	0%	100%
1932	20	1	21	43%	1952	48	0%	100%
1933	11	3	14	30%	1943	48	0%	100%
1934	11	1	12	25%	1942	48	0%	100%
1935	20	1	21	43%	1941	48	0%	100%
1936	20	20	40	84%	2006	46	15%	97%
1937	20	20	40	84%	1974	46	15%	97%
1938	24	20	44	92%	2004	46	17%	97%
1939	20	24	44	92%	2000	46	17%	97%
1940	24	3	27	56%	1954	46	17%	97%
1941	24	24	48	100%	1928	46	17%	97%
1942	24	24	48	100%	2005	44	22%	93%
1943	24	24	48	100%	2011	44	23%	92%
1944	20	24	44	92%	2003	44	23%	92%
1945	20	3	23	48%	1986	44	23%	92%
1946	22	20	42	89%	1982	44	23%	92%
1947	20	22	42	88%	1969	44	23%	92%
1948	20	3	23	48%	1967	44	23%	92%
1949	20	20	40	84%	1965	44	23%	92%
1950	20	3	23	48%	1963	44	23%	92%
1951	24	20	44	92%	1958	44	23%	92%
1952	24	24	48	100%	1956	44	23%	92%
1953	24	24	48	100%	1951	44	23%	92%
1954	22	24	46	97%	1938	44	23%	92%
1955	20	22	42	89%	2012	44	36%	92%
1956	24	20	44	92%	2007	44	36%	92%
1957	20	24	44	92%	1985	44	36%	92%
1958	24	20	44	92%	1979	44	36%	92%
1959	20	24	44	92%	1972	44	36%	92%
1960	20	20	40	84%	1968	44	36%	92%
1961	20	20	40	84%	1966	44	36%	92%
1962	20	3	23	48%	1964	44	36%	92%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	24	20	44	92%
1964	20	24	44	92%
1965	24	20	44	92%
1966	20	24	44	92%
1967	24	20	44	92%
1968	20	24	44	92%
1969	24	20	44	92%
1970	24	24	48	100%
1971	24	24	48	100%
1972	20	24	44	92%
1973	22	20	42	89%
1974	24	22	46	97%
1975	24	24	48	100%
1976	11	24	35	74%
1977	11	1	12	25%
1978	24	1	24	51%
1979	20	24	44	92%
1980	22	20	42	89%
1981	20	22	42	89%
1982	24	20	44	92%
1983	24	24	48	100%
1984	24	24	48	100%
1985	20	24	44	92%
1986	24	20	44	92%
1987	20	24	44	92%
1988	20	3	23	48%
1989	20	3	23	48%
1990	11	20	31	66%
1991	11	1	12	25%
1992	11	1	12	25%
1993	24	1	24	51%
1994	20	24	44	92%
1995	24	3	27	56%
1996	24	24	48	100%
1997	24	24	48	100%
1998	24	24	48	100%
1999	24	24	48	100%
2000	22	24	46	97%
2001	20	22	42	88%
2002	20	3	23	48%
2003	24	20	44	92%
2004	22	24	46	97%
2005	22	22	44	93%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1959	44	36%	92%
1957	44	36%	92%
1994	44	46%	92%
1987	44	46%	92%
1944	44	46%	92%
1939	44	46%	92%
1980	42	51%	89%
1973	42	51%	89%
1946	42	51%	89%
1981	42	54%	89%
1955	42	54%	89%
1923	42	54%	89%
2001	42	57%	88%
1947	42	57%	88%
2013	40	59%	84%
1960	40	59%	84%
1937	40	59%	84%
1936	40	59%	84%
2008	40	64%	84%
1961	40	64%	84%
1949	40	64%	84%
1926	40	64%	84%
1976	35	68%	74%
1929	34	69%	70%
2014	31	70%	66%
1990	31	70%	66%
1924	31	70%	66%
1995	27	73%	56%
1940	27	73%	56%
1927	27	73%	56%
1993	24	77%	51%
1978	24	77%	51%
2010	23	79%	48%
2002	23	79%	48%
1989	23	79%	48%
1962	23	79%	48%
1950	23	79%	48%
1948	23	79%	48%
1945	23	79%	48%
2009	23	86%	48%
1988	23	86%	48%
1922	22	88%	47%
1935	21	90%	43%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	24	22	46	97%	1925	21	90%	43%
2007	20	24	44	92%	1932	21	92%	43%
2008	20	20	40	84%	1930	21	92%	43%
2009	20	3	23	48%	1933	14	94%	30%
2010	20	3	23	48%	1931	14	94%	30%
2011	24	20	44	92%	2015	12	96%	26%
2012	20	24	44	92%	1992	12	97%	25%
2013	20	20	40	84%	1991	12	97%	25%
2014	11	20	31	66%	1977	12	97%	25%
2015	11	1	12	26%	1934	12	97%	25%
Average	21	17	37	78%		37		78%
Maximum	24	24	48	100%		48		100%
Minimum	11	0	12	25%		12		25%

Table B-31. Tulare Lake Basin WSD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	63	0	63	72%	2011	87	0%	100%
1923	48	0	48	55%	2006	87	0%	100%
1924	14	0	14	16%	1998	87	0%	100%
1925	22	0	22	25%	1995	87	0%	100%
1926	30	0	30	34%	1983	87	0%	100%
1927	58	0	58	67%	1982	87	0%	100%
1928	47	0	47	54%	1969	87	0%	100%
1929	19	0	19	21%	1938	87	0%	100%
1930	30	0	30	34%	1978	80	9%	92%
1931	6	0	6	7%	2005	79	10%	90%
1932	25	0	25	28%	1996	78	11%	89%
1933	14	0	14	17%	1958	77	12%	88%
1934	16	0	16	19%	1941	76	13%	87%
1935	40	0	40	46%	1951	73	14%	84%
1936	56	0	56	64%	1952	71	15%	82%
1937	53	0	53	61%	1967	69	16%	79%
1938	87	0	87	100%	1980	67	17%	77%
1939	15	0	15	17%	1984	66	18%	75%
1940	56	0	56	63%	1942	65	19%	75%
1941	76	0	76	87%	1999	65	20%	74%
1942	65	0	65	75%	1970	65	22%	74%
1943	58	0	58	67%	1922	63	23%	72%
1944	24	0	24	27%	1966	61	24%	69%
1945	57	0	57	65%	1993	60	25%	69%
1946	45	0	45	51%	1973	60	26%	69%
1947	45	0	45	51%	1927	58	27%	67%
1948	42	0	42	48%	1943	58	28%	67%
1949	8	0	8	10%	1945	57	29%	65%
1950	53	0	53	60%	2000	57	30%	65%
1951	73	0	73	84%	1974	56	31%	64%
1952	71	0	71	82%	1936	56	32%	64%
1953	44	0	44	51%	1975	56	33%	64%
1954	49	0	49	56%	1940	56	35%	63%
1955	8	0	8	9%	1997	54	36%	61%
1956	53	0	53	60%	1937	53	37%	61%
1957	47	0	47	53%	1989	53	38%	61%
1958	77	0	77	88%	1956	53	39%	60%
1959	39	0	39	44%	1950	53	40%	60%
1960	35	0	35	40%	1963	52	41%	60%
1961	29	0	29	33%	1954	49	42%	56%
1962	44	0	44	50%	2002	49	43%	56%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1963	52	0	52	60%
1964	41	0	41	47%
1965	35	0	35	40%
1966	61	0	61	69%
1967	69	0	69	79%
1968	40	0	40	46%
1969	87	0	87	100%
1970	65	0	65	74%
1971	35	0	35	40%
1972	38	0	38	43%
1973	60	0	60	69%
1974	56	0	56	64%
1975	56	0	56	64%
1976	28	0	28	31%
1977	4	0	4	4%
1978	80	0	80	92%
1979	36	0	36	42%
1980	67	0	67	77%
1981	26	0	26	29%
1982	87	0	87	100%
1983	87	0	87	100%
1984	66	0	66	75%
1985	46	0	46	53%
1986	46	0	46	53%
1987	23	0	23	26%
1988	15	0	15	17%
1989	53	0	53	61%
1990	7	0	7	7%
1991	20	0	20	23%
1992	17	0	17	19%
1993	60	0	60	69%
1994	15	0	15	17%
1995	87	0	87	100%
1996	78	0	78	89%
1997	54	0	54	61%
1998	87	0	87	100%
1999	65	0	65	74%
2000	57	0	57	65%
2001	13	0	13	14%
2002	49	0	49	56%
2003	33	0	33	37%
2004	47	0	47	54%
2005	79	0	79	90%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1923	48	44%	55%
2004	47	45%	54%
1928	47	46%	54%
1957	47	47%	53%
1986	46	49%	53%
1985	46	50%	53%
1946	45	51%	51%
1947	45	52%	51%
1953	44	53%	51%
2012	44	54%	50%
1962	44	55%	50%
2010	42	56%	48%
1948	42	57%	48%
1964	41	58%	47%
1935	40	59%	46%
1968	40	60%	46%
1959	39	61%	44%
1972	38	63%	43%
2013	38	64%	43%
1979	36	65%	42%
2009	35	66%	40%
1965	35	67%	40%
1960	35	68%	40%
1971	35	69%	40%
2003	33	70%	37%
2015	32	71%	36%
1926	30	72%	34%
1930	30	73%	34%
1961	29	74%	33%
1976	28	76%	31%
2007	27	77%	31%
1981	26	78%	29%
1932	25	79%	28%
1944	24	80%	27%
1987	23	81%	26%
1925	22	82%	25%
1991	20	83%	23%
1929	19	84%	21%
1992	17	85%	19%
1934	16	86%	19%
1988	15	87%	17%
1994	15	88%	17%
1939	15	90%	17%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2006	87	0	87	100%	1933	14	91%	17%
2007	27	0	27	31%	1924	14	92%	16%
2008	10	0	10	12%	2001	13	93%	14%
2009	35	0	35	40%	2008	10	94%	12%
2010	42	0	42	48%	1949	8	95%	10%
2011	87	0	87	100%	1955	8	96%	9%
2012	44	0	44	50%	1990	7	97%	7%
2013	38	0	38	43%	1931	6	98%	7%
2014	2	0	2	2%	1977	4	99%	4%
2015	32	0	32	36%	2014	2	100%	2%
Average	45	0	45	52%		45		52%
Maximum	87	0	87	100%		87		100%
Minimum	2	0	2	2%		2		2%

Table B-32. Ventura County WPD: Future Conditions

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1922	14	0	14	72%	2011	20	0%	100%
1923	11	0	11	55%	2006	20	0%	100%
1924	3	0	3	16%	1998	20	0%	100%
1925	5	0	5	25%	1995	20	0%	100%
1926	7	0	7	34%	1983	20	0%	100%
1927	13	0	13	67%	1982	20	0%	100%
1928	11	0	11	54%	1969	20	0%	100%
1929	4	0	4	21%	1938	20	0%	100%
1930	7	0	7	34%	1978	18	9%	92%
1931	1	0	1	7%	2005	18	10%	90%
1932	6	0	6	28%	1996	18	11%	89%
1933	3	0	3	17%	1958	18	12%	88%
1934	4	0	4	19%	1941	17	13%	87%
1935	5	0	5	24%	1951	17	14%	84%
1936	7	0	7	36%	1952	16	15%	82%
1937	12	0	12	61%	1967	16	16%	79%
1938	20	0	20	100%	1980	15	17%	77%
1939	3	0	3	17%	1984	15	18%	75%
1940	1	0	1	5%	1942	15	19%	75%
1941	17	0	17	87%	1999	15	20%	74%
1942	15	0	15	75%	1970	15	22%	74%
1943	13	0	13	67%	1922	14	23%	72%
1944	5	0	5	27%	1966	14	24%	69%
1945	13	0	13	65%	1993	14	25%	69%
1946	10	0	10	51%	1973	14	26%	69%
1947	2	0	2	12%	1927	13	27%	67%
1948	10	0	10	48%	1943	13	28%	67%
1949	2	0	2	10%	1945	13	29%	65%
1950	12	0	12	60%	2000	13	30%	65%
1951	17	0	17	84%	1974	13	31%	64%
1952	16	0	16	82%	1975	13	32%	64%
1953	10	0	10	51%	1997	12	33%	61%
1954	11	0	11	56%	1937	12	35%	61%
1955	2	0	2	9%	1989	12	36%	61%
1956	12	0	12	60%	1956	12	37%	60%
1957	11	0	11	53%	1950	12	38%	60%
1958	18	0	18	88%	1963	12	39%	60%
1959	9	0	9	44%	1954	11	40%	56%
1960	8	0	8	40%	1923	11	41%	55%
1961	7	0	7	33%	2004	11	42%	54%
1962	10	0	10	50%	1928	11	43%	54%
1963	12	0	12	60%	1957	11	44%	53%

SWP Table A Deliveries for 2021 Study				
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A
1964	9	0	9	47%
1965	8	0	8	40%
1966	14	0	14	69%
1967	16	0	16	79%
1968	9	0	9	46%
1969	20	0	20	100%
1970	15	0	15	74%
1971	8	0	8	40%
1972	9	0	9	43%
1973	14	0	14	69%
1974	13	0	13	64%
1975	13	0	13	64%
1976	6	0	6	31%
1977	1	0	1	4%
1978	18	0	18	92%
1979	8	0	8	42%
1980	15	0	15	77%
1981	6	0	6	29%
1982	20	0	20	100%
1983	20	0	20	100%
1984	15	0	15	75%
1985	1	0	1	3%
1986	11	0	11	53%
1987	5	0	5	26%
1988	3	0	3	17%
1989	12	0	12	61%
1990	1	0	1	7%
1991	5	0	5	23%
1992	4	0	4	19%
1993	14	0	14	69%
1994	3	0	3	17%
1995	20	0	20	100%
1996	18	0	18	89%
1997	12	0	12	61%
1998	20	0	20	100%
1999	15	0	15	74%
2000	13	0	13	65%
2001	3	0	3	14%
2002	9	0	9	47%
2003	7	0	7	37%
2004	11	0	11	54%
2005	18	0	18	90%
2006	20	0	20	100%

Probability Curve			
Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
1986	11	45%	53%
1946	10	46%	51%
1953	10	47%	51%
2012	10	49%	50%
1962	10	50%	50%
2010	10	51%	48%
1948	10	52%	48%
2002	9	53%	47%
1964	9	54%	47%
1968	9	55%	46%
1959	9	56%	44%
1972	9	57%	43%
1979	8	58%	42%
2009	8	59%	40%
1965	8	60%	40%
1960	8	61%	40%
1971	8	63%	40%
2003	7	64%	37%
1936	7	65%	36%
1926	7	66%	34%
1930	7	67%	34%
1961	7	68%	33%
1976	6	69%	31%
2007	6	70%	31%
1981	6	71%	29%
1932	6	72%	28%
1944	5	73%	27%
1987	5	74%	26%
1925	5	76%	25%
1935	5	77%	24%
1991	5	78%	23%
1929	4	79%	21%
1992	4	80%	19%
1934	4	81%	19%
1988	3	82%	17%
1994	3	83%	17%
1939	3	84%	17%
1933	3	85%	17%
1924	3	86%	16%
2001	3	87%	14%
1947	2	88%	12%
2008	2	90%	12%
1949	2	91%	10%

SWP Table A Deliveries for 2021 Study					Probability Curve			
Year	Delivery w/o Article 56 Carryover (TAF)	Article 56 Carryover (TAF)	Total Table A Delivery (TAF)	Percent of Maximum Table A	Year	Total Table A Delivery (TAF)	Exceedance Frequency (%)	Percent of Maximum Table A
2007	6	0	6	31%	1955	2	92%	9%
2008	2	0	2	12%	1990	1	93%	7%
2009	8	0	8	40%	1931	1	94%	7%
2010	10	0	10	48%	1940	1	95%	5%
2011	20	0	20	100%	1977	1	96%	4%
2012	10	0	10	50%	1985	1	97%	3%
2013	0	0	0	2%	2014	0	98%	2%
2014	0	0	0	2%	2013	0	99%	2%
2015	0	0	0	0%	2015	0	100%	0%
Average	10	0	10	49%		10		49%
Maximum	20	0	20	100%		20		100%
Minimum	0	0	0	0%		0		0%