

Technical Addendum to The State Water Project Final Delivery Capability Report 2019

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State of California
Natural Resources Agency
Department of Water Resources



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Final DCR 2019 Technical Addendum

Introduction

The technical addendum is a supplemental document to the 2019 Delivery Capability Report (DCR) Existing and Future (Climate Change with 45cm 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:

- Model updates
- Dry Year Analysis
- Model assumptions
- Model input data
 - Article 21 demands
 - Table A amounts and Article 56 carryover
- Documentation on updating the model input data
- 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)
 - Annual delivery for Table A, Article 56, and Article 21
 - SWP contractor annual deliveries

Overview of Model Assumptions

2019 Delivery Capability Report (DCR) – Existing Condition

This section outlines the updates to the CalSim II model since the 2017 Delivery Capability Report (DCR) to prepare for the DCR 2019. The DCR 2019 model includes the following broad categories which described the upcoming sections:

- 2018 Coordinated Operation Agreement (COA) addendum
- Re-initiation of Consultation on the Long-Term Operations of the Central Valley Project (CVP) and State Water Project (SWP) (ROC on LTO)
- Incidental Take Permit for Long-Term Operation of the State Water Project (ITP)
- CVP and SWP operation updates
 - ROC on LTO and ITP reconciliation

COA Addendum 2018

In December 2018, Reclamation and DWR signed an Addendum to the Coordinated Operations Agreement about how to share obligations and exports between the federal CVP and the SWP. Reclamation and DWR staff jointly developed the CalSim model. The updated code reflects the following changes:

- Article 6(c): Sharing of responsibility for meeting in-basin uses with storage withdrawals under balanced conditions:

| Water Year Type | CVP | SWP |
|-----------------|-----|-----|
| Wet | 80% | 20% |
| Above Normal | 80% | 20% |
| Below Normal | 75% | 25% |
| Dry | 65% | 35% |
| Critical | 60% | 40% |

- Article 10(i): Sharing Exports when Exports are constrained
 - Balanced: 65% CVP/35% SWP
 - Excess: 60% CVP/40% SWP

Reclamation Updates

Friant Delivery to Exchange Contractors

In extremely dry conditions, Exchange Contractors cannot get their full delivery from the Delta Mendota Canal (DMC). When this happens, the Exchange Contractors can call on Friant to supplement their deliveries. This operation has been added to the CalSim code.

Sacramento River Navigation Control Point (NCP)

To limit releases when Shasta storage is low, off-ramps were introduced to modify the flow requirement at the NCP based on Shasta storage.

CVP South of Delta (SOD) Allocation

The CVP SOD allocation logic has been updated to better reflect recent operations.

- Exports are estimated based on the Sacramento River Index instead of a single seasonal estimate.
- Modified the San Luis Rule Curve to encourage more efficient timing of North to South conveyance.
- Allowed a higher allocation in May if CVP San Luis storage is higher.

Trinity

A 50 TAF Trinity River Fall Flow release was added in August/September of Above Normal, Below Normal, Dry, and Critical water years based on the Trinity Index. This is carried over into a similar reduction of imports from Trinity to the CVP.

B2 Actions

The model no longer uses an old, preprocessed timeseries based on the 2008 OCAP to implement CVPIA B2 flows at Keswick or Nimbus.

Update CVP Settlement Contractor Demands

CVP Settlement Contractor Demands were updated to match 2000 to 2016 CVO historical annual volumes and monthly distributions.

Disaggregate Folsom Diversions

Separated El Dorado ID and El Dorado County from the aggregated Folsom diversions. These are now distinct deliveries with their own demands and return flows.

Power Releases

- Keswick capacity through the power plant was updated to 16,000 cfs
- Nimbus capacity through the power plant was updated to 5,500 cfs

Other Minor Changes

There were a few minor changes since the 2017 DCR.

- Minor Changes
 - New weight to encourage C6_Rem (units 2, 4, and 6 instead of the river valve)
 - Use Folsom Storage Level instead of a hard number in FMStandard
 - export_ops1.wresl no longer calls the BDCP code jul_sep_prefer_td_exp.wresl
 - Zeroed out the Delta Islands Transfer to Contra Costa Water District (CCWD)
 - Implemented stricter code to implement how flood flows in the Upper San Joaquin River are split between Mendota Pool and the Chowchilla Bypass
 - Define D418 for Cycles 1-5
 - B2Action3 was updated to include an integer check and move a parenthesis
 - Reopcontinuity.wresl now uses a float (penalty 999999) to balance at Hood
 - Friant_rain_fld_est.wresl removed the initial condition for the goal compute-rainrel
- Merged Files
 - CVPcut_sys and CVPcut_s were merged into CVPcut
 - CVPSDeliveryLogicCycle1 and CVPSysDeliveryLogicCycle1 were merged into CVPDeliveryLogicCycle1
- Name Changes
 - Collins_data.wresl changed some case names and comments to be more accurate
 - sum_cvp_reduced_dem.wresl uses perdel_cvpex_s instead of perdel_cvpex_sys
 - American_PRJ_WR.table updated PCWASac to PCWAFol
 - NDO_NDS is now NDO_MOD, and X2_prv_NDS is now X2_prv_MOD

DWR Updates

Oroville Carryover Storage Target

The Oroville carryover target (September storage target) was updated in the model to be consistent with current State Water Project operational guidelines of 1.6 MAF from 1.0 MAF. The Water Operations Office, within the State Water Project, Operations and Maintenance, routinely evaluates the projected demands on Oroville for meeting contractual and regulatory requirements. Recent evaluations have indicated a need to keep storage levels higher what than the previous water supply guidelines methodology was providing.

The current Oroville target is based on a static (flat) 1.6 MAF at the end of September. This methodology using a static 1.6 MAF differs from the previous water supply guidelines methodology, which initially used a 1.0 MAF floor and subsequently increased to a 1.3 MAF floor. The previous methodology utilized a dynamic carryover target based on the 1.0 or 1.3 MAF floor plus a term that incorporated the previous September storage and the current year Table A allocation. The actual carryover target in a given year was typically much higher than 1.0 or 1.3 MAF and could exceed 1.6 MAF as it did in 2012 at a time when the 1.0 MAF floor was being used.

The actual operative target in the last seven years has been between 1.3 and 1.6 MAF reflecting a number of facility and hydrologic conditions that were temporarily governing storage management. The implementation of a static 1.6 MAF target has not been reflected in the modeling up until this release of the DCR.

SWP Demand and Demand Patterns

Updated the Table A, Article 56, and Article 21 demand and demand patterns. Table A and Article 56 demands were obtained from the State Water Project Analysis Office (SWPAO) Initial request data from 2014-2019. 60% allocation patterns are now considered in the model.

Article 21 demand and delivery logic were revised to consider the historical monthly and annual (2005-2018) deliveries and 2011, 2017, and 2019 annual requests. Monthly and annual Article 21 maximum deliveries have now been defined for each contractor.

For more details, please refer to the following section: **Documentation on the Updated CalSim II State Water Project Table A, Carryover, and Article 21 Demands and Demand Patterns**

FRSA Winter Water Allocation

Replaced the tiered winter water allocation logic with a continuum allocation based on the previous month storage at Oroville, inflow into Oroville, minimum in-stream flow requirements on Feather River met with releases from Oroville/ Thermalito Complex, and winter water demand. Under the revised logic, allocations are scaled continuously between 0% and 100% and are updated monthly between October and January.

Banks Permitted Pumping Capacity

Banks pumping plant permitted capacity is up to 10,300 cfs.

Oroville RVOS

Replaced an outdated assumption. The Oroville River Valve Outlet System (RVOS) has been fixed and can now utilize its full capacity of 4,000 cfs instead of the assumed 1,500 cfs capacity.

While reviewing the results, the staff noticed that water was released from the RVOS before utilizing the full capacity of units 2, 4, and 6 which sit at a higher elevation than RVOS. Updated the code to ensure proper order of release operations: (1) Units 2, 4 and 6; then, (2) Units 1, 3, and 5; and finally, RVOS.

Incidental Take Permit (ITP) Framework

Revised the CalSim II cycle structure to accommodate protected routing of ITP water blocks as follows:

- Updated the ANN references in the ANN and X2 files to use inputs from TRANSFER_STAGE1 cycle, instead of the last cycle inputs.
- Added a new cycle – ITP - after the TRANSFERS_STAGE1 cycle. Currently, the purpose of this cycle to fix transfers, wheeling and other operations such that there is no difference between cycle 12 and cycle 13 results. Here is a list of steps taken to develop the new cycle:
 - copy and paste the files from the TRANSFERS_STAGE1 cycle;
 - fix all transfers and wheeling operations to TRANSFERS_STAGE1;
 - fix all X2 salinity calculations to TRANSFERS_STAGE1;
 - fix deliveries, groundwater pumping, groundwater recharge and conveyance losses to TRANSFERS_STAGE1;
 - fix channel flows at selected locations to TRANSFERS_STAGE1; and

- fix selected project operations to TRANSFERS_STAGE1 including COA IBU, COA UWFE, Term 91 diversions.

Updated Yuba Accord Operations

Yuba Water Agency (YWA) converted their operations model from a monthly timestep to a daily timestep as part of their FERC Relicensing process for a more accurate representation of Yuba River Development Project (YRDP) operations. To be consistent with YWA’s planning model, Yuba River Development Project Model (YRDPM), the CalSim II inputs related to the Yuba River operations have been updated. In addition to updates to the Yuba River flow above Daguerre Point Dam (I230) and Daguerre Point Dam diversion (DEM_D230_MI) timeseries, the Yuba River transfer (Yuba_Trans) timeseries was further post-processed as follows:

- Defined Accord transfer volume as increase relative to the baseline (D1644) operations between May and September during balanced conditions;
- Restricted the amount of potential refill to the transfer volume and track refill as it occurred;
- If a transfer was not fully refilled in a given year, any remaining refill volume was carried over until it was refilled; and
- If refill occurred during balanced conditions, it was considered an impact, and the subsequent transfer was reduced by an equivalent volume.

DWR and Reclamation Long Term Operation Updates

DCR 2019 study includes all Incidental Take Permit for Long-Term Operation of the State Water Project (ITP) actions. However, due to few minor differences in ROC on LTO and ITP code, DWR and Reclamation modeling staff reconciled ROC on LTO and ITP code pertaining to the following operations:

- Combined flow in Old and Middle River (OMR)
- Fall X2
- Suisun Marsh Salinity Control Gate (SMSCG)

Combined Flow in Old and Middle River (OMR)

- Added OMR target of -5,000 cfs (January-June)
 - Except for 14 days of -2,000 cfs in January (first flush) if not triggered in December
 - Or except for 5 days of -2,000 (January-June) for the turbidity bridge and 6 days of -6,250 cfs when increased pumping due to storm is possible in January-February (AN, BN, D water years)
- Updated OMR target to -3,500 cfs when salvage occurs in March-May
 - Except for 5 days of -2,000 cfs if salvage and turbidity bridge coincide
- Corrected Health and Safety (H&S) off-ramp when exports are low
- Export capacity shared according to COA Article 10(i)

Fall X2/Summer-Fall Delta Smelt Habitat

- Updated X2 in September-October

- Wet and Above Normal years = 80 KM with transitional flows in last half of August
- Below Normal years= SMSCG Operations for 60 days
- CVP meets flow requirements by export reduction and SWP meets requirement by reservoir release.

Suisun Marsh Salinity Control Gate (SMSCG)

- DSM2 model simulation includes tidally based operations that have been shown to meet D-1641 WQ standards (October-May) in Montezuma Slough during salinity control season, which is used for Artificial Neural Network training. Therefore, CalSim II does not explicitly model it.
- Operate for up to 60 days June-October in BN, and AN years (Summer/Fall Delta Smelt habitat).

Dry Year Analysis

Objective

This section explains the reasons for the substantial dry period reductions in Banks SWP exports and SWP deliveries shown in the DCR 2019 main report. Table 1 shows the SWP Table A deliveries from the Delta and South of Delta during the dry periods.

Table 1. Dry Year SWP Table A deliveries from the DCR 2019 Main Report.

| Estimated Average and Dry-Period Deliveries of SWP Table A Water, Excluding Butte County and Yuba City (Existing Conditions, in taf/year) and Percent of Maximum SWP Table A Amount, 4,133 TAF/year | | | | | | | | | | | | |
|---|-------------------|-----|------------------------|-----|----------------------------|-----|----------------------------|-----|----------------------------|-----|----------------------------|-----|
| | Long-term Average | | Single Dry Year (1977) | | Dry Periods | | | | | | | |
| | | | | | 2-Year Drought (1976-1977) | | 4-Year Drought (1931-1934) | | 6-Year Drought (1987-1992) | | 6-Year Drought (1929-1934) | |
| DCR 2017 | 2,571 | 62% | 336 | 8% | 1,206 | 29% | 1,397 | 34% | 1,203 | 29% | 1,408 | 34% |
| DCR 2019 | 2,414 | 58% | 288 | 7% | 1,311 | 32% | 1,228 | 30% | 1,058 | 26% | 1,158 | 28% |
| Diff and % Max Diff | -157 | -4% | -48 | -1% | 105 | 3% | -169 | -4% | -145 | -3% | -250 | -6% |

Approach

Three code updates were reviewed from DCR 2017 to DCR 2019 as follows:

1. COA Addendum 2018 update
2. Oroville Carryover Storage Target increase – 1.0 million acre-feet (MAF) to 1.6 MAF
3. ITP and ROC on LTO actions

Sensitivity analyses studies were developed which compared the DCR 2019 study with and without the update category. The COA Addendum 2018 update evaluated results with the DCR 2017 study as well as DCR 2019. Sensitivity of the Oroville carryover storage target increases and ITP and ROC on LTO actions were also evaluated on the DCR 2019 only.

COA Addendum 2018

Table 2 compares the COA export sharing ratios between pre and post COA addendum 2018 under export restriction. The percent difference column highlights the reduced SWP export share during export constrained months. SWP export share decreased 15% in balanced conditions and 10% under excess conditions under COA. The 2018 COA Addendum sharing ratios drastically reduces the dry and critical water year types SWP exports and deliveries.

Table 2. Comparison of the pre and post-COA Amendment DCR 2019 export sharing ratios under Balanced and Excess Conditions – Export Constrained

| Conditions | DCR 2019 (pre COA amendment) | | DCR 2019 (post COA amendment) | | % Diff | |
|------------|------------------------------|-----|-------------------------------|-----|--------|------|
| | CVP | SWP | CVP | SWP | CVP | SWP |
| Balanced | 50% | 50% | 65% | 35% | 15% | -15% |
| Excess | 50% | 50% | 60% | 40% | 10% | -10% |

Results and Discussion

Table 3 and Table 5 show that the Table 2 COA export capacity sharing ratios of COA addendum reduced Banks SWP Exports by 10-13% in Dry Years and 11-14% in Critical Years. When comparing the multi-year dry periods, the Banks SWP reductions followed similar decreasing trends. This can be attributed to the rest of the differing assumptions and operations between the two DCR studies.

Table 4 and Table 6 also show the Dry and Critical water year types impacts on SWP Table A deliveries. In DCR 2017, using the latest COA sharing ratios led to 10% decrease in Dry years and 12% in Critical years. The DCR 2019 was also affected similarly, at 9% reduction in Dry water years and 10% in Critical years.

Overall, the COA amendment export capacity sharing ratios reduced SWP exports and SWP Table A deliveries during the Dry and Critical water year types at similar percentage decreases.

Table 3. DCR 2017 - Sensitivity Analysis Dry and Critical Period Banks SWP Exports (TAF) Jan-Dec Averages After Applying post COA amendment export sharing ratios

| Studies | Long Term | Dry Years (Sac 40-30-30) | Critical Years (Sac 40-30-30) | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
|-------------------------------|-----------|--------------------------|-------------------------------|-----------|-----------|-----------|-----------|
| DCR 2017 | 2616 | 1951 | 1169 | 1464 | 1420 | 1257 | 1252 |
| DCR 2017 (post COA Amendment) | 2498 | 1760 | 1036 | 1433 | 1442 | 1145 | 992 |
| Difference | -118 | -191 | -133 | -31 | 22 | -112 | -260 |
| % Difference | -5% | -10% | -11% | -2% | 2% | -9% | -21% |

Table 4. DCR 2017 - Sensitivity Analysis Dry and Critical Period SWP Table A Deliveries (Delta and South of Delta only) (TAF) Jan-Dec Averages After Applying post COA amendment export sharing ratios

| Studies | Long Term | Dry Years (Sac 40-30-30) | Critical Years (Sac 40-30-30) | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
|-------------------------------|-------------|--------------------------|-------------------------------|------------|------------|-------------|-------------|
| DCR 2017 | 2571 | 2065 | 1160 | 1408 | 1397 | 1206 | 1203 |
| DCR 2017 (post COA Amendment) | 2453 | 1851 | 1019 | 1351 | 1353 | 1092 | 948 |
| Difference | -117 | -214 | -141 | -57 | -44 | -114 | -255 |
| % Difference | -5% | -10% | -12% | -4% | -3% | -9% | -21% |

Table 5. DCR 2019 - Sensitivity Analysis Dry and Critical Period Banks SWP Exports (TAF) Jan-Dec Averages After Reverting to pre COA amendment export sharing ratios

| Studies | Long Term | Dry Years (Sac 40-30-30) | Critical Years (Sac 40-30-30) | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
|------------------------------|------------|--------------------------|-------------------------------|-------------|-------------|-------------|-------------|
| DCR 2019 (pre COA Amendment) | 2592 | 1822 | 1204 | 1396 | 1390 | 1337 | 1283 |
| DCR 2019 | 2519 | 1610 | 1055 | 1228 | 1214 | 1198 | 1057 |
| Difference | -73 | -212 | -149 | -168 | -176 | -139 | -226 |
| % Difference | -3% | -13% | -14% | -14% | -14% | -12% | -21% |

Table 6. DCR 2019 - Sensitivity Analysis Dry and Critical Period SWP Table A Deliveries (Delta and South of Delta only) (TAF) Jan-Dec Averages After Reverting to pre COA amendment export sharing ratios

| Studies | Long Term | Dry Years (Sac 40-30-30) | Critical Years (Sac 40-30-30) | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
|------------------------------|------------|--------------------------|-------------------------------|-------------|-------------|-------------|-------------|
| DCR 2019 (pre COA Amendment) | 2481 | 1944 | 1179 | 1276 | 1342 | 1416 | 1270 |
| DCR 2019 | 2414 | 1786 | 1076 | 1158 | 1228 | 1311 | 1058 |
| Difference | -67 | -158 | -103 | -118 | -114 | -105 | -212 |
| % Difference | -3% | -9% | -10% | -10% | -9% | -8% | -20% |

Oroville Carryover Storage Target

Results and Discussion

Increasing the Oroville end of September storage target from 1.0 MAF to 1.6 MAF leads to a reduction in Dry and Critical year deliveries. With a higher storage target, Oroville operates more conservatively during the summer. This is to maintain higher storage and meet the target in September to the greatest extent possible. The storage target is used in calculating the SWP allocation, and a higher Oroville carryover target will lead to a lower allocation, which will decrease exports and deliveries.

The storage target is also used to constrain export releases in all months of the year, when Oroville is in low storage conditions. Table 7 shows the change in Banks SWP exports after increasing the Oroville end of September storage target from 1.0 to 1.6 MAF. SWP exports decrease in all water year types.

Table 7. Change in Banks SWP exports for three five comparisons of the effects of the Oroville storage target.

| Banks SWP exports | Oroville Carryover 1.0 to 1.6 MAF target |
|---------------------|--|
| All years | -61 |
| Wet, AN, BN years | -28 |
| Dry, Critical years | -118 |

Table 8 below shows an example of how the SWP operation is affected by the storage target, using the DCR 2019 run with the 1.0 and 1.6 MAF storage targets. This example is from the year 1989, which is a Dry year which starts with very low storage because it is in the middle of the 1987-92 drought. While Oroville storage is lower entering this period in the model run with the 1.0 storage target, the difference in storage increases significantly in the August-October period, due to differences in releases for exports. In the model run with the 1.6 storage target, releases for exports are less in order to meet the higher storage target and to maintain a lower allocation. In this year the 1.6 storage target run has a lower Table A allocation (47% vs 48%) and lower Table A deliveries (-206 taf), due to the more conservative operation of Oroville.

Table 8. Example of Oroville storage, Banks SWP export operation, Table A allocations and deliveries in a Dry year (1989) with 1.0 and 1.6 storage targets

| Case | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan-Dec |
|---|------|------|------|-------|-------|-------|-------|--------------|--------------|--------------|-------|-------|---------|
| Oroville storage with 1.0 MAF target (taf) | 940 | 1079 | 2230 | 2615 | 2521 | 2268 | 1597 | 1251 | 1246 | 1269 | 1251 | 1252 | 1627 |
| Oroville storage 1.6 MAF target (taf) | 976 | 1115 | 2265 | 2650 | 2555 | 2302 | 1631 | 1516 | 1525 | 1547 | 1538 | 1541 | 1763 |
| Difference | 36 | 36 | 35 | 35 | 34 | 34 | 34 | 265 | 279 | 278 | 287 | 289 | 136 |
| | | | | | | | | | | | | | |
| Banks SWP exports with 1.0 MAF target (cfs) | 2654 | 1093 | 1811 | 877 | 600 | 1647 | 6680 | 3540 | 3527 | 3072 | 2808 | 1845 | 2513 |
| Banks SWP exports with 1.6 MAF target (cfs) | 2654 | 1756 | 1811 | 877 | 600 | 1647 | 6680 | 300 | 3346 | 2973 | 2008 | 1864 | 2210 |
| Difference | 0 | 663 | 0 | 0 | 0 | 0 | 0 | -3240 | -181 | -99 | -800 | 19 | -303 |
| | | | | | | | | | | | | | |
| Table A deliveries with 1.0 MAF target (taf) | 10.4 | 13.2 | 31.2 | 155.3 | 203.7 | 293.0 | 333.7 | 322.5 | 266.2 | 252.8 | 206.4 | 150.8 | 2239 |
| Table A deliveries with 1.6 MAF target (taf) | 0.8 | 0.6 | 37.2 | 160.9 | 210.6 | 302.3 | 344.1 | 315.0 | 198.9 | 200.5 | 133.5 | 128.2 | 2033 |
| Difference | -10 | -13 | 6 | 6 | 7 | 9 | 10 | -8 | -67 | -52 | -73 | -23 | -206 |
| | | | | | | | | | | | | | |
| Table A allocation with 1.0 MAF target (%) | 12 | 14 | 20 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 48 |
| Table A allocation with 1.6 MAF target (%) | 0 | 0 | 23 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 47 |
| Difference | -12 | -14 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | -1 |

ITP and ROC LTO Actions

A DCR 2019 baseline study was developed to isolate the 2009 Biological Opinions and Reasonable and Prudent Alternatives (BO RPAs) and the latest ITP and ROC LTO actions. Comparing this baseline with DCR 2019 will help assess the SWP exports and Table A deliveries impact before (BO RPAs only) and after the ITP and ROC LTO code updates were implemented. The steps undertaken were as follows:

1. Start from the ITP Baseline
2. Turn on San Joaquin River Restoration flows
3. Increase the Oroville carryover target from 1.3 MAF to 1.6 MAF
 - ITP Base already increased Oroville carryover target from 1.0 MAF to 1.3 MAF
4. Apply the updated SWP Table A, Article 56, and Article 21 demand and demand patterns

Results and Discussion

Table 9 compares Banks SWP exports with BO RPAs only and with the ITP and ROC LTO actions. Banks SWP exports increased with the addition of the ITP and ROC LTO actions in all the drought periods and Critical water year type except in 1929-1934, 1987-1992 dry periods and the Dry water year type in which exports went down by 3 TAF, 37 TAF and 44 TAF, respectively.

Table 10 also compares the SWP Table A deliveries excluding Butte and Yuba before and after the ITP and ROC LTO operations. Deliveries increased with the addition of the ITP and ROC LTO actions in all the drought periods and Dry and Critical water year types except 1929-1934 which is negligible and minor (1 TAF). The increased Table A deliveries in 1976-1977 were highest, but this could be attributed to the sensitivity of the single dry year 1977. Table 10 demonstrates that the ITP and ROC LTO operations updates were not the main reasons for the SWP Table A deliveries reductions during drought periods shown in Table 1.

Table 9. DCR 2019 - Sensitivity Analysis Dry and Critical Period Banks SWP Exports (TAF) Jan-Dec Averages. Before and after the ITP/ROC-LTO Actions implementation.

| Studies | Long Term | Dry Water Years | Critical Water Years | Dry Periods | | | |
|----------------------------------|------------|-----------------|----------------------|-------------|-----------|------------|------------|
| | | | | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
| DCR 2019 Baseline (BO RPAs only) | 2403 | 1654 | 1028 | 1231 | 1165 | 1050 | 1094 |
| DCR 2019 | 2519 | 1610 | 1055 | 1228 | 1214 | 1198 | 1057 |
| Difference | 116 | -44 | 27 | -3 | 49 | 148 | -37 |
| % Difference | 5% | -3% | 3% | 0% | 4% | 12% | -4% |

Table 10. DCR 2019 - Sensitivity Analysis Dry and Critical Period SWP Table A deliveries (Delta and South of Delta only) (TAF) Jan-Dec Averages. Before and after the ITP/ROC-LTO Actions implementation.

| Studies | Long Term | Dry Water Years | Critical Water Years | Dry Periods | | | |
|----------------------------------|-----------|-----------------|----------------------|-------------|-----------|------------|-----------|
| | | | | 1929-1934 | 1931-1934 | 1976-1977 | 1987-1992 |
| DCR 2019 Baseline (BO RPAs only) | 2339 | 1760 | 1028 | 1159 | 1199 | 1033 | 1057 |
| DCR 2019 | 2414 | 1786 | 1076 | 1158 | 1228 | 1311 | 1058 |
| Difference | 75 | 26 | 48 | -1 | 29 | 278 | 1 |
| % Difference | 3% | 1% | 4% | 0% | 2% | 21% | 0% |

Summary

Three update categories between DCR 2017 to DCR 2019 were investigated as follows:

1. COA Addendum 2018 update
2. Oroville Carryover Storage Target increase (1.0 MAF to 1.6 MAF)
3. ITP and ROC on LTO actions

Of the 3 updates, the updated COA 2018 export capacity sharing ratios and the increased Oroville carryover end of September target from 1.0 MAF to 1.6 MAF were the main two reasons leading up to reduced Banks SWP exports and SWP Table A deliveries during the drought periods and water year types.

CalSim II Modeling Assumptions

Table 11. CalSim II Modeling Assumptions for 2019 Delivery Capability Report

| | Existing Condition ¹ | Future Condition |
|--|---|--|
| Planning Horizon¹ | Year 2020 | Year 2040 |
| Period of Simulation | 82 years (1922-2003) | Same as Existing Condition |
| HYDROLOGY | | |
| Level of Development (land use) | 2030 Level ² | Same as Existing Condition |
| Inflows/Supplies | Inflows based on Historical Hydrology | Inflows based on climate change hydrology with 45 cm sea level rise. |
| DEMANDS | | |
| North of Delta (excluding the American River) | | |
| CVP ³ | Land-use based, full build-out of contract amounts, except for Settlement Contractors represented with historical diversions | Same as Existing Condition |
| SWP (FRSA) | Land-use based, limited by contract amounts ^{4, 5} | Same as Existing Condition |
| Non-project | Land-use based, limited by water rights and SWRCB Decisions for Existing Facilities | Same as Existing Condition |
| Antioch Water Works | Pre-1914 water right | Same as Existing Condition |
| Federal refuges | Firm Level 2 water needs ⁶ | Same as Existing Condition |
| American River Basin | | |
| Water rights | Year 2025, full water rights ⁷ | Same as Existing Condition |
| CVP | Year 2025, full contracts including Freeport Regional Water Project, except for Settlement Contractors at historical diversions ⁷ | Same as Existing Condition |
| San Joaquin River Basin⁸ | | |
| Friant Unit | Limited by contract amounts, based on current allocation policy | Same as Existing Condition |
| Lower basin | Land-use based, based on district level operations and constraints | Same as Existing Condition |
| Stanislaus River basin | Land-use based, Stepped Release Plan (SRP) ⁹ | Same as Existing Condition |
| South of Delta | | |
| CVP ³ | Demand based on contract amounts | Same as Existing Condition |
| Federal refuges | Firm Level 2 water needs ⁶ | Same as Existing Condition |
| CCWD | 195 TAF/yr CVP contract supply and water rights ¹⁰ | Same as Existing Condition |
| SWP | Demand based on full Table A amounts ^{4, 11} | Same as Existing Condition |
| Article 56 | Based on 2014-2019 contractor requests | Same as Existing Condition |
| Article 21 | MWD delivery up to 286.17 TAF/year (January-May) subject to conveyance capacity, KCWA delivery up to 543.69 TAF/year (November-June), and other contractor deliveries up to maximum of 301.20 | Same as Existing Condition |

| | Existing Condition ¹ | Future Condition |
|--|--|----------------------------|
| | TAF/year, subject to conveyance capacity. All demands have been scaled up by 20% to not constrain Article 21 demands strictly by historical data. | |
| North Bay Aqueduct | 77 TAF/yr demand under SWP contracts. Up to 2.635 TAF/mon of excess flow (i.e. when Standard Water Right Term 91 is not in effect, UWFE used as surrogate) under Fairfield, Vacaville and Benicia Settlement Agreement. NOD Allocation Settlement Agreement terms for Napa and Solano ¹² | Same as Existing Condition |
| FACILITIES | | |
| System-wide | Existing facilities | Same as Existing Condition |
| Sacramento Valley | | |
| Shasta Lake | Existing, 4,552 TAF capacity | Same as Existing Condition |
| Red Bluff Diversion Dam | Diversion dam gates out all year, Pumping Plant operated to deliver CVP water | Same as Existing Condition |
| Fremont Weir | Existing Weir | Same as Existing Condition |
| Colusa Basin | Existing conveyance and storage facilities | Same as Existing Condition |
| Lower American River | Hodge criteria for diversion at Fairbairn | Same as Existing Condition |
| Upper American River | PCWA American River pump station ^{7,13} | Same as Existing Condition |
| Lower Sacramento River | Freeport Regional Water Project ¹⁴ | Same as Existing Condition |
| Sacramento River–San Joaquin Delta Region (Delta Export Conveyance) | | |
| SWP Banks Pumping Plant (South Delta) | Physical capacity is 10,300 cfs, permitted capacity is 6,680 cfs in all months and up to 10,300 cfs during Dec 15 th - Mar 15 th depending on Vernalis flow conditions ¹⁵ ; additional capacity of 500 cfs (up to 7,180 cfs) allowed Jul–Sep for reducing impact of NMFS BO (Jun 2009) Action IV.2.1 ¹⁶ on SWP ¹⁷ | Same as Existing Condition |
| CVP C.W. “Bill” Jones Pumping Plant (formerly Tracy PP) | Permit capacity is 4,600 cfs in all months (allowed for by the Delta-Mendota Canal-California Aqueduct Intertie) | Same as Existing Condition |
| Upper Delta-Mendota Canal Capacity | Existing plus 400 cfs Delta-Mendota Canal–California Aqueduct Intertie | Same as Existing Condition |
| CCWD Intakes | Los Vaqueros existing storage capacity, 160 TAF, existing pump locations, Alternative Intake Project (AIP) included ¹⁸ | Same as Existing Condition |
| Montezuma Slough Salinity Control Gates | Delta salinity conditions are adjusted for months in which the salinity control gate is operated (Details in the operation section) ⁹ | Same as Existing Condition |
| San Joaquin River | | |
| Millerton Lake (Friant Dam) | Existing, 524 TAF capacity | Same as Existing Condition |

| | Existing Condition ¹ | Future Condition |
|--|---|----------------------------|
| Lower San Joaquin River | City of Stockton Delta Water Supply Project, 30 mgd capacity | Same as Existing Condition |
| San Francisco Bay Region | | |
| South Bay Aqueduct (SBA) | SBA rehabilitation, 430 cfs capacity from junction with California Aqueduct to Alameda County FC&WSD Zone 7 point | Same as Existing Condition |
| South Coast Region | | |
| California Aqueduct | Existing capacity | Same as Existing Condition |
| REGULATORY STANDARDS | | |
| Trinity River | | |
| Minimum Flow below Lewiston Dam | Trinity EIS Preferred Alternative (369-815 TAF/yr) | Same as Existing Condition |
| Trinity Reservoir end-of-September minimum storage | Trinity EIS Preferred Alternative (600 TAF/yr as able) | Same as Existing Condition |
| Trinity River Fall Augmentation Flows | 420 cfs August 1 through September 30 in all but very wet years | Same as Existing Condition |
| Clear Creek | | |
| Minimum flow below Whiskeytown Dam | Downstream water rights, 1963 USBR Proposal to USFWS and NPS; and 200 cfs October through May or 150 cfs in Critical years and 150 cfs June through September with 10 TAF for channel maintenance in February of BN, AN and Wet years and 10 TAF for Spring pulse flows in June of all years ⁹ | Same as Existing Condition |
| Upper Sacramento River | | |
| Shasta Lake end-of-September minimum storage | 1900 TAF in non-critically dry years (not explicitly modeled - achieved through project allocation profiles when hydrologically feasible) ⁹ | Same as Existing Condition |
| Minimum flow below Keswick Dam | SWRCB WR 90-5; and stabilize fall flows to reduce redds dewatering and rebuild cold water pool; and spring pulse flow up to 150 TAF if projected May 1 storage > 4.1 MAF ⁹ | Same as Existing Condition |
| Feather River | | |
| Minimum flow below Thermalito Diversion Dam | 2006 Settlement Agreement (700 / 800 cfs) | Same as Existing Condition |
| Minimum flow below Thermalito Afterbay outlet | 1983 DWR, CDFW agreement (750 – 1,700 cfs) | Same as Existing Condition |
| Yuba River | | |
| Minimum flow below Daguerre Point Dam | D-1644 Operations (Lower Yuba River Accord) ¹⁹ | Same as Existing Condition |
| American River | | |

| | Existing Condition ¹ | Future Condition |
|--|--|----------------------------|
| Minimum flow below Nimbus Dam | American River Flow Management Standard, per 2017 Water Forum Agreement with a planning minimum end of December storage target of 275 TAF ⁹ | Same as Existing Condition |
| Minimum flow at H Street Bridge | SWRCB D-893 | Same as Existing Condition |
| Lower Sacramento River | | |
| Minimum flow near Rio Vista | SWRCB D-1641 | Same as Existing Condition |
| Mokelumne River | | |
| Minimum flow below Camanche Dam | Federal Energy Regulatory Commission 2916-029 ¹⁴ , 1996 (Joint Settlement Agreement) (100 – 325 cfs) | Same as Existing Condition |
| Minimum flow below Woodbridge Diversion Dam | Federal Energy Regulatory Commission 2916-029 ¹⁴ , 1996 (Joint Settlement Agreement) (25 – 300 cfs) | Same as Existing Condition |
| Stanislaus River | | |
| Minimum flow below Goodwin Dam | Flows per New Melones SRP ⁹ | Same as Existing Condition |
| Minimum dissolved oxygen | SWRCB D-1422 | Same as Existing Condition |
| Merced River | | |
| Minimum flow below Crocker-Huffman Diversion Dam | Davis-Grunsky (180 – 220 cfs, Nov – Mar), and Cowell Agreement | Same as Existing Condition |
| Minimum flow at Shaffer Bridge | Federal Energy Regulatory Commission 2179 (25 – 100 cfs) | Same as Existing Condition |
| Tuolumne River | | |
| Minimum flow at Lagrange Bridge | Federal Energy Regulatory Commission 2299-024, 1995 (Settlement Agreement) (94 – 301 TAF/yr) | Same as Existing Condition |
| San Joaquin River | | |
| San Joaquin River below Friant Dam/Mendota Pool | San Joaquin River Restoration-full flows, not constrained by current river capacity, model implementation does not include any recapture/recirculation ⁹ | Same as Existing Condition |
| Maximum salinity near Vernalis | As supported by Stanislaus SRP flows ⁹ | Same as Existing Condition |
| Minimum flow near Vernalis | As supported by Stanislaus SRP flows ⁹ | Same as Existing Condition |
| Sacramento-San Joaquin Delta | | |
| Delta Outflow Index (flow and salinity) | SWRCB D-1641 and for Summer/Fall Delta Smelt habitat operate to meet X2 of 80 km for September and October of AN, and Wet years with transitional flows in last half of August; modeled as In-Basin Use and shared according to COA Article 6(c) 9 , 20 , 21 | Same as Existing Condition |
| Delta Cross Channel gate operation | SWRCB D-1641 with additional days closed from Oct 1-Jan 31 based on NMFS BO (Jun 2009) Action | Same as Existing Condition |

| | Existing Condition ¹ | Future Condition |
|--|--|----------------------------|
| | IV.1.2 ¹⁶ (closed during flushing flows from Oct 1-Dec 14 unless adverse water quality conditions) | |
| South Delta exports (Jones PP and Banks PP) | SWRCB D-1641, additional 500 cfs allowed for Jul-Sep for reducing impact on SWP ¹⁷ , Export capacity shared according to COA Article 10(i) ²⁰ | Same as Existing Condition |
| Combined Flow in Old and Middle River (OMR) | OMR target of -5,000 cfs in January through June except for 14 days of -2,000 cfs in January (for the first flush) if it is not triggered in December, or 5 days of -2,000 cfs in January through June for the turbidity bridge, and 6 days of -6,250 cfs when increased pumping due to storm is possible in January and February of AN, BN, and D water years. When salvage occurs in March - May, the target OMR is -3,500 cfs except for 5 days of -2,000 cfs if salvage and turbidity bridge coincide ⁹ Export capacity shared according to COA Article 10(i) ²⁰ | Same as Existing Condition |
| SJR Inflow to Export Ratio | Maximum allowable SWP Export is the maximum of 600 CFS or 40% of the total Export under SJRIE regulation in April 1 – May 31 when Delta Outflow is less than 44,500 cfs. Export restriction is applied above health and Safety requirements of 300 cfs ²¹ | Same as Existing Condition |
| Additional 100 TAF for Delta Outflow | SWP 100 taf export cut during spring, summer, or fall months to provide a flexible water block to enhance Delta Outflow. This criterion is modeled as SWP export cut of wet and above normal years in August month ²¹ | Same as Existing Condition |
| OPERATIONS CRITERIA: RIVER-SPECIFIC | | |
| Upper Sacramento River | | |
| Flow objective for navigation (Wilkins Slough) | Flow objective for Wilkins Slough based on month, CVP allocation, and Shasta storage condition to reflect CVP operations for local delivery | Same as Existing Condition |
| American River | | |
| Folsom Dam flood control | Variable 400/600 flood control diagram (without outlet modifications) | Same as Existing Condition |
| Feather River | | |
| Flow at mouth of Feather River (above Verona) | Maintain the CDFW /DWR flow target of 2,800 cfs for Apr - Sep dependent on Oroville inflow and FRSA allocation | Same as Existing Condition |
| Stanislaus River | | |
| Flow below Goodwin Dam | New Melones Stepped Release Plan ⁹ | Same as Existing Condition |
| San Joaquin River | | |
| Salinity at Vernalis | Grasslands Bypass Project (full implementation) | Same as Existing Condition |

| | | Existing Condition ¹ | Future Condition |
|--|---|---------------------------------|----------------------------|
| Sacramento - San Joaquin Delta | | | |
| Montezuma Slough Salinity Control Gates (October-June) | Not modeled ²² | | Same as Existing Condition |
| Montezuma Slough Salinity Control Gates (Summer-Fall action) | Summer/Fall Delta Smelt habitat operate for up to 60 days June through October of BN and AN year; CVP and SWP meet the flow requirement to maintain the salinity ^{9, 21} | | Same as Existing Condition |
| Montezuma Slough Salinity Control Gates (summer action) | Additional summer action for a 30-day control gate operation during a dry year following a below normal year. SWP only meets the flow requirement ²¹ | | Same as Existing Condition |
| Summer/Fall Habitat (Fall X2) | Fall X2 criteria to maintain low salinity in Suisan Marsh in September and October of wet and above normal years with transitional flow in August. CVP meets its obligation from export cut followed by reservoir release and SWP meets its obligation from reservoir release followed by export cut ^{9, 21} | | Same as Existing Condition |
| OPERATIONS CRITERIA: SYSTEMWIDE | | | |
| CVP Water Allocation | | | |
| Settlement and exchange | 100% (75% in Shasta critical years) | | Same as Existing Condition |
| Refuges | 100% (75% in Shasta critical years) | | Same as Existing Condition |
| CVP Agriculture | 100% - 0% based on supply. South-of-Delta allocations are additionally limited due to D-1641, ROC on LTO export restrictions. North-of-Delta allocation adjustment for high Shasta Lake ^{9, 21} | | Same as Existing Condition |
| Municipal & Industrial | 100% - 50% based on supply. South-of-Delta allocations are additionally limited due to D-1641, ROC on LTO export restrictions. North-of-Delta allocation adjustment for high Shasta Lake storage ^{9, 21} | | Same as Existing Condition |
| SWP Water Allocation | | | |
| North of Delta (FRSA) | Contract-specific NOD Allocation Settlement Agreement terms for Napa and Solano ¹² | | Same as Existing Condition |
| South of Delta (including North Bay Aqueduct) | Based on supply; equal prioritization between Ag and M&I based on Monterey Agreement; allocations are limited due to D-1641, ROC on LTO and ITP export restrictions ^{9, 21} NOD Allocation Settlement Agreement terms for Napa and Solano ¹² | | Same as Existing Condition |

| | Existing Condition ¹ | Future Condition |
|---|---|----------------------------|
| CVP/SWP Coordinated Operations | | |
| Sharing of responsibility for in-basin use | <p>According to Coordinated Operations Agreement (2018), sharing responsibility for meeting Sacramento Valley In-basin use during balance condition with water year type in percentage for CVP and SWP, respectively are⁹:</p> <p style="text-align: center;">80/20 in AN and W</p> <p style="text-align: center;">75/25 in BN</p> <p style="text-align: center;">65/35 in D</p> <p style="text-align: center;">60/40 in C</p> <p>As per NAPA agreement, FRWP and EBMUD 2/3 of the North Bay Aqueduct diversions are considered as Delta export, 1/3 of the North Bay Aqueduct diversion is considered as in-basin use</p> | Same as Existing Condition |
| Sharing of surplus flows | According to Coordinated Operations Agreement (2018), CVP and SWP sharing responsibility during Unstored Water for Export (UWFE) during balanced condition for all year type is 55% and 45%, respectively. | Same as Existing Condition |
| Sharing of restricted export capacity for project-specific priority pumping | <p>The percentage sharing of export capacity under export limits due to (1) SWRCB D-1641 (export/inflow ratio, Vernalis 1:1), (2) Old and Middle River flow requirements^{9, 21}</p> <p style="text-align: center;">60/40 CVP/SWP during excess conditions</p> <p style="text-align: center;">65/35 CVP/SWP during balanced conditions</p> <p style="text-align: center;">No restrictions on Inter-tie use to meet these shares</p> | Same as Existing Condition |
| Water transfers | Acquisitions by SWP contractors are wheeled at priority in Banks Pumping Plant over non-SWP users; LYRA included for SWP contractors ¹⁷ | Same as Existing Condition |
| Sharing of export capacity for lesser priority and wheeling-related pumping | Cross Valley Canal wheeling (max of 128 TAF/yr), CALFED ROD defined Joint Point of Diversion (JPOD) | Same as Existing Condition |
| San Luis Reservoir | San Luis Reservoir is allowed to operate to a minimum storage of 100 TAF | Same as Existing Condition |

| | Existing Condition ¹ | Future Condition |
|---|--|----------------------------|
| Sharing of Banks additional permitted capacity | 195 TAF of “make up” pumping to the extent it does not impact SWP operations through the remainder of the year. Not explicitly implemented in this model ²⁰ | Same as Existing Condition |
| CVPIA 3406(b)(2) | | |
| Policy decision | Per May 2003 Department of Interior decision | Same as Existing Condition |
| Allocation | No B2 actions modeled ⁹ | Same as Existing Condition |
| Actions | Pre-determined upstream fish flow objectives below Whiskeytown ⁹ | Same as Existing Condition |
| Accounting adjustments | No B2 Accounting modeled ⁹ | Same as Existing Condition |
| WATER MANAGEMENT ACTIONS | | |
| Water Transfer Supplies (long term programs) | | |
| Lower Yuba River Accord ¹⁷ | Yuba River acquisitions for reducing impact of ROC on LTO and ITP on SWP ^{9, 21} | Same as Existing Condition |
| Phase 8 | None | Same as Existing Condition |

Notes

- 1 These assumptions have been developed under the direction of the Department of Water Resources for the Delivery Capability Report (DCR) studies.
- 2 The Sacramento Valley hydrology used in the Future Conditions CALSIM II model reflects 2020 land-use assumptions associated with Bulletin 160-98. The San Joaquin Valley hydrology reflects draft 2030 land-use assumptions developed by Reclamation. Development of Future-level projected land-use are being coordinated with the California Water Plan Update for future models.
- 3 CVP contract amounts have been reviewed and updated according to existing and amended contracts, as appropriate. Assumptions regarding CVP agricultural and M&I service contracts and Settlement Contract amounts are listed in Table 12, Table 13, and Table 14 in respect of NOD, American River and SOD accordingly. Summary of CVP contract amounts are tabulated below.

| Project | North-of-the-Delta | South-of-the-Delta |
|--------------------------|--------------------|--------------------|
| Contractor Type | (TAF) | (TAF) |
| CVP Contractors | | |
| Settlement/Exchanges | 2291 | 840 |
| Water Service Contractor | | |
| Agriculture | 358 | 1937 |
| M&I | 360 | 164 |
| Refuges | 191 | 281 |

- 4 SWP contract amounts have been updated as appropriate based on recent Table A transfers/agreements. The contractors' table A entitlement is obtained from Bulletin 132. Assumptions regarding SWP agricultural and M&I contract amounts are listed in Table 15, Table 16, and Table 17 in respect of NOD, Delta and SOD accordingly. Summary of SWP contract amounts are tabulated below.

| Project | North-of-the-Delta | South-of-the-Delta |
|----------------------------|--------------------|--------------------|
| Contractor Type | (TAF) | (TAF) |
| SWP Contractors | | |
| Feather River Area + Delta | 1087 | 0 |
| Table A | 114 | 4056 |
| Agriculture | 0 | 1012 |
| M&I | 114 | 3044 |

- 5 Demand for rice straw decomposition water from Thermalito Afterbay was added to the model and updated to reflect historical diversion from Thermalito in the October through January period.
- 6 Water needs for Federal refuges have been reviewed and updated, as appropriate. Assumptions regarding firm Level 2 refuge water are listed in Table 12 and Table 13. Refuge Level 4 (and incremental Level 4) water is not included.
- 7 Assumptions regarding American River water rights and CVP contracts with the Sacramento River Water Reliability Project are listed in Table 13. The Sacramento Area Water Forum agreement, its dry year diversion reductions, Middle Fork Project operations and water is not included.
- 8 CalSim-II representation of the San Joaquin River (CalSim-II San Joaquin River Model, Reclamation, 2005). The model reflects the difficulties of on-going groundwater overdraft problems. The 2030 level of development representation of the San Joaquin River Basin does not make any attempt to offer solutions to groundwater overdraft problems. In addition, a dynamic groundwater simulation is not yet implemented here for the San Joaquin River Valley. Groundwater extraction/recharge and stream-groundwater interaction are static assumptions and may not accurately reflect a response to simulated actions. These limitations should be considered in the analysis of result.
- 9 Re-initiation of Consultation on long-term operations of the Central Valley Project (CVP) and State Water Project (SWP). <https://www.usbr.gov/mp/bdo/lto/index.html>
- 10 The actual amount diverted is operated in conjunction with supplies from the Los Vaqueros project. The existing Los Vaqueros storage capacity is 160 TAF. Associated water rights to fill Los Vaqueros with Delta excess flows are included,

but CCWD's water right permit and water right license on Mallard Slough are not included. The operation also includes in-Delta transfers.

- [11](#) It is assumed that SWP Contractors can take delivery of all Table A allocations and Article 21 supplies. Article 56 provisions are assumed and allow for SWP Contractors to manage storage and delivery conditions such that full Table A allocations can be delivered. Detailed analysis of the South Coast and Tulare regions support these assumptions. NBA Article 21 deliveries are dependent on excess conditions only, all other Article 21 deliveries also require that San Luis Reservoir be at capacity and that Banks PP and the California Aqueduct has available capacity to divert from the Delta for direct delivery.
- [12](#) This includes draft logic for the updated Allocation Settlement Agreement for four NOD contractors: Butte, Yuba, Napa and Solano.
- [13](#) PCWA American River pumping facility upstream of Folsom Lake is included.
- [14](#) Mokelumne River flows are modified to reflect modified operations associated with EBMUD supplies from the Freeport Regional Water Project.
- [15](#) Current ACOE permit for Banks PP allows for an average diversion rate of 6,680 cfs in all months. Diversion rate can increase up to 1/3 of the rate of San Joaquin River flow at Vernalis during Dec 15th – Mar 15th up to a maximum diversion of 10,300 cfs, if Vernalis flow exceeds 1,000 cfs.
- [16](#) In cooperation with Reclamation, National Marine Fisheries Service, Fish and Wildlife Service, and CA Department of Fish and Game, the CA Department of Water Resources has developed assumptions for implementation of the FWS BO (Dec 15th 2008) and NMFS BO (June 4th 2009) in CALSIM II. The FWS BO and NMFS BO assumptions are documented in the Appendix 5A of the LTO EIS (Reclamation 2015b).
- [17](#) Acquisitions of Component 1 water under the Lower Yuba River Accord and use of 500 cfs dedicated capacity at Banks PP during Jul – Sep, are assumed to be used to reduce as much of the impact of the Apr-May Delta export actions on SWP contractors as possible.
- [18](#) The CCWD Alternate Intake Project, an intake at Victoria Canal, which operates as an alternate Delta diversion for Los Vaqueros Reservoir. To be consistent with latest Los Vaqueros modeling; and intake WQ conditions updated based on DSM2.
- [19](#) D-1644 and the Lower Yuba River Accord is assumed to be implemented. The Yuba River is not dynamically modeled in CALSIM II. Yuba River hydrology and availability of water acquisitions under the Lower Yuba River Accord are based on modeling performed and the Lower Yuba River Accord EIS/EIR study team.
- [20](#) Coordinated Operation of the Central Valley project and the State Water Project Addendum. <https://www.usbr.gov/mp/cvo/coa-addendum-2018-12-12.pdf>
- [21](#) Incidental Take Permit (ITP) for Long-Term Operation of the State Water Project. <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Files/ITP-for-Long-Term-SWP-Operations.pdf>
- [22](#) The D1641 regulation is not modeled in CalSim II. However, DSM2 operates this gate from October to February which reduces the salinity below the D1641 standard below until May. Testimonial presented in California Water Fix hearing. Testimonial presented in California Water Fix hearing. https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/california_waterfix/exhibits/docs/petitioners_exhibit/dwr/part2/DWR-1015%20Testimony%20Smith.pdf

Table 12. CVP North of Delta Contract Amounts as modeled in CSII

| CVP CONTRACTOR | Geographic Location | CALSIM II Representation | | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights/Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) |
|----------------------------|-----------------------------------|--------------------------|---------|--------------------------------------|-------|---|-------------------------------|--------------------------|
| | | Diversion | Region | AG | M&I | | | |
| Anderson Cottonwood ID | Sacramento River Redding Subbasin | D104A | DSA 58 | | | 128.0 | | |
| Clear Creek CSD | | D104B | DSA 58 | 13.8 | 1.5 | | | |
| Bella Vista WD | | D104C | DSA 58 | 22.1 | 2.4 | | | |
| Shasta CSD | | D104D | DSA 58 | | 1.0 | | | |
| Sac R. Misc. Users | | D104F | DSA 58 | | | 3.4 | | |
| Redding, City of | | D104G | DSA 58 | | | 21.0 | | |
| City of Shasta Lake | | D104H | DSA 58 | 2.5 | 0.3 | | | |
| Mountain Gate CSD | | D104I | DSA 58 | | 0.4 | | | |
| Shasta County Water Agency | | D104J | DSA 58 | 0.5 | 0.5 | | | |
| Redding, City of/Buckeye | | D104K | DSA 58 | | 6.1 | | | |
| Total | | D104 | | | 38.9 | 12.2 | 152.4 | |
| Corning WD | Corning Canal | D171 | WBA 4 | 23.0 | | | | |
| Proberta WD | | D171 | WBA 4 | 3.5 | | | | |
| Thomes Creek WD | | D171 | WBA 4 | 6.4 | | | | |
| Total | | | | | 32.9 | 0.0 | 0.0 | |
| Kirkwood WD | Tehama-Colusa Canal | D172 | WBA 4 | 2.1 | | | | |
| Glide WD | | D174 | WBA 7N | 10.5 | | | | |
| Kanawha WD | | D174 | WBA 7N | 45.0 | | | | |
| Orland-Artois WD | | D174 | WBA 7N | 53.0 | | | | |
| Colusa, County of | | D178 | WBA 7S | 20.0 | | | | |
| Colusa County WD | | D178 | WBA 7S | 62.2 | | | | |
| Davis WD | | D178 | WBA 7S | 4.0 | | | | |
| Dunnigan WD | | D178 | WBA 7S | 19.0 | | | | |
| La Grande WD | | D178 | WBA 7S | 5.0 | | | | |
| Westside WD | | D178 | WBA 7S | 65.0 | | | | |
| Total | | | | | 285.8 | 0.0 | 0.0 | |
| Sac. River Misc. Users | Sacramento River | D113A | WBA 4 | | | 1.2 | | |
| Glenn Colusa ID | Glenn-Colusa Canal | D143A | WBA 8NN | | | 441.5 | | |
| | | D145A | WBA 8NS | | | 383.5 | | |
| Sacramento NWR | | D143B | WBA 8NN | | | | | 54.5 |
| Delevan NWR | | D145B | WBA 8NS | | | | | 24.6 |
| Colusa NWR | | D182B | WBA 8NS | | | | | 29.3 |
| Colusa Drain M.W.C. | Colusa Basin Drain | D180 | WBA 8NN | | | 0.0 | | |
| | | D182A/D18302 | WBA 8NS | | | Average ~41.2 | | |
| Total | | | | 0.0 | 0.0 | 866.2 | | 108.4 |

| CVP CONTRACTOR | Geographic Location | CALSIM II Representation | | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights/Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) |
|--|------------------------------------|--------------------------|---------|--------------------------------------|-----|---|-------------------------------|--------------------------|
| | | Diversion | Region | AG | M&I | | | |
| Princeton-Cordova-Glenn ID / Provident ID / Maxwell ID / Sac R. Misc. Users | Sacramento River | D122A | WBA 8NS | | | 149.9 | | |
| Maxwell ID / Sycamore Family Trust / Roberts Ditch IC / Reclamation District 108 / Sac R. Misc. Users | | D122B | WBA 8NS | | | 149.8 | | 0.0 |
| Total | | | | | | 299.7 | | |
| Reclamation District 108 / River Garden Farms / Sac R. Misc. Users | Sacramento River | D129A | WBA 8S | | | 261.2 | | |
| Meridian Farms WC / Pelger Mutual WC / Reclamation District 1004 / Carter MWC / Sutter MWC / Tisdale Irrigation & Drainage Co. | | D128 | DSA 15 | | | 479.31 | | |
| Feather River WD export | | D128 | DSA 15 | 0.0 | | | | |
| Total | | | | 0.0 | 0.0 | 740.5 | | 0.0 |
| Sutter NWR | Sutter bypass water for Sutter NWR | C136B | DSA 69 | | | | | 25.7 |
| Gray Lodge WMA | Feather River | C216B | DSA 69 | | | | | 41.3 |
| Butte Sink Duck Clubs | | C221 | DSA 69 | | | | | 15.6 |
| Total | | | | | 0.0 | 0.0 | 0.0 | |
| Sac R. Misc. Users | Sacramento River | D163 | DSA 65 | | | 56.8 | | |
| City of West Sacramento | | D165 | DSA 65 | | | 23.6 | | |
| Davis-Woodland Water Supply Project | | D165 | DSA 65 | | | | | |

| CVP CONTRACTOR | Geographic Location | CALSIM II Representation | | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights/Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) |
|---|------------------------|--------------------------|--------|--------------------------------------|------|---|-------------------------------|--------------------------|
| | | Diversion | Region | AG | M&I | | | |
| Total | | | | 0.0 | 0.0 | 80.4 | | 0.0 |
| Sac R. Misc. Users | Lower Sacramento River | D162A | DSA 70 | | | 4.8 | | |
| Natomas Central MWC | | D162B | DSA 70 | | | 120.2 | | |
| Pleasant Grove-Verona MWC | | D162C | DSA 70 | | | 26.3 | | |
| City of Sacramento | | D162D | DSA 70 | | 0.0 | | 0.0 | |
| Placer County Water Agency (Sac Suburban, Roseville and others) | | D162E | DSA 70 | | 0.0 | | 0.0 | |
| Total | | | | | 0.0 | 151.3 | 0.0 | |
| Total CVP North-of-Delta | | | | 357.6 | 12.2 | 2291.7 | 0.0 | 191.1 |

Table 13. CVP Contract and Water Right Amounts for American River as modeled in CSII

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement/ Exchange Contractor (TAF/yr) | Water Rights/ Non-CVP (TAF/yr) | Diversion Limit Capacity) (TAF/Yr) |
|--|------------------------|---------------------|--------------------------------------|------|--|--------------------------------|------------------------------------|
| | | | AG | M&I1 | | | |
| Placer County Water Agency | Auburn Dam Site | D300 | | 0.0 | | 65.0 | 65.0 |
| | | | | | | | |
| Sacramento Suburban Water District2 | Folsom Reservoir | D8A | | | | 0.0 | 0.0 |
| City of Folsom (includes P.L. 101-514) | | D8B | | 7.0 | | 27.0 | 34.0 |
| Folsom Prison | | D8C | | | | 5.0 | 5.0 |
| San Juan Water District (Placer County) | | D8D | | | | 25.0 | 25.0 |
| San Juan Water District (Sac County) (includes P.L. 101-514) | | D8E | | 24.2 | | 33.0 | 57.2 |
| El Dorado Irrigation District | | D8F | | 7.55 | | 17.0 | 7.55 |
| City of Roseville | | D8G | | 32.0 | | 30.0 | 62.0 |
| Placer County Water Agency | | D8H | | 35.0 | | | 35 |
| El Dorado County (P.L. 101-514) | | D8I | | 15.0 | | | 0.0 |
| Total | | | | 0.0 | 120.8 | 0.0 | 137.0 |
| | | | | | | | |
| So. Cal WC/ Arden Cordova WC | Folsom South Canal | D9AA | | | | 5.0 | 5.0 |
| California Parks and Recreation | | D9AB | | 5.0 | | | 5.0 |
| SMUD (export) | | D9B | | 30.0 | | 15.0 | 45.0 |
| Canal Losses | | D9A | | | | 1.0 | 1.0 |
| Total | | | 0.0 | 35.0 | 0.0 | 21.0 | 56.0 |
| | | | | | | | |
| City of Sacramento | Lower American River | D302A | | | | 230.0 | 230.0 |
| Carmichael Water District | | D302C | | | | 12.0 | 12.0 |
| Total | | | 0.0 | 0.0 | 0.0 | 240 | 240 |
| | | | | | | | |
| City of Sacramento | Lower Sacramento River | D167A | | 0.0 | | 81.8 | 311.8 |
| Sacramento County Water Agency (includes SMUD transfer) | | D167B | | 10.0 | | | 10 |
| | | D168C | | 35.0 | | | 35. |

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement/ Exchange Contractor (TAF/yr) | Water Rights/ Non-CVP (TAF/yr) | Diversion Limit Capacity) (TAF/Yr) |
|---|---------------------|---------------------|--------------------------------------|-------|--|--------------------------------|------------------------------------|
| | | | AG | M&I1 | | | |
| Sacramento County Water Agency (P.L. 101- 514) | | D168C | | 15.0 | | | 15 |
| Sacramento County Water Agency - assumed Appropriated Water | | D168C | | | | Varies Average ~17 TAF | 18 |
| EBMUD (export) | | D168B | | 133.0 | | | |
| Total | | | 0.0 | 193.0 | 0.0 | 98.8 | 522.8 |
| Total (American R) | | | | 0.0 | 348.8 | 0.00 | 551.8 |

Table 14. CVP South of Delta Contract Amounts as modeled in CSII

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights / Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) | Losses (TAF/yr) |
|--------------------------------|---------------------|---------------------|--------------------------------------|------|---|---------------------------------|--------------------------|-----------------|
| | | | AG | M&I | | | | |
| Byron-Bethany ID | Upper DMC | D700 | 20.6 | | | | | |
| Tracy, City of | | D700 | | 10.0 | | | | |
| | | D700 | | 5.0 | | | | |
| | | D700 | | 5.0 | | | | |
| Banta Carbona ID | | D700 | 20.0 | | | | | |
| Total | D700 | 40.6 | 20.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| <hr/> | | | | | | | | |
| Del Puerto WD | Upper DMC | D701 | 12.1 | | | | | |
| Davis WD | | D701 | 5.4 | | | | | |
| Foothill WD | | D701 | 10.8 | | | | | |
| Hospital WD | | D701 | 34.1 | | | | | |
| Kern Canon WD | | D701 | 7.7 | | | | | |
| Mustang WD | | D701 | 14.7 | | | | | |
| Orestimba WD | | D701 | 15.9 | | | | | |
| Quinto WD | | D701 | 8.6 | | | | | |
| Romero WD | | D701 | 5.2 | | | | | |
| Salado WD | | D701 | 9.1 | | | | | |
| Sunflower WD | | D701 | 16.6 | | | | | |
| West Stanislaus WD | | D701 | 50.0 | | | | | |
| Patterson WD | | D701 | 16.5 | | | 6.0 | | |
| Total | | D701 | 206.7 | 0.0 | 0.0 | 6.0 | 0.0 | 212.7 |
| <hr/> | | | | | | | | |
| Upper DMC Loss | Upper DMC | D702 | | | | | | 18.5 |
| <hr/> | | | | | | | | |
| Panoche WD | Lower DMC Volta | D706 | 6.6 | | | | | |
| San Luis WD | | D706 | 65.0 | | | | | |
| Laguna WD | | D706 | 0.8 | | | | | |
| Eagle Field WD | | D706 | 4.6 | | | | | |
| Mercy Springs WD | | D706 | 2.8 | | | | | |
| Oro Loma WD | | D706 | 4.6 | | | | | |
| Total | D706 | 84.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| <hr/> | | | | | | | | |
| Upper DMC Exchange Contractors | Lower DMC Volta | D707 | | | | | | |
| Central California ID | Lower DMC Volta | D707 | | | 140.0 | | | |
| Grasslands via CCID | Lower DMC Volta | D708 | | | | | 81.8 | |
| Los Banos WMA | Lower DMC Volta | D708 | | | | | 11.2 | |
| Kesterson NWR | Lower DMC Volta | D708 | | | | | 10.5 | |
| Freitas - SJBAP | Lower DMC Volta | D708 | | | | | 6.3 | |
| Salt Slough - SJBAP | Lower DMC Volta | D708 | | | | | 8.6 | |
| China Island - SJBAP | Lower DMC Volta | D708 | | | | | 7.0 | |
| Volta WMA | Lower DMC Volta | D708 | | | | | 13.0 | |

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights / Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) | Losses (TAF/yr) |
|------------------------------|-----------------------------------|---------------------|--------------------------------------|-------|---|---------------------------------|--------------------------|-----------------|
| | | | AG | M&I | | | | |
| Grassland via Volta Wasteway | | D708 | | | | | 23.2 | |
| Total | | D708 | 0.0 | 0.0 | 140.0 | 0.0 | 161.5 | 0.0 |
| Fresno Slough WD | San Joaquin River at Mendota Pool | D607A | 4.0 | | | 0.9 | | |
| James ID | | D607A | 35.3 | | | 9.7 | | |
| Coelho Family Trust | | D607A | 2.1 | | | 1.3 | | |
| Tranquillity ID | | D607A | 13.8 | | | 20.2 | | |
| Tranquillity PUD | | D607A | 0.1 | | | 0.1 | | |
| Reclamation District 1606 | | D607A | 0.2 | | | 0.3 | | |
| Exchange Contractors | | D607B | | | | | | |
| Central California ID | | D607B | | | 392.4 | | | |
| Columbia Canal Co. | | D607B | | | 59.0 | | | |
| Firebaugh Canal Co. | | D607B | | | 85.0 | | | |
| San Luis Canal Co. | | D607B | | | 23.6 | | | |
| M.L. Dudley Company | | D607B | | | | 2.3 | | |
| Grasslands WD | | D607C | | | | | 29.0 | |
| Mendota WMA | | D607C | | | | | 27.6 | |
| Losses | | D607D | | | | | | 101.5 |
| Total | | D607 | 55.5 | 0.0 | 560.0 | 34.8 | 56.6 | 101.5 |
| Exchange Contractors | San Joaquin River at Sack Dam | D608B | | | | | | |
| San Luis Canal Co. | | D608B | | | 140.0 | | | |
| Grasslands WD | | D608C | | | | | 2.3 | |
| Los Banos WMA | | D608C | | | | | 12.4 | |
| San Luis NWR | | D608C | | | | | 19.5 | |
| West Bear Creek NWR | | D608C | | | | | 7.5 | |
| East Bear Creek NWR | | D608C | | | | | 8.9 | |
| Total | D608 | 0.0 | 0.0 | 140.0 | 0.0 | 50.6 | 0.0 | |
| San Benito County WD (Ag) | San Felipe | D710 | 35.6 | | | | | |
| Santa Clara Valley WD (Ag) | | D710 | 33.1 | | | | | |
| Pajaro Valley WD | | D710 | 6.3 | | | | | |
| San Benito County WD (M&I) | | D711 | | 8.3 | | | | |
| Santa Clara Valley WD (M&I) | | D711 | | 119.4 | | | | |
| Total | | D710/D711 | 74.9 | 127.7 | 0.0 | 0.0 | 0.0 | 0.0 |

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights / Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) | Losses (TAF/yr) |
|---------------------------------|-------------------------------|---------------------|--------------------------------------|------|---|---------------------------------|--------------------------|-----------------|
| | | | AG | M&I | | | | |
| San Luis WD | CA reach 3 | D833 | 60.1 | | | | | |
| CA, State Parks and Rec | | D833 | 2.3 | | | | | |
| Affonso/Los Banos Gravel Co. | | D833 | 0.3 | | | | | |
| Total | | D833 | 62.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Panoche WD | CVP Dos Amigos PP/ CA reach 4 | D835 | 87.4 | | | | | |
| Pacheco WD | | D835 | 10.1 | | | | | |
| Total | | D835 | 97.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Westlands WD (Centinella WD) | CA reach 4 | D836 | 2.5 | | | | | |
| Westlands WD (Broadview WD) | | D836 | 27.0 | | | | | |
| Westlands WD (Mercy Springs WD) | | D836 | 4.2 | | | | | |
| Westlands WD (Widern WD) | | D836 | 3.0 | | | | | |
| Total | | D836 | 36.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Westlands WD: CA Joint Reach 4 | CA reach 4 | D837 | 219.0 | | | | | |
| Westlands WD: CA Joint Reach 5 | CA reach 5 | D839 | 570.0 | | | | | |
| Westlands WD: CA Joint Reach 6 | CA reach 6 | D841 | 219.0 | | | | | |
| Westlands WD: CA Joint Reach 7 | CA reach 7 | D843 | 142.0 | | | | | |
| Total | | | 1150.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Avenal, City of | CA reach 7 | D844 | | 3.5 | | 3.5 | | |
| Coalinga, City of | | D844 | | 10.0 | | | | |
| Huron, City of | | D844 | | 3.0 | | | | |
| Total | | D844 | 0.0 | 16.5 | 0.0 | 3.5 | 0.0 | 0.0 |
| CA Joint Reach 3 - Loss | CVP Dos Amigos PP/CA reach 3 | D834 | | | | | | 2.5 |
| CA Joint Reach 4 - Loss | CA reach 4 | D838 | | | | | | 10.1 |
| CA Joint Reach 5 - Loss | CA reach 5 | D840 | | | | | | 30.1 |
| CA Joint Reach 6 - Loss | CA reach 6 | D842 | | | | | | 12.5 |

| CVP CONTRACTOR | Geographic Location | CALSIM II Diversion | CVP Water Service Contracts (TAF/yr) | | Settlement / Exchange Contractor (TAF/yr) | Water Rights / Non-CVP (TAF/yr) | Level 2 Refuges (TAF/yr) | Losses (TAF/yr) | |
|--|---------------------|---------------------|--------------------------------------|--------|---|---------------------------------|--------------------------|-----------------|-------|
| | | | AG | M&I | | | | | |
| CA Joint Reach 7 - Loss | CA reach 7 | D845 | | | | | | 8.5 | |
| Total | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 63.7 | |
| Cross Valley Canal - CVP | CA reach 14 | | | | | | | | |
| Fresno, County of Hills Valley ID-Amendatory | | D855 | 3.0 | | | | | | |
| Kern-Tulare WD | | D855 | 40.0 | | | | | | |
| Lower Tule River ID | | D855 | 31.1 | | | | | | |
| Pixley ID | | D855 | 31.1 | | | | | | |
| Rag Gulch WD | | D855 | 13.3 | | | | | | |
| Tri-Valley WD | | D855 | 1.1 | | | | | | |
| Tulare, County of Kern NWR | | D855 | 5.3 | | | | | | |
| Pixley NWR | | D856 | | | | | 11.0 | | |
| Total | | | | 128.3 | 0.0 | 0.0 | 0.0 | 12.3 | 0.0 |
| Total CVP South-of-Delta | | | | 1937.1 | 164.2 | 840.0 | 44.3 | 281.1 | 183.7 |

Table 15. SWP North of Delta Contract Amounts as modeled in CSII

| SWP CONTRACTOR | Geographic Location | CALSIM II Diversion | FRSA Amount (TAF) | Water Right (TAF/yr) | Table A Amount (TAF) | | Max Article 21 Demand (TAF/yr) | Other (TAF/yr) |
|---|---------------------|---------------------|-------------------|----------------------|----------------------|------|--------------------------------|----------------|
| | | | | | Ag | M&I | | |
| Feather River | | | | | | | | |
| Palermo | FRSA | D6 | | 17.6 | | | | |
| County of Butte | Feather River | D201 | | | | 27.5 | | |
| Thermalito | FRSA | D202 | | 8.0 | | | | |
| Western Canal | FRSA | D7A | 150.0 | 145.0 | | | | |
| Joint Board | FRSA | D7B | 550.0 | 5.0 | | | | |
| City of Yuba City | Feather River | D204 | | | | 9.6 | 1.43 | |
| Feather WD | FRSA | D206A | 17.0 | | | | | |
| Garden, Oswald, Joint Board | FRSA | D206B | | | | | | |
| Garden | FRSA | D206BA | 12.9 | 5.1 | | | | |
| Oswald | FRSA | D206BB | 2.9 | | | | | |
| Joint Board | FRSA | D206BC | 50.0 | | | | | |
| Plumas, Tudor | FRSA | D206C | | | | | | |
| Plumas | FRSA | D206CA | 8.0 | 6.0 | | | | |
| Tudor | FRSA | D206CB | 5.1 | 0.2 | | | | |
| Rice Decom | FRSA | D7C | 291.1 | | | | | |
| Total Feather River Area | | | 1086.9 | 186.9 | 0.0 | 37.1 | | |
| Other | | | | | | | | |
| Yuba County Water Agency | Yuba River | D230 | | | | | | Variable 333.6 |
| Camp Far West ID | Yuba River | D285 | | | | | | 12.6 |
| Bear River Exports | American R/DSA70 | D283 | | | | | | Variable 95.2 |
| Feather River Exports to American River | American R/DSA70 | D223 | | 11.0 | | | | |

Table 16. SWP Delta Contract Amounts as modeled in CSII

| SWP CONTRACTOR | Geographic Location | CALSIM II Diversion | Water Right (TAF/yr) | SWP Table A Amount (TAF) | | SWP Max Article 21 Demand (TAF/yr) | CVP Water Service Contracts (TAF/yr) | |
|--|---------------------|---------------------|----------------------|--------------------------|-------|------------------------------------|--------------------------------------|-------|
| | | | | Ag | M&I | | AG | M&I |
| North Delta | | | | | | | | |
| City of Vallejo | City of Vallejo | D403A | | | | | | 16.0 |
| CCWD | Contra Costa County | D420 | | | | | | 195.0 |
| Napa County FC&WCD | North Bay Aqueduct | D403B | | | 29.03 | 7.71 | | |
| Solano County WA | North Bay Aqueduct | D403C | | | 47.76 | 21.83 | | |
| Fairfield, Vacaville and Benicia Agreement | North Bay Aqueduct | D403D | 31.60 | | | | | |
| City of Antioch | City of Antioch | D406B | 18.0 | | | | | |
| Total North Delta | | | 49.6 | 0.0 | 76.79 | 29.55 | 0.0 | 211.0 |
| | | | | | | | | |
| South Delta | | | | | | | | |
| Delta Water Supply Project | City of Stockton | D514A | 32.4 | | | | | |
| Total South Delta | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | | | | | | | |
| Total | | | 82.0 | 0.0 | 76.79 | 29.55 | 0.0 | 211.0 |

Table 17. SWP South of Delta Contract Amounts as modeled in CSII

| SWP CONTRACTOR | Geographic Location/ Reaches Used | CALSIM II Diversion | Table A Amount (TAF) | | SWP Max Article 21 Demand (TAF/yr) | Losses (TAF/yr) |
|------------------------------|--|------------------------|----------------------|---------|--|--------------------|
| | | | Ag | M&I | | |
| Alameda Co. FC&WCD, Zone 7 | SBA reaches 1-4 | D810 | | 80.62 | | |
| | SBA reaches 5-6 | D813 | | | | |
| | | Total | | 80.62 | | |
| Alameda County WD | SBA reaches 7-8 | D814 | | 42.00 | 2.35 | |
| Santa Clara Valley WD | SBA reach 9 | D815 | | 100.00 | 32.12 | |
| Oak Flat WD | CA reach 2A | D802 | 5.70 | | 0.05 | |
| County of Kings | CA reaches 6-8D | D847 | 9.31 | | 13.58 | |
| Dudley Ridge WD | CA reach 8D | D849 | 45.35 | | 37.32 | |
| Empire West Side ID | CA reach 8C | D846 | 3.00 | | 2.16 | |
| | | | | | | |
| Kern County Water Agency | CA reaches 3, 9-13B | D851 | 608.86 | 134.60 | | |
| | CA reaches 14A-C | D859 | 99.20 | | 543.69 | |
| | CA reaches 15A-16A | D863 | 59.40 | | | |
| | CA reach 31A | D867 | 80.67 | | | |
| | | Total | | 848.13 | 134.60 | 543.69 |
| Tulare Lake Basin WSD | CA reaches 8C-8D | D848 | 87.47 | | 69.67 | |
| San Luis Obispo Co. FC&WCD | CA reaches 33A-35 | D869 | | 25.00 | 0.99 | |
| Santa Barbara Co. FC&WCD | CA reach 33A | D870 | | 45.49 | 8.17 | |
| Antelope Valley-East Kern WA | CA reaches 18a, 19-20B, 22A-B, 29A, 29F | D877 | | 144.84 | 26.52 | |
| | | | | | | |
| Santa Clarita Valley WA | CA reach 31A | D868 | 12.70 | | 2.94 | |
| | CA reach 30 | D896 | | 82.50 | | |
| | | Total | 12.70 | 82.50 | 2.94 | |
| | | | | | | |
| Coachella Valley WD | CA reach 26A, 28H, 28J | D883 | | 138.35 | 14.54 | |
| Crestline-Lake Arrowhead WA | CA reach 24 | D25 | | 5.80 | | |
| Desert WA | CA reach 26A, 26H | D884 | | 55.57 | 5.86 | |
| Littlerock Creek ID | CA reach 21 | D879 | | 2.30 | | |
| Mojave WA | CA reaches 19, 20A 22B, 24 | D881 | | 85.80 | | |
| Metropolitan WDSC | CA reach 26A | D885 | | 1911.50 | 129.78 | |
| | CA reach 30 | D895 | | | 107.03 | |
| | CA reaches 28G-H | D899 | | | 39.49 | |
| | CA reach 28J | D27 | | | 9.87 | |
| | CA reaches 10A, 12E, 14C | D851B | | | | |

| SWP CONTRACTOR | Geographic Location/ Reaches Used | CALSIM II Diversion | Table A Amount (TAF) | | SWP Max Article 21 Demand (TAF/yr) | Losses (TAF/yr) |
|---------------------------|---|------------------------|----------------------|---------|--|--------------------|
| | | | Ag | M&I | | |
| | | Total | | 1911.50 | 286.17 | |
| | | | | | | |
| Palmdale WD | CA reaches 20A-B | D878 | | 21.30 | 1.98 | |
| San Bernardino Valley MWD | CA reach 24 | D886 | | 102.60 | 4.41 | |
| San Gabriel Valley MWD | CA reach 26A | D887 | | 28.80 | 5.52 | |
| San Geronio Pass WA | CA reach 26A | D888 | | 17.30 | 0.02 | |
| | | | | | | |
| Ventura County FCD | CA reach 29H | D28 | | 3.15 | | |
| | CA reach 30 | D29 | | 16.85 | 40.92 | |
| | Total | | | 20.00 | 40.92 | |
| | | | | | | |
| SWP Losses | CA reaches 1-2 | D803 | | | | 7.70 |
| | SBA reaches 1-9 | D816 | | | | 0.60 |
| | CA reach 3 | D824 | | | | 10.80 |
| | CA reach 4 | D826 | | | | 2.60 |
| | CA reach 5 | D827 | | | | 3.90 |
| | CA reach 6 | D828 | | | | 1.20 |
| | CA reach 7 | D829 | | | | 1.60 |
| | CA reaches 8C-13B | D854 | | | | 11.90 |
| | Wheeler Ridge PP and CA reaches 14A-C | D862 | | | | 3.60 |
| | Chrisman PP and CA reaches 15A-18A | D864 | | | | 1.80 |
| | Pearblossom PP and CA reaches 17-21 | D880 | | | | 5.10 |
| | Mojave PP and CA reaches 22A-23 | D882 | | | | 4.00 |
| | REC and CA reaches 24-28J | D889 | | | | 1.40 |
| | CA reaches 29A-29F | D891 | | | | 1.90 |
| | Castaic PWP and CA reach 29H | D893 | | | | 3.10 |
| | REC and CA reach 30 | D894 | | | | 2.40 |
| Total | | | | | | 63.60 |
| | | | | | | |
| Total | | | 1011.66 | 3044.37 | 1100.09 | 63.6 |

Key:

ACOE = Army Corps of Engineers
Ag = agricultural
BDCP = Bay-Delta Conservation Plan
BO = Biological Opinion
CALFED = CALFED Bay-Delta Program
CCWD = Contra Costa Water District
cfs = cubic feet per second
CVP = Central Valley Project
CVPIA = Central Valley Project Improvement Act
D-xxxx = Water Right Decision
CDFW = California Department of Fish and Game
DMC = Delta-Mendota canal
DWR = California Department of Water Resources
EBMUD = East Bay Municipal Utility District
EIS = Environmental Impact Statement
FC&WSD = Flood Control and Water Service District
FERC = Federal Energy Regulatory Commission
FRSA = Feather River Service Area
FRWP = Freeport Regional Water Project
FWS = Fish and Wildlife Service
KCWA = Kern County Water Agency
LYRA = Lower Yuba River Accord
MAF/yr = million acre-feet per year
M&I = municipal and industrial
MWD = Metropolitan Water District
NAA = No Action Alternative
NEPA = National Environmental Policy Act
NMFS = National Marine Fisheries Service
NPS = National Park Service
PCWA = Placer County Water Agency
PP = Pumping Plant
Reclamation = United States Department of the Interior, Bureau of Reclamation
ROD = Record of Decision
SBA = South Bay Aqueduct
SWP = State Water Project
SWRCB = State Water Resources Control Board
TAF = thousand acre-feet
TAF/month = thousand acre-feet per month
TAF/yr = thousand acre-feet per year
USFWS = United States Fish and Wildlife Service
VAMP = Vernalis Adaptive Management Plan
WR = water right
yr = year

Model Input Data

Article 21 Demands – Existing Conditions

The Article 21 demands used in the 2019 SWP Delivery Capability Report (DCR) are shown in Table 18 and Table 19. These demands are different from those used in the 2017 DCR Report. Table 18 shows the maximum monthly Article 21 caps that were assumed during normal hydrology conditions and Table 19 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 – 2003 (1941, 1952, 1969, 1978, 1980, 1983, 1986, 1995, and 1998).

Table 18. 2019 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 20). The actual capability of SWP water contractors to take this amount of Article 21 is not the sum of these maximum monthly values.

Table 19. 2019 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 20 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 20 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 20. 2019 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 |
| LITTLEROCK 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 |

| 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% |
|-------------------------------|---|---|
| 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 | 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 storage used in the 2019 DCR is shown in Table 21. This data is different to that used in the 2017 DCR Report. 60% demand patterns are now also included where previously only 100%, 50%, and 30% patterns were considered.

The 2019 DCR Table A amounts reflect the 2019 maximum Table A contract as reported in the California State Water Project Bulletin 132-18¹. 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_2019DCR_August2020.xlsm).

¹ Management of the California State Water Project Bulletin 132-18: Appendix B – Data and Computations Used to Determine 2019 Water Charges

https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Management/Bulletin-132/Bulletin-132/Files/B132-18-Appendix_B.pdf

Table 21. 2019 DCR Table A Demand and Article 56 Carryover (Existing 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 | 37.75 | 30.84 | 15.98 | 14.94 | 10.62 |
| ALAMEDA COUNTY WD | 42.00 | 29.51 | 14.70 | 13.60 | 6.18 | 12.49 | 10.50 | 7.40 | 6.42 |
| ANTELOPE VALLEY-EAST KERN WA | 144.84 | 81.39 | 64.80 | 57.75 | 35.25 | 63.45 | 22.10 | 14.67 | 8.21 |
| SANTA CLARITA WA - AG | 12.70 | 12.70 | 7.62 | 1.52 | 0.11 | | | 4.83 | 3.70 |
| CITY OF YUBA CITY | 9.60 | 4.80 | 3.47 | 3.62 | 2.88 | 4.80 | 2.29 | 1.18 | |
| COACHELLA VALLEY WD | 138.35 | 69.18 | 66.87 | 57.65 | 41.51 | 69.18 | 16.14 | 11.53 | |
| COUNTY OF BUTTE | 27.50 | 27.50 | 16.50 | 13.75 | 8.25 | | | | |
| COUNTY OF KINGS | 9.31 | 9.31 | 5.58 | 4.65 | 2.79 | | | | |
| CRESTLINE-LAKE ARROWHEAD WA | 5.80 | 2.90 | 1.97 | 1.93 | 0.98 | 2.90 | 1.51 | 0.97 | 0.76 |
| DESERT WA | 55.75 | 27.88 | 26.95 | 22.30 | 16.73 | 27.88 | 6.50 | 5.58 | |
| DUDLEY RIDGE WD | 45.35 | 33.76 | 19.95 | 16.51 | 10.42 | 11.59 | 7.26 | 6.17 | 3.18 |
| EMPIRE WEST SIDE ID | 3.00 | 2.63 | 1.63 | 1.38 | 0.86 | 0.38 | 0.17 | 0.12 | 0.04 |
| KERN COUNTY WA - AG | 848.13 | 766.73 | 483.15 | 410.77 | 249.39 | 81.40 | 25.73 | 13.29 | 5.05 |
| LITTLEROCK CREEK ID | 2.30 | 2.30 | 1.38 | 1.15 | 0.69 | | | | |
| METROPOLITAN WDSC | 1911.50 | 1711.50 | 1032.12 | 855.75 | 473.45 | 200.00 | 114.78 | 100.00 | 100.00 |
| MOJAVE WA | 85.80 | 48.12 | 26.91 | 31.89 | 19.59 | 37.68 | 24.57 | 11.01 | 6.15 |
| NAPA COUNTY FC&WCD | 29.03 | 17.68 | 9.43 | 7.26 | 4.00 | 11.35 | 7.98 | 7.26 | 4.71 |
| OAK FLAT WD | 5.70 | 2.98 | 1.91 | 1.82 | 1.25 | 2.72 | 1.51 | 1.03 | 0.46 |
| PALMDALE WD | 21.30 | 21.30 | 8.54 | 8.74 | 5.07 | | 4.24 | 1.91 | 1.32 |
| SAN BERNARDINO VALLEY MWD | 102.60 | 92.60 | 55.62 | 46.38 | 27.89 | 10.00 | 5.94 | 4.92 | 2.89 |
| SAN GABRIEL VALLEY MWD | 28.80 | 28.80 | 17.28 | 14.40 | 8.64 | | | | |
| SAN GORGONIO PASS WA | 17.30 | 13.14 | 8.94 | 7.56 | 4.53 | 4.16 | 1.44 | 1.09 | 0.66 |
| SAN LUIS OBISPO COUNTY FC&WCD | 25.00 | 13.59 | 7.34 | 7.08 | 3.64 | 11.41 | 7.66 | 5.43 | 3.86 |
| SANTA BARBARA COUNTY FC&WCD | 45.49 | 34.96 | 26.00 | 21.97 | 13.65 | 10.53 | 1.29 | 0.77 | |
| SANTA CLARA VALLEY WD | 100.00 | 80.74 | 56.18 | 46.99 | 28.80 | 19.26 | 3.82 | 3.01 | 1.20 |
| SOLANO COUNTY WA | 47.76 | 23.89 | 18.12 | 17.91 | 11.98 | 23.87 | 10.53 | 5.97 | 2.35 |
| TULARE LAKE BASIN WSD | 87.47 | 87.47 | 52.48 | 43.74 | 26.24 | | | | |
| VENTURA COUNTY WPD | 20.00 | 20.00 | 12.00 | 10.00 | 6.00 | | | | |
| KERN COUNTY WA - MI | 134.60 | 134.60 | 80.76 | 67.30 | 40.38 | | | | |
| SANTA CLARITA WA - MI | 82.50 | 34.41 | 31.12 | 36.42 | 24.75 | 48.09 | 18.38 | 4.83 | |
| Total | 4,170.09 | 3,502.02 | 2,197.11 | 1,862.61 | 1,091.88 | 668.06 | 304.94 | 222.43 | 159.15 |

Documentation on the Updated CalSim II State Water Project Table A, Carryover, and Article 21 Demands and Demand Patterns

Objectives

- Update Table A, Carryover, and Article 21 demand and demand pattern wresl input files and SV demand timeseries
 - Add 60% allocation demand and demand patterns
- Explain the corresponding code changes performed on Article 21 and Carryover deliveries

Methods

Data Sources

- Bulletin 132-18 Max Table A amounts
- 2005-2018 State Water Project Analysis Office (SWPAO) Water File Historical Deliveries, Detailed
- 2014-2019 Initial Requests for Table A and Carryover water (30%, 50%, 60%, and 100% demand and demand patterns)
- 2011, 2017, and 2019 Article 21 Annual Requests – This data was considered per the DCR 2019 Draft Final Contractor Comments.

Tools

- FIXED_BST_SWP_SOD_2019DCR_August2020_Public – The same tool used for DCR 2017 was used and modified accordingly.
- Article21_Patterns_2019DCR_August2020_Public – A new tool was developed solely for the development of Article 21 monthly and annual demands.

Table A and Article 56

- Reviewed **Bulletin 132-18** with the Input Assumptions Max Table A amounts
- Took average of **2014-2019 Initial Requests**
 - However, sometimes the % allocation would be exceeded (averaged 50% Table A and CO demands would exceed 50% of the contractor’s max Table A amount). This is because some contractors only request CO in 1 or 2 years, which would skew the CO demands on the higher side. When this happens, the Table A demands were obtained first, then the CO would be adjusted last to make sure the % allocation was not exceeded. The CO demand will never exceed the max throughout the 2014-2019 initial request data. Some contractor demands are variable annually more than those of other contractors. This was also considered when updating CO demand.

Carryover delivery periods were also refined based on historical data patterns. This is provided in section, “Article 56 deliveries refinements”.

Article 21

- Updated Article 21 annual and monthly delivery patterns according to SWP historical deliveries (2005-2018) and historical requests (2011, 2017, and 2019).
 - Added new lookup table that sets annual Article 21 cap for each contractor
 - Added new SV timeseries for the following delivery arcs. WRESL code was modified accordingly to accommodate the new Article 21 demands:
 - D29 – Ventura County
 - D887 – San Gabriel Valley
 - D847 – County of Kings
 - D870 – Santa Barbara Co. FC&WCD
 - D403C – Solano County Water Agency
 - D204 – Yuba City
 - D802A – Oak Flat Water Agency
 - D878 – Palmdale
 - D886 – San Bernardino Valley
 - D888 – San Geronio Pass
 - D869 – San Luis Obispo County

Updating the SWP Table A and Article 56 Demands

Summary of steps

1. Obtain **initial request demand patterns** data from SWPAO
2. Obtain **Bulletin 132-18 Appendix B Table B-4**
3. Update the “**FIXED_BST_SWP_SOD_2019DCR_August2020_Public**” Excel workbook with the latest maximum Table A contractual amounts and demand patterns data from 30, 50, 60, and 100 percent allocation – This is arguably the most time-consuming part because of the data-entry nature of this process.
4. Go to the “**Control**” sheet to choose your output wresl tables directory
5. Take the new input table files from the Excel workbook and replace the ones in `\conv\Run\Lookup`, `\conv\Run\Lookup\origWSI`, and `\conv\Run\Lookup\WSIDtraining`
6. Regenerate WSI-DI curves
7. Run actual final study

Table A and Article 56 demands were obtained from SWPAO. SWP contractors send their demand patterns based on four percent allocations: 30, 50, 60, and 100%. The latest dataset used to generate the CalSim II demand patterns tables included initial requests from 2014-2019.

The initial request demand patterns were inputted into the “**FIXED_BST_SWP_SOD**” Excel workbook. That workbook contains sheets for all four percent allocations (100, 60, 50, 30%). For example, sheet “100” contains 100% allocation demand patterns that contractors sent to SWPAO. All the other sheets labelled with “100_...” or “..._100” post-process that raw initial request demand patterns for a certain percent allocation. The same process is applied to the other three percent allocation demand patterns.

The Maximum Contractual Table A amounts were also updated in the “**FIXED_BST_SWP_SOD**” Excel file within the “Input Assumptions” sheet. The data source comes from **SWPAO Bulletin 132-18** document

which details the maximum Table A contractor amounts until the year of 2035. 2019 maximum table A amounts were inputs to the tool.

Once all the initial request demand patterns are loaded into the Excel workbook, there will be 10 new wresl table lookup files ready to be generated using the “Control” sheet (Figure 1). First, select a working directory where you want the files to be generated in. Lastly, click on “write on input files” which will be generated. table files in that desired folder.

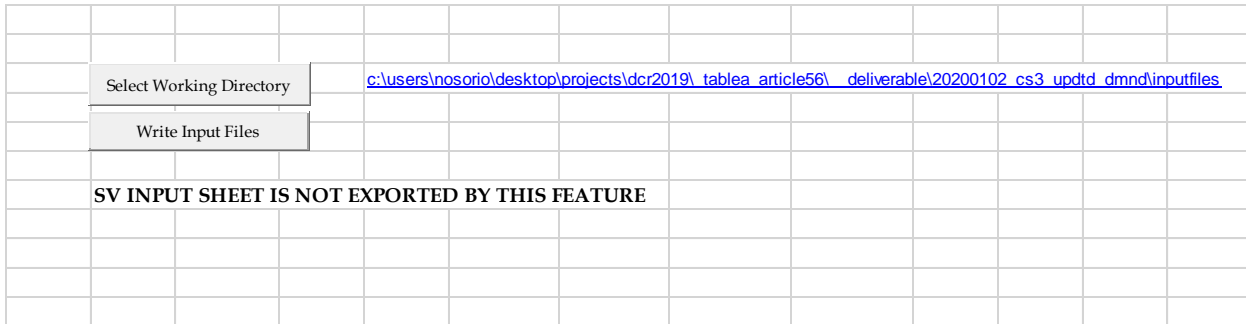


Figure 1. Control sheet which selects the directory where the updated lookup table files will be generated in

The 10 generated wresl table lookup files are as listed:

1. TableA
2. AnnualReqDel_swp
3. CAM_SWPDem
4. Swp_table_a
5. Swp_3_tablea
6. Swp_3pattern_demands
7. Swp_3_tablea for WSIDI curve generation
8. Swp_3pattern_demands for WSIDI curve generation
9. Swp_carryover
10. Swp_3pattern_SLrule

These files will overwrite existing ones located in **\conv\Run\Lookup**, **\conv\Run\Lookup\origWSI**, and **\conv\Run\Lookup\WSIDtraining**.

This document assumes that the reader knows how to retrain WSIDI curves and will not provide detailed explanation. Overwrite the WSIDI training lookup table files, **swp_3_tablea.table** and **swp_3pattern_demands.table** inside the WSIDI training folder. The same process applies to the similarly named files to be kept in the original WSI folder.

Article 56 deliveries refinements

Motivations

There are two main carryover refinements conducted:

1. Carryover allocation separation – North of Delta and South of Delta
2. Carryover distributed delivery months

The NOD and SOD carryover allocation were distinguished because of the initial negative impacts on NOD carryover deliveries. NOD contractors were not receiving their requested carryover water due to San Luis spills south of the Delta. The separation was designed so that NOD contractors do not lose carryover water through spills to the same degree of the SOD contractors.

Carryover delivery months in CalSim II have been confined between January to March for all SWP contractors. However, the 2005-2018 SWP historical deliveries data revealed that most contractors can take carryover water throughout the year, typically during the early winter months, and especially during dry years. The following files were updated to model the variable carryover delivery months based on San Luis storage and water year type.

Files changed/added

- Wsi_swp.wresl
- Delcar_swp.wresl
- swp_contractor_perdel_A.wresl
- carryover_allocation.wresl

Updating the Article 21 demands

Summary of steps

1. Calculate the **annual maximum** Article 21 delivery for each contractor
 - a. Obtain the **2005-2018 SWP Historical deliveries** and **2011, 2017 and 2019 Article 21 requests data**. The State Water Project Analysis Office (SWPAO) shared these datasets after fulfilling an SWP contractor request that maximum requests be considered in the Article 21 demands derivation.
 - b. Calculate the maximum annual historical delivery from 2005-2018 for each contractor
Calculate the maximum annual historical request between 2011, 2017, and 2019 for each contractor
 - c. Take the maximum of both parameters
 - d. Create a new lookup table, **swp_art21_ann_max.table**, which sets the annual Article 21 cap each contractor can take
2. Calculate the **monthly maximum** Article 21 delivery for each contractor.
 - a. Obtain the **2005-2018 SWP Historical deliveries** data
 - b. Calculate the global monthly maximum Article 21 delivered in all months from 2005-2018.
 - c. Use that monthly maximum in all months a contractor has taken Article 21 historically.
3. With the monthly maximum Article 21 deliveries data, modify the State variables DSS file.
 - a. Update the Article 21 demands timeseries (PART C: DEMAND-SWP-IN)
 - b. And/or add new timeseries demands for contractors whose demands used to be hardcoded as zero in the CalSim code.

The next section will go over an example of County of King's updated Article 21 demands using historical actual delivered and requests data. This example was selected because there was a stark difference in what the contractor historically requested between what they received.

Annual Limit to Article 21 Deliveries

Table 22 shows County of Kings' (KC for onward) SWP Article 21 requests from 2011, 2017, and 2019. The Max column contains the maximum Article 21 request during that time period which was 11.315 TAF for KC. Table 24 shows the historical monthly and annual deliveries from 2005-2018. The maximum annual historical delivery was 1.172 TAF.

The greatest between the request and delivered was the former. As a result, KC's Article 21 preliminary demands are set to 11.315 TAF. That value is then scaled up by 20% so County of Kings' final Article 21 annual demand is 13.578 TAF (Table 24). Table 23 shows the other SWP contractors like KC whose annual requests were higher than their actual deliveries.

Table 22. Historical requested Article 21 water from 2011, 2017, and 2019 with the maximum calculated request – County of Kings

| Contractor | Requested Article 21 (Acre-feet) | | | |
|-----------------|----------------------------------|------|------|-------|
| | 2011 | 2017 | 2019 | Max |
| COUNTY OF KINGS | 11,315 | 1922 | 1107 | 11315 |

Table 23. 9 SWP contractors whose maximum Article 21 historical requests were higher than those of the maximum historical deliveries. The last column values are their respective Article 21 demands before the 20% scaling up.

| Contractor | Max del from 2005-2018 (TAF) | Max request between 2011, 2017, 2019 (TAF) |
|------------------------------|------------------------------|--|
| ANTELOPE VALLEY-EAST KERN WA | 17.40 | 22.10 |
| COACHELLA VALLEY WD | 0.00 | 12.12 |
| COUNTY OF KINGS | 1.17 | 11.32 |
| DESERT WA | 0.00 | 4.88 |
| DUDLEY RIDGE WD | 28.20 | 31.10 |
| SAN BERNARDINO VALLEY MWD | 0.06 | 3.68 |
| SAN GABRIEL VALLEY MWD | 3.06 | 4.60 |
| SANTA BARBARA COUNTY FC&WCD | 4.72 | 6.81 |
| VENTURA COUNTY WPD | 10.00 | 34.10 |

Table 24. Historical delivered Article 21 water from 2005-2018 along with calculated maximum requested – County of Kings. Months June to November were hidden because there were no deliveries and to maximum table space.

| COUNTY OF KINGS | | | | | | Final Scaled 20% | |
|------------------|--------|--------|--------|--------|--------|------------------|-----------------------------|
| | | | | | | 13.578 | |
| | | | | | | Req. Max (TAF) | Ann. Max (TAF) |
| | | | | | | 11.315 | 1.172 |
| Year | JAN | FEB | MAR | APR | MAY | DEC | Actual Tot |
| 2005 | 0.256 | 0 | 0 | 0 | 0 | 0 | 0.256 |
| 2006 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2007 | 0 | 0.117 | 0.071 | 0 | 0 | 0 | 0.188 |
| 2008 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2009 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2010 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2011 | 0 | 0 | 0 | 0.238 | 0 | 0 | 0.238 |
| 2012 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2013 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2015 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2016 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2017 | 0 | 0 | 0.406 | 0.546 | 0.22 | 0 | 1.172 |
| 2018 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | | Max of Monthly Maxes |
| Monthly Maxes | 0.26 | 0.12 | 0.41 | 0.55 | 0.22 | | 0.55 |
| Monthly pattern | 1 | 1 | 1 | 1 | 1 | 0 | |
| SV DSS Max input | 0.546 | 0.546 | 0.546 | 0.546 | 0.546 | 0 | 2.730 |
| Revised SV | 13.578 | 13.578 | 13.578 | 13.578 | 13.578 | 0 | 67.89 |

Monthly Limit to Article 21 Deliveries

From the Delivery Capability Report 2017 Technical Addendum, “the monthly patterns represent the maximum amount that can be taken monthly. The actual capability of SWP contractors take this amount of Article 21 is not the sum of the maximum monthly values.”

Table 24 shows an example of how the Article 21 State Variable HEC-DSS (SV DSS) (Table 26) demands were derived for County of Kings.

Historical monthly data from 2005-2018 was processed to calculate the maximum Article 21 deliveries in each month. This process informs two main components to update the Article 21 demands:

1. Monthly pattern – When can a contractor take Article 21 deliveries?
2. Monthly maximum – What is the most Article 21 delivered in any month throughout 2005-2018?

However, there are cases when the annual maximum is based on the requests which means the monthly data may not be available to use for the monthly demands. As a result, there are two cases on how to set the monthly demands given the patterns shown in Table 25.

Table 25. Two cases on determining the monthly Article 21 demand input depending on the whether the annual historical delivery or request was higher.

| Case | Annual Maximum Source | Monthly Demand Input |
|------|-----------------------|--|
| 1 | Historical deliveries | Global monthly maximum found from historical data |
| 2 | Historical requests | Same as the annual maximum set by the historical request |

County of Kings Example

For example, the DEM_D847_PIN County of Kings timeseries consists of demands from January to May. This is because County of Kings took Article 21 deliveries in those same months from 2005-2018 (Table 24).


The demands in those months are 13.578 TAF in all months because Case 2 applies. The most County of Kings received historically in a year was only 1.17 TAF while their annual maximum request from 2011, 2017, and 2019 was 11.315 TAF. (Recall that the final annual limit is scaled by 20%)

The issue is that the current global monthly maximum is 0.55 TAF. If the monthly maximum was set to 0.55 TAF and multiplied in all five months, theoretically, Kings County could only receive at most 2.730 TAF in a year, significantly less than the final scaled 20% annual maximum of 13.578 TAF.

As a result, due to the unavailable historical data, all the demands are set to the calculated annual maximum which is 13.578 TAF. This means that Kings County has January to May to take up to 13.578 TAF and not any more than that due to the constraint in the code.

A separate Excel workbook called “Article21_Patterns_2019DCR_August2020_Public” shows how the Article 21 SV DSS demands were calculated for each State Water Contractor within the model.

Table 26. SV DSS DEM_D847_PIN County of Kings Article 21 demand.

 /CALSIM/DEM_D84... - □ ×

File Edit View Help

| Ordinate | Date / Time | DEM_D847_PIN DEMAND-SW... 2020D09E |
|----------|------------------|--|
| Units | | TAF |
| Type | | PER-AVER |
| 1 | 31 Oct 21, 24:00 | 0.000 |
| 2 | 30 Nov 21, 24:00 | 0.000 |
| 3 | 31 Dec 21, 24:00 | 0.000 |
| 4 | 31 Jan 22, 24:00 | 13.578 |
| 5 | 28 Feb 22, 24:00 | 13.578 |
| 6 | 31 Mar 22, 24:00 | 13.578 |
| 7 | 30 Apr 22, 24:00 | 13.578 |
| 8 | 31 May 22, 24:00 | 13.578 |
| 9 | 30 Jun 22, 24:00 | 0.000 |
| 10 | 31 Jul 22, 24:00 | 0.000 |
| 11 | 31 Aug 22, 24:00 | 0.000 |
| 12 | 30 Sep 22, 24:00 | 0.000 |

Article 21 delivery refinements

Motivations

The availability of 2005-2018 historical delivery provides useful information on how to improve the previous Article 21 demands and delivery patterns. Article 21 assumptions have not been updated since the 2011 Delivery Reliability Report (DRR). The following code changes are grounded on realistic historical Article 21 deliveries, requests, and monthly patterns.

Files changed/added

Swp_art21_ann_max.table – See section: Annual Limit to Article 21 Deliveries.

- Swp_demands_s.wresl
 - Defines the new and modified Article 21 SV DSS demands (DEM_PIN)
 - Defines the new Article 21 annual maximums each contractor can take. (DEM_PIN_ANN_MAX) Values come from the lookup table. Total Article 21 deliveries can never exceed this annual limit value.
- Sumswpdel.wresl
 - Keeps track of each contractor’s Jan-Dec Article 21 deliveries (annual running total). (ANN_total_PIN)
 - Dynamically calculates the decreasing Article 21 water “pool” monthly. (limit_PIN_annual)
 - Example: If the annual maximum is 180 TAF, and a contractor received 50 TAF in January (start of SWP contract year), then limit_PIN_annual in February is 130 TAF.
- Swp_bound_del.wresl
 - Updated so that each Article 21 delivery arc is the minimum between the SV DSS monthly demand or the dynamically calculated Article 21 running limit total (limit_PIN_annual).
 - Example
 - Contractor A’s annual Article 21 maximum is 180 TAF. Contractor A received 50 TAF in January. Then limit_PIN_annual in February would be $180 - 50 = 130$ TAF.
 - February is a surplus month. Contractor A SV DSS monthly demand for February is also still 50 TAF.
 - What bounds this contractor’s February Article 21 delivery?
 - $\text{Min}(\text{dem_PIN}, \text{limit_PIN_annual}) = \text{min}(50, 130) = 50$ TAF.

Adding 60 percent allocation logic

The CalSim II model has been limited to only utilizing 30, 50, and 100 percent allocations. Adding a 60 percent logic was proposed because the contractors have historically sent 60 percent demand patterns to SWPAO. In sum, this code change of adding 60 percent allocation logic to utilize 60 percent demand patterns aims to better represent operations in the model.

Previous code

```
define swp_demprofile {  
  case low {  
    condition percent_act < 35.  
    value 30.}  
  case lowmed {  
    condition percent_act < 45.  
    value 30. + (50. - 30.)*(percent_act - 35.)/(45. - 35.)}  
  case med {  
    condition percent_act < 60.  
    value 50.}  
  case medhigh {  
    condition percent_act < 70.  
    value 50. + (100. - 50.)*(percent_act - 60.)/(70. - 60.)}  
  case high {  
    condition always  
    value 100}  
}
```

Updated code including 60 percent allocation

```
define swp_demprofile {  
  case lowest {  
    condition percent_act < 35.  
    value 30.}  
  case low {  
    condition percent_act < 40.  
    value 30. + (50. - 30.)*(percent_act - 35.)/(40. - 35.)}  
  case lowmed {  
    condition percent_act < 55.  
    value 50.}  
    case medhigh {  
      condition percent_act < 65.  
      value 60.}  
  case high {  
    condition percent_act < 80.  
    value 60. + (100. - 60.)*(percent_act - 65.)/(80. - 65.)}  
  case highest {  
    condition always  
    value 100}  
}
```



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 2017 report update and the 2019 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.

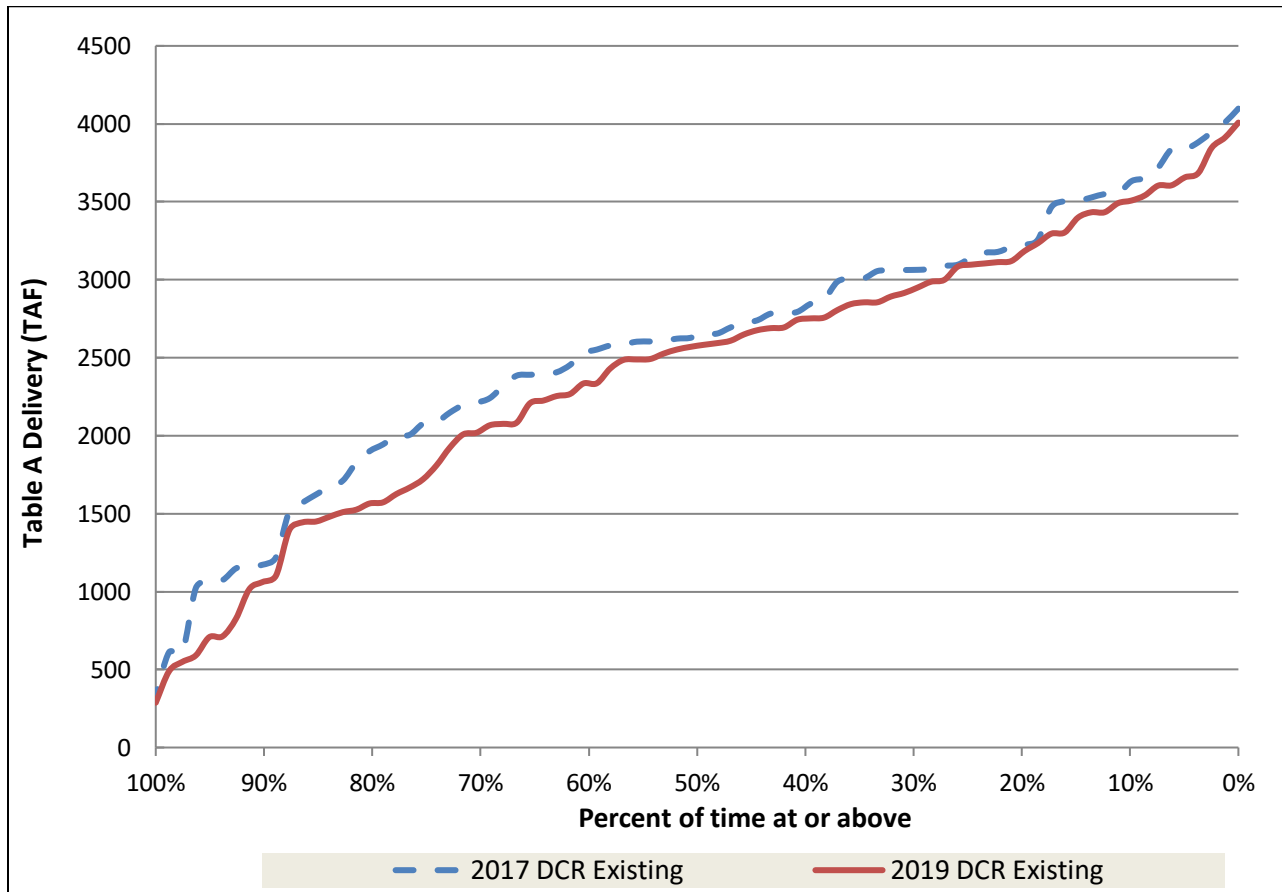


Figure A-1. Comparison of SWP Table A Delivery Probability for Existing Conditions

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 | 2,583 | 62% | 1983 | 4,008 | 0% | 97% |
| 1923 | 4,133 | 2,856 | 69% | 1998 | 3,913 | 1% | 95% |
| 1924 | 4,133 | 826 | 20% | 1938 | 3,846 | 2% | 93% |
| 1925 | 4,133 | 1,062 | 26% | 1967 | 3,684 | 4% | 89% |
| 1926 | 4,133 | 1,626 | 39% | 1952 | 3,657 | 5% | 88% |
| 1927 | 4,133 | 2,694 | 65% | 1969 | 3,606 | 6% | 87% |
| 1928 | 4,133 | 2,892 | 70% | 1958 | 3,604 | 7% | 87% |
| 1929 | 4,133 | 1,445 | 35% | 1943 | 3,541 | 9% | 86% |
| 1930 | 4,133 | 591 | 14% | 1995 | 3,508 | 10% | 85% |
| 1931 | 4,133 | 1,525 | 37% | 1982 | 3,491 | 11% | 84% |
| 1932 | 4,133 | 1,103 | 27% | 1996 | 3,433 | 12% | 83% |
| 1933 | 4,133 | 1,572 | 38% | 1941 | 3,433 | 14% | 83% |
| 1934 | 4,133 | 713 | 17% | 1974 | 3,399 | 15% | 82% |
| 1935 | 4,133 | 2,844 | 69% | 1942 | 3,303 | 16% | 80% |
| 1936 | 4,133 | 2,267 | 55% | 1980 | 3,295 | 17% | 80% |
| 1937 | 4,133 | 2,757 | 67% | 1999 | 3,235 | 19% | 78% |
| 1938 | 4,133 | 3,846 | 93% | 1975 | 3,184 | 20% | 77% |
| 1939 | 4,133 | 2,489 | 60% | 1997 | 3,120 | 21% | 75% |
| 1940 | 4,133 | 2,225 | 54% | 1970 | 3,113 | 22% | 75% |
| 1941 | 4,133 | 3,433 | 83% | 1984 | 3,105 | 23% | 75% |
| 1942 | 4,133 | 3,303 | 80% | 1956 | 3,097 | 25% | 75% |
| 1943 | 4,133 | 3,541 | 86% | 1979 | 3,084 | 26% | 75% |
| 1944 | 4,133 | 1,809 | 44% | 1968 | 3,000 | 27% | 73% |
| 1945 | 4,133 | 2,649 | 64% | 1986 | 2,987 | 28% | 72% |
| 1946 | 4,133 | 2,609 | 63% | 2000 | 2,950 | 30% | 71% |
| 1947 | 4,133 | 2,254 | 55% | 1953 | 2,915 | 31% | 71% |
| 1948 | 4,133 | 1,923 | 47% | 1928 | 2,892 | 32% | 70% |
| 1949 | 4,133 | 1,510 | 37% | 1923 | 2,856 | 33% | 69% |
| 1950 | 4,133 | 2,008 | 49% | 1978 | 2,855 | 35% | 69% |
| 1951 | 4,133 | 2,744 | 66% | 1935 | 2,844 | 36% | 69% |
| 1952 | 4,133 | 3,657 | 88% | 1973 | 2,806 | 37% | 68% |
| 1953 | 4,133 | 2,915 | 71% | 1937 | 2,757 | 38% | 67% |
| 1954 | 4,133 | 2,676 | 65% | 1985 | 2,752 | 40% | 67% |
| 1955 | 4,133 | 1,667 | 40% | 1951 | 2,744 | 41% | 66% |
| 1956 | 4,133 | 3,097 | 75% | 1927 | 2,694 | 42% | 65% |
| 1957 | 4,133 | 2,553 | 62% | 1966 | 2,690 | 43% | 65% |
| 1958 | 4,133 | 3,604 | 87% | 1954 | 2,676 | 44% | 65% |
| 1959 | 4,133 | 2,431 | 59% | 1945 | 2,649 | 46% | 64% |
| 1960 | 4,133 | 2,083 | 50% | 1946 | 2,609 | 47% | 63% |
| 1961 | 4,133 | 1,396 | 34% | 1963 | 2,594 | 48% | 63% |
| 1962 | 4,133 | 2,067 | 50% | 1922 | 2,583 | 49% | 62% |
| 1963 | 4,133 | 2,594 | 63% | 1972 | 2,570 | 51% | 62% |
| 1964 | 4,133 | 2,486 | 60% | 1957 | 2,553 | 52% | 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 |
| 1965 | 4,133 | 2,208 | 53% | 1981 | 2,526 | 53% | 61% |
| 1966 | 4,133 | 2,690 | 65% | 1993 | 2,492 | 54% | 60% |
| 1967 | 4,133 | 3,684 | 89% | 1939 | 2,489 | 56% | 60% |
| 1968 | 4,133 | 3,000 | 73% | 1964 | 2,486 | 57% | 60% |
| 1969 | 4,133 | 3,606 | 87% | 1959 | 2,431 | 58% | 59% |
| 1970 | 4,133 | 3,113 | 75% | 1971 | 2,336 | 59% | 57% |
| 1971 | 4,133 | 2,336 | 57% | 1976 | 2,335 | 60% | 56% |
| 1972 | 4,133 | 2,570 | 62% | 1936 | 2,267 | 62% | 55% |
| 1973 | 4,133 | 2,806 | 68% | 1947 | 2,254 | 63% | 55% |
| 1974 | 4,133 | 3,399 | 82% | 1940 | 2,225 | 64% | 54% |
| 1975 | 4,133 | 3,184 | 77% | 1965 | 2,208 | 65% | 53% |
| 1976 | 4,133 | 2,335 | 56% | 1960 | 2,083 | 67% | 50% |
| 1977 | 4,133 | 288 | 7% | 2003 | 2,076 | 68% | 50% |
| 1978 | 4,133 | 2,855 | 69% | 1962 | 2,067 | 69% | 50% |
| 1979 | 4,133 | 3,084 | 75% | 1989 | 2,019 | 70% | 49% |
| 1980 | 4,133 | 3,295 | 80% | 1950 | 2,008 | 72% | 49% |
| 1981 | 4,133 | 2,526 | 61% | 1948 | 1,923 | 73% | 47% |
| 1982 | 4,133 | 3,491 | 84% | 1944 | 1,809 | 74% | 44% |
| 1983 | 4,133 | 4,008 | 97% | 2002 | 1,721 | 75% | 42% |
| 1984 | 4,133 | 3,105 | 75% | 1955 | 1,667 | 77% | 40% |
| 1985 | 4,133 | 2,752 | 67% | 1926 | 1,626 | 78% | 39% |
| 1986 | 4,133 | 2,987 | 72% | 1933 | 1,572 | 79% | 38% |
| 1987 | 4,133 | 1,565 | 38% | 1987 | 1,565 | 80% | 38% |
| 1988 | 4,133 | 490 | 12% | 1931 | 1,525 | 81% | 37% |
| 1989 | 4,133 | 2,019 | 49% | 1949 | 1,510 | 83% | 37% |
| 1990 | 4,133 | 550 | 13% | 2001 | 1,480 | 84% | 36% |
| 1991 | 4,133 | 1,016 | 25% | 1994 | 1,450 | 85% | 35% |
| 1992 | 4,133 | 708 | 17% | 1929 | 1,445 | 86% | 35% |
| 1993 | 4,133 | 2,492 | 60% | 1961 | 1,396 | 88% | 34% |
| 1994 | 4,133 | 1,450 | 35% | 1932 | 1,103 | 89% | 27% |
| 1995 | 4,133 | 3,508 | 85% | 1925 | 1,062 | 90% | 26% |
| 1996 | 4,133 | 3,433 | 83% | 1991 | 1,016 | 91% | 25% |
| 1997 | 4,133 | 3,120 | 75% | 1924 | 826 | 93% | 20% |
| 1998 | 4,133 | 3,913 | 95% | 1934 | 713 | 94% | 17% |
| 1999 | 4,133 | 3,235 | 78% | 1992 | 708 | 95% | 17% |
| 2000 | 4,133 | 2,950 | 71% | 1930 | 591 | 96% | 14% |
| 2001 | 4,133 | 1,480 | 36% | 1990 | 550 | 98% | 13% |
| 2002 | 4,133 | 1,721 | 42% | 1988 | 490 | 99% | 12% |
| 2003 | 4,133 | 2,076 | 50% | 1977 | 288 | 100% | 7% |
| Average | 4,133 | 2,414 | 58% | Average | 2,414 | | 58% |
| Minimum | 4,133 | 288 | 7% | Minimum | 288 | | 7% |
| Maximum | 4,133 | 4,008 | 97% | Maximum | 4,008 | | 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 | 0 | 4 | 4 |
| 1922 | 6 | 6 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 27 |
| 1923 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1924 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 |
| 1925 | 6 | 5 | 5 | 4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 25 |
| 1926 | 6 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 23 |
| 1927 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 20 |
| 1928 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 8 |
| 1929 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 7 |
| 1930 | 6 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| 1931 | 33 | 132 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 170 |
| 1932 | 6 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| 1933 | 0 | 0 | 65 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 71 |
| 1934 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 16 |
| 1935 | 5 | 5 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| 1936 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 4 |
| 1937 | 0 | 69 | 317 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 396 |
| 1938 | 0 | 0 | 98 | 214 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 472 |
| 1939 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1940 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 21 |
| 1941 | 0 | 0 | 0 | 99 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 105 |
| 1942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1943 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1944 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 16 |
| 1945 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 24 |
| 1946 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 6 |
| 1947 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| 1948 | 3 | 0 | 4 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 20 |
| 1949 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1950 | 3 | 2 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 12 | 31 |
| 1951 | 277 | 268 | 142 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 3 | 4 | 699 |
| 1952 | 0 | 0 | 0 | 107 | 106 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 217 |
| 1953 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1954 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 7 |
| 1955 | 3 | 6 | 45 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 60 |
| 1956 | 87 | 294 | 213 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 605 |
| 1957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1958 | 0 | 0 | 98 | 179 | 76 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 357 |
| 1959 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1960 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 |

| SWP Table Article 21 Deliveries (TAF) | | | | | | | | | | | | | |
|---------------------------------------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|----------|------------|------------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
| 1961 | 6 | 5 | 5 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 23 |
| 1962 | 0 | 2 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 17 |
| 1963 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 5 |
| 1964 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 16 |
| 1965 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 80 | 99 |
| 1966 | 108 | 120 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 260 |
| 1967 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 |
| 1968 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 8 |
| 1969 | 56 | 148 | 150 | 21 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 396 |
| 1970 | 144 | 107 | 178 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 4 | 438 |
| 1971 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1972 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 8 |
| 1973 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 9 |
| 1974 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1976 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 6 | 0 | 6 | 15 |
| 1977 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 |
| 1978 | 5 | 5 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 26 |
| 1979 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 10 |
| 1980 | 0 | 65 | 167 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 239 |
| 1981 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 16 |
| 1982 | 3 | 2 | 4 | 97 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 4 | 116 |
| 1983 | 2 | 2 | 96 | 111 | 97 | 46 | 1 | 0 | 1 | 1 | 3 | 167 | 527 |
| 1984 | 179 | 194 | 161 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 4 | 544 |
| 1985 | 42 | 104 | 48 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 199 |
| 1986 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1987 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 11 |
| 1988 | 6 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 24 |
| 1989 | 6 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 17 |
| 1990 | 6 | 4 | 4 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| 1991 | 0 | 0 | 5 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| 1992 | 0 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 21 |
| 1993 | 5 | 5 | 5 | 5 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 27 |
| 1994 | 3 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 14 |
| 1995 | 5 | 5 | 5 | 5 | 18 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 43 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1997 | 79 | 136 | 234 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 4 | 458 |
| 1998 | 0 | 4 | 121 | 111 | 83 | 0 | 1 | 0 | 1 | 0 | 3 | 4 | 328 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 2000 | 0 | 68 | 89 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
| 2001 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 16 |
| 2002 | 6 | 0 | 5 | 4 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 21 |
| 2003 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | | | | 20 |
| Average | 14 | 22 | 29 | 13 | 8 | 1 | 0 | 0 | 0 | 0 | 1 | 6 | 94 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | 277 | 294 | 317 | 214 | 155 | 46 | 1 | 0 | 2 | 6 | 4 | 167 | 699 |

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 | | | | | | | | | | 292 | 218 | 443 | 953 |
| 1922 | 182 | 202 | 229 | 57 | 179 | 360 | 411 | 311 | 397 | 233 | 397 | 209 | 3,167 |
| 1923 | 290 | 170 | 126 | 54 | 37 | 113 | 411 | 366 | 195 | 243 | 200 | 212 | 2,417 |
| 1924 | 143 | 148 | 18 | 23 | 18 | 18 | 18 | 18 | 33 | 145 | 176 | 182 | 942 |
| 1925 | 166 | 144 | 122 | 57 | 46 | 71 | 151 | 18 | 140 | 145 | 173 | 228 | 1,462 |
| 1926 | 162 | 136 | 18 | 54 | 18 | 61 | 378 | 18 | 146 | 154 | 397 | 167 | 1,711 |
| 1927 | 148 | 162 | 135 | 182 | 37 | 128 | 411 | 311 | 397 | 269 | 397 | 438 | 3,016 |
| 1928 | 176 | 146 | 184 | 54 | 37 | 106 | 411 | 311 | 357 | 144 | 304 | 314 | 2,543 |
| 1929 | 186 | 145 | 109 | 56 | 27 | 18 | 18 | 18 | 43 | 75 | 72 | 162 | 930 |
| 1930 | 167 | 135 | 124 | 51 | 27 | 207 | 312 | 18 | 141 | 129 | 142 | 132 | 1,585 |
| 1931 | 161 | 143 | 61 | 18 | 18 | 18 | 18 | 18 | 30 | 62 | 93 | 441 | 1,081 |
| 1932 | 171 | 214 | 170 | 41 | 37 | 44 | 116 | 18 | 120 | 121 | 132 | 191 | 1,377 |
| 1933 | 225 | 274 | 267 | 38 | 37 | 18 | 18 | 18 | 40 | 93 | 85 | 289 | 1,403 |
| 1934 | 166 | 148 | 118 | 18 | 18 | 18 | 18 | 18 | 35 | 68 | 167 | 202 | 994 |
| 1935 | 177 | 168 | 241 | 378 | 37 | 112 | 411 | 411 | 158 | 201 | 210 | 249 | 2,753 |
| 1936 | 129 | 340 | 147 | 54 | 37 | 137 | 411 | 411 | 397 | 252 | 172 | 256 | 2,742 |
| 1937 | 180 | 475 | 400 | 69 | 58 | 314 | 258 | 160 | 153 | 207 | 397 | 280 | 2,950 |
| 1938 | 264 | 526 | 518 | 397 | 411 | 397 | 411 | 311 | 397 | 362 | 349 | 436 | 4,780 |
| 1939 | 210 | 191 | 187 | 40 | 37 | 101 | 158 | 18 | 129 | 154 | 125 | 255 | 1,606 |
| 1940 | 150 | 176 | 207 | 272 | 37 | 109 | 410 | 311 | 397 | 136 | 261 | 199 | 2,665 |
| 1941 | 198 | 447 | 356 | 329 | 70 | 248 | 411 | 311 | 397 | 279 | 396 | 198 | 3,639 |
| 1942 | 254 | 237 | 230 | 327 | 53 | 222 | 411 | 311 | 397 | 289 | 397 | 176 | 3,304 |
| 1943 | 339 | 290 | 518 | 65 | 38 | 129 | 410 | 311 | 397 | 257 | 239 | 288 | 3,281 |
| 1944 | 174 | 167 | 142 | 46 | 37 | 157 | 295 | 18 | 148 | 184 | 397 | 230 | 1,997 |
| 1945 | 175 | 314 | 227 | 51 | 37 | 116 | 411 | 343 | 161 | 266 | 397 | 284 | 2,783 |
| 1946 | 185 | 191 | 210 | 43 | 37 | 113 | 411 | 411 | 397 | 212 | 265 | 313 | 2,789 |
| 1947 | 171 | 162 | 119 | 39 | 28 | 104 | 105 | 18 | 144 | 243 | 253 | 198 | 1,584 |
| 1948 | 122 | 67 | 125 | 39 | 37 | 128 | 411 | 411 | 397 | 256 | 213 | 272 | 2,478 |
| 1949 | 162 | 154 | 165 | 36 | 37 | 18 | 240 | 18 | 150 | 127 | 166 | 171 | 1,444 |
| 1950 | 133 | 138 | 122 | 43 | 37 | 112 | 411 | 311 | 239 | 240 | 397 | 533 | 2,715 |
| 1951 | 389 | 335 | 260 | 47 | 37 | 107 | 369 | 311 | 397 | 225 | 397 | 177 | 3,052 |
| 1952 | 297 | 250 | 375 | 352 | 343 | 366 | 411 | 311 | 397 | 253 | 340 | 437 | 4,133 |
| 1953 | 165 | 233 | 178 | 47 | 37 | 124 | 411 | 311 | 397 | 262 | 397 | 235 | 2,799 |
| 1954 | 124 | 133 | 123 | 52 | 37 | 109 | 408 | 311 | 397 | 202 | 375 | 433 | 2,706 |
| 1955 | 182 | 158 | 105 | 43 | 37 | 18 | 18 | 19 | 181 | 154 | 291 | 341 | 1,547 |
| 1956 | 599 | 373 | 347 | 49 | 51 | 257 | 411 | 311 | 397 | 332 | 296 | 434 | 3,856 |
| 1957 | 170 | 136 | 139 | 46 | 37 | 106 | 348 | 311 | 397 | 369 | 397 | 167 | 2,623 |
| 1958 | 157 | 169 | 342 | 397 | 364 | 315 | 411 | 311 | 397 | 312 | 309 | 436 | 3,920 |
| 1959 | 131 | 155 | 129 | 38 | 37 | 102 | 405 | 411 | 226 | 160 | 141 | 159 | 2,094 |
| 1960 | 235 | 145 | 113 | 27 | 45 | 97 | 380 | 219 | 152 | 140 | 325 | 184 | 2,062 |
| 1961 | 169 | 131 | 115 | 36 | 37 | 95 | 18 | 18 | 149 | 104 | 206 | 153 | 1,232 |
| 1962 | 140 | 197 | 141 | 58 | 37 | 105 | 411 | 292 | 164 | 411 | 378 | 156 | 2,492 |

| SWP Exports from the Delta (TAF) | | | | | | | | | | | | | |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
| 1963 | 151 | 150 | 125 | 185 | 37 | 115 | 410 | 311 | 397 | 324 | 397 | 318 | 2,919 |
| 1964 | 175 | 130 | 105 | 36 | 37 | 113 | 392 | 18 | 138 | 185 | 336 | 175 | 1,840 |
| 1965 | 235 | 219 | 172 | 263 | 37 | 140 | 409 | 311 | 397 | 211 | 397 | 454 | 3,245 |
| 1966 | 221 | 188 | 142 | 42 | 37 | 104 | 403 | 411 | 158 | 178 | 397 | 177 | 2,457 |
| 1967 | 178 | 140 | 232 | 397 | 308 | 397 | 411 | 311 | 397 | 399 | 397 | 434 | 4,003 |
| 1968 | 259 | 196 | 183 | 37 | 37 | 102 | 392 | 411 | 250 | 301 | 312 | 434 | 2,914 |
| 1969 | 408 | 216 | 245 | 197 | 254 | 397 | 411 | 311 | 397 | 411 | 382 | 188 | 3,817 |
| 1970 | 599 | 384 | 307 | 38 | 37 | 105 | 411 | 311 | 378 | 119 | 397 | 179 | 3,264 |
| 1971 | 163 | 141 | 144 | 51 | 37 | 120 | 411 | 311 | 397 | 224 | 233 | 434 | 2,665 |
| 1972 | 165 | 140 | 108 | 38 | 37 | 101 | 411 | 399 | 194 | 314 | 397 | 165 | 2,469 |
| 1973 | 173 | 194 | 214 | 52 | 37 | 114 | 411 | 311 | 397 | 363 | 397 | 193 | 2,856 |
| 1974 | 240 | 170 | 201 | 241 | 37 | 164 | 411 | 311 | 397 | 408 | 359 | 443 | 3,384 |
| 1975 | 179 | 219 | 249 | 50 | 37 | 198 | 411 | 311 | 397 | 411 | 397 | 272 | 3,130 |
| 1976 | 152 | 154 | 130 | 44 | 42 | 88 | 410 | 245 | 118 | 86 | 139 | 45 | 1,651 |
| 1977 | 136 | 95 | 29 | 18 | 18 | 18 | 18 | 18 | 109 | 23 | 103 | 160 | 745 |
| 1978 | 169 | 237 | 235 | 79 | 75 | 234 | 411 | 311 | 397 | 236 | 383 | 438 | 3,205 |
| 1979 | 217 | 273 | 242 | 54 | 49 | 107 | 411 | 411 | 185 | 235 | 386 | 436 | 3,006 |
| 1980 | 381 | 336 | 274 | 53 | 46 | 240 | 411 | 211 | 397 | 268 | 224 | 435 | 3,275 |
| 1981 | 177 | 150 | 143 | 46 | 28 | 101 | 411 | 20 | 147 | 198 | 397 | 166 | 1,985 |
| 1982 | 205 | 526 | 466 | 397 | 110 | 289 | 411 | 311 | 397 | 411 | 397 | 533 | 4,454 |
| 1983 | 488 | 250 | 254 | 260 | 256 | 348 | 338 | 311 | 397 | 411 | 397 | 407 | 4,117 |
| 1984 | 465 | 422 | 279 | 51 | 37 | 113 | 403 | 311 | 397 | 347 | 397 | 433 | 3,656 |
| 1985 | 174 | 156 | 142 | 52 | 37 | 102 | 332 | 18 | 213 | 197 | 318 | 435 | 2,178 |
| 1986 | 127 | 526 | 518 | 78 | 59 | 174 | 411 | 250 | 397 | 310 | 300 | 241 | 3,392 |
| 1987 | 169 | 147 | 127 | 42 | 18 | 18 | 18 | 18 | 121 | 81 | 104 | 163 | 1,027 |
| 1988 | 165 | 104 | 39 | 44 | 18 | 18 | 18 | 18 | 71 | 18 | 267 | 180 | 963 |
| 1989 | 163 | 98 | 111 | 52 | 37 | 98 | 411 | 18 | 199 | 183 | 119 | 115 | 1,604 |
| 1990 | 163 | 139 | 110 | 36 | 39 | 155 | 18 | 18 | 97 | 64 | 108 | 117 | 1,063 |
| 1991 | 26 | 118 | 154 | 52 | 37 | 18 | 18 | 18 | 41 | 95 | 109 | 154 | 843 |
| 1992 | 88 | 148 | 145 | 36 | 18 | 18 | 18 | 18 | 124 | 18 | 29 | 181 | 842 |
| 1993 | 177 | 166 | 209 | 37 | 37 | 160 | 411 | 311 | 397 | 227 | 203 | 430 | 2,765 |
| 1994 | 158 | 146 | 104 | 37 | 44 | 84 | 18 | 42 | 166 | 105 | 126 | 170 | 1,200 |
| 1995 | 170 | 145 | 518 | 397 | 411 | 373 | 411 | 311 | 397 | 272 | 303 | 169 | 3,877 |
| 1996 | 248 | 522 | 464 | 57 | 176 | 163 | 411 | 311 | 397 | 165 | 397 | 533 | 3,844 |
| 1997 | 599 | 420 | 360 | 41 | 40 | 130 | 354 | 311 | 397 | 226 | 391 | 434 | 3,703 |
| 1998 | 181 | 439 | 325 | 326 | 367 | 397 | 411 | 311 | 397 | 411 | 397 | 179 | 4,141 |
| 1999 | 336 | 451 | 267 | 45 | 37 | 133 | 410 | 311 | 397 | 221 | 350 | 416 | 3,375 |
| 2000 | 134 | 460 | 217 | 47 | 37 | 106 | 411 | 311 | 397 | 208 | 228 | 220 | 2,776 |
| 2001 | 177 | 153 | 136 | 51 | 36 | 18 | 18 | 18 | 180 | 67 | 268 | 178 | 1,302 |
| 2002 | 163 | 177 | 121 | 36 | 37 | 101 | 207 | 75 | 140 | 66 | 148 | 173 | 1,444 |
| 2003 | 145 | 151 | 118 | 39 | 37 | 98 | 410 | 311 | 397 | | | | 2,658 |
| Average | 210 | 222 | 203 | 101 | 71 | 141 | 311 | 218 | 268 | 217 | 283 | 276 | 2,521 |
| Minimum | 26 | 67 | 18 | 18 | 18 | 18 | 18 | 18 | 30 | 18 | 29 | 45 | 745 |
| Maximum | 599 | 526 | 518 | 397 | 411 | 397 | 411 | 411 | 397 | 411 | 397 | 533 | 4,780 |

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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 Sept 1921-Oct 2003 period of record.

| SWP Table A Deliveries for 2019 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 | 61% | 1983 | 79 | 0% | 100% |

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 (55 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 2019 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% | 1983 | 80 | 0% | 100% |
| 1923 | 46 | 9 | 55 | 69% | 1998 | 76 | 1% | 96% |
| 1924 | 10 | 8 | 18 | 22% | 1938 | 75 | 2% | 94% |
| 1925 | 19 | 1 | 20 | 25% | 1967 | 72 | 4% | 91% |
| 1926 | 29 | 2 | 31 | 39% | 1952 | 71 | 5% | 90% |
| 1927 | 48 | 4 | 52 | 65% | 1958 | 70 | 6% | 89% |
| 1928 | 47 | 9 | 56 | 70% | 1969 | 69 | 7% | 87% |
| 1929 | 22 | 8 | 30 | 37% | 1943 | 69 | 9% | 87% |
| 1930 | 10 | 0 | 10 | 13% | 1995 | 68 | 10% | 86% |
| 1931 | 28 | 0 | 28 | 35% | 1996 | 68 | 11% | 85% |
| 1932 | 18 | 4 | 22 | 28% | 1941 | 67 | 12% | 85% |
| 1933 | 28 | 1 | 29 | 36% | 1974 | 67 | 14% | 84% |
| 1934 | 11 | 4 | 15 | 19% | 1982 | 66 | 15% | 83% |
| 1935 | 53 | 1 | 55 | 69% | 1980 | 64 | 16% | 81% |
| 1936 | 38 | 3 | 41 | 52% | 1942 | 64 | 17% | 81% |
| 1937 | 49 | 4 | 53 | 67% | 1999 | 63 | 19% | 79% |
| 1938 | 66 | 9 | 75 | 94% | 1975 | 61 | 20% | 77% |
| 1939 | 46 | 12 | 58 | 73% | 1997 | 61 | 21% | 77% |
| 1940 | 40 | 0 | 40 | 51% | 1970 | 60 | 22% | 76% |
| 1941 | 61 | 6 | 67 | 85% | 1984 | 59 | 23% | 75% |
| 1942 | 50 | 14 | 64 | 81% | 1986 | 59 | 25% | 75% |
| 1943 | 58 | 11 | 69 | 87% | 1956 | 59 | 26% | 75% |
| 1944 | 27 | 7 | 33 | 42% | 1979 | 59 | 27% | 74% |
| 1945 | 48 | 3 | 51 | 64% | 1939 | 58 | 28% | 73% |
| 1946 | 42 | 8 | 50 | 63% | 1968 | 58 | 30% | 72% |
| 1947 | 39 | 5 | 44 | 55% | 2000 | 57 | 31% | 72% |
| 1948 | 34 | 0 | 35 | 44% | 1928 | 56 | 32% | 70% |
| 1949 | 25 | 5 | 30 | 37% | 1953 | 56 | 33% | 70% |
| 1950 | 35 | 3 | 38 | 48% | 1923 | 55 | 35% | 69% |
| 1951 | 50 | 2 | 52 | 65% | 1973 | 55 | 36% | 69% |
| 1952 | 61 | 10 | 71 | 90% | 1935 | 55 | 37% | 69% |
| 1953 | 42 | 14 | 56 | 70% | 1978 | 54 | 38% | 68% |
| 1954 | 45 | 6 | 52 | 65% | 1937 | 53 | 40% | 67% |
| 1955 | 28 | 2 | 30 | 38% | 1927 | 52 | 41% | 65% |
| 1956 | 58 | 2 | 59 | 75% | 1951 | 52 | 42% | 65% |
| 1957 | 36 | 13 | 49 | 61% | 1954 | 52 | 43% | 65% |
| 1958 | 66 | 5 | 70 | 89% | 1981 | 51 | 44% | 64% |
| 1959 | 32 | 15 | 47 | 59% | 1976 | 51 | 46% | 64% |
| 1960 | 36 | 4 | 40 | 50% | 1945 | 51 | 47% | 64% |
| 1961 | 23 | 5 | 28 | 35% | 1966 | 51 | 48% | 64% |
| 1962 | 36 | 3 | 39 | 49% | 1946 | 50 | 49% | 63% |
| 1963 | 45 | 5 | 50 | 63% | 1985 | 50 | 51% | 63% |
| 1964 | 41 | 7 | 48 | 61% | 1963 | 50 | 52% | 63% |
| 1965 | 37 | 6 | 43 | 54% | 1972 | 49 | 53% | 62% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 48 | 2 | 51 | 64% | 1957 | 49 | 54% | 61% |
| 1967 | 63 | 9 | 72 | 91% | 1964 | 48 | 56% | 61% |
| 1968 | 43 | 14 | 58 | 72% | 1922 | 48 | 57% | 60% |
| 1969 | 66 | 4 | 69 | 87% | 1959 | 47 | 58% | 59% |
| 1970 | 50 | 11 | 60 | 76% | 1993 | 46 | 59% | 58% |
| 1971 | 35 | 10 | 45 | 56% | 1971 | 45 | 60% | 56% |
| 1972 | 44 | 5 | 49 | 62% | 1947 | 44 | 62% | 55% |
| 1973 | 48 | 7 | 55 | 69% | 1965 | 43 | 63% | 54% |
| 1974 | 58 | 9 | 67 | 84% | 1936 | 41 | 64% | 52% |
| 1975 | 48 | 13 | 61 | 77% | 1989 | 41 | 65% | 51% |
| 1976 | 43 | 8 | 51 | 64% | 1940 | 40 | 67% | 51% |
| 1977 | 5 | 0 | 5 | 6% | 1960 | 40 | 68% | 50% |
| 1978 | 54 | 1 | 54 | 68% | 1962 | 39 | 69% | 49% |
| 1979 | 47 | 12 | 59 | 74% | 1950 | 38 | 70% | 48% |
| 1980 | 58 | 7 | 64 | 81% | 2003 | 37 | 72% | 47% |
| 1981 | 38 | 13 | 51 | 64% | 1948 | 35 | 73% | 44% |
| 1982 | 66 | 0 | 66 | 83% | 1944 | 33 | 74% | 42% |
| 1983 | 66 | 14 | 80 | 100% | 2002 | 32 | 75% | 41% |
| 1984 | 50 | 10 | 59 | 75% | 1926 | 31 | 77% | 39% |
| 1985 | 49 | 1 | 50 | 63% | 1987 | 31 | 78% | 38% |
| 1986 | 50 | 9 | 59 | 75% | 1955 | 30 | 79% | 38% |
| 1987 | 20 | 10 | 31 | 38% | 1929 | 30 | 80% | 37% |
| 1988 | 8 | 2 | 10 | 13% | 1949 | 30 | 81% | 37% |
| 1989 | 40 | 1 | 41 | 51% | 1994 | 29 | 83% | 37% |
| 1990 | 9 | 0 | 10 | 12% | 2001 | 29 | 84% | 37% |
| 1991 | 18 | 1 | 19 | 24% | 1933 | 29 | 85% | 36% |
| 1992 | 12 | 2 | 14 | 18% | 1961 | 28 | 86% | 35% |
| 1993 | 45 | 1 | 46 | 58% | 1931 | 28 | 88% | 35% |
| 1994 | 22 | 7 | 29 | 37% | 1932 | 22 | 89% | 28% |
| 1995 | 66 | 3 | 68 | 86% | 1925 | 20 | 90% | 25% |
| 1996 | 56 | 11 | 68 | 85% | 1991 | 19 | 91% | 24% |
| 1997 | 50 | 11 | 61 | 77% | 1924 | 18 | 93% | 22% |
| 1998 | 66 | 11 | 76 | 96% | 1934 | 15 | 94% | 19% |
| 1999 | 48 | 15 | 63 | 79% | 1992 | 14 | 95% | 18% |
| 2000 | 50 | 7 | 57 | 72% | 1930 | 10 | 96% | 13% |
| 2001 | 19 | 10 | 29 | 37% | 1988 | 10 | 98% | 13% |
| 2002 | 30 | 2 | 32 | 41% | 1990 | 10 | 99% | 12% |
| 2003 | 37 | 0 | 37 | 47% | 1977 | 5 | 100% | 6% |
| Average | 41 | 6 | 47 | 59% | | 47 | | 59% |
| Maximum | 66 | 15 | 80 | 100% | | 80 | | 100% |
| Minimum | 5 | 0 | 5 | 6% | | 5 | | 6% |

Table A-5. Alameda County WD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 53% | 1983 | 41 | 0% | 100% |
| 1923 | 21 | 8 | 29 | 71% | 1998 | 39 | 1% | 95% |
| 1924 | 5 | 7 | 12 | 30% | 1938 | 38 | 2% | 93% |
| 1925 | 9 | 1 | 10 | 25% | 1967 | 37 | 4% | 90% |
| 1926 | 14 | 2 | 16 | 38% | 1952 | 36 | 5% | 89% |
| 1927 | 22 | 3 | 25 | 61% | 1943 | 35 | 6% | 87% |
| 1928 | 21 | 8 | 29 | 72% | 1942 | 34 | 7% | 84% |
| 1929 | 11 | 8 | 18 | 45% | 1974 | 34 | 9% | 83% |
| 1930 | 5 | 0 | 5 | 13% | 1999 | 34 | 10% | 83% |
| 1931 | 13 | 0 | 14 | 33% | 1941 | 34 | 11% | 82% |
| 1932 | 9 | 3 | 12 | 29% | 1958 | 33 | 12% | 82% |
| 1933 | 14 | 1 | 14 | 35% | 1969 | 33 | 14% | 80% |
| 1934 | 6 | 3 | 8 | 21% | 1975 | 33 | 15% | 80% |
| 1935 | 24 | 1 | 25 | 61% | 1980 | 32 | 16% | 79% |
| 1936 | 18 | 2 | 20 | 49% | 1968 | 31 | 17% | 77% |
| 1937 | 22 | 3 | 25 | 62% | 1995 | 31 | 19% | 77% |
| 1938 | 30 | 8 | 38 | 93% | 1979 | 31 | 20% | 77% |
| 1939 | 21 | 10 | 31 | 75% | 1996 | 31 | 21% | 77% |
| 1940 | 18 | 0 | 18 | 45% | 1939 | 31 | 22% | 75% |
| 1941 | 28 | 6 | 34 | 82% | 1953 | 30 | 23% | 75% |
| 1942 | 23 | 12 | 34 | 84% | 1997 | 30 | 25% | 74% |
| 1943 | 26 | 9 | 35 | 87% | 1986 | 30 | 26% | 74% |
| 1944 | 13 | 3 | 16 | 40% | 1970 | 30 | 27% | 74% |
| 1945 | 21 | 3 | 24 | 59% | 1982 | 30 | 28% | 73% |
| 1946 | 19 | 8 | 27 | 65% | 1984 | 30 | 30% | 73% |
| 1947 | 18 | 5 | 22 | 55% | 1928 | 29 | 31% | 72% |
| 1948 | 17 | 0 | 17 | 42% | 2000 | 29 | 32% | 71% |
| 1949 | 12 | 4 | 16 | 39% | 1981 | 29 | 33% | 71% |
| 1950 | 17 | 2 | 19 | 48% | 1923 | 29 | 35% | 71% |
| 1951 | 22 | 2 | 24 | 59% | 1957 | 28 | 36% | 69% |
| 1952 | 28 | 9 | 36 | 89% | 1973 | 28 | 37% | 69% |
| 1953 | 19 | 12 | 30 | 75% | 1959 | 28 | 38% | 69% |
| 1954 | 20 | 6 | 27 | 65% | 1956 | 27 | 40% | 67% |
| 1955 | 14 | 2 | 15 | 38% | 1976 | 27 | 41% | 65% |
| 1956 | 26 | 1 | 27 | 67% | 1946 | 27 | 42% | 65% |
| 1957 | 17 | 11 | 28 | 69% | 1954 | 27 | 43% | 65% |
| 1958 | 30 | 4 | 33 | 82% | 1971 | 26 | 44% | 63% |
| 1959 | 16 | 12 | 28 | 69% | 1937 | 25 | 46% | 62% |
| 1960 | 17 | 3 | 21 | 51% | 1964 | 25 | 47% | 62% |
| 1961 | 11 | 4 | 15 | 37% | 1935 | 25 | 48% | 61% |
| 1962 | 18 | 2 | 20 | 49% | 1927 | 25 | 49% | 61% |
| 1963 | 20 | 4 | 24 | 59% | 1978 | 25 | 51% | 60% |
| 1964 | 19 | 7 | 25 | 62% | 1965 | 24 | 52% | 59% |
| 1965 | 18 | 6 | 24 | 59% | 1951 | 24 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 22 | 2 | 23 | 58% | 1945 | 24 | 54% | 59% |
| 1967 | 28 | 8 | 37 | 90% | 1963 | 24 | 56% | 59% |
| 1968 | 19 | 12 | 31 | 77% | 1972 | 24 | 57% | 58% |
| 1969 | 30 | 3 | 33 | 80% | 1966 | 23 | 58% | 58% |
| 1970 | 22 | 8 | 30 | 74% | 2003 | 23 | 59% | 57% |
| 1971 | 17 | 9 | 26 | 63% | 1985 | 23 | 60% | 56% |
| 1972 | 20 | 4 | 24 | 58% | 1947 | 22 | 62% | 55% |
| 1973 | 22 | 7 | 28 | 69% | 1922 | 21 | 63% | 53% |
| 1974 | 26 | 8 | 34 | 83% | 1993 | 21 | 64% | 52% |
| 1975 | 22 | 11 | 33 | 80% | 1960 | 21 | 65% | 51% |
| 1976 | 19 | 7 | 27 | 65% | 1936 | 20 | 67% | 49% |
| 1977 | 2 | 0 | 2 | 6% | 1962 | 20 | 68% | 49% |
| 1978 | 24 | 0 | 25 | 60% | 1989 | 20 | 69% | 48% |
| 1979 | 21 | 10 | 31 | 77% | 1950 | 19 | 70% | 48% |
| 1980 | 26 | 6 | 32 | 79% | 1987 | 19 | 72% | 46% |
| 1981 | 18 | 11 | 29 | 71% | 1929 | 18 | 73% | 45% |
| 1982 | 30 | 0 | 30 | 73% | 1940 | 18 | 74% | 45% |
| 1983 | 30 | 11 | 41 | 100% | 2001 | 18 | 75% | 45% |
| 1984 | 22 | 7 | 30 | 73% | 1994 | 18 | 77% | 44% |
| 1985 | 22 | 1 | 23 | 56% | 1948 | 17 | 78% | 42% |
| 1986 | 23 | 7 | 30 | 74% | 2002 | 16 | 79% | 40% |
| 1987 | 10 | 9 | 19 | 46% | 1944 | 16 | 80% | 40% |
| 1988 | 4 | 2 | 6 | 14% | 1949 | 16 | 81% | 39% |
| 1989 | 19 | 1 | 20 | 48% | 1926 | 16 | 83% | 38% |
| 1990 | 5 | 0 | 5 | 12% | 1955 | 15 | 84% | 38% |
| 1991 | 9 | 1 | 10 | 24% | 1961 | 15 | 85% | 37% |
| 1992 | 6 | 2 | 8 | 18% | 1933 | 14 | 86% | 35% |
| 1993 | 20 | 1 | 21 | 52% | 1931 | 14 | 88% | 33% |
| 1994 | 11 | 7 | 18 | 44% | 1924 | 12 | 89% | 30% |
| 1995 | 29 | 2 | 31 | 77% | 1932 | 12 | 90% | 29% |
| 1996 | 25 | 6 | 31 | 77% | 1925 | 10 | 91% | 25% |
| 1997 | 23 | 8 | 30 | 74% | 1991 | 10 | 93% | 24% |
| 1998 | 30 | 9 | 39 | 95% | 1934 | 8 | 94% | 21% |
| 1999 | 21 | 12 | 34 | 83% | 1992 | 8 | 95% | 18% |
| 2000 | 22 | 7 | 29 | 71% | 1988 | 6 | 96% | 14% |
| 2001 | 9 | 9 | 18 | 45% | 1930 | 5 | 98% | 13% |
| 2002 | 15 | 2 | 16 | 40% | 1990 | 5 | 99% | 12% |
| 2003 | 23 | 0 | 23 | 57% | 1977 | 2 | 100% | 6% |
| Average | 19 | 5 | 24 | 58% | | 24 | | 58% |
| Maximum | 30 | 12 | 41 | 100% | | 41 | | 100% |
| Minimum | 2 | 0 | 2 | 6% | | 2 | | 6% |

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

| SWP Table A Deliveries for 2019 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 | 74 | 0 | 74 | 54% | 1999 | 138 | 0% | 100% |
| 1923 | 76 | 28 | 104 | 75% | 1983 | 137 | 1% | 100% |
| 1924 | 19 | 21 | 40 | 29% | 1968 | 137 | 2% | 100% |
| 1925 | 35 | 1 | 36 | 26% | 1953 | 132 | 4% | 96% |
| 1926 | 52 | 2 | 54 | 40% | 1975 | 129 | 5% | 94% |
| 1927 | 73 | 6 | 79 | 57% | 1979 | 128 | 6% | 93% |
| 1928 | 75 | 30 | 105 | 77% | 1942 | 128 | 7% | 93% |
| 1929 | 35 | 20 | 56 | 41% | 1959 | 122 | 9% | 89% |
| 1930 | 19 | 1 | 20 | 14% | 1998 | 121 | 10% | 88% |
| 1931 | 51 | 0 | 51 | 37% | 1957 | 121 | 11% | 88% |
| 1932 | 35 | 6 | 40 | 29% | 1938 | 114 | 12% | 83% |
| 1933 | 52 | 1 | 53 | 38% | 1943 | 114 | 14% | 83% |
| 1934 | 21 | 6 | 27 | 20% | 1952 | 113 | 15% | 82% |
| 1935 | 66 | 1 | 67 | 49% | 1967 | 108 | 16% | 79% |
| 1936 | 69 | 6 | 75 | 55% | 1970 | 106 | 17% | 77% |
| 1937 | 72 | 7 | 79 | 57% | 1928 | 105 | 19% | 77% |
| 1938 | 81 | 33 | 114 | 83% | 1923 | 104 | 20% | 75% |
| 1939 | 33 | 49 | 83 | 60% | 1984 | 104 | 21% | 75% |
| 1940 | 70 | 1 | 71 | 52% | 1997 | 103 | 22% | 75% |
| 1941 | 76 | 13 | 89 | 64% | 1974 | 100 | 23% | 73% |
| 1942 | 68 | 59 | 128 | 93% | 1971 | 100 | 25% | 73% |
| 1943 | 72 | 41 | 114 | 83% | 1946 | 99 | 26% | 72% |
| 1944 | 49 | 12 | 61 | 44% | 1986 | 94 | 27% | 69% |
| 1945 | 75 | 5 | 80 | 58% | 2000 | 93 | 28% | 68% |
| 1946 | 73 | 26 | 99 | 72% | 1981 | 92 | 30% | 67% |
| 1947 | 68 | 10 | 79 | 57% | 1980 | 91 | 31% | 66% |
| 1948 | 63 | 1 | 64 | 46% | 1954 | 90 | 32% | 66% |
| 1949 | 47 | 7 | 54 | 39% | 1996 | 90 | 33% | 66% |
| 1950 | 64 | 3 | 68 | 49% | 1958 | 89 | 35% | 65% |
| 1951 | 70 | 3 | 73 | 53% | 1969 | 89 | 36% | 64% |
| 1952 | 76 | 37 | 113 | 82% | 1941 | 89 | 37% | 64% |
| 1953 | 73 | 59 | 132 | 96% | 1964 | 88 | 38% | 64% |
| 1954 | 77 | 13 | 90 | 66% | 1973 | 88 | 40% | 64% |
| 1955 | 52 | 4 | 56 | 40% | 1972 | 85 | 41% | 62% |
| 1956 | 71 | 3 | 74 | 54% | 1963 | 85 | 42% | 62% |
| 1957 | 65 | 56 | 121 | 88% | 1995 | 84 | 43% | 61% |
| 1958 | 81 | 7 | 89 | 65% | 1939 | 83 | 44% | 60% |
| 1959 | 59 | 63 | 122 | 89% | 1976 | 83 | 46% | 60% |
| 1960 | 65 | 7 | 72 | 52% | 1982 | 82 | 47% | 60% |
| 1961 | 44 | 7 | 51 | 37% | 1965 | 80 | 48% | 59% |
| 1962 | 67 | 3 | 69 | 50% | 1945 | 80 | 49% | 58% |
| 1963 | 77 | 8 | 85 | 62% | 1927 | 79 | 51% | 57% |
| 1964 | 72 | 16 | 88 | 64% | 1993 | 79 | 52% | 57% |
| 1965 | 67 | 13 | 80 | 59% | 1947 | 79 | 53% | 57% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 73 | 3 | 77 | 56% | 1937 | 79 | 54% | 57% |
| 1967 | 78 | 30 | 108 | 79% | 1987 | 78 | 56% | 57% |
| 1968 | 76 | 61 | 137 | 100% | 1985 | 78 | 57% | 57% |
| 1969 | 81 | 7 | 89 | 64% | 1966 | 77 | 58% | 56% |
| 1970 | 70 | 36 | 106 | 77% | 1936 | 75 | 59% | 55% |
| 1971 | 64 | 37 | 100 | 73% | 1956 | 74 | 60% | 54% |
| 1972 | 78 | 7 | 85 | 62% | 1922 | 74 | 62% | 54% |
| 1973 | 73 | 14 | 88 | 64% | 1951 | 73 | 63% | 53% |
| 1974 | 72 | 29 | 100 | 73% | 2001 | 73 | 64% | 53% |
| 1975 | 73 | 56 | 129 | 94% | 1960 | 72 | 65% | 52% |
| 1976 | 56 | 26 | 83 | 60% | 1940 | 71 | 67% | 52% |
| 1977 | 9 | 1 | 9 | 7% | 2003 | 70 | 68% | 51% |
| 1978 | 67 | 1 | 67 | 49% | 1962 | 69 | 69% | 50% |
| 1979 | 76 | 52 | 128 | 93% | 1950 | 68 | 70% | 49% |
| 1980 | 71 | 19 | 91 | 66% | 1935 | 67 | 72% | 49% |
| 1981 | 48 | 43 | 92 | 67% | 1978 | 67 | 73% | 49% |
| 1982 | 81 | 1 | 82 | 60% | 1948 | 64 | 74% | 46% |
| 1983 | 81 | 56 | 137 | 100% | 1944 | 61 | 75% | 44% |
| 1984 | 70 | 34 | 104 | 75% | 1994 | 58 | 77% | 42% |
| 1985 | 74 | 4 | 78 | 57% | 2002 | 58 | 78% | 42% |
| 1986 | 69 | 26 | 94 | 69% | 1929 | 56 | 79% | 41% |
| 1987 | 38 | 40 | 78 | 57% | 1955 | 56 | 80% | 40% |
| 1988 | 15 | 2 | 17 | 12% | 1926 | 54 | 81% | 40% |
| 1989 | 44 | 1 | 44 | 32% | 1949 | 54 | 83% | 39% |
| 1990 | 18 | 1 | 18 | 13% | 1933 | 53 | 84% | 38% |
| 1991 | 34 | 1 | 35 | 26% | 1961 | 51 | 85% | 37% |
| 1992 | 23 | 2 | 25 | 18% | 1931 | 51 | 86% | 37% |
| 1993 | 77 | 1 | 79 | 57% | 1989 | 44 | 88% | 32% |
| 1994 | 42 | 16 | 58 | 42% | 1932 | 40 | 89% | 29% |
| 1995 | 81 | 3 | 84 | 61% | 1924 | 40 | 90% | 29% |
| 1996 | 70 | 20 | 90 | 66% | 1925 | 36 | 91% | 26% |
| 1997 | 69 | 34 | 103 | 75% | 1991 | 35 | 93% | 26% |
| 1998 | 81 | 40 | 121 | 88% | 1934 | 27 | 94% | 20% |
| 1999 | 74 | 63 | 138 | 100% | 1992 | 25 | 95% | 18% |
| 2000 | 70 | 23 | 93 | 68% | 1930 | 20 | 96% | 14% |
| 2001 | 36 | 37 | 73 | 53% | 1990 | 18 | 98% | 13% |
| 2002 | 55 | 2 | 58 | 42% | 1988 | 17 | 99% | 12% |
| 2003 | 70 | 1 | 70 | 51% | 1977 | 9 | 100% | 7% |
| Average | 61 | 19 | 80 | 58% | | 80 | | 58% |
| Maximum | 81 | 63 | 138 | 100% | | 138 | | 100% |
| Minimum | 9 | 0 | 9 | 7% | | 9 | | 7% |

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

| SWP Table A Deliveries for 2019 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 |
| 1922 | 45 | 0 | 45 | 49% | 1999 | 91 | 0% | 100% |
| 1923 | 47 | 22 | 69 | 75% | 1968 | 90 | 1% | 99% |
| 1924 | 12 | 17 | 29 | 32% | 1953 | 90 | 2% | 99% |
| 1925 | 24 | 1 | 24 | 26% | 1975 | 87 | 4% | 95% |
| 1926 | 34 | 1 | 35 | 39% | 1959 | 86 | 5% | 94% |
| 1927 | 44 | 4 | 48 | 53% | 1979 | 86 | 6% | 94% |
| 1928 | 47 | 23 | 70 | 76% | 1957 | 85 | 7% | 93% |
| 1929 | 28 | 16 | 44 | 48% | 1939 | 80 | 9% | 88% |
| 1930 | 13 | 0 | 13 | 14% | 1942 | 77 | 10% | 85% |
| 1931 | 33 | 0 | 33 | 37% | 1998 | 77 | 11% | 84% |
| 1932 | 23 | 4 | 27 | 29% | 1981 | 76 | 12% | 83% |
| 1933 | 34 | 0 | 34 | 38% | 1943 | 73 | 14% | 80% |
| 1934 | 14 | 4 | 18 | 20% | 1952 | 73 | 15% | 80% |
| 1935 | 38 | 1 | 39 | 42% | 1938 | 73 | 16% | 79% |
| 1936 | 46 | 3 | 49 | 54% | 1983 | 70 | 17% | 77% |
| 1937 | 44 | 4 | 48 | 52% | 1971 | 70 | 19% | 77% |
| 1938 | 47 | 26 | 73 | 79% | 1928 | 70 | 20% | 76% |
| 1939 | 43 | 37 | 80 | 88% | 1923 | 69 | 21% | 75% |
| 1940 | 44 | 0 | 44 | 49% | 1967 | 69 | 22% | 75% |
| 1941 | 44 | 11 | 54 | 60% | 1970 | 68 | 23% | 74% |
| 1942 | 41 | 37 | 77 | 85% | 1976 | 66 | 25% | 73% |
| 1943 | 42 | 32 | 73 | 80% | 1984 | 66 | 26% | 73% |
| 1944 | 32 | 7 | 39 | 43% | 1946 | 66 | 27% | 73% |
| 1945 | 46 | 3 | 49 | 53% | 1997 | 65 | 28% | 71% |
| 1946 | 46 | 20 | 66 | 73% | 1974 | 64 | 30% | 70% |
| 1947 | 43 | 9 | 51 | 56% | 2000 | 60 | 31% | 66% |
| 1948 | 41 | 0 | 42 | 46% | 1954 | 59 | 32% | 65% |
| 1949 | 31 | 5 | 36 | 39% | 1964 | 58 | 33% | 64% |
| 1950 | 42 | 2 | 44 | 48% | 1980 | 57 | 35% | 62% |
| 1951 | 42 | 2 | 44 | 48% | 1973 | 56 | 36% | 62% |
| 1952 | 44 | 29 | 73 | 80% | 1987 | 56 | 37% | 62% |
| 1953 | 45 | 45 | 90 | 99% | 1986 | 55 | 38% | 61% |
| 1954 | 48 | 11 | 59 | 65% | 1965 | 55 | 40% | 60% |
| 1955 | 34 | 3 | 37 | 41% | 1941 | 54 | 41% | 60% |
| 1956 | 41 | 2 | 43 | 47% | 1972 | 54 | 42% | 59% |
| 1957 | 43 | 42 | 85 | 93% | 1963 | 53 | 43% | 58% |
| 1958 | 45 | 5 | 50 | 54% | 1969 | 53 | 44% | 58% |
| 1959 | 38 | 48 | 86 | 94% | 2001 | 53 | 46% | 58% |
| 1960 | 43 | 4 | 47 | 52% | 1996 | 52 | 47% | 57% |
| 1961 | 29 | 5 | 34 | 37% | 1947 | 51 | 48% | 56% |
| 1962 | 44 | 1 | 45 | 49% | 1958 | 50 | 49% | 54% |
| 1963 | 48 | 5 | 53 | 58% | 1993 | 49 | 51% | 54% |
| 1964 | 45 | 13 | 58 | 64% | 1936 | 49 | 52% | 54% |
| 1965 | 44 | 11 | 55 | 60% | 1945 | 49 | 53% | 53% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 45 | 2 | 47 | 51% | 1985 | 48 | 54% | 53% |
| 1967 | 45 | 23 | 69 | 75% | 1927 | 48 | 56% | 53% |
| 1968 | 44 | 46 | 90 | 99% | 1937 | 48 | 57% | 52% |
| 1969 | 47 | 6 | 53 | 58% | 1982 | 47 | 58% | 52% |
| 1970 | 42 | 26 | 68 | 74% | 1960 | 47 | 59% | 52% |
| 1971 | 42 | 28 | 70 | 77% | 1995 | 47 | 60% | 51% |
| 1972 | 49 | 5 | 54 | 59% | 1966 | 47 | 62% | 51% |
| 1973 | 45 | 12 | 56 | 62% | 1989 | 46 | 63% | 50% |
| 1974 | 41 | 22 | 64 | 70% | 2003 | 45 | 64% | 49% |
| 1975 | 45 | 42 | 87 | 95% | 1922 | 45 | 65% | 49% |
| 1976 | 46 | 20 | 66 | 73% | 1962 | 45 | 67% | 49% |
| 1977 | 6 | 0 | 6 | 7% | 1940 | 44 | 68% | 49% |
| 1978 | 39 | 0 | 39 | 42% | 1929 | 44 | 69% | 48% |
| 1979 | 47 | 39 | 86 | 94% | 1950 | 44 | 70% | 48% |
| 1980 | 41 | 15 | 57 | 62% | 1951 | 44 | 72% | 48% |
| 1981 | 43 | 33 | 76 | 83% | 1956 | 43 | 73% | 47% |
| 1982 | 47 | 0 | 47 | 52% | 1948 | 42 | 74% | 46% |
| 1983 | 47 | 23 | 70 | 77% | 1994 | 41 | 75% | 45% |
| 1984 | 42 | 25 | 66 | 73% | 1944 | 39 | 77% | 43% |
| 1985 | 45 | 3 | 48 | 53% | 1935 | 39 | 78% | 42% |
| 1986 | 41 | 15 | 55 | 61% | 1978 | 39 | 79% | 42% |
| 1987 | 25 | 31 | 56 | 62% | 2002 | 37 | 80% | 41% |
| 1988 | 10 | 1 | 11 | 12% | 1955 | 37 | 81% | 41% |
| 1989 | 45 | 0 | 46 | 50% | 1949 | 36 | 83% | 39% |
| 1990 | 12 | 0 | 12 | 13% | 1926 | 35 | 84% | 39% |
| 1991 | 23 | 0 | 23 | 26% | 1933 | 34 | 85% | 38% |
| 1992 | 15 | 1 | 16 | 18% | 1961 | 34 | 86% | 37% |
| 1993 | 48 | 1 | 49 | 54% | 1931 | 33 | 88% | 37% |
| 1994 | 28 | 13 | 41 | 45% | 1924 | 29 | 89% | 32% |
| 1995 | 46 | 1 | 47 | 51% | 1932 | 27 | 90% | 29% |
| 1996 | 40 | 12 | 52 | 57% | 1925 | 24 | 91% | 26% |
| 1997 | 41 | 24 | 65 | 71% | 1991 | 23 | 93% | 26% |
| 1998 | 47 | 30 | 77 | 84% | 1934 | 18 | 94% | 20% |
| 1999 | 43 | 48 | 91 | 100% | 1992 | 16 | 95% | 18% |
| 2000 | 42 | 18 | 60 | 66% | 1930 | 13 | 96% | 14% |
| 2001 | 24 | 29 | 53 | 58% | 1990 | 12 | 98% | 13% |
| 2002 | 36 | 1 | 37 | 41% | 1988 | 11 | 99% | 12% |
| 2003 | 45 | 0 | 45 | 49% | 1977 | 6 | 100% | 7% |
| Average | 39 | 14 | 52 | 57% | | 52 | | 57% |
| Maximum | 49 | 48 | 91 | 100% | | 91 | | 100% |
| Minimum | 6 | 0 | 6 | 7% | | 6 | | 7% |

Table A-8. Coachella Valley WD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 70 | 0 | 70 | 51% | 1939 | 138 | 0% | 100% |
| 1923 | 74 | 27 | 101 | 73% | 1968 | 138 | 0% | 100% |
| 1924 | 19 | 19 | 38 | 27% | 1999 | 138 | 0% | 100% |
| 1925 | 36 | 0 | 36 | 26% | 1953 | 138 | 4% | 99% |
| 1926 | 51 | 0 | 51 | 37% | 1981 | 131 | 5% | 94% |
| 1927 | 69 | 5 | 73 | 53% | 1979 | 130 | 6% | 94% |
| 1928 | 73 | 30 | 102 | 74% | 1975 | 130 | 7% | 94% |
| 1929 | 42 | 21 | 64 | 46% | 1959 | 126 | 9% | 91% |
| 1930 | 19 | 0 | 19 | 14% | 1957 | 124 | 10% | 90% |
| 1931 | 49 | 0 | 49 | 36% | 1942 | 123 | 11% | 89% |
| 1932 | 35 | 4 | 39 | 28% | 1998 | 111 | 12% | 80% |
| 1933 | 50 | 0 | 50 | 36% | 1943 | 105 | 14% | 76% |
| 1934 | 22 | 5 | 26 | 19% | 1952 | 103 | 15% | 75% |
| 1935 | 56 | 0 | 56 | 41% | 1938 | 103 | 16% | 74% |
| 1936 | 68 | 6 | 73 | 53% | 1928 | 102 | 17% | 74% |
| 1937 | 67 | 5 | 72 | 52% | 2003 | 102 | 19% | 73% |
| 1938 | 69 | 33 | 103 | 74% | 1923 | 101 | 20% | 73% |
| 1939 | 69 | 69 | 138 | 100% | 1971 | 100 | 21% | 72% |
| 1940 | 70 | 0 | 71 | 51% | 1970 | 98 | 22% | 71% |
| 1941 | 64 | 9 | 74 | 53% | 1946 | 98 | 23% | 71% |
| 1942 | 61 | 62 | 123 | 89% | 1997 | 98 | 25% | 70% |
| 1943 | 61 | 44 | 105 | 76% | 1967 | 96 | 26% | 69% |
| 1944 | 48 | 11 | 60 | 43% | 1976 | 93 | 27% | 68% |
| 1945 | 71 | 3 | 74 | 54% | 1983 | 93 | 28% | 67% |
| 1946 | 73 | 25 | 98 | 71% | 1974 | 89 | 30% | 64% |
| 1947 | 68 | 10 | 78 | 56% | 1985 | 88 | 31% | 64% |
| 1948 | 61 | 0 | 62 | 45% | 1984 | 88 | 32% | 63% |
| 1949 | 47 | 6 | 52 | 38% | 1986 | 86 | 33% | 62% |
| 1950 | 63 | 1 | 64 | 46% | 2000 | 86 | 35% | 62% |
| 1951 | 64 | 3 | 66 | 48% | 1954 | 86 | 36% | 62% |
| 1952 | 64 | 39 | 103 | 75% | 1964 | 84 | 37% | 61% |
| 1953 | 73 | 64 | 138 | 99% | 1972 | 83 | 38% | 60% |
| 1954 | 76 | 10 | 86 | 62% | 1963 | 83 | 40% | 60% |
| 1955 | 50 | 12 | 62 | 45% | 1987 | 81 | 41% | 59% |
| 1956 | 61 | 2 | 63 | 45% | 1973 | 80 | 42% | 58% |
| 1957 | 64 | 61 | 124 | 90% | 1996 | 79 | 43% | 57% |
| 1958 | 69 | 6 | 75 | 54% | 1980 | 78 | 44% | 57% |
| 1959 | 57 | 69 | 126 | 91% | 1947 | 78 | 46% | 56% |
| 1960 | 63 | 5 | 69 | 50% | 1993 | 77 | 47% | 55% |
| 1961 | 44 | 6 | 50 | 36% | 1965 | 75 | 48% | 54% |
| 1962 | 65 | 0 | 65 | 47% | 2001 | 75 | 49% | 54% |
| 1963 | 77 | 6 | 83 | 60% | 1958 | 75 | 51% | 54% |
| 1964 | 72 | 12 | 84 | 61% | 1969 | 75 | 52% | 54% |
| 1965 | 66 | 10 | 75 | 54% | 1945 | 74 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 69 | 3 | 72 | 52% | 1989 | 74 | 54% | 53% |
| 1967 | 66 | 30 | 96 | 69% | 1941 | 74 | 56% | 53% |
| 1968 | 72 | 66 | 138 | 100% | 1927 | 73 | 57% | 53% |
| 1969 | 69 | 6 | 75 | 54% | 1936 | 73 | 58% | 53% |
| 1970 | 64 | 34 | 98 | 71% | 1937 | 72 | 59% | 52% |
| 1971 | 62 | 38 | 100 | 72% | 1966 | 72 | 60% | 52% |
| 1972 | 78 | 6 | 83 | 60% | 1940 | 71 | 62% | 51% |
| 1973 | 69 | 10 | 80 | 58% | 1922 | 70 | 63% | 51% |
| 1974 | 61 | 28 | 89 | 64% | 1982 | 70 | 64% | 50% |
| 1975 | 69 | 61 | 130 | 94% | 1995 | 69 | 65% | 50% |
| 1976 | 65 | 29 | 93 | 68% | 1960 | 69 | 67% | 50% |
| 1977 | 9 | 0 | 9 | 7% | 1951 | 66 | 68% | 48% |
| 1978 | 57 | 0 | 57 | 41% | 1962 | 65 | 69% | 47% |
| 1979 | 73 | 57 | 130 | 94% | 1950 | 64 | 70% | 46% |
| 1980 | 61 | 18 | 78 | 57% | 1929 | 64 | 72% | 46% |
| 1981 | 70 | 61 | 131 | 94% | 1956 | 63 | 73% | 45% |
| 1982 | 69 | 0 | 70 | 50% | 1955 | 62 | 74% | 45% |
| 1983 | 69 | 24 | 93 | 67% | 1948 | 62 | 75% | 45% |
| 1984 | 63 | 25 | 88 | 63% | 1944 | 60 | 77% | 43% |
| 1985 | 70 | 19 | 88 | 64% | 1978 | 57 | 78% | 41% |
| 1986 | 62 | 24 | 86 | 62% | 1935 | 56 | 79% | 41% |
| 1987 | 38 | 43 | 81 | 59% | 1994 | 55 | 80% | 40% |
| 1988 | 15 | 0 | 15 | 11% | 2002 | 54 | 81% | 39% |
| 1989 | 74 | 0 | 74 | 53% | 1949 | 52 | 83% | 38% |
| 1990 | 18 | 0 | 19 | 13% | 1926 | 51 | 84% | 37% |
| 1991 | 35 | 0 | 35 | 25% | 1933 | 50 | 85% | 36% |
| 1992 | 23 | 0 | 23 | 17% | 1961 | 50 | 86% | 36% |
| 1993 | 77 | 0 | 77 | 55% | 1931 | 49 | 88% | 36% |
| 1994 | 42 | 13 | 55 | 40% | 1932 | 39 | 89% | 28% |
| 1995 | 69 | 0 | 69 | 50% | 1924 | 38 | 90% | 27% |
| 1996 | 59 | 19 | 79 | 57% | 1925 | 36 | 91% | 26% |
| 1997 | 62 | 36 | 98 | 70% | 1991 | 35 | 93% | 25% |
| 1998 | 69 | 42 | 111 | 80% | 1934 | 26 | 94% | 19% |
| 1999 | 69 | 69 | 138 | 100% | 1992 | 23 | 95% | 17% |
| 2000 | 64 | 22 | 86 | 62% | 1930 | 19 | 96% | 14% |
| 2001 | 36 | 39 | 75 | 54% | 1990 | 19 | 98% | 13% |
| 2002 | 54 | 0 | 54 | 39% | 1988 | 15 | 99% | 11% |
| 2003 | 101 | 1 | 102 | 73% | 1977 | 9 | 100% | 7% |
| Average | 59 | 19 | 78 | 56% | | 78 | | 56% |
| Maximum | 101 | 69 | 138 | 100% | | 138 | | 100% |
| Minimum | 9 | 0 | 9 | 7% | | 9 | | 7% |

Table A-9. County of Kings: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 70% | 1938 | 9 | 0% | 100% |
| 1923 | 6 | 0 | 6 | 67% | 1958 | 9 | 0% | 100% |
| 1924 | 1 | 0 | 1 | 14% | 1969 | 9 | 0% | 100% |
| 1925 | 2 | 0 | 2 | 26% | 1982 | 9 | 0% | 100% |
| 1926 | 4 | 0 | 4 | 40% | 1983 | 9 | 0% | 100% |
| 1927 | 7 | 0 | 7 | 71% | 1998 | 9 | 0% | 100% |
| 1928 | 6 | 0 | 6 | 68% | 1995 | 9 | 7% | 100% |
| 1929 | 3 | 0 | 3 | 31% | 1967 | 9 | 9% | 96% |
| 1930 | 1 | 0 | 1 | 14% | 1941 | 9 | 10% | 93% |
| 1931 | 4 | 0 | 4 | 39% | 1952 | 9 | 10% | 93% |
| 1932 | 2 | 0 | 2 | 25% | 1943 | 8 | 12% | 89% |
| 1933 | 4 | 0 | 4 | 40% | 1974 | 8 | 14% | 88% |
| 1934 | 1 | 0 | 1 | 16% | 1956 | 8 | 15% | 88% |
| 1935 | 8 | 0 | 8 | 81% | 1980 | 8 | 16% | 88% |
| 1936 | 5 | 0 | 5 | 53% | 1996 | 8 | 17% | 86% |
| 1937 | 7 | 0 | 7 | 73% | 1978 | 8 | 19% | 82% |
| 1938 | 9 | 0 | 9 | 100% | 1935 | 8 | 20% | 81% |
| 1939 | 3 | 0 | 3 | 30% | 1942 | 7 | 21% | 76% |
| 1940 | 5 | 0 | 5 | 57% | 1997 | 7 | 22% | 75% |
| 1941 | 9 | 0 | 9 | 93% | 1986 | 7 | 23% | 75% |
| 1942 | 7 | 0 | 7 | 76% | 1984 | 7 | 25% | 74% |
| 1943 | 8 | 0 | 8 | 89% | 1951 | 7 | 26% | 74% |
| 1944 | 3 | 0 | 3 | 37% | 2000 | 7 | 27% | 74% |
| 1945 | 6 | 0 | 6 | 69% | 1970 | 7 | 28% | 74% |
| 1946 | 6 | 0 | 6 | 60% | 1937 | 7 | 30% | 73% |
| 1947 | 5 | 0 | 5 | 56% | 1985 | 7 | 31% | 72% |
| 1948 | 5 | 0 | 5 | 48% | 1966 | 7 | 32% | 71% |
| 1949 | 3 | 0 | 3 | 35% | 1927 | 7 | 33% | 71% |
| 1950 | 5 | 0 | 5 | 50% | 1975 | 7 | 35% | 71% |
| 1951 | 7 | 0 | 7 | 74% | 1973 | 7 | 36% | 71% |
| 1952 | 9 | 0 | 9 | 93% | 1922 | 7 | 37% | 70% |
| 1953 | 6 | 0 | 6 | 60% | 1999 | 6 | 38% | 70% |
| 1954 | 6 | 0 | 6 | 65% | 1945 | 6 | 40% | 69% |
| 1955 | 4 | 0 | 4 | 40% | 1928 | 6 | 41% | 68% |
| 1956 | 8 | 0 | 8 | 88% | 1979 | 6 | 42% | 68% |
| 1957 | 5 | 0 | 5 | 50% | 1923 | 6 | 43% | 67% |
| 1958 | 9 | 0 | 9 | 100% | 1954 | 6 | 44% | 65% |
| 1959 | 4 | 0 | 4 | 45% | 1993 | 6 | 46% | 65% |
| 1960 | 5 | 0 | 5 | 50% | 1963 | 6 | 47% | 64% |
| 1961 | 3 | 0 | 3 | 32% | 1972 | 6 | 48% | 64% |
| 1962 | 5 | 0 | 5 | 51% | 1968 | 6 | 49% | 62% |
| 1963 | 6 | 0 | 6 | 64% | 1946 | 6 | 51% | 60% |
| 1964 | 5 | 0 | 5 | 59% | 1953 | 6 | 52% | 60% |
| 1965 | 5 | 0 | 5 | 52% | 1964 | 5 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 7 | 0 | 7 | 71% | 1940 | 5 | 54% | 57% |
| 1967 | 9 | 0 | 9 | 96% | 1947 | 5 | 56% | 56% |
| 1968 | 6 | 0 | 6 | 62% | 1936 | 5 | 57% | 53% |
| 1969 | 9 | 0 | 9 | 100% | 1965 | 5 | 58% | 52% |
| 1970 | 7 | 0 | 7 | 74% | 1962 | 5 | 59% | 51% |
| 1971 | 5 | 0 | 5 | 49% | 1989 | 5 | 60% | 51% |
| 1972 | 6 | 0 | 6 | 64% | 1957 | 5 | 62% | 50% |
| 1973 | 7 | 0 | 7 | 71% | 1960 | 5 | 63% | 50% |
| 1974 | 8 | 0 | 8 | 88% | 1950 | 5 | 64% | 50% |
| 1975 | 7 | 0 | 7 | 71% | 1976 | 5 | 65% | 49% |
| 1976 | 5 | 0 | 5 | 49% | 1971 | 5 | 67% | 49% |
| 1977 | 1 | 0 | 1 | 6% | 2003 | 5 | 68% | 49% |
| 1978 | 8 | 0 | 8 | 82% | 1948 | 5 | 69% | 48% |
| 1979 | 6 | 0 | 6 | 68% | 1959 | 4 | 70% | 45% |
| 1980 | 8 | 0 | 8 | 88% | 2002 | 4 | 72% | 43% |
| 1981 | 3 | 0 | 3 | 36% | 1926 | 4 | 73% | 40% |
| 1982 | 9 | 0 | 9 | 100% | 1933 | 4 | 74% | 40% |
| 1983 | 9 | 0 | 9 | 100% | 1955 | 4 | 75% | 40% |
| 1984 | 7 | 0 | 7 | 74% | 1931 | 4 | 77% | 39% |
| 1985 | 7 | 0 | 7 | 72% | 1944 | 3 | 78% | 37% |
| 1986 | 7 | 0 | 7 | 75% | 1981 | 3 | 79% | 36% |
| 1987 | 3 | 0 | 3 | 28% | 1949 | 3 | 80% | 35% |
| 1988 | 1 | 0 | 1 | 11% | 1961 | 3 | 81% | 32% |
| 1989 | 5 | 0 | 5 | 51% | 1929 | 3 | 83% | 31% |
| 1990 | 1 | 0 | 1 | 13% | 1994 | 3 | 84% | 31% |
| 1991 | 2 | 0 | 2 | 25% | 1939 | 3 | 85% | 30% |
| 1992 | 2 | 0 | 2 | 17% | 1987 | 3 | 86% | 28% |
| 1993 | 6 | 0 | 6 | 65% | 2001 | 2 | 88% | 26% |
| 1994 | 3 | 0 | 3 | 31% | 1925 | 2 | 89% | 26% |
| 1995 | 9 | 0 | 9 | 100% | 1932 | 2 | 90% | 25% |
| 1996 | 8 | 0 | 8 | 86% | 1991 | 2 | 91% | 25% |
| 1997 | 7 | 0 | 7 | 75% | 1992 | 2 | 93% | 17% |
| 1998 | 9 | 0 | 9 | 100% | 1934 | 1 | 94% | 16% |
| 1999 | 6 | 0 | 6 | 70% | 1930 | 1 | 95% | 14% |
| 2000 | 7 | 0 | 7 | 74% | 1924 | 1 | 96% | 14% |
| 2001 | 2 | 0 | 2 | 26% | 1990 | 1 | 98% | 13% |
| 2002 | 4 | 0 | 4 | 43% | 1988 | 1 | 99% | 11% |
| 2003 | 5 | 0 | 5 | 49% | 1977 | 1 | 100% | 6% |
| Average | 5 | 0 | 5 | 59% | | 5 | | 59% |
| Maximum | 9 | 0 | 9 | 100% | | 9 | | 100% |
| Minimum | 1 | 0 | 1 | 6% | | 1 | | 6% |

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

| SWP Table A Deliveries for 2019 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 | 47% | 1999 | 6 | 0% | 100% |
| 1923 | 3 | 1 | 4 | 75% | 1983 | 5 | 1% | 99% |
| 1924 | 1 | 1 | 2 | 35% | 1968 | 5 | 2% | 99% |
| 1925 | 1 | 0 | 1 | 25% | 1953 | 5 | 4% | 96% |
| 1926 | 2 | 0 | 2 | 39% | 1975 | 5 | 5% | 93% |
| 1927 | 3 | 0 | 3 | 54% | 1959 | 5 | 6% | 92% |
| 1928 | 3 | 2 | 4 | 76% | 1979 | 5 | 7% | 91% |
| 1929 | 2 | 1 | 3 | 49% | 1942 | 5 | 9% | 91% |
| 1930 | 1 | 0 | 1 | 13% | 1939 | 5 | 10% | 90% |
| 1931 | 2 | 0 | 2 | 34% | 1957 | 5 | 11% | 90% |
| 1932 | 1 | 0 | 2 | 30% | 1998 | 5 | 12% | 87% |
| 1933 | 2 | 0 | 2 | 36% | 1938 | 5 | 14% | 83% |
| 1934 | 1 | 0 | 1 | 21% | 1943 | 5 | 15% | 83% |
| 1935 | 2 | 0 | 2 | 45% | 1952 | 5 | 16% | 82% |
| 1936 | 3 | 0 | 3 | 51% | 1981 | 4 | 17% | 81% |
| 1937 | 3 | 0 | 3 | 54% | 1967 | 4 | 19% | 79% |
| 1938 | 3 | 2 | 5 | 83% | 1928 | 4 | 20% | 76% |
| 1939 | 3 | 2 | 5 | 90% | 1971 | 4 | 21% | 76% |
| 1940 | 2 | 0 | 2 | 45% | 1923 | 4 | 22% | 75% |
| 1941 | 3 | 1 | 4 | 65% | 1970 | 4 | 23% | 74% |
| 1942 | 2 | 3 | 5 | 91% | 1974 | 4 | 25% | 74% |
| 1943 | 3 | 2 | 5 | 83% | 1976 | 4 | 26% | 73% |
| 1944 | 2 | 0 | 2 | 42% | 1984 | 4 | 27% | 72% |
| 1945 | 3 | 0 | 3 | 54% | 1946 | 4 | 28% | 72% |
| 1946 | 3 | 1 | 4 | 72% | 1997 | 4 | 30% | 72% |
| 1947 | 2 | 1 | 3 | 56% | 2000 | 4 | 31% | 67% |
| 1948 | 2 | 0 | 2 | 43% | 1980 | 4 | 32% | 66% |
| 1949 | 2 | 0 | 2 | 40% | 1954 | 4 | 33% | 66% |
| 1950 | 2 | 0 | 3 | 49% | 1941 | 4 | 35% | 65% |
| 1951 | 2 | 0 | 3 | 49% | 1964 | 4 | 36% | 64% |
| 1952 | 3 | 2 | 5 | 82% | 1973 | 4 | 37% | 64% |
| 1953 | 3 | 3 | 5 | 96% | 1986 | 3 | 38% | 63% |
| 1954 | 3 | 1 | 4 | 66% | 1958 | 3 | 40% | 62% |
| 1955 | 2 | 0 | 2 | 39% | 1969 | 3 | 41% | 61% |
| 1956 | 3 | 0 | 3 | 49% | 1965 | 3 | 42% | 61% |
| 1957 | 2 | 3 | 5 | 90% | 1987 | 3 | 43% | 61% |
| 1958 | 3 | 0 | 3 | 62% | 1996 | 3 | 44% | 60% |
| 1959 | 2 | 3 | 5 | 92% | 1963 | 3 | 46% | 58% |
| 1960 | 2 | 0 | 3 | 52% | 1972 | 3 | 47% | 58% |
| 1961 | 2 | 0 | 2 | 38% | 2001 | 3 | 48% | 57% |
| 1962 | 2 | 0 | 3 | 49% | 1995 | 3 | 49% | 57% |
| 1963 | 3 | 0 | 3 | 58% | 1947 | 3 | 51% | 56% |
| 1964 | 3 | 1 | 4 | 64% | 1937 | 3 | 52% | 54% |
| 1965 | 3 | 1 | 3 | 61% | 1945 | 3 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 3 | 0 | 3 | 51% | 1927 | 3 | 54% | 54% |
| 1967 | 3 | 2 | 4 | 79% | 1982 | 3 | 56% | 53% |
| 1968 | 3 | 3 | 5 | 99% | 1960 | 3 | 57% | 52% |
| 1969 | 3 | 0 | 3 | 61% | 1993 | 3 | 58% | 52% |
| 1970 | 2 | 2 | 4 | 74% | 1985 | 3 | 59% | 51% |
| 1971 | 2 | 2 | 4 | 76% | 1936 | 3 | 60% | 51% |
| 1972 | 3 | 0 | 3 | 58% | 1966 | 3 | 62% | 51% |
| 1973 | 3 | 1 | 4 | 64% | 1962 | 3 | 63% | 49% |
| 1974 | 3 | 2 | 4 | 74% | 1956 | 3 | 64% | 49% |
| 1975 | 3 | 3 | 5 | 93% | 1929 | 3 | 65% | 49% |
| 1976 | 3 | 1 | 4 | 73% | 1951 | 3 | 67% | 49% |
| 1977 | 0 | 0 | 0 | 6% | 1950 | 3 | 68% | 49% |
| 1978 | 2 | 0 | 2 | 44% | 1989 | 3 | 69% | 48% |
| 1979 | 3 | 2 | 5 | 91% | 1922 | 3 | 70% | 47% |
| 1980 | 3 | 1 | 4 | 66% | 1994 | 3 | 72% | 47% |
| 1981 | 2 | 2 | 4 | 81% | 2003 | 3 | 73% | 46% |
| 1982 | 3 | 0 | 3 | 53% | 1940 | 2 | 74% | 45% |
| 1983 | 3 | 3 | 5 | 99% | 1935 | 2 | 75% | 45% |
| 1984 | 2 | 2 | 4 | 72% | 1978 | 2 | 77% | 44% |
| 1985 | 3 | 0 | 3 | 51% | 1948 | 2 | 78% | 43% |
| 1986 | 2 | 1 | 3 | 63% | 1944 | 2 | 79% | 42% |
| 1987 | 1 | 2 | 3 | 61% | 2002 | 2 | 80% | 41% |
| 1988 | 1 | 0 | 1 | 14% | 1949 | 2 | 81% | 40% |
| 1989 | 3 | 0 | 3 | 48% | 1955 | 2 | 83% | 39% |
| 1990 | 1 | 0 | 1 | 12% | 1926 | 2 | 84% | 39% |
| 1991 | 1 | 0 | 1 | 25% | 1961 | 2 | 85% | 38% |
| 1992 | 1 | 0 | 1 | 19% | 1933 | 2 | 86% | 36% |
| 1993 | 3 | 0 | 3 | 52% | 1924 | 2 | 88% | 35% |
| 1994 | 2 | 1 | 3 | 47% | 1931 | 2 | 89% | 34% |
| 1995 | 3 | 0 | 3 | 57% | 1932 | 2 | 90% | 30% |
| 1996 | 2 | 1 | 3 | 60% | 1925 | 1 | 91% | 25% |
| 1997 | 2 | 2 | 4 | 72% | 1991 | 1 | 93% | 25% |
| 1998 | 3 | 2 | 5 | 87% | 1934 | 1 | 94% | 21% |
| 1999 | 3 | 3 | 6 | 100% | 1992 | 1 | 95% | 19% |
| 2000 | 2 | 1 | 4 | 67% | 1988 | 1 | 96% | 14% |
| 2001 | 1 | 2 | 3 | 57% | 1930 | 1 | 98% | 13% |
| 2002 | 2 | 0 | 2 | 41% | 1990 | 1 | 99% | 12% |
| 2003 | 3 | 0 | 3 | 46% | 1977 | 0 | 100% | 6% |
| Average | 2 | 1 | 3 | 58% | | 3 | | 58% |
| Maximum | 3 | 3 | 6 | 100% | | 6 | | 100% |
| Minimum | 0 | 0 | 0 | 6% | | 0 | | 6% |

Table A-11. Desert WA: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 51% | 1968 | 56 | 0% | 100% |
| 1923 | 30 | 11 | 41 | 73% | 1939 | 56 | 1% | 100% |
| 1924 | 8 | 8 | 15 | 27% | 1999 | 56 | 1% | 100% |
| 1925 | 14 | 0 | 14 | 26% | 1953 | 55 | 4% | 99% |
| 1926 | 20 | 0 | 20 | 36% | 1981 | 53 | 5% | 94% |
| 1927 | 28 | 2 | 30 | 54% | 1983 | 52 | 6% | 94% |
| 1928 | 29 | 12 | 41 | 74% | 1979 | 52 | 7% | 94% |
| 1929 | 17 | 9 | 26 | 46% | 1975 | 52 | 9% | 94% |
| 1930 | 8 | 0 | 8 | 14% | 1959 | 50 | 10% | 91% |
| 1931 | 20 | 0 | 20 | 35% | 2003 | 50 | 11% | 90% |
| 1932 | 14 | 2 | 16 | 29% | 1957 | 50 | 12% | 89% |
| 1933 | 20 | 0 | 20 | 36% | 1942 | 50 | 14% | 89% |
| 1934 | 9 | 2 | 11 | 20% | 1998 | 45 | 15% | 80% |
| 1935 | 23 | 0 | 23 | 41% | 1943 | 42 | 16% | 76% |
| 1936 | 27 | 2 | 29 | 52% | 1976 | 42 | 17% | 75% |
| 1937 | 27 | 3 | 29 | 53% | 1952 | 42 | 19% | 75% |
| 1938 | 28 | 13 | 41 | 74% | 1938 | 41 | 20% | 74% |
| 1939 | 28 | 28 | 56 | 100% | 1928 | 41 | 21% | 74% |
| 1940 | 28 | 0 | 28 | 51% | 1970 | 41 | 22% | 74% |
| 1941 | 26 | 4 | 30 | 53% | 1923 | 41 | 23% | 73% |
| 1942 | 25 | 25 | 50 | 89% | 1984 | 40 | 25% | 72% |
| 1943 | 25 | 18 | 42 | 76% | 1971 | 40 | 26% | 71% |
| 1944 | 19 | 5 | 24 | 43% | 1946 | 39 | 27% | 71% |
| 1945 | 29 | 2 | 30 | 54% | 1997 | 39 | 28% | 70% |
| 1946 | 29 | 10 | 39 | 71% | 1967 | 39 | 30% | 69% |
| 1947 | 27 | 4 | 31 | 56% | 1974 | 36 | 31% | 64% |
| 1948 | 24 | 0 | 25 | 44% | 1985 | 36 | 32% | 64% |
| 1949 | 19 | 3 | 22 | 39% | 1986 | 35 | 33% | 62% |
| 1950 | 25 | 0 | 25 | 45% | 2000 | 35 | 35% | 62% |
| 1951 | 26 | 1 | 27 | 48% | 1954 | 35 | 36% | 62% |
| 1952 | 26 | 16 | 42 | 75% | 1972 | 34 | 37% | 61% |
| 1953 | 29 | 26 | 55 | 99% | 1964 | 34 | 38% | 61% |
| 1954 | 31 | 4 | 35 | 62% | 1963 | 34 | 40% | 61% |
| 1955 | 20 | 5 | 25 | 44% | 1987 | 33 | 41% | 59% |
| 1956 | 24 | 1 | 25 | 46% | 1973 | 32 | 42% | 58% |
| 1957 | 25 | 24 | 50 | 89% | 1996 | 32 | 43% | 57% |
| 1958 | 28 | 3 | 31 | 55% | 1980 | 32 | 44% | 57% |
| 1959 | 23 | 28 | 50 | 91% | 1947 | 31 | 46% | 56% |
| 1960 | 25 | 3 | 28 | 50% | 1993 | 31 | 47% | 55% |
| 1961 | 18 | 3 | 21 | 37% | 1958 | 31 | 48% | 55% |
| 1962 | 26 | 0 | 26 | 46% | 2001 | 30 | 49% | 54% |
| 1963 | 31 | 3 | 34 | 61% | 1945 | 30 | 51% | 54% |
| 1964 | 29 | 5 | 34 | 61% | 1969 | 30 | 52% | 54% |
| 1965 | 26 | 4 | 30 | 53% | 1927 | 30 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 28 | 1 | 29 | 52% | 1965 | 30 | 54% | 53% |
| 1967 | 27 | 12 | 39 | 69% | 1989 | 30 | 56% | 53% |
| 1968 | 29 | 27 | 56 | 100% | 1941 | 30 | 57% | 53% |
| 1969 | 28 | 2 | 30 | 54% | 1937 | 29 | 58% | 53% |
| 1970 | 26 | 15 | 41 | 74% | 1966 | 29 | 59% | 52% |
| 1971 | 25 | 15 | 40 | 71% | 1936 | 29 | 60% | 52% |
| 1972 | 31 | 3 | 34 | 61% | 1940 | 28 | 62% | 51% |
| 1973 | 28 | 4 | 32 | 58% | 1922 | 28 | 63% | 51% |
| 1974 | 24 | 11 | 36 | 64% | 1982 | 28 | 64% | 50% |
| 1975 | 28 | 25 | 52 | 94% | 1995 | 28 | 65% | 50% |
| 1976 | 30 | 12 | 42 | 75% | 1960 | 28 | 67% | 50% |
| 1977 | 4 | 0 | 4 | 7% | 1951 | 27 | 68% | 48% |
| 1978 | 23 | 0 | 23 | 41% | 1962 | 26 | 69% | 46% |
| 1979 | 30 | 23 | 52 | 94% | 1929 | 26 | 70% | 46% |
| 1980 | 24 | 7 | 32 | 57% | 1956 | 25 | 72% | 46% |
| 1981 | 28 | 24 | 53 | 94% | 1950 | 25 | 73% | 45% |
| 1982 | 28 | 0 | 28 | 50% | 1955 | 25 | 74% | 44% |
| 1983 | 28 | 25 | 52 | 94% | 1948 | 25 | 75% | 44% |
| 1984 | 26 | 15 | 40 | 72% | 1944 | 24 | 77% | 43% |
| 1985 | 28 | 8 | 36 | 64% | 1978 | 23 | 78% | 41% |
| 1986 | 25 | 10 | 35 | 62% | 1935 | 23 | 79% | 41% |
| 1987 | 15 | 17 | 33 | 59% | 1994 | 22 | 80% | 40% |
| 1988 | 6 | 0 | 6 | 11% | 1949 | 22 | 81% | 39% |
| 1989 | 30 | 0 | 30 | 53% | 2002 | 21 | 83% | 38% |
| 1990 | 7 | 0 | 7 | 13% | 1961 | 21 | 84% | 37% |
| 1991 | 14 | 0 | 14 | 25% | 1926 | 20 | 85% | 36% |
| 1992 | 9 | 0 | 9 | 17% | 1933 | 20 | 86% | 36% |
| 1993 | 31 | 0 | 31 | 55% | 1931 | 20 | 88% | 35% |
| 1994 | 17 | 5 | 22 | 40% | 1932 | 16 | 89% | 29% |
| 1995 | 28 | 0 | 28 | 50% | 1924 | 15 | 90% | 27% |
| 1996 | 24 | 8 | 32 | 57% | 1925 | 14 | 91% | 26% |
| 1997 | 25 | 14 | 39 | 70% | 1991 | 14 | 93% | 25% |
| 1998 | 28 | 17 | 45 | 80% | 1934 | 11 | 94% | 20% |
| 1999 | 28 | 28 | 56 | 100% | 1992 | 9 | 95% | 17% |
| 2000 | 26 | 9 | 35 | 62% | 1930 | 8 | 96% | 14% |
| 2001 | 15 | 16 | 30 | 54% | 1990 | 7 | 98% | 13% |
| 2002 | 21 | 0 | 21 | 38% | 1988 | 6 | 99% | 11% |
| 2003 | 50 | 0 | 50 | 90% | 1977 | 4 | 100% | 7% |
| Average | 24 | 8 | 32 | 57% | | 32 | | 57% |
| Maximum | 50 | 28 | 56 | 100% | | 56 | | 100% |
| Minimum | 4 | 0 | 4 | 7% | | 4 | | 7% |

Table A-12. Dudley Ridge WD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 25 | 0 | 25 | 57% | 1983 | 44 | 0% | 100% |
| 1923 | 25 | 6 | 31 | 71% | 1998 | 42 | 1% | 94% |
| 1924 | 6 | 6 | 11 | 26% | 1938 | 41 | 2% | 92% |
| 1925 | 11 | 0 | 11 | 25% | 1967 | 39 | 4% | 88% |
| 1926 | 16 | 1 | 17 | 37% | 1952 | 39 | 5% | 88% |
| 1927 | 26 | 2 | 28 | 63% | 1943 | 38 | 6% | 86% |
| 1928 | 25 | 7 | 32 | 72% | 1942 | 37 | 7% | 84% |
| 1929 | 13 | 5 | 18 | 41% | 1999 | 37 | 9% | 83% |
| 1930 | 6 | 0 | 6 | 14% | 1958 | 37 | 10% | 83% |
| 1931 | 15 | 0 | 15 | 35% | 1974 | 36 | 11% | 82% |
| 1932 | 11 | 2 | 13 | 29% | 1969 | 36 | 12% | 82% |
| 1933 | 16 | 0 | 16 | 36% | 1975 | 36 | 14% | 81% |
| 1934 | 7 | 2 | 9 | 20% | 1941 | 36 | 15% | 80% |
| 1935 | 27 | 0 | 28 | 63% | 1996 | 35 | 16% | 80% |
| 1936 | 21 | 2 | 23 | 51% | 1968 | 35 | 17% | 78% |
| 1937 | 26 | 3 | 29 | 65% | 1995 | 35 | 19% | 78% |
| 1938 | 34 | 7 | 41 | 92% | 1979 | 35 | 20% | 78% |
| 1939 | 24 | 9 | 33 | 74% | 1980 | 34 | 21% | 78% |
| 1940 | 22 | 0 | 22 | 50% | 1982 | 34 | 22% | 77% |
| 1941 | 31 | 4 | 36 | 80% | 1997 | 34 | 23% | 76% |
| 1942 | 26 | 11 | 37 | 84% | 1953 | 34 | 25% | 76% |
| 1943 | 30 | 8 | 38 | 86% | 1970 | 33 | 26% | 76% |
| 1944 | 15 | 4 | 19 | 42% | 1986 | 33 | 27% | 74% |
| 1945 | 25 | 2 | 27 | 62% | 1984 | 33 | 28% | 74% |
| 1946 | 23 | 6 | 29 | 65% | 1939 | 33 | 30% | 74% |
| 1947 | 21 | 3 | 25 | 56% | 1928 | 32 | 31% | 72% |
| 1948 | 19 | 0 | 19 | 43% | 2000 | 31 | 32% | 71% |
| 1949 | 14 | 3 | 17 | 39% | 1923 | 31 | 33% | 71% |
| 1950 | 19 | 1 | 21 | 47% | 1956 | 31 | 35% | 69% |
| 1951 | 26 | 1 | 27 | 62% | 1973 | 30 | 36% | 68% |
| 1952 | 31 | 8 | 39 | 88% | 1957 | 30 | 37% | 67% |
| 1953 | 23 | 11 | 34 | 76% | 1959 | 29 | 38% | 66% |
| 1954 | 25 | 4 | 29 | 65% | 1946 | 29 | 40% | 65% |
| 1955 | 16 | 1 | 17 | 38% | 1954 | 29 | 41% | 65% |
| 1956 | 30 | 1 | 31 | 69% | 1937 | 29 | 42% | 65% |
| 1957 | 20 | 10 | 30 | 67% | 1927 | 28 | 43% | 63% |
| 1958 | 34 | 3 | 37 | 83% | 1935 | 28 | 44% | 63% |
| 1959 | 18 | 12 | 29 | 66% | 1978 | 28 | 46% | 63% |
| 1960 | 20 | 3 | 22 | 51% | 1963 | 28 | 47% | 62% |
| 1961 | 13 | 3 | 17 | 37% | 1951 | 27 | 48% | 62% |
| 1962 | 20 | 1 | 21 | 48% | 1945 | 27 | 49% | 62% |
| 1963 | 24 | 3 | 28 | 62% | 1964 | 27 | 51% | 62% |
| 1964 | 22 | 5 | 27 | 62% | 1972 | 27 | 52% | 61% |
| 1965 | 20 | 4 | 25 | 55% | 1966 | 27 | 53% | 61% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 26 | 1 | 27 | 61% | 1985 | 27 | 54% | 61% |
| 1967 | 32 | 7 | 39 | 88% | 1971 | 27 | 56% | 60% |
| 1968 | 24 | 11 | 35 | 78% | 1981 | 26 | 57% | 59% |
| 1969 | 34 | 2 | 36 | 82% | 1922 | 25 | 58% | 57% |
| 1970 | 26 | 7 | 33 | 76% | 1993 | 25 | 59% | 56% |
| 1971 | 19 | 7 | 27 | 60% | 1947 | 25 | 60% | 56% |
| 1972 | 24 | 3 | 27 | 61% | 1965 | 25 | 62% | 55% |
| 1973 | 26 | 5 | 30 | 68% | 1976 | 25 | 63% | 55% |
| 1974 | 30 | 7 | 36 | 82% | 1936 | 23 | 64% | 51% |
| 1975 | 26 | 10 | 36 | 81% | 1960 | 22 | 65% | 51% |
| 1976 | 19 | 6 | 25 | 55% | 1940 | 22 | 67% | 50% |
| 1977 | 3 | 0 | 3 | 7% | 1962 | 21 | 68% | 48% |
| 1978 | 28 | 0 | 28 | 63% | 1950 | 21 | 69% | 47% |
| 1979 | 25 | 9 | 35 | 78% | 2003 | 21 | 70% | 46% |
| 1980 | 30 | 5 | 34 | 78% | 1987 | 20 | 72% | 44% |
| 1981 | 16 | 10 | 26 | 59% | 1948 | 19 | 73% | 43% |
| 1982 | 34 | 0 | 34 | 77% | 2001 | 19 | 74% | 42% |
| 1983 | 34 | 11 | 44 | 100% | 1944 | 19 | 75% | 42% |
| 1984 | 26 | 7 | 33 | 74% | 1989 | 18 | 77% | 41% |
| 1985 | 26 | 1 | 27 | 61% | 1929 | 18 | 78% | 41% |
| 1986 | 26 | 7 | 33 | 74% | 1994 | 18 | 79% | 40% |
| 1987 | 12 | 8 | 20 | 44% | 2002 | 18 | 80% | 40% |
| 1988 | 5 | 1 | 5 | 12% | 1949 | 17 | 81% | 39% |
| 1989 | 18 | 0 | 18 | 41% | 1955 | 17 | 83% | 38% |
| 1990 | 5 | 0 | 6 | 13% | 1961 | 17 | 84% | 37% |
| 1991 | 11 | 0 | 11 | 25% | 1926 | 17 | 85% | 37% |
| 1992 | 7 | 1 | 8 | 18% | 1933 | 16 | 86% | 36% |
| 1993 | 24 | 1 | 25 | 56% | 1931 | 15 | 88% | 35% |
| 1994 | 13 | 5 | 18 | 40% | 1932 | 13 | 89% | 29% |
| 1995 | 34 | 1 | 35 | 78% | 1924 | 11 | 90% | 26% |
| 1996 | 29 | 6 | 35 | 80% | 1925 | 11 | 91% | 25% |
| 1997 | 26 | 7 | 34 | 76% | 1991 | 11 | 93% | 25% |
| 1998 | 34 | 8 | 42 | 94% | 1934 | 9 | 94% | 20% |
| 1999 | 25 | 12 | 37 | 83% | 1992 | 8 | 95% | 18% |
| 2000 | 26 | 5 | 31 | 71% | 1930 | 6 | 96% | 14% |
| 2001 | 11 | 8 | 19 | 42% | 1990 | 6 | 98% | 13% |
| 2002 | 17 | 1 | 18 | 40% | 1988 | 5 | 99% | 12% |
| 2003 | 20 | 0 | 21 | 46% | 1977 | 3 | 100% | 7% |
| Average | 22 | 4 | 26 | 58% | | 26 | | 58% |
| Maximum | 34 | 12 | 44 | 100% | | 44 | | 100% |
| Minimum | 3 | 0 | 3 | 7% | | 3 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 64% | 1983 | 3 | 0% | 100% |
| 1923 | 2 | 0 | 2 | 69% | 1998 | 3 | 1% | 96% |
| 1924 | 0 | 0 | 1 | 18% | 1938 | 3 | 2% | 95% |
| 1925 | 1 | 0 | 1 | 26% | 1967 | 3 | 4% | 91% |
| 1926 | 1 | 0 | 1 | 39% | 1969 | 3 | 5% | 90% |
| 1927 | 2 | 0 | 2 | 66% | 1958 | 3 | 6% | 90% |
| 1928 | 2 | 0 | 2 | 70% | 1952 | 3 | 7% | 90% |
| 1929 | 1 | 0 | 1 | 36% | 1982 | 3 | 9% | 88% |
| 1930 | 0 | 0 | 0 | 14% | 1996 | 3 | 10% | 88% |
| 1931 | 1 | 0 | 1 | 38% | 1995 | 3 | 11% | 88% |
| 1932 | 1 | 0 | 1 | 27% | 1943 | 3 | 12% | 86% |
| 1933 | 1 | 0 | 1 | 39% | 1941 | 3 | 14% | 85% |
| 1934 | 0 | 0 | 1 | 17% | 1974 | 2 | 15% | 83% |
| 1935 | 2 | 0 | 2 | 71% | 1980 | 2 | 16% | 81% |
| 1936 | 2 | 0 | 2 | 55% | 1942 | 2 | 17% | 79% |
| 1937 | 2 | 0 | 2 | 68% | 1956 | 2 | 19% | 78% |
| 1938 | 3 | 0 | 3 | 95% | 1970 | 2 | 20% | 77% |
| 1939 | 2 | 0 | 2 | 69% | 1999 | 2 | 21% | 77% |
| 1940 | 2 | 0 | 2 | 55% | 1997 | 2 | 22% | 77% |
| 1941 | 2 | 0 | 3 | 85% | 1984 | 2 | 23% | 76% |
| 1942 | 2 | 0 | 2 | 79% | 1975 | 2 | 25% | 76% |
| 1943 | 2 | 0 | 3 | 86% | 1986 | 2 | 26% | 74% |
| 1944 | 1 | 0 | 1 | 44% | 1979 | 2 | 27% | 74% |
| 1945 | 2 | 0 | 2 | 65% | 1978 | 2 | 28% | 72% |
| 1946 | 2 | 0 | 2 | 62% | 2000 | 2 | 30% | 72% |
| 1947 | 2 | 0 | 2 | 56% | 1935 | 2 | 31% | 71% |
| 1948 | 1 | 0 | 1 | 47% | 1968 | 2 | 32% | 71% |
| 1949 | 1 | 0 | 1 | 36% | 1985 | 2 | 33% | 70% |
| 1950 | 1 | 0 | 1 | 48% | 1928 | 2 | 35% | 70% |
| 1951 | 2 | 0 | 2 | 68% | 1923 | 2 | 36% | 69% |
| 1952 | 2 | 0 | 3 | 90% | 1939 | 2 | 37% | 69% |
| 1953 | 2 | 0 | 2 | 68% | 1953 | 2 | 38% | 68% |
| 1954 | 2 | 0 | 2 | 65% | 1973 | 2 | 40% | 68% |
| 1955 | 1 | 0 | 1 | 42% | 1951 | 2 | 41% | 68% |
| 1956 | 2 | 0 | 2 | 78% | 1937 | 2 | 42% | 68% |
| 1957 | 1 | 0 | 2 | 59% | 1927 | 2 | 43% | 66% |
| 1958 | 3 | 0 | 3 | 90% | 1966 | 2 | 44% | 66% |
| 1959 | 1 | 0 | 2 | 56% | 1945 | 2 | 46% | 65% |
| 1960 | 1 | 0 | 1 | 50% | 1954 | 2 | 47% | 65% |
| 1961 | 1 | 0 | 1 | 34% | 1922 | 2 | 48% | 64% |
| 1962 | 1 | 0 | 1 | 50% | 1981 | 2 | 49% | 63% |
| 1963 | 2 | 0 | 2 | 63% | 1963 | 2 | 51% | 63% |
| 1964 | 2 | 0 | 2 | 60% | 1946 | 2 | 52% | 62% |
| 1965 | 1 | 0 | 2 | 53% | 1976 | 2 | 53% | 62% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 2 | 0 | 2 | 66% | 1972 | 2 | 54% | 62% |
| 1967 | 3 | 0 | 3 | 91% | 1993 | 2 | 56% | 61% |
| 1968 | 2 | 0 | 2 | 71% | 1964 | 2 | 57% | 60% |
| 1969 | 3 | 0 | 3 | 90% | 1957 | 2 | 58% | 59% |
| 1970 | 2 | 0 | 2 | 77% | 1947 | 2 | 59% | 56% |
| 1971 | 1 | 0 | 2 | 55% | 1959 | 2 | 60% | 56% |
| 1972 | 2 | 0 | 2 | 62% | 1989 | 2 | 62% | 56% |
| 1973 | 2 | 0 | 2 | 68% | 1936 | 2 | 63% | 55% |
| 1974 | 2 | 0 | 2 | 83% | 1971 | 2 | 64% | 55% |
| 1975 | 2 | 0 | 2 | 76% | 1940 | 2 | 65% | 55% |
| 1976 | 2 | 0 | 2 | 62% | 1965 | 2 | 67% | 53% |
| 1977 | 0 | 0 | 0 | 7% | 1960 | 1 | 68% | 50% |
| 1978 | 2 | 0 | 2 | 72% | 1962 | 1 | 69% | 50% |
| 1979 | 2 | 0 | 2 | 74% | 1950 | 1 | 70% | 48% |
| 1980 | 2 | 0 | 2 | 81% | 1948 | 1 | 72% | 47% |
| 1981 | 2 | 0 | 2 | 63% | 1944 | 1 | 73% | 44% |
| 1982 | 3 | 0 | 3 | 88% | 1955 | 1 | 74% | 42% |
| 1983 | 3 | 0 | 3 | 100% | 2002 | 1 | 75% | 41% |
| 1984 | 2 | 0 | 2 | 76% | 2003 | 1 | 77% | 40% |
| 1985 | 2 | 0 | 2 | 70% | 1926 | 1 | 78% | 39% |
| 1986 | 2 | 0 | 2 | 74% | 1933 | 1 | 79% | 39% |
| 1987 | 1 | 0 | 1 | 36% | 1931 | 1 | 80% | 38% |
| 1988 | 0 | 0 | 0 | 11% | 1949 | 1 | 81% | 36% |
| 1989 | 2 | 0 | 2 | 56% | 1987 | 1 | 83% | 36% |
| 1990 | 0 | 0 | 0 | 13% | 1929 | 1 | 84% | 36% |
| 1991 | 1 | 0 | 1 | 25% | 1994 | 1 | 85% | 34% |
| 1992 | 0 | 0 | 1 | 17% | 2001 | 1 | 86% | 34% |
| 1993 | 2 | 0 | 2 | 61% | 1961 | 1 | 88% | 34% |
| 1994 | 1 | 0 | 1 | 34% | 1932 | 1 | 89% | 27% |
| 1995 | 3 | 0 | 3 | 88% | 1925 | 1 | 90% | 26% |
| 1996 | 2 | 0 | 3 | 88% | 1991 | 1 | 91% | 25% |
| 1997 | 2 | 0 | 2 | 77% | 1924 | 1 | 93% | 18% |
| 1998 | 3 | 0 | 3 | 96% | 1934 | 1 | 94% | 17% |
| 1999 | 2 | 0 | 2 | 77% | 1992 | 1 | 95% | 17% |
| 2000 | 2 | 0 | 2 | 72% | 1930 | 0 | 96% | 14% |
| 2001 | 1 | 0 | 1 | 34% | 1990 | 0 | 98% | 13% |
| 2002 | 1 | 0 | 1 | 41% | 1988 | 0 | 99% | 11% |
| 2003 | 1 | 0 | 1 | 40% | 1977 | 0 | 100% | 7% |
| Average | 2 | 0 | 2 | 59% | | 2 | | 59% |
| Maximum | 3 | 0 | 3 | 100% | | 3 | | 100% |
| Minimum | 0 | 0 | 0 | 7% | | 0 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 560 | 0 | 560 | 66% | 1983 | 848 | 0% | 100% |
| 1923 | 545 | 34 | 579 | 68% | 1998 | 818 | 1% | 96% |
| 1924 | 115 | 26 | 141 | 17% | 1938 | 808 | 2% | 95% |
| 1925 | 217 | 1 | 218 | 26% | 1969 | 780 | 4% | 92% |
| 1926 | 335 | 1 | 336 | 40% | 1967 | 774 | 5% | 91% |
| 1927 | 565 | 5 | 570 | 67% | 1958 | 773 | 6% | 91% |
| 1928 | 548 | 37 | 586 | 69% | 1982 | 770 | 7% | 91% |
| 1929 | 221 | 28 | 249 | 29% | 1995 | 766 | 9% | 90% |
| 1930 | 117 | 2 | 119 | 14% | 1952 | 762 | 10% | 90% |
| 1931 | 324 | 0 | 325 | 38% | 1996 | 739 | 11% | 87% |
| 1932 | 213 | 5 | 218 | 26% | 1943 | 734 | 12% | 86% |
| 1933 | 331 | 1 | 333 | 39% | 1941 | 730 | 14% | 86% |
| 1934 | 131 | 5 | 137 | 16% | 1974 | 710 | 15% | 84% |
| 1935 | 622 | 1 | 623 | 73% | 1980 | 696 | 16% | 82% |
| 1936 | 444 | 35 | 479 | 56% | 1956 | 675 | 17% | 80% |
| 1937 | 574 | 6 | 580 | 68% | 1942 | 666 | 19% | 78% |
| 1938 | 767 | 41 | 808 | 95% | 1984 | 650 | 20% | 77% |
| 1939 | 304 | 81 | 385 | 45% | 1970 | 649 | 21% | 77% |
| 1940 | 472 | 3 | 475 | 56% | 1997 | 648 | 22% | 76% |
| 1941 | 715 | 15 | 730 | 86% | 1999 | 639 | 23% | 75% |
| 1942 | 590 | 76 | 666 | 78% | 1975 | 635 | 25% | 75% |
| 1943 | 681 | 53 | 734 | 86% | 1978 | 627 | 26% | 74% |
| 1944 | 311 | 70 | 380 | 45% | 1986 | 626 | 27% | 74% |
| 1945 | 557 | 4 | 561 | 66% | 1935 | 623 | 28% | 73% |
| 1946 | 492 | 32 | 524 | 62% | 1979 | 615 | 30% | 73% |
| 1947 | 406 | 15 | 421 | 50% | 2000 | 611 | 31% | 72% |
| 1948 | 405 | 3 | 408 | 48% | 1985 | 600 | 32% | 71% |
| 1949 | 291 | 6 | 297 | 35% | 1968 | 587 | 33% | 69% |
| 1950 | 414 | 2 | 416 | 49% | 1928 | 586 | 35% | 69% |
| 1951 | 583 | 3 | 586 | 69% | 1951 | 586 | 36% | 69% |
| 1952 | 715 | 47 | 762 | 90% | 1937 | 580 | 37% | 68% |
| 1953 | 491 | 76 | 567 | 67% | 1973 | 580 | 38% | 68% |
| 1954 | 531 | 15 | 547 | 64% | 1923 | 579 | 40% | 68% |
| 1955 | 332 | 17 | 349 | 41% | 1927 | 570 | 41% | 67% |
| 1956 | 673 | 2 | 675 | 80% | 1966 | 570 | 42% | 67% |
| 1957 | 418 | 71 | 490 | 58% | 1953 | 567 | 43% | 67% |
| 1958 | 767 | 7 | 773 | 91% | 1945 | 561 | 44% | 66% |
| 1959 | 376 | 81 | 457 | 54% | 1922 | 560 | 46% | 66% |
| 1960 | 418 | 6 | 424 | 50% | 1954 | 547 | 47% | 64% |
| 1961 | 270 | 7 | 277 | 33% | 1963 | 534 | 48% | 63% |
| 1962 | 428 | 2 | 430 | 51% | 1993 | 530 | 49% | 63% |
| 1963 | 527 | 7 | 534 | 63% | 1972 | 529 | 51% | 62% |
| 1964 | 484 | 19 | 503 | 59% | 1946 | 524 | 52% | 62% |
| 1965 | 433 | 15 | 448 | 53% | 1964 | 503 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 567 | 3 | 570 | 67% | 1957 | 490 | 54% | 58% |
| 1967 | 736 | 37 | 774 | 91% | 1936 | 479 | 56% | 56% |
| 1968 | 509 | 78 | 587 | 69% | 1940 | 475 | 57% | 56% |
| 1969 | 767 | 13 | 780 | 92% | 1976 | 473 | 58% | 56% |
| 1970 | 580 | 69 | 649 | 77% | 1959 | 457 | 59% | 54% |
| 1971 | 408 | 46 | 455 | 54% | 1971 | 455 | 60% | 54% |
| 1972 | 522 | 7 | 529 | 62% | 1981 | 452 | 62% | 53% |
| 1973 | 563 | 16 | 580 | 68% | 1965 | 448 | 63% | 53% |
| 1974 | 674 | 36 | 710 | 84% | 1962 | 430 | 64% | 51% |
| 1975 | 564 | 72 | 635 | 75% | 1960 | 424 | 65% | 50% |
| 1976 | 436 | 37 | 473 | 56% | 1947 | 421 | 67% | 50% |
| 1977 | 55 | 3 | 58 | 7% | 1950 | 416 | 68% | 49% |
| 1978 | 627 | 0 | 627 | 74% | 1948 | 408 | 69% | 48% |
| 1979 | 549 | 67 | 615 | 73% | 2003 | 388 | 70% | 46% |
| 1980 | 672 | 24 | 696 | 82% | 1939 | 385 | 72% | 45% |
| 1981 | 381 | 71 | 452 | 53% | 1944 | 380 | 73% | 45% |
| 1982 | 767 | 3 | 770 | 91% | 1989 | 377 | 74% | 44% |
| 1983 | 767 | 81 | 848 | 100% | 2002 | 356 | 75% | 42% |
| 1984 | 583 | 67 | 650 | 77% | 1955 | 349 | 77% | 41% |
| 1985 | 572 | 28 | 600 | 71% | 1926 | 336 | 78% | 40% |
| 1986 | 588 | 38 | 626 | 74% | 1933 | 333 | 79% | 39% |
| 1987 | 234 | 51 | 286 | 34% | 1931 | 325 | 80% | 38% |
| 1988 | 91 | 1 | 92 | 11% | 1949 | 297 | 81% | 35% |
| 1989 | 377 | 1 | 377 | 44% | 1987 | 286 | 83% | 34% |
| 1990 | 110 | 3 | 113 | 13% | 1994 | 278 | 84% | 33% |
| 1991 | 210 | 1 | 211 | 25% | 1961 | 277 | 85% | 33% |
| 1992 | 140 | 1 | 141 | 17% | 2001 | 269 | 86% | 32% |
| 1993 | 530 | 1 | 530 | 63% | 1929 | 249 | 88% | 29% |
| 1994 | 258 | 19 | 278 | 33% | 1932 | 218 | 89% | 26% |
| 1995 | 765 | 2 | 766 | 90% | 1925 | 218 | 90% | 26% |
| 1996 | 658 | 81 | 739 | 87% | 1991 | 211 | 91% | 25% |
| 1997 | 588 | 60 | 648 | 76% | 1992 | 141 | 93% | 17% |
| 1998 | 767 | 52 | 818 | 96% | 1924 | 141 | 94% | 17% |
| 1999 | 558 | 81 | 639 | 75% | 1934 | 137 | 95% | 16% |
| 2000 | 582 | 28 | 611 | 72% | 1930 | 119 | 96% | 14% |
| 2001 | 222 | 47 | 269 | 32% | 1990 | 113 | 98% | 13% |
| 2002 | 355 | 1 | 356 | 42% | 1988 | 92 | 99% | 11% |
| 2003 | 385 | 3 | 388 | 46% | 1977 | 58 | 100% | 7% |
| Average | 469 | 27 | 495 | 58% | | 495 | | 58% |
| Maximum | 767 | 81 | 848 | 100% | | 848 | | 100% |
| Minimum | 55 | 0 | 58 | 7% | | 58 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 94 | 0 | 94 | 70% | 1958 | 135 | 0% | 100% |
| 1923 | 91 | 0 | 91 | 67% | 1969 | 135 | 0% | 100% |
| 1924 | 18 | 0 | 18 | 14% | 1982 | 135 | 0% | 100% |
| 1925 | 35 | 0 | 35 | 26% | 1983 | 135 | 0% | 100% |
| 1926 | 54 | 0 | 54 | 40% | 1998 | 135 | 0% | 100% |
| 1927 | 96 | 0 | 96 | 71% | 1938 | 135 | 0% | 100% |
| 1928 | 92 | 0 | 92 | 68% | 1995 | 134 | 7% | 100% |
| 1929 | 41 | 0 | 41 | 31% | 1967 | 129 | 9% | 96% |
| 1930 | 19 | 0 | 19 | 14% | 1952 | 125 | 10% | 93% |
| 1931 | 52 | 0 | 52 | 39% | 1941 | 125 | 10% | 93% |
| 1932 | 34 | 0 | 34 | 25% | 1943 | 120 | 12% | 89% |
| 1933 | 54 | 0 | 54 | 40% | 1974 | 118 | 14% | 88% |
| 1934 | 21 | 0 | 21 | 16% | 1956 | 118 | 15% | 88% |
| 1935 | 109 | 0 | 109 | 81% | 1980 | 118 | 16% | 88% |
| 1936 | 72 | 0 | 72 | 53% | 1996 | 116 | 17% | 86% |
| 1937 | 98 | 0 | 98 | 73% | 1978 | 110 | 19% | 82% |
| 1938 | 135 | 0 | 135 | 100% | 1935 | 109 | 20% | 81% |
| 1939 | 47 | 0 | 47 | 35% | 1942 | 102 | 21% | 76% |
| 1940 | 77 | 0 | 77 | 57% | 1997 | 102 | 22% | 75% |
| 1941 | 125 | 0 | 125 | 93% | 1986 | 101 | 23% | 75% |
| 1942 | 102 | 0 | 102 | 76% | 1984 | 100 | 25% | 74% |
| 1943 | 120 | 0 | 120 | 89% | 1951 | 100 | 26% | 74% |
| 1944 | 50 | 0 | 50 | 37% | 2000 | 100 | 27% | 74% |
| 1945 | 93 | 0 | 93 | 69% | 1970 | 99 | 28% | 74% |
| 1946 | 81 | 0 | 81 | 60% | 1937 | 98 | 30% | 73% |
| 1947 | 75 | 0 | 75 | 56% | 1985 | 97 | 31% | 72% |
| 1948 | 65 | 0 | 65 | 48% | 1966 | 96 | 32% | 71% |
| 1949 | 47 | 0 | 47 | 35% | 1927 | 96 | 33% | 71% |
| 1950 | 67 | 0 | 67 | 50% | 1975 | 95 | 35% | 71% |
| 1951 | 100 | 0 | 100 | 74% | 1973 | 95 | 36% | 71% |
| 1952 | 125 | 0 | 125 | 93% | 1922 | 94 | 37% | 70% |
| 1953 | 80 | 0 | 80 | 60% | 1999 | 94 | 38% | 70% |
| 1954 | 88 | 0 | 88 | 65% | 1945 | 93 | 40% | 69% |
| 1955 | 54 | 0 | 54 | 40% | 1928 | 92 | 41% | 68% |
| 1956 | 118 | 0 | 118 | 88% | 1979 | 91 | 42% | 68% |
| 1957 | 67 | 0 | 67 | 50% | 1923 | 91 | 43% | 67% |
| 1958 | 135 | 0 | 135 | 100% | 1954 | 88 | 44% | 65% |
| 1959 | 61 | 0 | 61 | 45% | 1993 | 87 | 46% | 65% |
| 1960 | 67 | 0 | 67 | 50% | 1963 | 87 | 47% | 64% |
| 1961 | 43 | 0 | 43 | 32% | 1972 | 85 | 48% | 64% |
| 1962 | 69 | 0 | 69 | 51% | 1968 | 83 | 49% | 62% |
| 1963 | 87 | 0 | 87 | 64% | 1946 | 81 | 51% | 60% |
| 1964 | 79 | 0 | 79 | 59% | 1953 | 80 | 52% | 60% |
| 1965 | 70 | 0 | 70 | 52% | 1964 | 79 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 96 | 0 | 96 | 71% | 1940 | 77 | 54% | 57% |
| 1967 | 129 | 0 | 129 | 96% | 1947 | 75 | 56% | 56% |
| 1968 | 83 | 0 | 83 | 62% | 1936 | 72 | 57% | 53% |
| 1969 | 135 | 0 | 135 | 100% | 1965 | 70 | 58% | 52% |
| 1970 | 99 | 0 | 99 | 74% | 1962 | 69 | 59% | 51% |
| 1971 | 66 | 0 | 66 | 49% | 2003 | 68 | 60% | 51% |
| 1972 | 85 | 0 | 85 | 64% | 1957 | 67 | 62% | 50% |
| 1973 | 95 | 0 | 95 | 71% | 1960 | 67 | 63% | 50% |
| 1974 | 118 | 0 | 118 | 88% | 1950 | 67 | 64% | 50% |
| 1975 | 95 | 0 | 95 | 71% | 1976 | 66 | 65% | 49% |
| 1976 | 66 | 0 | 66 | 49% | 1971 | 66 | 67% | 49% |
| 1977 | 9 | 0 | 9 | 6% | 1948 | 65 | 68% | 48% |
| 1978 | 110 | 0 | 110 | 82% | 1981 | 64 | 69% | 47% |
| 1979 | 91 | 0 | 91 | 68% | 1959 | 61 | 70% | 45% |
| 1980 | 118 | 0 | 118 | 88% | 2002 | 57 | 72% | 43% |
| 1981 | 64 | 0 | 64 | 47% | 1989 | 55 | 73% | 41% |
| 1982 | 135 | 0 | 135 | 100% | 1926 | 54 | 74% | 40% |
| 1983 | 135 | 0 | 135 | 100% | 1933 | 54 | 75% | 40% |
| 1984 | 100 | 0 | 100 | 74% | 1955 | 54 | 77% | 40% |
| 1985 | 97 | 0 | 97 | 72% | 1931 | 52 | 78% | 39% |
| 1986 | 101 | 0 | 101 | 75% | 1944 | 50 | 79% | 37% |
| 1987 | 37 | 0 | 37 | 28% | 1939 | 47 | 80% | 35% |
| 1988 | 14 | 0 | 14 | 11% | 1949 | 47 | 81% | 35% |
| 1989 | 55 | 0 | 55 | 41% | 1961 | 43 | 83% | 32% |
| 1990 | 18 | 0 | 18 | 13% | 1929 | 41 | 84% | 31% |
| 1991 | 34 | 0 | 34 | 25% | 1994 | 41 | 85% | 31% |
| 1992 | 22 | 0 | 22 | 17% | 1987 | 37 | 86% | 28% |
| 1993 | 87 | 0 | 87 | 65% | 2001 | 35 | 88% | 26% |
| 1994 | 41 | 0 | 41 | 31% | 1925 | 35 | 89% | 26% |
| 1995 | 134 | 0 | 134 | 100% | 1932 | 34 | 90% | 25% |
| 1996 | 116 | 0 | 116 | 86% | 1991 | 34 | 91% | 25% |
| 1997 | 102 | 0 | 102 | 75% | 1992 | 22 | 93% | 17% |
| 1998 | 135 | 0 | 135 | 100% | 1934 | 21 | 94% | 16% |
| 1999 | 94 | 0 | 94 | 70% | 1930 | 19 | 95% | 14% |
| 2000 | 100 | 0 | 100 | 74% | 1924 | 18 | 96% | 14% |
| 2001 | 35 | 0 | 35 | 26% | 1990 | 18 | 98% | 13% |
| 2002 | 57 | 0 | 57 | 43% | 1988 | 14 | 99% | 11% |
| 2003 | 68 | 0 | 68 | 51% | 1977 | 9 | 100% | 6% |
| Average | 79 | 0 | 79 | 59% | | 79 | | 59% |
| Maximum | 135 | 0 | 135 | 100% | | 135 | | 100% |
| Minimum | 9 | 0 | 9 | 6% | | 9 | | 6% |

Table A-16. Littlerock Creek ID: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 70% | 1958 | 2 | 0% | 100% |
| 1923 | 2 | 0 | 2 | 67% | 1982 | 2 | 0% | 100% |
| 1924 | 0 | 0 | 0 | 14% | 1938 | 2 | 0% | 100% |
| 1925 | 1 | 0 | 1 | 26% | 1983 | 2 | 0% | 100% |
| 1926 | 1 | 0 | 1 | 40% | 1998 | 2 | 0% | 100% |
| 1927 | 2 | 0 | 2 | 71% | 1969 | 2 | 0% | 100% |
| 1928 | 2 | 0 | 2 | 68% | 1995 | 2 | 7% | 100% |
| 1929 | 1 | 0 | 1 | 31% | 1967 | 2 | 9% | 96% |
| 1930 | 0 | 0 | 0 | 14% | 1941 | 2 | 10% | 93% |
| 1931 | 1 | 0 | 1 | 39% | 1952 | 2 | 10% | 93% |
| 1932 | 1 | 0 | 1 | 25% | 1943 | 2 | 12% | 89% |
| 1933 | 1 | 0 | 1 | 40% | 1974 | 2 | 14% | 88% |
| 1934 | 0 | 0 | 0 | 16% | 1956 | 2 | 15% | 88% |
| 1935 | 2 | 0 | 2 | 81% | 1980 | 2 | 16% | 88% |
| 1936 | 1 | 0 | 1 | 53% | 1996 | 2 | 17% | 86% |
| 1937 | 2 | 0 | 2 | 73% | 1978 | 2 | 19% | 82% |
| 1938 | 2 | 0 | 2 | 100% | 1935 | 2 | 20% | 81% |
| 1939 | 1 | 0 | 1 | 40% | 1942 | 2 | 21% | 76% |
| 1940 | 1 | 0 | 1 | 57% | 1997 | 2 | 22% | 75% |
| 1941 | 2 | 0 | 2 | 93% | 1986 | 2 | 23% | 75% |
| 1942 | 2 | 0 | 2 | 76% | 1984 | 2 | 25% | 74% |
| 1943 | 2 | 0 | 2 | 89% | 1951 | 2 | 26% | 74% |
| 1944 | 1 | 0 | 1 | 37% | 2000 | 2 | 27% | 74% |
| 1945 | 2 | 0 | 2 | 69% | 1970 | 2 | 28% | 74% |
| 1946 | 1 | 0 | 1 | 60% | 1937 | 2 | 30% | 73% |
| 1947 | 1 | 0 | 1 | 56% | 1985 | 2 | 31% | 72% |
| 1948 | 1 | 0 | 1 | 48% | 1966 | 2 | 32% | 71% |
| 1949 | 1 | 0 | 1 | 35% | 1927 | 2 | 33% | 71% |
| 1950 | 1 | 0 | 1 | 50% | 1975 | 2 | 35% | 71% |
| 1951 | 2 | 0 | 2 | 74% | 1973 | 2 | 36% | 71% |
| 1952 | 2 | 0 | 2 | 93% | 1922 | 2 | 37% | 70% |
| 1953 | 1 | 0 | 1 | 60% | 1999 | 2 | 38% | 70% |
| 1954 | 1 | 0 | 1 | 65% | 1945 | 2 | 40% | 69% |
| 1955 | 1 | 0 | 1 | 40% | 1928 | 2 | 41% | 68% |
| 1956 | 2 | 0 | 2 | 88% | 1979 | 2 | 42% | 68% |
| 1957 | 1 | 0 | 1 | 50% | 1923 | 2 | 43% | 67% |
| 1958 | 2 | 0 | 2 | 100% | 1954 | 1 | 44% | 65% |
| 1959 | 1 | 0 | 1 | 45% | 1993 | 1 | 46% | 65% |
| 1960 | 1 | 0 | 1 | 50% | 1963 | 1 | 47% | 64% |
| 1961 | 1 | 0 | 1 | 32% | 1972 | 1 | 48% | 64% |
| 1962 | 1 | 0 | 1 | 51% | 1968 | 1 | 49% | 62% |
| 1963 | 1 | 0 | 1 | 64% | 1946 | 1 | 51% | 60% |
| 1964 | 1 | 0 | 1 | 59% | 1953 | 1 | 52% | 60% |
| 1965 | 1 | 0 | 1 | 52% | 1964 | 1 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 2 | 0 | 2 | 71% | 1940 | 1 | 54% | 57% |
| 1967 | 2 | 0 | 2 | 96% | 1947 | 1 | 56% | 56% |
| 1968 | 1 | 0 | 1 | 62% | 1989 | 1 | 57% | 55% |
| 1969 | 2 | 0 | 2 | 100% | 1936 | 1 | 58% | 53% |
| 1970 | 2 | 0 | 2 | 74% | 1976 | 1 | 59% | 53% |
| 1971 | 1 | 0 | 1 | 49% | 1965 | 1 | 60% | 52% |
| 1972 | 1 | 0 | 1 | 64% | 1962 | 1 | 62% | 51% |
| 1973 | 2 | 0 | 2 | 71% | 1957 | 1 | 63% | 50% |
| 1974 | 2 | 0 | 2 | 88% | 1960 | 1 | 64% | 50% |
| 1975 | 2 | 0 | 2 | 71% | 1950 | 1 | 65% | 50% |
| 1976 | 1 | 0 | 1 | 53% | 1971 | 1 | 67% | 49% |
| 1977 | 0 | 0 | 0 | 6% | 1948 | 1 | 68% | 48% |
| 1978 | 2 | 0 | 2 | 82% | 2003 | 1 | 69% | 47% |
| 1979 | 2 | 0 | 2 | 68% | 1981 | 1 | 70% | 47% |
| 1980 | 2 | 0 | 2 | 88% | 1959 | 1 | 72% | 45% |
| 1981 | 1 | 0 | 1 | 47% | 2002 | 1 | 73% | 43% |
| 1982 | 2 | 0 | 2 | 100% | 1926 | 1 | 74% | 40% |
| 1983 | 2 | 0 | 2 | 100% | 1933 | 1 | 75% | 40% |
| 1984 | 2 | 0 | 2 | 74% | 1955 | 1 | 77% | 40% |
| 1985 | 2 | 0 | 2 | 72% | 1939 | 1 | 78% | 40% |
| 1986 | 2 | 0 | 2 | 75% | 1931 | 1 | 79% | 39% |
| 1987 | 1 | 0 | 1 | 28% | 1944 | 1 | 80% | 37% |
| 1988 | 0 | 0 | 0 | 11% | 1949 | 1 | 81% | 35% |
| 1989 | 1 | 0 | 1 | 55% | 1961 | 1 | 83% | 32% |
| 1990 | 0 | 0 | 0 | 13% | 1929 | 1 | 84% | 31% |
| 1991 | 1 | 0 | 1 | 25% | 1994 | 1 | 85% | 31% |
| 1992 | 0 | 0 | 0 | 17% | 1987 | 1 | 86% | 28% |
| 1993 | 1 | 0 | 1 | 65% | 2001 | 1 | 88% | 26% |
| 1994 | 1 | 0 | 1 | 31% | 1925 | 1 | 89% | 26% |
| 1995 | 2 | 0 | 2 | 100% | 1932 | 1 | 90% | 25% |
| 1996 | 2 | 0 | 2 | 86% | 1991 | 1 | 91% | 25% |
| 1997 | 2 | 0 | 2 | 75% | 1992 | 0 | 93% | 17% |
| 1998 | 2 | 0 | 2 | 100% | 1934 | 0 | 94% | 16% |
| 1999 | 2 | 0 | 2 | 70% | 1930 | 0 | 95% | 14% |
| 2000 | 2 | 0 | 2 | 74% | 1924 | 0 | 96% | 14% |
| 2001 | 1 | 0 | 1 | 26% | 1990 | 0 | 98% | 13% |
| 2002 | 1 | 0 | 1 | 43% | 1988 | 0 | 99% | 11% |
| 2003 | 1 | 0 | 1 | 47% | 1977 | 0 | 100% | 6% |
| Average | 1 | 0 | 1 | 59% | | 1 | | 59% |
| Maximum | 2 | 0 | 2 | 100% | | 2 | | 100% |
| Minimum | 0 | 0 | 0 | 6% | | 0 | | 6% |

Table A-17. Metropolitan WDSC: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 1,234 | 0 | 1,234 | 66% | 1983 | 1,880 | 0% | 100% |
| 1923 | 1,196 | 105 | 1,302 | 69% | 1998 | 1,847 | 1% | 98% |
| 1924 | 246 | 91 | 337 | 18% | 1938 | 1,830 | 2% | 97% |
| 1925 | 466 | 14 | 480 | 26% | 1958 | 1,762 | 4% | 94% |
| 1926 | 726 | 26 | 752 | 40% | 1969 | 1,757 | 5% | 93% |
| 1927 | 1,247 | 40 | 1,287 | 68% | 1967 | 1,755 | 6% | 93% |
| 1928 | 1,205 | 111 | 1,316 | 70% | 1995 | 1,738 | 7% | 92% |
| 1929 | 556 | 84 | 640 | 34% | 1952 | 1,724 | 9% | 92% |
| 1930 | 251 | 8 | 260 | 14% | 1982 | 1,718 | 10% | 91% |
| 1931 | 703 | 2 | 704 | 37% | 1996 | 1,669 | 11% | 89% |
| 1932 | 458 | 39 | 497 | 26% | 1941 | 1,661 | 12% | 88% |
| 1933 | 721 | 8 | 729 | 39% | 1943 | 1,658 | 14% | 88% |
| 1934 | 282 | 40 | 322 | 17% | 1974 | 1,613 | 15% | 86% |
| 1935 | 1,388 | 16 | 1,404 | 75% | 1980 | 1,581 | 16% | 84% |
| 1936 | 963 | 78 | 1,041 | 55% | 1956 | 1,520 | 17% | 81% |
| 1937 | 1,269 | 45 | 1,314 | 70% | 1942 | 1,497 | 19% | 80% |
| 1938 | 1,712 | 118 | 1,830 | 97% | 1997 | 1,447 | 20% | 77% |
| 1939 | 1,002 | 156 | 1,157 | 62% | 1984 | 1,445 | 21% | 77% |
| 1940 | 1,031 | 7 | 1,037 | 55% | 1970 | 1,436 | 22% | 76% |
| 1941 | 1,596 | 66 | 1,661 | 88% | 1999 | 1,429 | 23% | 76% |
| 1942 | 1,310 | 186 | 1,497 | 80% | 1975 | 1,419 | 25% | 75% |
| 1943 | 1,520 | 138 | 1,658 | 88% | 1986 | 1,418 | 26% | 75% |
| 1944 | 672 | 157 | 829 | 44% | 1978 | 1,406 | 27% | 75% |
| 1945 | 1,226 | 37 | 1,263 | 67% | 1935 | 1,404 | 28% | 75% |
| 1946 | 1,075 | 101 | 1,176 | 63% | 2000 | 1,378 | 30% | 73% |
| 1947 | 1,002 | 53 | 1,056 | 56% | 1979 | 1,369 | 31% | 73% |
| 1948 | 877 | 7 | 884 | 47% | 1928 | 1,316 | 32% | 70% |
| 1949 | 626 | 48 | 674 | 36% | 1973 | 1,315 | 33% | 70% |
| 1950 | 897 | 35 | 931 | 50% | 1937 | 1,314 | 35% | 70% |
| 1951 | 1,291 | 22 | 1,314 | 70% | 1951 | 1,314 | 36% | 70% |
| 1952 | 1,596 | 129 | 1,724 | 92% | 1968 | 1,303 | 37% | 69% |
| 1953 | 1,074 | 186 | 1,260 | 67% | 1923 | 1,302 | 38% | 69% |
| 1954 | 1,163 | 69 | 1,232 | 66% | 1927 | 1,287 | 40% | 68% |
| 1955 | 720 | 18 | 737 | 39% | 1985 | 1,279 | 41% | 68% |
| 1956 | 1,502 | 18 | 1,520 | 81% | 1966 | 1,274 | 42% | 68% |
| 1957 | 907 | 176 | 1,082 | 58% | 1945 | 1,263 | 43% | 67% |
| 1958 | 1,712 | 50 | 1,762 | 94% | 1953 | 1,260 | 44% | 67% |
| 1959 | 815 | 200 | 1,015 | 54% | 1922 | 1,234 | 46% | 66% |
| 1960 | 906 | 45 | 951 | 51% | 1954 | 1,232 | 47% | 66% |
| 1961 | 580 | 50 | 630 | 34% | 1963 | 1,204 | 48% | 64% |
| 1962 | 928 | 32 | 960 | 51% | 1972 | 1,190 | 49% | 63% |
| 1963 | 1,153 | 51 | 1,204 | 64% | 1946 | 1,176 | 51% | 63% |
| 1964 | 1,058 | 77 | 1,135 | 60% | 1993 | 1,175 | 52% | 63% |
| 1965 | 938 | 68 | 1,006 | 53% | 1939 | 1,157 | 53% | 62% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 1,251 | 23 | 1,274 | 68% | 1981 | 1,148 | 54% | 61% |
| 1967 | 1,644 | 111 | 1,755 | 93% | 1964 | 1,135 | 56% | 60% |
| 1968 | 1,111 | 192 | 1,303 | 69% | 1957 | 1,082 | 57% | 58% |
| 1969 | 1,712 | 46 | 1,757 | 93% | 1947 | 1,056 | 58% | 56% |
| 1970 | 1,285 | 151 | 1,436 | 76% | 1936 | 1,041 | 59% | 55% |
| 1971 | 885 | 126 | 1,012 | 54% | 1940 | 1,037 | 60% | 55% |
| 1972 | 1,141 | 49 | 1,190 | 63% | 1959 | 1,015 | 62% | 54% |
| 1973 | 1,242 | 73 | 1,315 | 70% | 1976 | 1,014 | 63% | 54% |
| 1974 | 1,504 | 108 | 1,613 | 86% | 1971 | 1,012 | 64% | 54% |
| 1975 | 1,243 | 176 | 1,419 | 75% | 1965 | 1,006 | 65% | 53% |
| 1976 | 917 | 97 | 1,014 | 54% | 1989 | 992 | 67% | 53% |
| 1977 | 117 | 7 | 124 | 7% | 1962 | 960 | 68% | 51% |
| 1978 | 1,400 | 6 | 1,406 | 75% | 1960 | 951 | 69% | 51% |
| 1979 | 1,206 | 164 | 1,369 | 73% | 1950 | 931 | 70% | 50% |
| 1980 | 1,501 | 80 | 1,581 | 84% | 2003 | 929 | 72% | 49% |
| 1981 | 1,012 | 136 | 1,148 | 61% | 1948 | 884 | 73% | 47% |
| 1982 | 1,712 | 7 | 1,718 | 91% | 1944 | 829 | 74% | 44% |
| 1983 | 1,712 | 169 | 1,880 | 100% | 2002 | 797 | 75% | 42% |
| 1984 | 1,293 | 152 | 1,445 | 77% | 1926 | 752 | 77% | 40% |
| 1985 | 1,263 | 17 | 1,279 | 68% | 1955 | 737 | 78% | 39% |
| 1986 | 1,306 | 112 | 1,418 | 75% | 1933 | 729 | 79% | 39% |
| 1987 | 503 | 135 | 639 | 34% | 1931 | 704 | 80% | 37% |
| 1988 | 194 | 28 | 222 | 12% | 1949 | 674 | 81% | 36% |
| 1989 | 983 | 8 | 992 | 53% | 1929 | 640 | 83% | 34% |
| 1990 | 236 | 7 | 243 | 13% | 1987 | 639 | 84% | 34% |
| 1991 | 452 | 13 | 465 | 25% | 1994 | 634 | 85% | 34% |
| 1992 | 301 | 25 | 326 | 17% | 1961 | 630 | 86% | 34% |
| 1993 | 1,159 | 17 | 1,175 | 63% | 2001 | 605 | 88% | 32% |
| 1994 | 555 | 78 | 634 | 34% | 1932 | 497 | 89% | 26% |
| 1995 | 1,707 | 31 | 1,738 | 92% | 1925 | 480 | 90% | 26% |
| 1996 | 1,469 | 199 | 1,669 | 89% | 1991 | 465 | 91% | 25% |
| 1997 | 1,306 | 141 | 1,447 | 77% | 1924 | 337 | 93% | 18% |
| 1998 | 1,712 | 136 | 1,847 | 98% | 1992 | 326 | 94% | 17% |
| 1999 | 1,229 | 200 | 1,429 | 76% | 1934 | 322 | 95% | 17% |
| 2000 | 1,290 | 88 | 1,378 | 73% | 1930 | 260 | 96% | 14% |
| 2001 | 477 | 128 | 605 | 32% | 1990 | 243 | 98% | 13% |
| 2002 | 771 | 26 | 797 | 42% | 1988 | 222 | 99% | 12% |
| 2003 | 921 | 8 | 929 | 49% | 1977 | 124 | 100% | 7% |
| Average | 1,043 | 77 | 1,119 | 60% | | 1,119 | | 60% |
| Maximum | 1,712 | 200 | 1,880 | 100% | | 1,880 | | 100% |
| Minimum | 117 | 0 | 124 | 7% | | 124 | | 7% |

Table A-18. Mojave WA: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 39 | 0 | 39 | 48% | 1983 | 81 | 0% | 100% |
| 1923 | 39 | 21 | 60 | 74% | 1999 | 77 | 1% | 94% |
| 1924 | 11 | 19 | 29 | 36% | 1968 | 74 | 2% | 91% |
| 1925 | 20 | 1 | 21 | 26% | 1942 | 74 | 4% | 91% |
| 1926 | 30 | 2 | 32 | 39% | 1998 | 74 | 5% | 90% |
| 1927 | 39 | 4 | 43 | 53% | 1975 | 72 | 6% | 89% |
| 1928 | 39 | 22 | 61 | 75% | 1953 | 72 | 7% | 88% |
| 1929 | 24 | 17 | 42 | 51% | 1959 | 71 | 9% | 88% |
| 1930 | 11 | 0 | 11 | 14% | 1938 | 71 | 10% | 88% |
| 1931 | 29 | 0 | 29 | 36% | 1957 | 71 | 11% | 87% |
| 1932 | 20 | 4 | 24 | 30% | 1979 | 70 | 12% | 86% |
| 1933 | 30 | 1 | 30 | 37% | 1952 | 70 | 14% | 86% |
| 1934 | 12 | 4 | 17 | 21% | 1943 | 69 | 15% | 85% |
| 1935 | 39 | 1 | 40 | 49% | 1939 | 69 | 16% | 85% |
| 1936 | 40 | 3 | 43 | 53% | 1967 | 68 | 17% | 84% |
| 1937 | 39 | 5 | 44 | 54% | 1974 | 64 | 19% | 78% |
| 1938 | 48 | 23 | 71 | 88% | 1971 | 61 | 20% | 75% |
| 1939 | 40 | 29 | 69 | 85% | 1928 | 61 | 21% | 75% |
| 1940 | 35 | 0 | 35 | 43% | 1981 | 61 | 22% | 75% |
| 1941 | 45 | 14 | 59 | 72% | 1923 | 60 | 23% | 74% |
| 1942 | 39 | 35 | 74 | 91% | 1970 | 60 | 25% | 74% |
| 1943 | 43 | 26 | 69 | 85% | 1941 | 59 | 26% | 72% |
| 1944 | 28 | 7 | 35 | 43% | 1997 | 59 | 27% | 72% |
| 1945 | 39 | 4 | 43 | 53% | 1984 | 59 | 28% | 72% |
| 1946 | 37 | 20 | 57 | 70% | 1980 | 58 | 30% | 72% |
| 1947 | 34 | 11 | 46 | 56% | 1976 | 57 | 31% | 70% |
| 1948 | 36 | 0 | 37 | 45% | 1946 | 57 | 32% | 70% |
| 1949 | 27 | 5 | 32 | 40% | 2000 | 57 | 33% | 69% |
| 1950 | 37 | 3 | 40 | 49% | 1969 | 56 | 35% | 68% |
| 1951 | 39 | 2 | 41 | 51% | 1973 | 55 | 36% | 67% |
| 1952 | 45 | 25 | 70 | 86% | 1986 | 54 | 37% | 66% |
| 1953 | 37 | 35 | 72 | 88% | 1954 | 54 | 38% | 66% |
| 1954 | 39 | 15 | 54 | 66% | 1958 | 54 | 40% | 66% |
| 1955 | 30 | 4 | 33 | 41% | 1996 | 53 | 41% | 66% |
| 1956 | 42 | 2 | 44 | 54% | 1964 | 52 | 42% | 64% |
| 1957 | 37 | 33 | 71 | 87% | 1965 | 51 | 43% | 63% |
| 1958 | 48 | 6 | 54 | 66% | 1995 | 50 | 44% | 61% |
| 1959 | 34 | 38 | 71 | 88% | 1982 | 48 | 46% | 59% |
| 1960 | 37 | 5 | 42 | 52% | 1987 | 48 | 47% | 59% |
| 1961 | 25 | 6 | 31 | 38% | 2001 | 46 | 48% | 56% |
| 1962 | 38 | 2 | 40 | 50% | 1947 | 46 | 49% | 56% |
| 1963 | 39 | 6 | 45 | 55% | 1963 | 45 | 51% | 55% |
| 1964 | 36 | 16 | 52 | 64% | 1972 | 44 | 52% | 54% |
| 1965 | 39 | 13 | 51 | 63% | 1956 | 44 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 39 | 3 | 42 | 51% | 1937 | 44 | 54% | 54% |
| 1967 | 46 | 22 | 68 | 84% | 2003 | 44 | 56% | 54% |
| 1968 | 38 | 36 | 74 | 91% | 1927 | 43 | 57% | 53% |
| 1969 | 48 | 7 | 56 | 68% | 1936 | 43 | 58% | 53% |
| 1970 | 39 | 21 | 60 | 74% | 1945 | 43 | 59% | 53% |
| 1971 | 37 | 25 | 61 | 75% | 1985 | 42 | 60% | 52% |
| 1972 | 39 | 5 | 44 | 54% | 1960 | 42 | 62% | 52% |
| 1973 | 39 | 16 | 55 | 67% | 1966 | 42 | 63% | 51% |
| 1974 | 42 | 22 | 64 | 78% | 1929 | 42 | 64% | 51% |
| 1975 | 39 | 33 | 72 | 89% | 1951 | 41 | 65% | 51% |
| 1976 | 38 | 19 | 57 | 70% | 1994 | 41 | 67% | 50% |
| 1977 | 5 | 0 | 5 | 7% | 1962 | 40 | 68% | 50% |
| 1978 | 39 | 0 | 40 | 49% | 1993 | 40 | 69% | 49% |
| 1979 | 39 | 31 | 70 | 86% | 1935 | 40 | 70% | 49% |
| 1980 | 42 | 16 | 58 | 72% | 1978 | 40 | 72% | 49% |
| 1981 | 35 | 26 | 61 | 75% | 1950 | 40 | 73% | 49% |
| 1982 | 48 | 0 | 48 | 59% | 1922 | 39 | 74% | 48% |
| 1983 | 48 | 33 | 81 | 100% | 1989 | 37 | 75% | 46% |
| 1984 | 39 | 20 | 59 | 72% | 1948 | 37 | 77% | 45% |
| 1985 | 39 | 3 | 42 | 52% | 1940 | 35 | 78% | 43% |
| 1986 | 39 | 15 | 54 | 66% | 1944 | 35 | 79% | 43% |
| 1987 | 22 | 26 | 48 | 59% | 2002 | 33 | 80% | 41% |
| 1988 | 9 | 2 | 10 | 13% | 1955 | 33 | 81% | 41% |
| 1989 | 37 | 1 | 37 | 46% | 1949 | 32 | 83% | 40% |
| 1990 | 10 | 0 | 11 | 13% | 1926 | 32 | 84% | 39% |
| 1991 | 20 | 1 | 21 | 25% | 1961 | 31 | 85% | 38% |
| 1992 | 13 | 2 | 15 | 18% | 1933 | 30 | 86% | 37% |
| 1993 | 39 | 1 | 40 | 49% | 1924 | 29 | 88% | 36% |
| 1994 | 24 | 17 | 41 | 50% | 1931 | 29 | 89% | 36% |
| 1995 | 48 | 2 | 50 | 61% | 1932 | 24 | 90% | 30% |
| 1996 | 41 | 12 | 53 | 66% | 1925 | 21 | 91% | 26% |
| 1997 | 39 | 20 | 59 | 72% | 1991 | 21 | 93% | 25% |
| 1998 | 48 | 26 | 74 | 90% | 1934 | 17 | 94% | 21% |
| 1999 | 39 | 38 | 77 | 94% | 1992 | 15 | 95% | 18% |
| 2000 | 39 | 18 | 57 | 69% | 1930 | 11 | 96% | 14% |
| 2001 | 21 | 25 | 46 | 56% | 1990 | 11 | 98% | 13% |
| 2002 | 32 | 2 | 33 | 41% | 1988 | 10 | 99% | 13% |
| 2003 | 44 | 0 | 44 | 54% | 1977 | 5 | 100% | 7% |
| Average | 35 | 13 | 47 | 58% | | 47 | | 58% |
| Maximum | 48 | 38 | 81 | 100% | | 81 | | 100% |
| Minimum | 5 | 0 | 5 | 7% | | 5 | | 7% |

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

| SWP Table A Deliveries for 2019 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% | 1942 | 29 | 0% | 100% |
| 1923 | 17 | 11 | 28 | 96% | 1943 | 29 | 0% | 100% |
| 1924 | 8 | 11 | 19 | 64% | 1953 | 29 | 0% | 100% |
| 1925 | 14 | 2 | 15 | 53% | 1970 | 29 | 0% | 100% |
| 1926 | 14 | 6 | 20 | 68% | 1971 | 29 | 0% | 100% |
| 1927 | 18 | 6 | 24 | 81% | 1975 | 29 | 0% | 100% |
| 1928 | 18 | 11 | 29 | 99% | 1983 | 29 | 0% | 100% |
| 1929 | 8 | 11 | 19 | 66% | 1984 | 29 | 0% | 100% |
| 1930 | 14 | 2 | 15 | 53% | 1996 | 29 | 0% | 100% |
| 1931 | 8 | 6 | 14 | 48% | 1997 | 29 | 0% | 100% |
| 1932 | 14 | 2 | 15 | 53% | 1998 | 29 | 0% | 100% |
| 1933 | 8 | 6 | 14 | 48% | 1999 | 29 | 0% | 100% |
| 1934 | 8 | 2 | 10 | 33% | 1941 | 29 | 15% | 100% |
| 1935 | 17 | 2 | 18 | 63% | 1958 | 29 | 15% | 100% |
| 1936 | 17 | 11 | 27 | 94% | 1974 | 29 | 15% | 100% |
| 1937 | 17 | 11 | 27 | 94% | 1952 | 29 | 15% | 100% |
| 1938 | 18 | 11 | 28 | 98% | 1928 | 29 | 20% | 99% |
| 1939 | 14 | 11 | 25 | 87% | 1954 | 29 | 20% | 99% |
| 1940 | 18 | 6 | 23 | 81% | 1957 | 29 | 20% | 99% |
| 1941 | 18 | 11 | 29 | 100% | 2000 | 29 | 20% | 99% |
| 1942 | 18 | 11 | 29 | 100% | 1938 | 28 | 25% | 98% |
| 1943 | 18 | 11 | 29 | 100% | 1963 | 28 | 25% | 98% |
| 1944 | 14 | 11 | 25 | 87% | 1967 | 28 | 25% | 98% |
| 1945 | 17 | 6 | 23 | 78% | 1969 | 28 | 25% | 98% |
| 1946 | 17 | 11 | 27 | 94% | 1951 | 28 | 30% | 97% |
| 1947 | 14 | 11 | 25 | 84% | 1973 | 28 | 30% | 97% |
| 1948 | 17 | 6 | 23 | 78% | 1980 | 28 | 30% | 97% |
| 1949 | 14 | 11 | 25 | 84% | 1959 | 28 | 33% | 96% |
| 1950 | 17 | 6 | 23 | 78% | 1966 | 28 | 33% | 96% |
| 1951 | 18 | 11 | 28 | 97% | 1968 | 28 | 33% | 96% |
| 1952 | 18 | 11 | 29 | 100% | 1972 | 28 | 33% | 96% |
| 1953 | 18 | 11 | 29 | 100% | 1923 | 28 | 38% | 96% |
| 1954 | 18 | 11 | 29 | 99% | 1979 | 28 | 38% | 96% |
| 1955 | 14 | 11 | 25 | 86% | 1936 | 27 | 41% | 94% |
| 1956 | 18 | 6 | 24 | 81% | 1937 | 27 | 41% | 94% |
| 1957 | 18 | 11 | 29 | 99% | 1946 | 27 | 41% | 94% |
| 1958 | 18 | 11 | 29 | 100% | 1939 | 25 | 44% | 87% |
| 1959 | 17 | 11 | 28 | 96% | 1944 | 25 | 44% | 87% |
| 1960 | 14 | 11 | 25 | 84% | 1964 | 25 | 44% | 87% |
| 1961 | 14 | 6 | 20 | 68% | 1985 | 25 | 44% | 87% |
| 1962 | 17 | 6 | 23 | 78% | 1987 | 25 | 44% | 87% |
| 1963 | 18 | 11 | 28 | 98% | 1955 | 25 | 51% | 86% |
| 1964 | 14 | 11 | 25 | 87% | 1981 | 25 | 51% | 86% |
| 1965 | 18 | 6 | 24 | 81% | 2001 | 25 | 51% | 86% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 17 | 11 | 28 | 96% | 1947 | 25 | 54% | 84% |
| 1967 | 18 | 11 | 28 | 98% | 1949 | 25 | 54% | 84% |
| 1968 | 17 | 11 | 28 | 96% | 1960 | 25 | 54% | 84% |
| 1969 | 18 | 11 | 28 | 98% | 1927 | 24 | 58% | 81% |
| 1970 | 18 | 11 | 29 | 100% | 1956 | 24 | 58% | 81% |
| 1971 | 18 | 11 | 29 | 100% | 1965 | 24 | 58% | 81% |
| 1972 | 17 | 11 | 28 | 96% | 1982 | 24 | 58% | 81% |
| 1973 | 18 | 11 | 28 | 97% | 1986 | 24 | 58% | 81% |
| 1974 | 18 | 11 | 29 | 100% | 1940 | 23 | 64% | 81% |
| 1975 | 18 | 11 | 29 | 100% | 2003 | 23 | 65% | 80% |
| 1976 | 8 | 11 | 19 | 67% | 1945 | 23 | 67% | 78% |
| 1977 | 8 | 2 | 10 | 33% | 1948 | 23 | 67% | 78% |
| 1978 | 18 | 2 | 19 | 66% | 1950 | 23 | 67% | 78% |
| 1979 | 17 | 11 | 28 | 96% | 1962 | 23 | 67% | 78% |
| 1980 | 18 | 11 | 28 | 97% | 1926 | 20 | 72% | 68% |
| 1981 | 14 | 11 | 25 | 86% | 1961 | 20 | 72% | 68% |
| 1982 | 18 | 6 | 24 | 81% | 2002 | 20 | 72% | 68% |
| 1983 | 18 | 11 | 29 | 100% | 1976 | 19 | 75% | 67% |
| 1984 | 18 | 11 | 29 | 100% | 1994 | 19 | 77% | 66% |
| 1985 | 14 | 11 | 25 | 87% | 1929 | 19 | 77% | 66% |
| 1986 | 18 | 6 | 24 | 81% | 1995 | 19 | 79% | 66% |
| 1987 | 14 | 11 | 25 | 87% | 1978 | 19 | 80% | 66% |
| 1988 | 8 | 6 | 14 | 48% | 1993 | 19 | 80% | 66% |
| 1989 | 14 | 2 | 15 | 53% | 1924 | 19 | 83% | 64% |
| 1990 | 8 | 6 | 14 | 48% | 1935 | 18 | 84% | 63% |
| 1991 | 8 | 2 | 10 | 33% | 1922 | 18 | 85% | 60% |
| 1992 | 8 | 2 | 10 | 33% | 1925 | 15 | 86% | 53% |
| 1993 | 18 | 2 | 19 | 66% | 1930 | 15 | 86% | 53% |
| 1994 | 8 | 11 | 19 | 66% | 1932 | 15 | 86% | 53% |
| 1995 | 18 | 2 | 19 | 66% | 1989 | 15 | 86% | 53% |
| 1996 | 18 | 11 | 29 | 100% | 1931 | 14 | 91% | 48% |
| 1997 | 18 | 11 | 29 | 100% | 1933 | 14 | 91% | 48% |
| 1998 | 18 | 11 | 29 | 100% | 1988 | 14 | 91% | 48% |
| 1999 | 18 | 11 | 29 | 100% | 1990 | 14 | 91% | 48% |
| 2000 | 18 | 11 | 29 | 99% | 1934 | 10 | 96% | 33% |
| 2001 | 14 | 11 | 25 | 86% | 1977 | 10 | 96% | 33% |
| 2002 | 14 | 6 | 20 | 68% | 1991 | 10 | 96% | 33% |
| 2003 | 17 | 6 | 23 | 80% | 1992 | 10 | 96% | 33% |
| Average | 15 | 8 | 24 | 82% | | 24 | | 82% |
| Maximum | 18 | 11 | 29 | 100% | | 29 | | 100% |
| Minimum | 8 | 0 | 10 | 33% | | 10 | | 33% |

Table A-20. Oak Flat WD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 48% | 1983 | 5 | 0% | 100% |
| 1923 | 3 | 1 | 4 | 75% | 1999 | 5 | 1% | 99% |
| 1924 | 1 | 1 | 2 | 36% | 1968 | 5 | 2% | 97% |
| 1925 | 1 | 0 | 1 | 26% | 1953 | 5 | 4% | 94% |
| 1926 | 2 | 0 | 2 | 37% | 1942 | 5 | 5% | 93% |
| 1927 | 3 | 0 | 3 | 55% | 1975 | 5 | 6% | 92% |
| 1928 | 3 | 1 | 4 | 76% | 1979 | 5 | 7% | 90% |
| 1929 | 1 | 1 | 2 | 44% | 1959 | 5 | 9% | 90% |
| 1930 | 1 | 0 | 1 | 14% | 1998 | 5 | 10% | 89% |
| 1931 | 2 | 0 | 2 | 34% | 1957 | 5 | 11% | 88% |
| 1932 | 1 | 0 | 2 | 32% | 1938 | 5 | 12% | 85% |
| 1933 | 2 | 0 | 2 | 35% | 1952 | 5 | 14% | 84% |
| 1934 | 1 | 0 | 1 | 23% | 1943 | 5 | 15% | 84% |
| 1935 | 2 | 0 | 2 | 46% | 1967 | 4 | 16% | 81% |
| 1936 | 2 | 0 | 3 | 51% | 1928 | 4 | 17% | 76% |
| 1937 | 3 | 0 | 3 | 56% | 1974 | 4 | 19% | 76% |
| 1938 | 3 | 2 | 5 | 85% | 1923 | 4 | 20% | 75% |
| 1939 | 1 | 2 | 4 | 66% | 1970 | 4 | 21% | 75% |
| 1940 | 2 | 0 | 2 | 45% | 1971 | 4 | 22% | 74% |
| 1941 | 3 | 1 | 4 | 68% | 1984 | 4 | 23% | 73% |
| 1942 | 2 | 3 | 5 | 93% | 1997 | 4 | 25% | 72% |
| 1943 | 3 | 2 | 5 | 84% | 1946 | 4 | 26% | 72% |
| 1944 | 2 | 0 | 2 | 42% | 2000 | 4 | 27% | 68% |
| 1945 | 3 | 0 | 3 | 54% | 1980 | 4 | 28% | 68% |
| 1946 | 3 | 1 | 4 | 72% | 1981 | 4 | 30% | 68% |
| 1947 | 2 | 1 | 3 | 57% | 1976 | 4 | 31% | 68% |
| 1948 | 2 | 0 | 2 | 42% | 1941 | 4 | 32% | 68% |
| 1949 | 2 | 0 | 2 | 42% | 1939 | 4 | 33% | 66% |
| 1950 | 2 | 0 | 3 | 47% | 1954 | 4 | 35% | 66% |
| 1951 | 2 | 0 | 3 | 51% | 1973 | 4 | 36% | 66% |
| 1952 | 3 | 2 | 5 | 84% | 1958 | 3 | 37% | 65% |
| 1953 | 3 | 3 | 5 | 94% | 1964 | 3 | 38% | 65% |
| 1954 | 3 | 1 | 4 | 66% | 1986 | 3 | 40% | 65% |
| 1955 | 2 | 0 | 2 | 39% | 1969 | 3 | 41% | 64% |
| 1956 | 3 | 0 | 3 | 52% | 1996 | 3 | 42% | 62% |
| 1957 | 2 | 2 | 5 | 88% | 1965 | 3 | 43% | 61% |
| 1958 | 3 | 1 | 3 | 65% | 1963 | 3 | 44% | 59% |
| 1959 | 2 | 3 | 5 | 90% | 1987 | 3 | 46% | 59% |
| 1960 | 2 | 0 | 3 | 52% | 1972 | 3 | 47% | 59% |
| 1961 | 2 | 1 | 2 | 38% | 1995 | 3 | 48% | 58% |
| 1962 | 2 | 0 | 3 | 47% | 2001 | 3 | 49% | 58% |
| 1963 | 3 | 1 | 3 | 59% | 1947 | 3 | 51% | 57% |
| 1964 | 2 | 1 | 3 | 65% | 1937 | 3 | 52% | 56% |
| 1965 | 2 | 1 | 3 | 61% | 1982 | 3 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 3 | 0 | 3 | 52% | 1927 | 3 | 54% | 55% |
| 1967 | 3 | 1 | 4 | 81% | 1945 | 3 | 56% | 54% |
| 1968 | 3 | 3 | 5 | 97% | 1966 | 3 | 57% | 52% |
| 1969 | 3 | 0 | 3 | 64% | 1960 | 3 | 58% | 52% |
| 1970 | 3 | 2 | 4 | 75% | 1956 | 3 | 59% | 52% |
| 1971 | 2 | 2 | 4 | 74% | 1985 | 3 | 60% | 52% |
| 1972 | 3 | 1 | 3 | 59% | 1993 | 3 | 62% | 51% |
| 1973 | 3 | 1 | 4 | 66% | 1951 | 3 | 63% | 51% |
| 1974 | 3 | 1 | 4 | 76% | 1936 | 3 | 64% | 51% |
| 1975 | 3 | 2 | 5 | 92% | 1994 | 3 | 65% | 49% |
| 1976 | 2 | 1 | 4 | 68% | 1922 | 3 | 67% | 48% |
| 1977 | 0 | 0 | 0 | 7% | 1989 | 3 | 68% | 48% |
| 1978 | 2 | 0 | 2 | 46% | 1962 | 3 | 69% | 47% |
| 1979 | 3 | 2 | 5 | 90% | 1950 | 3 | 70% | 47% |
| 1980 | 3 | 1 | 4 | 68% | 1935 | 2 | 72% | 46% |
| 1981 | 1 | 2 | 4 | 68% | 1978 | 2 | 73% | 46% |
| 1982 | 3 | 0 | 3 | 56% | 1940 | 2 | 74% | 45% |
| 1983 | 3 | 2 | 5 | 100% | 1929 | 2 | 75% | 44% |
| 1984 | 2 | 1 | 4 | 73% | 1948 | 2 | 77% | 42% |
| 1985 | 3 | 0 | 3 | 52% | 1949 | 2 | 78% | 42% |
| 1986 | 2 | 1 | 3 | 65% | 1944 | 2 | 79% | 42% |
| 1987 | 1 | 2 | 3 | 59% | 2002 | 2 | 80% | 39% |
| 1988 | 1 | 0 | 1 | 13% | 2003 | 2 | 81% | 39% |
| 1989 | 3 | 0 | 3 | 48% | 1955 | 2 | 83% | 39% |
| 1990 | 1 | 0 | 1 | 13% | 1961 | 2 | 84% | 38% |
| 1991 | 1 | 0 | 1 | 25% | 1926 | 2 | 85% | 37% |
| 1992 | 1 | 0 | 1 | 18% | 1924 | 2 | 86% | 36% |
| 1993 | 3 | 0 | 3 | 51% | 1933 | 2 | 88% | 35% |
| 1994 | 2 | 1 | 3 | 49% | 1931 | 2 | 89% | 34% |
| 1995 | 3 | 0 | 3 | 58% | 1932 | 2 | 90% | 32% |
| 1996 | 3 | 1 | 3 | 62% | 1925 | 1 | 91% | 26% |
| 1997 | 2 | 1 | 4 | 72% | 1991 | 1 | 93% | 25% |
| 1998 | 3 | 2 | 5 | 89% | 1934 | 1 | 94% | 23% |
| 1999 | 3 | 3 | 5 | 99% | 1992 | 1 | 95% | 18% |
| 2000 | 2 | 1 | 4 | 68% | 1930 | 1 | 96% | 14% |
| 2001 | 1 | 2 | 3 | 58% | 1990 | 1 | 98% | 13% |
| 2002 | 2 | 0 | 2 | 39% | 1988 | 1 | 99% | 13% |
| 2003 | 2 | 0 | 2 | 39% | 1977 | 0 | 100% | 7% |
| Average | 2 | 1 | 3 | 58% | | 3 | | 58% |
| Maximum | 3 | 3 | 5 | 100% | | 5 | | 100% |
| Minimum | 0 | 0 | 0 | 7% | | 0 | | 7% |

Table A-21. Palmdale WD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 62% | 1998 | 21 | 0% | 100% |
| 1923 | 12 | 2 | 14 | 65% | 1938 | 21 | 0% | 100% |
| 1924 | 3 | 2 | 5 | 23% | 1941 | 21 | 0% | 100% |
| 1925 | 5 | 0 | 5 | 25% | 1967 | 21 | 0% | 100% |
| 1926 | 8 | 0 | 8 | 38% | 1969 | 21 | 0% | 100% |
| 1927 | 14 | 1 | 14 | 67% | 1982 | 21 | 0% | 100% |
| 1928 | 12 | 2 | 14 | 66% | 1983 | 21 | 0% | 100% |
| 1929 | 6 | 2 | 8 | 37% | 1995 | 21 | 0% | 100% |
| 1930 | 3 | 0 | 3 | 13% | 1958 | 21 | 0% | 100% |
| 1931 | 8 | 0 | 8 | 35% | 1952 | 21 | 11% | 98% |
| 1932 | 5 | 1 | 6 | 27% | 1980 | 20 | 12% | 96% |
| 1933 | 8 | 0 | 8 | 37% | 1974 | 20 | 14% | 96% |
| 1934 | 3 | 1 | 4 | 18% | 1943 | 20 | 15% | 92% |
| 1935 | 17 | 0 | 17 | 82% | 1956 | 19 | 16% | 89% |
| 1936 | 10 | 0 | 10 | 48% | 1996 | 18 | 17% | 86% |
| 1937 | 14 | 1 | 15 | 70% | 1978 | 18 | 19% | 82% |
| 1938 | 20 | 1 | 21 | 100% | 1935 | 17 | 20% | 82% |
| 1939 | 6 | 0 | 6 | 27% | 1986 | 17 | 21% | 79% |
| 1940 | 10 | 0 | 10 | 46% | 2000 | 16 | 22% | 77% |
| 1941 | 19 | 2 | 21 | 100% | 1973 | 16 | 23% | 76% |
| 1942 | 15 | 0 | 15 | 72% | 1942 | 15 | 25% | 72% |
| 1943 | 19 | 1 | 20 | 92% | 1997 | 15 | 26% | 72% |
| 1944 | 7 | 0 | 7 | 34% | 1951 | 15 | 27% | 72% |
| 1945 | 13 | 1 | 14 | 64% | 1937 | 15 | 28% | 70% |
| 1946 | 10 | 2 | 12 | 57% | 1984 | 15 | 30% | 70% |
| 1947 | 10 | 2 | 11 | 54% | 1970 | 15 | 31% | 69% |
| 1948 | 9 | 0 | 9 | 44% | 1927 | 14 | 32% | 67% |
| 1949 | 7 | 1 | 8 | 37% | 1966 | 14 | 33% | 66% |
| 1950 | 10 | 1 | 10 | 47% | 1928 | 14 | 35% | 66% |
| 1951 | 15 | 0 | 15 | 72% | 1954 | 14 | 36% | 65% |
| 1952 | 20 | 1 | 21 | 98% | 1923 | 14 | 37% | 65% |
| 1953 | 10 | 0 | 10 | 48% | 1985 | 14 | 38% | 65% |
| 1954 | 11 | 3 | 14 | 65% | 1945 | 14 | 40% | 64% |
| 1955 | 8 | 1 | 8 | 39% | 1975 | 13 | 41% | 63% |
| 1956 | 19 | 0 | 19 | 89% | 1922 | 13 | 42% | 62% |
| 1957 | 10 | 0 | 10 | 46% | 1999 | 13 | 43% | 61% |
| 1958 | 20 | 1 | 21 | 100% | 1964 | 13 | 44% | 59% |
| 1959 | 9 | 0 | 9 | 41% | 1965 | 13 | 46% | 59% |
| 1960 | 10 | 1 | 11 | 50% | 1979 | 12 | 47% | 58% |
| 1961 | 6 | 1 | 7 | 35% | 1963 | 12 | 48% | 57% |
| 1962 | 10 | 0 | 10 | 49% | 1946 | 12 | 49% | 57% |
| 1963 | 11 | 1 | 12 | 57% | 1972 | 12 | 51% | 55% |
| 1964 | 10 | 3 | 13 | 59% | 1947 | 11 | 52% | 54% |
| 1965 | 10 | 2 | 13 | 59% | 1993 | 11 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 14 | 0 | 14 | 66% | 1960 | 11 | 54% | 50% |
| 1967 | 20 | 2 | 21 | 100% | 1968 | 11 | 56% | 50% |
| 1968 | 11 | 0 | 11 | 50% | 1971 | 11 | 57% | 50% |
| 1969 | 20 | 1 | 21 | 100% | 1962 | 10 | 58% | 49% |
| 1970 | 15 | 0 | 15 | 69% | 1936 | 10 | 59% | 48% |
| 1971 | 9 | 1 | 11 | 50% | 1953 | 10 | 60% | 48% |
| 1972 | 11 | 1 | 12 | 55% | 1950 | 10 | 62% | 47% |
| 1973 | 13 | 3 | 16 | 76% | 1940 | 10 | 63% | 46% |
| 1974 | 19 | 2 | 20 | 96% | 1957 | 10 | 64% | 46% |
| 1975 | 13 | 0 | 13 | 63% | 1976 | 10 | 65% | 45% |
| 1976 | 8 | 1 | 10 | 45% | 1948 | 9 | 67% | 44% |
| 1977 | 1 | 0 | 1 | 6% | 2003 | 9 | 68% | 43% |
| 1978 | 17 | 0 | 18 | 82% | 1959 | 9 | 69% | 41% |
| 1979 | 12 | 0 | 12 | 58% | 1994 | 9 | 70% | 41% |
| 1980 | 19 | 2 | 20 | 96% | 2002 | 9 | 72% | 40% |
| 1981 | 7 | 0 | 7 | 34% | 1955 | 8 | 73% | 39% |
| 1982 | 21 | 0 | 21 | 100% | 1926 | 8 | 74% | 38% |
| 1983 | 21 | 0 | 21 | 100% | 1929 | 8 | 75% | 37% |
| 1984 | 15 | 0 | 15 | 70% | 1933 | 8 | 77% | 37% |
| 1985 | 14 | 0 | 14 | 65% | 1949 | 8 | 78% | 37% |
| 1986 | 15 | 2 | 17 | 79% | 1989 | 8 | 79% | 36% |
| 1987 | 6 | 1 | 6 | 30% | 1931 | 8 | 80% | 35% |
| 1988 | 2 | 0 | 3 | 12% | 1961 | 7 | 81% | 35% |
| 1989 | 8 | 0 | 8 | 36% | 1981 | 7 | 83% | 34% |
| 1990 | 3 | 0 | 3 | 13% | 1944 | 7 | 84% | 34% |
| 1991 | 5 | 0 | 5 | 24% | 1987 | 6 | 85% | 30% |
| 1992 | 3 | 0 | 4 | 17% | 2001 | 6 | 86% | 29% |
| 1993 | 11 | 0 | 11 | 54% | 1939 | 6 | 88% | 27% |
| 1994 | 6 | 3 | 9 | 41% | 1932 | 6 | 89% | 27% |
| 1995 | 21 | 0 | 21 | 100% | 1925 | 5 | 90% | 25% |
| 1996 | 18 | 0 | 18 | 86% | 1991 | 5 | 91% | 24% |
| 1997 | 15 | 0 | 15 | 72% | 1924 | 5 | 93% | 23% |
| 1998 | 21 | 1 | 21 | 100% | 1934 | 4 | 94% | 18% |
| 1999 | 13 | 0 | 13 | 61% | 1992 | 4 | 95% | 17% |
| 2000 | 15 | 2 | 16 | 77% | 1930 | 3 | 96% | 13% |
| 2001 | 5 | 1 | 6 | 29% | 1990 | 3 | 98% | 13% |
| 2002 | 8 | 0 | 9 | 40% | 1988 | 3 | 99% | 12% |
| 2003 | 9 | 0 | 9 | 43% | 1977 | 1 | 100% | 6% |
| Average | 11 | 1 | 12 | 57% | | 12 | | 57% |
| Maximum | 21 | 3 | 21 | 100% | | 21 | | 100% |
| Minimum | 1 | 0 | 1 | 6% | | 1 | | 6% |

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

| SWP Table A Deliveries for 2019 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 | 103 | 0% | 100% |
| 1923 | 64 | 5 | 70 | 68% | 1998 | 99 | 1% | 97% |
| 1924 | 14 | 5 | 18 | 18% | 1938 | 99 | 2% | 96% |
| 1925 | 26 | 0 | 26 | 25% | 1958 | 95 | 4% | 93% |
| 1926 | 39 | 1 | 40 | 39% | 1969 | 95 | 5% | 93% |
| 1927 | 67 | 2 | 69 | 67% | 1967 | 95 | 6% | 92% |
| 1928 | 65 | 6 | 71 | 69% | 1995 | 93 | 7% | 91% |
| 1929 | 31 | 4 | 35 | 34% | 1982 | 93 | 9% | 91% |
| 1930 | 14 | 0 | 14 | 14% | 1952 | 93 | 10% | 90% |
| 1931 | 38 | 0 | 38 | 37% | 1941 | 90 | 11% | 87% |
| 1932 | 25 | 2 | 27 | 26% | 1996 | 89 | 12% | 87% |
| 1933 | 39 | 0 | 39 | 38% | 1943 | 89 | 14% | 87% |
| 1934 | 16 | 2 | 18 | 17% | 1974 | 87 | 15% | 85% |
| 1935 | 75 | 0 | 76 | 74% | 1980 | 85 | 16% | 83% |
| 1936 | 52 | 4 | 56 | 55% | 1956 | 82 | 17% | 80% |
| 1937 | 68 | 2 | 71 | 69% | 1942 | 80 | 19% | 78% |
| 1938 | 93 | 6 | 99 | 96% | 1984 | 78 | 20% | 76% |
| 1939 | 64 | 8 | 72 | 70% | 1970 | 78 | 21% | 76% |
| 1940 | 55 | 0 | 56 | 54% | 1997 | 78 | 22% | 76% |
| 1941 | 86 | 3 | 90 | 87% | 1999 | 76 | 23% | 74% |
| 1942 | 71 | 9 | 80 | 78% | 1986 | 76 | 25% | 74% |
| 1943 | 82 | 7 | 89 | 87% | 1978 | 76 | 26% | 74% |
| 1944 | 36 | 8 | 45 | 44% | 1975 | 76 | 27% | 74% |
| 1945 | 66 | 2 | 68 | 66% | 1935 | 76 | 28% | 74% |
| 1946 | 58 | 5 | 63 | 61% | 2000 | 74 | 30% | 72% |
| 1947 | 54 | 3 | 57 | 55% | 1979 | 73 | 31% | 71% |
| 1948 | 47 | 0 | 48 | 47% | 1939 | 72 | 32% | 70% |
| 1949 | 34 | 2 | 37 | 36% | 1951 | 71 | 33% | 69% |
| 1950 | 48 | 1 | 50 | 48% | 1973 | 71 | 35% | 69% |
| 1951 | 70 | 1 | 71 | 69% | 1937 | 71 | 36% | 69% |
| 1952 | 86 | 6 | 93 | 90% | 1928 | 71 | 37% | 69% |
| 1953 | 58 | 9 | 67 | 65% | 1923 | 70 | 38% | 68% |
| 1954 | 63 | 4 | 66 | 64% | 1968 | 69 | 40% | 68% |
| 1955 | 39 | 1 | 40 | 39% | 1927 | 69 | 41% | 67% |
| 1956 | 81 | 1 | 82 | 80% | 1985 | 69 | 42% | 67% |
| 1957 | 49 | 9 | 58 | 56% | 1966 | 69 | 43% | 67% |
| 1958 | 93 | 2 | 95 | 93% | 1945 | 68 | 44% | 66% |
| 1959 | 44 | 10 | 54 | 53% | 1953 | 67 | 46% | 65% |
| 1960 | 49 | 2 | 51 | 50% | 1922 | 67 | 47% | 65% |
| 1961 | 32 | 2 | 34 | 34% | 1954 | 66 | 48% | 64% |
| 1962 | 50 | 1 | 51 | 50% | 1976 | 65 | 49% | 63% |
| 1963 | 62 | 3 | 65 | 63% | 1963 | 65 | 51% | 63% |
| 1964 | 57 | 4 | 61 | 59% | 1972 | 64 | 52% | 62% |
| 1965 | 51 | 3 | 54 | 53% | 1946 | 63 | 53% | 61% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 67 | 1 | 69 | 67% | 1993 | 63 | 54% | 61% |
| 1967 | 89 | 6 | 95 | 92% | 1981 | 62 | 56% | 61% |
| 1968 | 60 | 10 | 69 | 68% | 1964 | 61 | 57% | 59% |
| 1969 | 93 | 2 | 95 | 93% | 1989 | 59 | 58% | 57% |
| 1970 | 69 | 9 | 78 | 76% | 2003 | 58 | 59% | 57% |
| 1971 | 48 | 6 | 54 | 53% | 1957 | 58 | 60% | 56% |
| 1972 | 61 | 2 | 64 | 62% | 1947 | 57 | 62% | 55% |
| 1973 | 67 | 4 | 71 | 69% | 1936 | 56 | 63% | 55% |
| 1974 | 81 | 5 | 87 | 85% | 1940 | 56 | 64% | 54% |
| 1975 | 67 | 9 | 76 | 74% | 1971 | 54 | 65% | 53% |
| 1976 | 60 | 5 | 65 | 63% | 1965 | 54 | 67% | 53% |
| 1977 | 6 | 0 | 7 | 7% | 1959 | 54 | 68% | 53% |
| 1978 | 76 | 0 | 76 | 74% | 1960 | 51 | 69% | 50% |
| 1979 | 65 | 8 | 73 | 71% | 1962 | 51 | 70% | 50% |
| 1980 | 81 | 4 | 85 | 83% | 1950 | 50 | 72% | 48% |
| 1981 | 55 | 7 | 62 | 61% | 1948 | 48 | 73% | 47% |
| 1982 | 93 | 0 | 93 | 91% | 1944 | 45 | 74% | 44% |
| 1983 | 93 | 10 | 103 | 100% | 2002 | 42 | 75% | 41% |
| 1984 | 70 | 8 | 78 | 76% | 1926 | 40 | 77% | 39% |
| 1985 | 68 | 1 | 69 | 67% | 1955 | 40 | 78% | 39% |
| 1986 | 71 | 6 | 76 | 74% | 1933 | 39 | 79% | 38% |
| 1987 | 28 | 7 | 35 | 34% | 1931 | 38 | 80% | 37% |
| 1988 | 11 | 1 | 12 | 11% | 1949 | 37 | 81% | 36% |
| 1989 | 58 | 0 | 59 | 57% | 1929 | 35 | 83% | 34% |
| 1990 | 13 | 0 | 13 | 13% | 1994 | 35 | 84% | 34% |
| 1991 | 25 | 0 | 25 | 25% | 1987 | 35 | 85% | 34% |
| 1992 | 17 | 1 | 17 | 17% | 1961 | 34 | 86% | 34% |
| 1993 | 62 | 0 | 63 | 61% | 2001 | 33 | 88% | 32% |
| 1994 | 31 | 4 | 35 | 34% | 1932 | 27 | 89% | 26% |
| 1995 | 92 | 1 | 93 | 91% | 1925 | 26 | 90% | 25% |
| 1996 | 79 | 10 | 89 | 87% | 1991 | 25 | 91% | 25% |
| 1997 | 71 | 7 | 78 | 76% | 1924 | 18 | 93% | 18% |
| 1998 | 93 | 7 | 99 | 97% | 1934 | 18 | 94% | 17% |
| 1999 | 66 | 10 | 76 | 74% | 1992 | 17 | 95% | 17% |
| 2000 | 70 | 4 | 74 | 72% | 1930 | 14 | 96% | 14% |
| 2001 | 26 | 6 | 33 | 32% | 1990 | 13 | 98% | 13% |
| 2002 | 42 | 1 | 42 | 41% | 1988 | 12 | 99% | 11% |
| 2003 | 58 | 0 | 58 | 57% | 1977 | 7 | 100% | 7% |
| Average | 57 | 4 | 61 | 59% | | 61 | | 59% |
| Maximum | 93 | 10 | 103 | 100% | | 103 | | 100% |
| Minimum | 6 | 0 | 7 | 7% | | 7 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 70% | 1969 | 29 | 0% | 100% |
| 1923 | 19 | 0 | 19 | 67% | 1983 | 29 | 0% | 100% |
| 1924 | 4 | 0 | 4 | 14% | 1938 | 29 | 0% | 100% |
| 1925 | 7 | 0 | 7 | 26% | 1958 | 29 | 0% | 100% |
| 1926 | 12 | 0 | 12 | 40% | 1982 | 29 | 0% | 100% |
| 1927 | 20 | 0 | 20 | 71% | 1998 | 29 | 0% | 100% |
| 1928 | 20 | 0 | 20 | 68% | 1995 | 29 | 7% | 100% |
| 1929 | 9 | 0 | 9 | 31% | 1967 | 28 | 9% | 96% |
| 1930 | 4 | 0 | 4 | 14% | 1952 | 27 | 10% | 93% |
| 1931 | 11 | 0 | 11 | 39% | 1941 | 27 | 10% | 93% |
| 1932 | 7 | 0 | 7 | 25% | 1943 | 26 | 12% | 89% |
| 1933 | 11 | 0 | 11 | 40% | 1974 | 25 | 14% | 88% |
| 1934 | 4 | 0 | 4 | 16% | 1956 | 25 | 15% | 88% |
| 1935 | 23 | 0 | 23 | 81% | 1980 | 25 | 16% | 88% |
| 1936 | 15 | 0 | 15 | 53% | 1996 | 25 | 17% | 86% |
| 1937 | 21 | 0 | 21 | 73% | 1978 | 24 | 19% | 82% |
| 1938 | 29 | 0 | 29 | 100% | 1935 | 23 | 20% | 81% |
| 1939 | 19 | 0 | 19 | 67% | 1942 | 22 | 21% | 76% |
| 1940 | 17 | 0 | 17 | 57% | 1997 | 22 | 22% | 75% |
| 1941 | 27 | 0 | 27 | 93% | 1986 | 22 | 23% | 75% |
| 1942 | 22 | 0 | 22 | 76% | 1984 | 21 | 25% | 74% |
| 1943 | 26 | 0 | 26 | 89% | 1951 | 21 | 26% | 74% |
| 1944 | 11 | 0 | 11 | 37% | 2000 | 21 | 27% | 74% |
| 1945 | 20 | 0 | 20 | 69% | 1970 | 21 | 28% | 74% |
| 1946 | 17 | 0 | 17 | 60% | 1937 | 21 | 30% | 73% |
| 1947 | 16 | 0 | 16 | 56% | 1985 | 21 | 31% | 72% |
| 1948 | 14 | 0 | 14 | 48% | 1966 | 21 | 32% | 71% |
| 1949 | 10 | 0 | 10 | 35% | 1927 | 20 | 33% | 71% |
| 1950 | 14 | 0 | 14 | 50% | 1975 | 20 | 35% | 71% |
| 1951 | 21 | 0 | 21 | 74% | 1973 | 20 | 36% | 71% |
| 1952 | 27 | 0 | 27 | 93% | 1922 | 20 | 37% | 70% |
| 1953 | 17 | 0 | 17 | 60% | 1999 | 20 | 38% | 70% |
| 1954 | 19 | 0 | 19 | 65% | 1945 | 20 | 40% | 69% |
| 1955 | 11 | 0 | 11 | 40% | 1928 | 20 | 41% | 68% |
| 1956 | 25 | 0 | 25 | 88% | 1979 | 20 | 42% | 68% |
| 1957 | 14 | 0 | 14 | 50% | 1923 | 19 | 43% | 67% |
| 1958 | 29 | 0 | 29 | 100% | 1939 | 19 | 44% | 67% |
| 1959 | 13 | 0 | 13 | 45% | 1954 | 19 | 46% | 65% |
| 1960 | 14 | 0 | 14 | 50% | 1993 | 19 | 47% | 65% |
| 1961 | 9 | 0 | 9 | 32% | 1963 | 19 | 48% | 64% |
| 1962 | 15 | 0 | 15 | 51% | 1972 | 18 | 49% | 64% |
| 1963 | 19 | 0 | 19 | 64% | 1968 | 18 | 51% | 62% |
| 1964 | 17 | 0 | 17 | 59% | 1976 | 18 | 52% | 62% |
| 1965 | 15 | 0 | 15 | 52% | 1989 | 17 | 53% | 60% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 21 | 0 | 21 | 71% | 1946 | 17 | 54% | 60% |
| 1967 | 28 | 0 | 28 | 96% | 1953 | 17 | 56% | 60% |
| 1968 | 18 | 0 | 18 | 62% | 1964 | 17 | 57% | 59% |
| 1969 | 29 | 0 | 29 | 100% | 1940 | 17 | 58% | 57% |
| 1970 | 21 | 0 | 21 | 74% | 1981 | 17 | 59% | 57% |
| 1971 | 14 | 0 | 14 | 49% | 1947 | 16 | 60% | 56% |
| 1972 | 18 | 0 | 18 | 64% | 1936 | 15 | 62% | 53% |
| 1973 | 20 | 0 | 20 | 71% | 1965 | 15 | 63% | 52% |
| 1974 | 25 | 0 | 25 | 88% | 1962 | 15 | 64% | 51% |
| 1975 | 20 | 0 | 20 | 71% | 1957 | 14 | 65% | 50% |
| 1976 | 18 | 0 | 18 | 62% | 1960 | 14 | 67% | 50% |
| 1977 | 2 | 0 | 2 | 6% | 1950 | 14 | 68% | 50% |
| 1978 | 24 | 0 | 24 | 82% | 1971 | 14 | 69% | 49% |
| 1979 | 20 | 0 | 20 | 68% | 1948 | 14 | 70% | 48% |
| 1980 | 25 | 0 | 25 | 88% | 2003 | 13 | 72% | 47% |
| 1981 | 17 | 0 | 17 | 57% | 1959 | 13 | 73% | 45% |
| 1982 | 29 | 0 | 29 | 100% | 2002 | 12 | 74% | 43% |
| 1983 | 29 | 0 | 29 | 100% | 1926 | 12 | 75% | 40% |
| 1984 | 21 | 0 | 21 | 74% | 1933 | 11 | 77% | 40% |
| 1985 | 21 | 0 | 21 | 72% | 1955 | 11 | 78% | 40% |
| 1986 | 22 | 0 | 22 | 75% | 1931 | 11 | 79% | 39% |
| 1987 | 8 | 0 | 8 | 28% | 1944 | 11 | 80% | 37% |
| 1988 | 3 | 0 | 3 | 11% | 1949 | 10 | 81% | 35% |
| 1989 | 17 | 0 | 17 | 60% | 1961 | 9 | 83% | 32% |
| 1990 | 4 | 0 | 4 | 13% | 1929 | 9 | 84% | 31% |
| 1991 | 7 | 0 | 7 | 25% | 1994 | 9 | 85% | 31% |
| 1992 | 5 | 0 | 5 | 17% | 1987 | 8 | 86% | 28% |
| 1993 | 19 | 0 | 19 | 65% | 2001 | 8 | 88% | 26% |
| 1994 | 9 | 0 | 9 | 31% | 1925 | 7 | 89% | 26% |
| 1995 | 29 | 0 | 29 | 100% | 1932 | 7 | 90% | 25% |
| 1996 | 25 | 0 | 25 | 86% | 1991 | 7 | 91% | 25% |
| 1997 | 22 | 0 | 22 | 75% | 1992 | 5 | 93% | 17% |
| 1998 | 29 | 0 | 29 | 100% | 1934 | 4 | 94% | 16% |
| 1999 | 20 | 0 | 20 | 70% | 1930 | 4 | 95% | 14% |
| 2000 | 21 | 0 | 21 | 74% | 1924 | 4 | 96% | 14% |
| 2001 | 8 | 0 | 8 | 26% | 1990 | 4 | 98% | 13% |
| 2002 | 12 | 0 | 12 | 43% | 1988 | 3 | 99% | 11% |
| 2003 | 13 | 0 | 13 | 47% | 1977 | 2 | 100% | 6% |
| Average | 17 | 0 | 17 | 60% | | 17 | | 60% |
| Maximum | 29 | 0 | 29 | 100% | | 29 | | 100% |
| Minimum | 2 | 0 | 2 | 6% | | 2 | | 6% |

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

| SWP Table A Deliveries for 2019 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 | 61% | 1983 | 17 | 0% | 100% |
| 1923 | 10 | 2 | 12 | 71% | 1998 | 16 | 1% | 93% |
| 1924 | 2 | 1 | 4 | 22% | 1938 | 15 | 2% | 90% |
| 1925 | 4 | 0 | 4 | 26% | 1952 | 15 | 4% | 87% |
| 1926 | 7 | 0 | 7 | 39% | 1967 | 15 | 5% | 86% |
| 1927 | 10 | 0 | 11 | 64% | 1999 | 14 | 6% | 85% |
| 1928 | 10 | 2 | 12 | 72% | 1943 | 14 | 7% | 85% |
| 1929 | 5 | 1 | 6 | 38% | 1942 | 14 | 9% | 84% |
| 1930 | 2 | 0 | 2 | 14% | 1975 | 14 | 10% | 83% |
| 1931 | 6 | 0 | 6 | 37% | 1968 | 14 | 11% | 82% |
| 1932 | 4 | 0 | 5 | 27% | 1996 | 14 | 12% | 81% |
| 1933 | 6 | 0 | 7 | 38% | 1958 | 14 | 14% | 81% |
| 1934 | 3 | 0 | 3 | 18% | 1979 | 14 | 15% | 81% |
| 1935 | 11 | 0 | 11 | 64% | 1969 | 14 | 16% | 81% |
| 1936 | 9 | 1 | 9 | 55% | 1939 | 14 | 17% | 80% |
| 1937 | 10 | 0 | 11 | 64% | 1974 | 13 | 19% | 79% |
| 1938 | 13 | 2 | 15 | 90% | 1953 | 13 | 20% | 79% |
| 1939 | 10 | 3 | 14 | 80% | 1995 | 13 | 21% | 79% |
| 1940 | 9 | 0 | 9 | 54% | 1982 | 13 | 22% | 78% |
| 1941 | 12 | 1 | 13 | 77% | 1997 | 13 | 23% | 78% |
| 1942 | 10 | 4 | 14 | 84% | 1970 | 13 | 25% | 77% |
| 1943 | 12 | 3 | 14 | 85% | 1941 | 13 | 26% | 77% |
| 1944 | 6 | 1 | 7 | 44% | 1984 | 13 | 27% | 76% |
| 1945 | 10 | 0 | 11 | 63% | 1980 | 13 | 28% | 76% |
| 1946 | 9 | 2 | 11 | 66% | 1986 | 12 | 30% | 73% |
| 1947 | 9 | 1 | 10 | 56% | 1928 | 12 | 31% | 72% |
| 1948 | 8 | 0 | 8 | 47% | 1923 | 12 | 32% | 71% |
| 1949 | 6 | 1 | 6 | 37% | 1981 | 12 | 33% | 70% |
| 1950 | 8 | 0 | 8 | 49% | 2000 | 12 | 35% | 70% |
| 1951 | 10 | 0 | 11 | 63% | 1957 | 12 | 36% | 70% |
| 1952 | 12 | 2 | 15 | 87% | 1956 | 12 | 37% | 69% |
| 1953 | 9 | 4 | 13 | 79% | 1976 | 12 | 38% | 68% |
| 1954 | 10 | 1 | 11 | 65% | 1959 | 11 | 40% | 68% |
| 1955 | 6 | 0 | 7 | 40% | 1973 | 11 | 41% | 66% |
| 1956 | 12 | 0 | 12 | 69% | 1946 | 11 | 42% | 66% |
| 1957 | 8 | 4 | 12 | 70% | 1954 | 11 | 43% | 65% |
| 1958 | 13 | 1 | 14 | 81% | 1937 | 11 | 44% | 64% |
| 1959 | 7 | 4 | 11 | 68% | 1978 | 11 | 46% | 64% |
| 1960 | 8 | 0 | 9 | 51% | 1927 | 11 | 47% | 64% |
| 1961 | 5 | 1 | 6 | 35% | 1935 | 11 | 48% | 64% |
| 1962 | 8 | 0 | 9 | 50% | 1985 | 11 | 49% | 64% |
| 1963 | 10 | 1 | 11 | 63% | 1945 | 11 | 51% | 63% |
| 1964 | 9 | 1 | 10 | 61% | 1963 | 11 | 52% | 63% |
| 1965 | 8 | 1 | 9 | 55% | 1951 | 11 | 53% | 63% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 10 | 0 | 11 | 63% | 1966 | 11 | 54% | 63% |
| 1967 | 13 | 2 | 15 | 86% | 1972 | 11 | 56% | 63% |
| 1968 | 10 | 4 | 14 | 82% | 1964 | 10 | 57% | 61% |
| 1969 | 13 | 1 | 14 | 81% | 1971 | 10 | 58% | 61% |
| 1970 | 10 | 3 | 13 | 77% | 1922 | 10 | 59% | 61% |
| 1971 | 8 | 2 | 10 | 61% | 1993 | 10 | 60% | 60% |
| 1972 | 10 | 1 | 11 | 63% | 1989 | 10 | 62% | 57% |
| 1973 | 10 | 1 | 11 | 66% | 1947 | 10 | 63% | 56% |
| 1974 | 12 | 2 | 13 | 79% | 1936 | 9 | 64% | 55% |
| 1975 | 10 | 4 | 14 | 83% | 1965 | 9 | 65% | 55% |
| 1976 | 10 | 2 | 12 | 68% | 1940 | 9 | 67% | 54% |
| 1977 | 1 | 0 | 1 | 7% | 1960 | 9 | 68% | 51% |
| 1978 | 11 | 0 | 11 | 64% | 1962 | 9 | 69% | 50% |
| 1979 | 10 | 3 | 14 | 81% | 2003 | 8 | 70% | 50% |
| 1980 | 12 | 1 | 13 | 76% | 1950 | 8 | 72% | 49% |
| 1981 | 9 | 3 | 12 | 70% | 1948 | 8 | 73% | 47% |
| 1982 | 13 | 0 | 13 | 78% | 1944 | 7 | 74% | 44% |
| 1983 | 13 | 4 | 17 | 100% | 1987 | 7 | 75% | 43% |
| 1984 | 10 | 2 | 13 | 76% | 2002 | 7 | 77% | 42% |
| 1985 | 10 | 0 | 11 | 64% | 2001 | 7 | 78% | 40% |
| 1986 | 10 | 2 | 12 | 73% | 1955 | 7 | 79% | 40% |
| 1987 | 5 | 3 | 7 | 43% | 1926 | 7 | 80% | 39% |
| 1988 | 2 | 0 | 2 | 12% | 1933 | 7 | 81% | 38% |
| 1989 | 10 | 0 | 10 | 57% | 1929 | 6 | 83% | 38% |
| 1990 | 2 | 0 | 2 | 13% | 1931 | 6 | 84% | 37% |
| 1991 | 4 | 0 | 4 | 25% | 1949 | 6 | 85% | 37% |
| 1992 | 3 | 0 | 3 | 17% | 1994 | 6 | 86% | 36% |
| 1993 | 10 | 0 | 10 | 60% | 1961 | 6 | 88% | 35% |
| 1994 | 5 | 1 | 6 | 36% | 1932 | 5 | 89% | 27% |
| 1995 | 13 | 0 | 13 | 79% | 1925 | 4 | 90% | 26% |
| 1996 | 11 | 2 | 14 | 81% | 1991 | 4 | 91% | 25% |
| 1997 | 10 | 3 | 13 | 78% | 1924 | 4 | 93% | 22% |
| 1998 | 13 | 3 | 16 | 93% | 1934 | 3 | 94% | 18% |
| 1999 | 10 | 4 | 14 | 85% | 1992 | 3 | 95% | 17% |
| 2000 | 10 | 1 | 12 | 70% | 1930 | 2 | 96% | 14% |
| 2001 | 4 | 2 | 7 | 40% | 1990 | 2 | 98% | 13% |
| 2002 | 7 | 0 | 7 | 42% | 1988 | 2 | 99% | 12% |
| 2003 | 8 | 0 | 8 | 50% | 1977 | 1 | 100% | 7% |
| Average | 9 | 1 | 10 | 59% | | 10 | | 59% |
| Maximum | 13 | 4 | 17 | 100% | | 17 | | 100% |
| Minimum | 1 | 0 | 1 | 7% | | 1 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 47% | 1983 | 24 | 0% | 100% |
| 1923 | 11 | 6 | 18 | 74% | 1999 | 22 | 1% | 95% |
| 1924 | 3 | 6 | 9 | 36% | 1968 | 22 | 2% | 92% |
| 1925 | 5 | 1 | 6 | 25% | 1942 | 22 | 4% | 91% |
| 1926 | 8 | 1 | 9 | 37% | 1998 | 21 | 5% | 90% |
| 1927 | 11 | 2 | 13 | 56% | 1975 | 21 | 6% | 89% |
| 1928 | 11 | 7 | 18 | 75% | 1953 | 21 | 7% | 89% |
| 1929 | 6 | 5 | 12 | 50% | 1938 | 21 | 9% | 87% |
| 1930 | 3 | 0 | 3 | 13% | 1979 | 20 | 10% | 86% |
| 1931 | 8 | 0 | 8 | 32% | 1952 | 20 | 11% | 86% |
| 1932 | 5 | 2 | 7 | 31% | 1959 | 20 | 12% | 85% |
| 1933 | 8 | 0 | 8 | 34% | 1943 | 20 | 14% | 85% |
| 1934 | 3 | 2 | 5 | 23% | 1939 | 20 | 15% | 85% |
| 1935 | 11 | 1 | 12 | 49% | 1957 | 20 | 16% | 84% |
| 1936 | 10 | 1 | 11 | 48% | 1967 | 20 | 17% | 84% |
| 1937 | 11 | 2 | 14 | 57% | 1974 | 19 | 19% | 78% |
| 1938 | 14 | 7 | 21 | 87% | 1981 | 18 | 20% | 76% |
| 1939 | 11 | 9 | 20 | 85% | 1928 | 18 | 21% | 75% |
| 1940 | 10 | 0 | 10 | 42% | 1923 | 18 | 22% | 74% |
| 1941 | 13 | 4 | 17 | 72% | 1970 | 17 | 23% | 73% |
| 1942 | 11 | 11 | 22 | 91% | 1941 | 17 | 25% | 72% |
| 1943 | 12 | 8 | 20 | 85% | 1971 | 17 | 26% | 72% |
| 1944 | 7 | 2 | 9 | 40% | 1997 | 17 | 27% | 72% |
| 1945 | 11 | 2 | 13 | 55% | 1984 | 17 | 28% | 72% |
| 1946 | 10 | 6 | 17 | 70% | 1980 | 17 | 30% | 72% |
| 1947 | 10 | 4 | 13 | 56% | 1946 | 17 | 31% | 70% |
| 1948 | 9 | 0 | 10 | 40% | 1976 | 17 | 32% | 70% |
| 1949 | 7 | 3 | 10 | 41% | 2000 | 16 | 33% | 69% |
| 1950 | 10 | 1 | 11 | 47% | 1958 | 16 | 35% | 69% |
| 1951 | 11 | 1 | 12 | 51% | 1973 | 16 | 36% | 67% |
| 1952 | 13 | 8 | 20 | 86% | 1969 | 16 | 37% | 67% |
| 1953 | 10 | 11 | 21 | 89% | 1954 | 16 | 38% | 66% |
| 1954 | 11 | 5 | 16 | 66% | 1986 | 15 | 40% | 65% |
| 1955 | 8 | 1 | 9 | 38% | 1964 | 15 | 41% | 65% |
| 1956 | 12 | 1 | 13 | 55% | 1996 | 15 | 42% | 64% |
| 1957 | 10 | 10 | 20 | 84% | 1995 | 15 | 43% | 62% |
| 1958 | 14 | 3 | 16 | 69% | 1965 | 14 | 44% | 59% |
| 1959 | 9 | 11 | 20 | 85% | 1963 | 14 | 46% | 58% |
| 1960 | 10 | 2 | 12 | 52% | 1987 | 14 | 47% | 58% |
| 1961 | 7 | 3 | 9 | 40% | 1982 | 14 | 48% | 58% |
| 1962 | 10 | 1 | 11 | 48% | 1972 | 14 | 49% | 58% |
| 1963 | 11 | 3 | 14 | 58% | 1937 | 14 | 51% | 57% |
| 1964 | 10 | 5 | 15 | 65% | 1947 | 13 | 52% | 56% |
| 1965 | 10 | 4 | 14 | 59% | 1927 | 13 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 11 | 1 | 12 | 52% | 2001 | 13 | 54% | 56% |
| 1967 | 13 | 7 | 20 | 84% | 1945 | 13 | 56% | 55% |
| 1968 | 11 | 11 | 22 | 92% | 1956 | 13 | 57% | 55% |
| 1969 | 14 | 2 | 16 | 67% | 1966 | 12 | 58% | 52% |
| 1970 | 11 | 6 | 17 | 73% | 1960 | 12 | 59% | 52% |
| 1971 | 10 | 7 | 17 | 72% | 1951 | 12 | 60% | 51% |
| 1972 | 11 | 3 | 14 | 58% | 1985 | 12 | 62% | 51% |
| 1973 | 11 | 5 | 16 | 67% | 1929 | 12 | 63% | 50% |
| 1974 | 12 | 7 | 19 | 78% | 1993 | 12 | 64% | 49% |
| 1975 | 11 | 10 | 21 | 89% | 1935 | 12 | 65% | 49% |
| 1976 | 11 | 6 | 17 | 70% | 1994 | 12 | 67% | 49% |
| 1977 | 1 | 0 | 1 | 6% | 1936 | 11 | 68% | 48% |
| 1978 | 11 | 0 | 11 | 48% | 1978 | 11 | 69% | 48% |
| 1979 | 11 | 9 | 20 | 86% | 1962 | 11 | 70% | 48% |
| 1980 | 12 | 5 | 17 | 72% | 1950 | 11 | 72% | 47% |
| 1981 | 8 | 10 | 18 | 76% | 1922 | 11 | 73% | 47% |
| 1982 | 14 | 0 | 14 | 58% | 2003 | 10 | 74% | 44% |
| 1983 | 14 | 10 | 24 | 100% | 1940 | 10 | 75% | 42% |
| 1984 | 11 | 6 | 17 | 72% | 1949 | 10 | 77% | 41% |
| 1985 | 11 | 1 | 12 | 51% | 1948 | 10 | 78% | 40% |
| 1986 | 11 | 4 | 15 | 65% | 1961 | 9 | 79% | 40% |
| 1987 | 6 | 8 | 14 | 58% | 1944 | 9 | 80% | 40% |
| 1988 | 2 | 1 | 3 | 14% | 2002 | 9 | 81% | 40% |
| 1989 | 9 | 0 | 9 | 38% | 1955 | 9 | 83% | 38% |
| 1990 | 3 | 0 | 3 | 12% | 1989 | 9 | 84% | 38% |
| 1991 | 5 | 1 | 6 | 24% | 1926 | 9 | 85% | 37% |
| 1992 | 4 | 1 | 4 | 19% | 1924 | 9 | 86% | 36% |
| 1993 | 11 | 1 | 12 | 49% | 1933 | 8 | 88% | 34% |
| 1994 | 6 | 5 | 12 | 49% | 1931 | 8 | 89% | 32% |
| 1995 | 14 | 1 | 15 | 62% | 1932 | 7 | 90% | 31% |
| 1996 | 12 | 4 | 15 | 64% | 1925 | 6 | 91% | 25% |
| 1997 | 11 | 6 | 17 | 72% | 1991 | 6 | 93% | 24% |
| 1998 | 14 | 8 | 21 | 90% | 1934 | 5 | 94% | 23% |
| 1999 | 11 | 11 | 22 | 95% | 1992 | 4 | 95% | 19% |
| 2000 | 11 | 5 | 16 | 69% | 1988 | 3 | 96% | 14% |
| 2001 | 6 | 8 | 13 | 56% | 1930 | 3 | 98% | 13% |
| 2002 | 8 | 1 | 9 | 40% | 1990 | 3 | 99% | 12% |
| 2003 | 10 | 0 | 10 | 44% | 1977 | 1 | 100% | 6% |
| Average | 10 | 4 | 14 | 58% | | 14 | | 58% |
| Maximum | 14 | 11 | 24 | 100% | | 24 | | 100% |
| Minimum | 1 | 0 | 1 | 6% | | 1 | | 6% |

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

| SWP Table A Deliveries for 2019 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 | 63% | 1983 | 45 | 0% | 100% |
| 1923 | 28 | 4 | 32 | 72% | 1998 | 41 | 1% | 93% |
| 1924 | 6 | 2 | 8 | 19% | 1938 | 40 | 2% | 89% |
| 1925 | 12 | 0 | 12 | 26% | 1999 | 39 | 4% | 87% |
| 1926 | 18 | 0 | 18 | 40% | 1952 | 38 | 5% | 86% |
| 1927 | 28 | 0 | 29 | 64% | 1942 | 38 | 6% | 85% |
| 1928 | 28 | 4 | 32 | 73% | 1967 | 38 | 7% | 84% |
| 1929 | 14 | 2 | 16 | 37% | 1943 | 38 | 9% | 84% |
| 1930 | 6 | 0 | 6 | 14% | 1975 | 37 | 10% | 84% |
| 1931 | 17 | 0 | 17 | 39% | 1968 | 37 | 11% | 84% |
| 1932 | 12 | 0 | 12 | 26% | 1979 | 37 | 12% | 83% |
| 1933 | 18 | 0 | 18 | 40% | 1996 | 36 | 14% | 82% |
| 1934 | 7 | 0 | 7 | 17% | 1953 | 36 | 15% | 81% |
| 1935 | 28 | 0 | 28 | 64% | 1969 | 36 | 16% | 80% |
| 1936 | 24 | 2 | 26 | 58% | 1958 | 35 | 17% | 79% |
| 1937 | 28 | 0 | 29 | 64% | 1982 | 35 | 19% | 79% |
| 1938 | 35 | 5 | 40 | 89% | 1997 | 35 | 20% | 79% |
| 1939 | 16 | 8 | 24 | 55% | 1970 | 35 | 21% | 79% |
| 1940 | 25 | 0 | 26 | 57% | 1995 | 35 | 22% | 78% |
| 1941 | 33 | 1 | 33 | 75% | 1974 | 35 | 23% | 78% |
| 1942 | 28 | 10 | 38 | 85% | 1984 | 34 | 25% | 77% |
| 1943 | 31 | 6 | 38 | 84% | 1941 | 33 | 26% | 75% |
| 1944 | 17 | 4 | 20 | 46% | 1980 | 33 | 27% | 74% |
| 1945 | 28 | 0 | 29 | 64% | 1928 | 32 | 28% | 73% |
| 1946 | 26 | 3 | 30 | 67% | 1986 | 32 | 30% | 72% |
| 1947 | 25 | 1 | 25 | 57% | 1923 | 32 | 31% | 72% |
| 1948 | 22 | 0 | 22 | 49% | 1957 | 32 | 32% | 71% |
| 1949 | 16 | 0 | 16 | 36% | 2000 | 31 | 33% | 70% |
| 1950 | 22 | 0 | 22 | 50% | 1956 | 31 | 35% | 69% |
| 1951 | 28 | 0 | 28 | 63% | 1959 | 31 | 36% | 69% |
| 1952 | 33 | 6 | 38 | 86% | 1946 | 30 | 37% | 67% |
| 1953 | 26 | 10 | 36 | 81% | 1985 | 29 | 38% | 66% |
| 1954 | 28 | 1 | 29 | 65% | 1973 | 29 | 40% | 65% |
| 1955 | 18 | 0 | 18 | 41% | 1954 | 29 | 41% | 65% |
| 1956 | 31 | 0 | 31 | 69% | 1937 | 29 | 42% | 64% |
| 1957 | 22 | 9 | 32 | 71% | 1978 | 29 | 43% | 64% |
| 1958 | 35 | 0 | 35 | 79% | 1945 | 29 | 44% | 64% |
| 1959 | 20 | 11 | 31 | 69% | 1927 | 29 | 46% | 64% |
| 1960 | 22 | 0 | 23 | 51% | 1963 | 28 | 47% | 64% |
| 1961 | 15 | 0 | 15 | 34% | 1966 | 28 | 48% | 64% |
| 1962 | 23 | 0 | 23 | 51% | 1972 | 28 | 49% | 64% |
| 1963 | 28 | 0 | 28 | 64% | 1935 | 28 | 51% | 64% |
| 1964 | 26 | 1 | 27 | 61% | 1951 | 28 | 52% | 63% |
| 1965 | 23 | 1 | 24 | 54% | 1922 | 28 | 53% | 63% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 28 | 0 | 28 | 64% | 1993 | 28 | 54% | 63% |
| 1967 | 34 | 4 | 38 | 84% | 1981 | 28 | 56% | 63% |
| 1968 | 27 | 10 | 37 | 84% | 1971 | 27 | 57% | 61% |
| 1969 | 35 | 1 | 36 | 80% | 1964 | 27 | 58% | 61% |
| 1970 | 28 | 7 | 35 | 79% | 1936 | 26 | 59% | 58% |
| 1971 | 22 | 5 | 27 | 61% | 1976 | 26 | 60% | 57% |
| 1972 | 28 | 0 | 28 | 64% | 1940 | 26 | 62% | 57% |
| 1973 | 28 | 1 | 29 | 65% | 1947 | 25 | 63% | 57% |
| 1974 | 31 | 4 | 35 | 78% | 1939 | 24 | 64% | 55% |
| 1975 | 28 | 9 | 37 | 84% | 1965 | 24 | 65% | 54% |
| 1976 | 22 | 4 | 26 | 57% | 1962 | 23 | 67% | 51% |
| 1977 | 3 | 0 | 3 | 7% | 1960 | 23 | 68% | 51% |
| 1978 | 29 | 0 | 29 | 64% | 2003 | 23 | 69% | 51% |
| 1979 | 28 | 9 | 37 | 83% | 1950 | 22 | 70% | 50% |
| 1980 | 31 | 2 | 33 | 74% | 1948 | 22 | 72% | 49% |
| 1981 | 19 | 9 | 28 | 63% | 1989 | 21 | 73% | 46% |
| 1982 | 35 | 0 | 35 | 79% | 1944 | 20 | 74% | 46% |
| 1983 | 35 | 10 | 45 | 100% | 2002 | 19 | 75% | 43% |
| 1984 | 28 | 6 | 34 | 77% | 1987 | 19 | 77% | 42% |
| 1985 | 29 | 1 | 29 | 66% | 1955 | 18 | 78% | 41% |
| 1986 | 28 | 4 | 32 | 72% | 1926 | 18 | 79% | 40% |
| 1987 | 13 | 6 | 19 | 42% | 1933 | 18 | 80% | 40% |
| 1988 | 5 | 0 | 5 | 11% | 2001 | 18 | 81% | 39% |
| 1989 | 21 | 0 | 21 | 46% | 1931 | 17 | 83% | 39% |
| 1990 | 6 | 0 | 6 | 14% | 1929 | 16 | 84% | 37% |
| 1991 | 11 | 0 | 11 | 25% | 1949 | 16 | 85% | 36% |
| 1992 | 8 | 0 | 8 | 17% | 1994 | 15 | 86% | 34% |
| 1993 | 28 | 0 | 28 | 63% | 1961 | 15 | 88% | 34% |
| 1994 | 14 | 1 | 15 | 34% | 1932 | 12 | 89% | 26% |
| 1995 | 35 | 0 | 35 | 78% | 1925 | 12 | 90% | 26% |
| 1996 | 30 | 6 | 36 | 82% | 1991 | 11 | 91% | 25% |
| 1997 | 28 | 7 | 35 | 79% | 1924 | 8 | 93% | 19% |
| 1998 | 35 | 6 | 41 | 93% | 1992 | 8 | 94% | 17% |
| 1999 | 28 | 11 | 39 | 87% | 1934 | 7 | 95% | 17% |
| 2000 | 28 | 3 | 31 | 70% | 1930 | 6 | 96% | 14% |
| 2001 | 12 | 6 | 18 | 39% | 1990 | 6 | 98% | 14% |
| 2002 | 19 | 0 | 19 | 43% | 1988 | 5 | 99% | 11% |
| 2003 | 22 | 0 | 23 | 51% | 1977 | 3 | 100% | 7% |
| Average | 23 | 3 | 26 | 59% | | 26 | | 59% |
| Maximum | 35 | 11 | 45 | 100% | | 45 | | 100% |
| Minimum | 3 | 0 | 3 | 7% | | 3 | | 7% |

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

| SWP Table A Deliveries for 2019 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 | 64% | 1983 | 99 | 0% | 100% |
| 1923 | 62 | 7 | 70 | 71% | 1998 | 93 | 1% | 94% |
| 1924 | 13 | 5 | 18 | 19% | 1938 | 90 | 2% | 91% |
| 1925 | 25 | 0 | 26 | 26% | 1952 | 86 | 4% | 87% |
| 1926 | 39 | 0 | 39 | 40% | 1967 | 86 | 5% | 87% |
| 1927 | 63 | 1 | 64 | 65% | 1943 | 84 | 6% | 85% |
| 1928 | 62 | 8 | 70 | 71% | 1996 | 83 | 7% | 85% |
| 1929 | 30 | 6 | 36 | 36% | 1969 | 83 | 9% | 84% |
| 1930 | 14 | 0 | 14 | 14% | 1958 | 82 | 10% | 83% |
| 1931 | 38 | 0 | 38 | 38% | 1999 | 82 | 11% | 83% |
| 1932 | 25 | 1 | 26 | 27% | 1942 | 82 | 12% | 83% |
| 1933 | 39 | 0 | 39 | 39% | 1982 | 81 | 14% | 82% |
| 1934 | 15 | 1 | 17 | 17% | 1995 | 81 | 15% | 82% |
| 1935 | 66 | 0 | 66 | 67% | 1975 | 80 | 16% | 81% |
| 1936 | 52 | 4 | 56 | 57% | 1974 | 79 | 17% | 80% |
| 1937 | 63 | 1 | 65 | 66% | 1979 | 78 | 19% | 79% |
| 1938 | 81 | 9 | 90 | 91% | 1968 | 78 | 20% | 79% |
| 1939 | 63 | 14 | 77 | 78% | 1997 | 78 | 21% | 79% |
| 1940 | 55 | 0 | 56 | 56% | 1941 | 77 | 22% | 79% |
| 1941 | 75 | 2 | 77 | 79% | 1970 | 77 | 23% | 78% |
| 1942 | 64 | 18 | 82 | 83% | 1939 | 77 | 25% | 78% |
| 1943 | 72 | 12 | 84 | 85% | 1984 | 76 | 26% | 77% |
| 1944 | 36 | 8 | 44 | 45% | 1980 | 75 | 27% | 77% |
| 1945 | 63 | 1 | 64 | 65% | 1953 | 75 | 28% | 77% |
| 1946 | 58 | 7 | 64 | 65% | 1981 | 72 | 30% | 73% |
| 1947 | 54 | 2 | 55 | 56% | 1986 | 72 | 31% | 73% |
| 1948 | 47 | 0 | 47 | 48% | 1956 | 71 | 32% | 72% |
| 1949 | 34 | 1 | 35 | 36% | 1928 | 70 | 33% | 71% |
| 1950 | 48 | 1 | 49 | 49% | 1923 | 70 | 35% | 71% |
| 1951 | 64 | 1 | 64 | 65% | 2000 | 69 | 36% | 70% |
| 1952 | 75 | 11 | 86 | 87% | 1976 | 66 | 37% | 67% |
| 1953 | 57 | 18 | 75 | 77% | 1978 | 66 | 38% | 67% |
| 1954 | 62 | 2 | 64 | 65% | 1935 | 66 | 40% | 67% |
| 1955 | 39 | 1 | 39 | 40% | 1957 | 65 | 41% | 66% |
| 1956 | 71 | 1 | 71 | 72% | 1973 | 65 | 42% | 66% |
| 1957 | 49 | 17 | 65 | 66% | 1985 | 65 | 43% | 66% |
| 1958 | 81 | 2 | 82 | 83% | 1937 | 65 | 44% | 66% |
| 1959 | 44 | 19 | 63 | 64% | 1951 | 64 | 46% | 65% |
| 1960 | 49 | 1 | 50 | 51% | 1927 | 64 | 47% | 65% |
| 1961 | 32 | 2 | 33 | 34% | 1946 | 64 | 48% | 65% |
| 1962 | 50 | 0 | 50 | 51% | 1966 | 64 | 49% | 65% |
| 1963 | 61 | 2 | 63 | 64% | 1954 | 64 | 51% | 65% |
| 1964 | 57 | 3 | 60 | 61% | 1945 | 64 | 52% | 65% |
| 1965 | 50 | 2 | 53 | 53% | 1959 | 63 | 53% | 64% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 63 | 1 | 64 | 65% | 1922 | 63 | 54% | 64% |
| 1967 | 78 | 8 | 86 | 87% | 1963 | 63 | 56% | 64% |
| 1968 | 59 | 18 | 78 | 79% | 1972 | 63 | 57% | 63% |
| 1969 | 81 | 2 | 83 | 84% | 1993 | 62 | 58% | 63% |
| 1970 | 63 | 14 | 77 | 78% | 1964 | 60 | 59% | 61% |
| 1971 | 47 | 10 | 58 | 59% | 1989 | 58 | 60% | 59% |
| 1972 | 61 | 1 | 63 | 63% | 1971 | 58 | 62% | 59% |
| 1973 | 63 | 2 | 65 | 66% | 2003 | 57 | 63% | 58% |
| 1974 | 71 | 8 | 79 | 80% | 1936 | 56 | 64% | 57% |
| 1975 | 63 | 17 | 80 | 81% | 1940 | 56 | 65% | 56% |
| 1976 | 59 | 7 | 66 | 67% | 1947 | 55 | 67% | 56% |
| 1977 | 6 | 0 | 7 | 7% | 1965 | 53 | 68% | 53% |
| 1978 | 66 | 0 | 66 | 67% | 1962 | 50 | 69% | 51% |
| 1979 | 63 | 16 | 78 | 79% | 1960 | 50 | 70% | 51% |
| 1980 | 71 | 5 | 75 | 77% | 1950 | 49 | 72% | 49% |
| 1981 | 55 | 17 | 72 | 73% | 1948 | 47 | 73% | 48% |
| 1982 | 81 | 0 | 81 | 82% | 1944 | 44 | 74% | 45% |
| 1983 | 81 | 18 | 99 | 100% | 2002 | 42 | 75% | 42% |
| 1984 | 64 | 12 | 76 | 77% | 1955 | 39 | 77% | 40% |
| 1985 | 64 | 1 | 65 | 66% | 1926 | 39 | 78% | 40% |
| 1986 | 64 | 8 | 72 | 73% | 1987 | 39 | 79% | 40% |
| 1987 | 27 | 12 | 39 | 40% | 1933 | 39 | 80% | 39% |
| 1988 | 11 | 0 | 11 | 11% | 1931 | 38 | 81% | 38% |
| 1989 | 58 | 0 | 58 | 59% | 2001 | 37 | 83% | 37% |
| 1990 | 13 | 0 | 13 | 13% | 1929 | 36 | 84% | 36% |
| 1991 | 25 | 0 | 25 | 25% | 1949 | 35 | 85% | 36% |
| 1992 | 16 | 0 | 17 | 17% | 1994 | 33 | 86% | 34% |
| 1993 | 62 | 0 | 62 | 63% | 1961 | 33 | 88% | 34% |
| 1994 | 30 | 3 | 33 | 34% | 1932 | 26 | 89% | 27% |
| 1995 | 81 | 0 | 81 | 82% | 1925 | 26 | 90% | 26% |
| 1996 | 69 | 14 | 83 | 85% | 1991 | 25 | 91% | 25% |
| 1997 | 64 | 14 | 78 | 79% | 1924 | 18 | 93% | 19% |
| 1998 | 81 | 12 | 93 | 94% | 1992 | 17 | 94% | 17% |
| 1999 | 63 | 19 | 82 | 83% | 1934 | 17 | 95% | 17% |
| 2000 | 64 | 6 | 69 | 70% | 1930 | 14 | 96% | 14% |
| 2001 | 26 | 11 | 37 | 37% | 1990 | 13 | 98% | 13% |
| 2002 | 41 | 0 | 42 | 42% | 1988 | 11 | 99% | 11% |
| 2003 | 57 | 0 | 57 | 58% | 1977 | 7 | 100% | 7% |
| Average | 53 | 6 | 59 | 60% | | 59 | | 60% |
| Maximum | 81 | 19 | 99 | 100% | | 99 | | 100% |
| Minimum | 6 | 0 | 7 | 7% | | 7 | | 7% |

Table A-28. Solano County WA: Existing Conditions

| SWP Table A Deliveries for 2019 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% | 1942 | 48 | 0% | 100% |
| 1923 | 20 | 22 | 42 | 88% | 1943 | 48 | 0% | 100% |
| 1924 | 11 | 20 | 31 | 66% | 1953 | 48 | 0% | 100% |
| 1925 | 20 | 1 | 21 | 43% | 1970 | 48 | 0% | 100% |
| 1926 | 20 | 3 | 23 | 48% | 1971 | 48 | 0% | 100% |
| 1927 | 24 | 3 | 27 | 56% | 1975 | 48 | 0% | 100% |
| 1928 | 22 | 24 | 46 | 96% | 1983 | 48 | 0% | 100% |
| 1929 | 11 | 22 | 34 | 70% | 1984 | 48 | 0% | 100% |
| 1930 | 20 | 1 | 21 | 43% | 1996 | 48 | 0% | 100% |
| 1931 | 11 | 3 | 14 | 30% | 1997 | 48 | 0% | 100% |
| 1932 | 20 | 1 | 21 | 43% | 1998 | 48 | 0% | 100% |
| 1933 | 11 | 3 | 14 | 30% | 1999 | 48 | 0% | 100% |
| 1934 | 11 | 1 | 12 | 25% | 1941 | 46 | 15% | 97% |
| 1935 | 20 | 1 | 21 | 43% | 1952 | 46 | 15% | 97% |
| 1936 | 20 | 20 | 40 | 84% | 1958 | 46 | 15% | 97% |
| 1937 | 20 | 20 | 40 | 84% | 1974 | 46 | 15% | 97% |
| 1938 | 24 | 20 | 44 | 92% | 1928 | 46 | 20% | 96% |
| 1939 | 20 | 24 | 44 | 92% | 1954 | 46 | 20% | 96% |
| 1940 | 22 | 3 | 25 | 53% | 1957 | 46 | 20% | 96% |
| 1941 | 24 | 22 | 46 | 97% | 2000 | 46 | 20% | 96% |
| 1942 | 24 | 24 | 48 | 100% | 1938 | 44 | 25% | 92% |
| 1943 | 24 | 24 | 48 | 100% | 1963 | 44 | 25% | 92% |
| 1944 | 20 | 24 | 44 | 92% | 1967 | 44 | 25% | 92% |
| 1945 | 20 | 3 | 23 | 48% | 1969 | 44 | 25% | 92% |
| 1946 | 20 | 20 | 40 | 84% | 1959 | 44 | 30% | 92% |
| 1947 | 20 | 20 | 40 | 84% | 1966 | 44 | 30% | 92% |
| 1948 | 20 | 3 | 23 | 48% | 1968 | 44 | 30% | 92% |
| 1949 | 20 | 20 | 40 | 84% | 1972 | 44 | 30% | 92% |
| 1950 | 20 | 3 | 23 | 48% | 1939 | 44 | 35% | 92% |
| 1951 | 22 | 20 | 42 | 89% | 1944 | 44 | 35% | 92% |
| 1952 | 24 | 22 | 46 | 97% | 1964 | 44 | 35% | 92% |
| 1953 | 24 | 24 | 48 | 100% | 1985 | 44 | 35% | 92% |
| 1954 | 22 | 24 | 46 | 96% | 1987 | 44 | 35% | 92% |
| 1955 | 20 | 22 | 42 | 88% | 1951 | 42 | 41% | 89% |
| 1956 | 24 | 3 | 27 | 56% | 1973 | 42 | 41% | 89% |
| 1957 | 22 | 24 | 46 | 96% | 1980 | 42 | 41% | 89% |
| 1958 | 24 | 22 | 46 | 97% | 1923 | 42 | 44% | 88% |
| 1959 | 20 | 24 | 44 | 92% | 1979 | 42 | 44% | 88% |
| 1960 | 20 | 20 | 40 | 84% | 1955 | 42 | 47% | 88% |
| 1961 | 20 | 3 | 23 | 48% | 1981 | 42 | 47% | 88% |
| 1962 | 20 | 3 | 23 | 48% | 2001 | 42 | 47% | 88% |
| 1963 | 24 | 20 | 44 | 92% | 1936 | 40 | 51% | 84% |
| 1964 | 20 | 24 | 44 | 92% | 1937 | 40 | 51% | 84% |
| 1965 | 24 | 3 | 27 | 56% | 1946 | 40 | 51% | 84% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 20 | 24 | 44 | 92% | 1947 | 40 | 54% | 84% |
| 1967 | 24 | 20 | 44 | 92% | 1949 | 40 | 54% | 84% |
| 1968 | 20 | 24 | 44 | 92% | 1960 | 40 | 54% | 84% |
| 1969 | 24 | 20 | 44 | 92% | 1976 | 35 | 58% | 74% |
| 1970 | 24 | 24 | 48 | 100% | 1929 | 34 | 59% | 70% |
| 1971 | 24 | 24 | 48 | 100% | 1994 | 34 | 59% | 70% |
| 1972 | 20 | 24 | 44 | 92% | 1924 | 31 | 62% | 66% |
| 1973 | 22 | 20 | 42 | 89% | 1927 | 27 | 63% | 56% |
| 1974 | 24 | 22 | 46 | 97% | 1956 | 27 | 63% | 56% |
| 1975 | 24 | 24 | 48 | 100% | 1965 | 27 | 63% | 56% |
| 1976 | 11 | 24 | 35 | 74% | 1982 | 27 | 63% | 56% |
| 1977 | 11 | 1 | 12 | 25% | 1986 | 27 | 63% | 56% |
| 1978 | 22 | 1 | 23 | 48% | 2003 | 26 | 69% | 54% |
| 1979 | 20 | 22 | 42 | 88% | 1940 | 25 | 70% | 53% |
| 1980 | 22 | 20 | 42 | 89% | 1995 | 24 | 72% | 51% |
| 1981 | 20 | 22 | 42 | 88% | 1945 | 23 | 73% | 48% |
| 1982 | 24 | 3 | 27 | 56% | 1948 | 23 | 73% | 48% |
| 1983 | 24 | 24 | 48 | 100% | 1950 | 23 | 73% | 48% |
| 1984 | 24 | 24 | 48 | 100% | 1962 | 23 | 73% | 48% |
| 1985 | 20 | 24 | 44 | 92% | 1961 | 23 | 78% | 48% |
| 1986 | 24 | 3 | 27 | 56% | 1926 | 23 | 78% | 48% |
| 1987 | 20 | 24 | 44 | 92% | 2002 | 23 | 78% | 48% |
| 1988 | 11 | 3 | 14 | 30% | 1978 | 23 | 81% | 48% |
| 1989 | 20 | 1 | 21 | 43% | 1993 | 23 | 81% | 48% |
| 1990 | 11 | 3 | 14 | 30% | 1922 | 22 | 84% | 47% |
| 1991 | 11 | 1 | 12 | 25% | 1935 | 21 | 85% | 43% |
| 1992 | 11 | 1 | 12 | 25% | 1925 | 21 | 86% | 43% |
| 1993 | 22 | 1 | 23 | 48% | 1930 | 21 | 86% | 43% |
| 1994 | 11 | 22 | 34 | 70% | 1932 | 21 | 86% | 43% |
| 1995 | 24 | 1 | 24 | 51% | 1989 | 21 | 86% | 43% |
| 1996 | 24 | 24 | 48 | 100% | 1931 | 14 | 91% | 30% |
| 1997 | 24 | 24 | 48 | 100% | 1933 | 14 | 91% | 30% |
| 1998 | 24 | 24 | 48 | 100% | 1988 | 14 | 91% | 30% |
| 1999 | 24 | 24 | 48 | 100% | 1990 | 14 | 91% | 30% |
| 2000 | 22 | 24 | 46 | 96% | 1992 | 12 | 96% | 25% |
| 2001 | 20 | 22 | 42 | 88% | 1934 | 12 | 96% | 25% |
| 2002 | 20 | 3 | 23 | 48% | 1977 | 12 | 96% | 25% |
| 2003 | 23 | 3 | 26 | 54% | 1991 | 12 | 96% | 25% |
| Average | 20 | 15 | 35 | 73% | | 35 | | 73% |
| 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 2019 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 | 61 | 0 | 61 | 70% | 1938 | 87 | 0% | 100% |
| 1923 | 59 | 0 | 59 | 67% | 1958 | 87 | 0% | 100% |
| 1924 | 12 | 0 | 12 | 14% | 1969 | 87 | 0% | 100% |
| 1925 | 23 | 0 | 23 | 26% | 1982 | 87 | 0% | 100% |
| 1926 | 35 | 0 | 35 | 40% | 1983 | 87 | 0% | 100% |
| 1927 | 62 | 0 | 62 | 71% | 1998 | 87 | 0% | 100% |
| 1928 | 59 | 0 | 59 | 68% | 1995 | 87 | 7% | 100% |
| 1929 | 27 | 0 | 27 | 31% | 1967 | 84 | 9% | 96% |
| 1930 | 12 | 0 | 12 | 14% | 1941 | 82 | 10% | 93% |
| 1931 | 34 | 0 | 34 | 39% | 1952 | 82 | 10% | 93% |
| 1932 | 22 | 0 | 22 | 25% | 1943 | 78 | 12% | 89% |
| 1933 | 35 | 0 | 35 | 40% | 1974 | 77 | 14% | 88% |
| 1934 | 14 | 0 | 14 | 16% | 1956 | 77 | 15% | 88% |
| 1935 | 71 | 0 | 71 | 81% | 1980 | 77 | 16% | 88% |
| 1936 | 47 | 0 | 47 | 53% | 1996 | 75 | 17% | 86% |
| 1937 | 63 | 0 | 63 | 73% | 1978 | 72 | 19% | 82% |
| 1938 | 87 | 0 | 87 | 100% | 1935 | 71 | 20% | 81% |
| 1939 | 33 | 0 | 33 | 38% | 1942 | 66 | 21% | 76% |
| 1940 | 50 | 0 | 50 | 57% | 1997 | 66 | 22% | 75% |
| 1941 | 82 | 0 | 82 | 93% | 1986 | 66 | 23% | 75% |
| 1942 | 66 | 0 | 66 | 76% | 1984 | 65 | 25% | 74% |
| 1943 | 78 | 0 | 78 | 89% | 1951 | 65 | 26% | 74% |
| 1944 | 32 | 0 | 32 | 37% | 2000 | 65 | 27% | 74% |
| 1945 | 61 | 0 | 61 | 69% | 1970 | 65 | 28% | 74% |
| 1946 | 52 | 0 | 52 | 60% | 1937 | 63 | 30% | 73% |
| 1947 | 49 | 0 | 49 | 56% | 1985 | 63 | 31% | 72% |
| 1948 | 42 | 0 | 42 | 48% | 1966 | 62 | 32% | 71% |
| 1949 | 30 | 0 | 30 | 35% | 1927 | 62 | 33% | 71% |
| 1950 | 43 | 0 | 43 | 50% | 1975 | 62 | 35% | 71% |
| 1951 | 65 | 0 | 65 | 74% | 1973 | 62 | 36% | 71% |
| 1952 | 82 | 0 | 82 | 93% | 1922 | 61 | 37% | 70% |
| 1953 | 52 | 0 | 52 | 60% | 1999 | 61 | 38% | 70% |
| 1954 | 57 | 0 | 57 | 65% | 1945 | 61 | 40% | 69% |
| 1955 | 35 | 0 | 35 | 40% | 1928 | 59 | 41% | 68% |
| 1956 | 77 | 0 | 77 | 88% | 1979 | 59 | 42% | 68% |
| 1957 | 44 | 0 | 44 | 50% | 1923 | 59 | 43% | 67% |
| 1958 | 87 | 0 | 87 | 100% | 1954 | 57 | 44% | 65% |
| 1959 | 39 | 0 | 39 | 45% | 1993 | 57 | 46% | 65% |
| 1960 | 44 | 0 | 44 | 50% | 1963 | 56 | 47% | 64% |
| 1961 | 28 | 0 | 28 | 32% | 1972 | 56 | 48% | 64% |
| 1962 | 45 | 0 | 45 | 51% | 1968 | 54 | 49% | 62% |
| 1963 | 56 | 0 | 56 | 64% | 1946 | 52 | 51% | 60% |
| 1964 | 52 | 0 | 52 | 59% | 1953 | 52 | 52% | 60% |
| 1965 | 45 | 0 | 45 | 52% | 1964 | 52 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 62 | 0 | 62 | 71% | 1940 | 50 | 54% | 57% |
| 1967 | 84 | 0 | 84 | 96% | 1947 | 49 | 56% | 56% |
| 1968 | 54 | 0 | 54 | 62% | 1936 | 47 | 57% | 53% |
| 1969 | 87 | 0 | 87 | 100% | 1965 | 45 | 58% | 52% |
| 1970 | 65 | 0 | 65 | 74% | 1962 | 45 | 59% | 51% |
| 1971 | 43 | 0 | 43 | 49% | 1957 | 44 | 60% | 50% |
| 1972 | 56 | 0 | 56 | 64% | 1960 | 44 | 62% | 50% |
| 1973 | 62 | 0 | 62 | 71% | 1976 | 44 | 63% | 50% |
| 1974 | 77 | 0 | 77 | 88% | 1950 | 43 | 64% | 50% |
| 1975 | 62 | 0 | 62 | 71% | 1989 | 43 | 65% | 49% |
| 1976 | 44 | 0 | 44 | 50% | 1971 | 43 | 67% | 49% |
| 1977 | 6 | 0 | 6 | 6% | 1948 | 42 | 68% | 48% |
| 1978 | 72 | 0 | 72 | 82% | 1959 | 39 | 69% | 45% |
| 1979 | 59 | 0 | 59 | 68% | 2003 | 39 | 70% | 44% |
| 1980 | 77 | 0 | 77 | 88% | 2002 | 37 | 72% | 43% |
| 1981 | 35 | 0 | 35 | 40% | 1926 | 35 | 73% | 40% |
| 1982 | 87 | 0 | 87 | 100% | 1933 | 35 | 74% | 40% |
| 1983 | 87 | 0 | 87 | 100% | 1955 | 35 | 75% | 40% |
| 1984 | 65 | 0 | 65 | 74% | 1981 | 35 | 77% | 40% |
| 1985 | 63 | 0 | 63 | 72% | 1931 | 34 | 78% | 39% |
| 1986 | 66 | 0 | 66 | 75% | 1939 | 33 | 79% | 38% |
| 1987 | 24 | 0 | 24 | 28% | 1944 | 32 | 80% | 37% |
| 1988 | 9 | 0 | 9 | 11% | 1949 | 30 | 81% | 35% |
| 1989 | 43 | 0 | 43 | 49% | 1961 | 28 | 83% | 32% |
| 1990 | 11 | 0 | 11 | 13% | 1929 | 27 | 84% | 31% |
| 1991 | 22 | 0 | 22 | 25% | 1994 | 27 | 85% | 31% |
| 1992 | 15 | 0 | 15 | 17% | 1987 | 24 | 86% | 28% |
| 1993 | 57 | 0 | 57 | 65% | 2001 | 23 | 88% | 26% |
| 1994 | 27 | 0 | 27 | 31% | 1925 | 23 | 89% | 26% |
| 1995 | 87 | 0 | 87 | 100% | 1932 | 22 | 90% | 25% |
| 1996 | 75 | 0 | 75 | 86% | 1991 | 22 | 91% | 25% |
| 1997 | 66 | 0 | 66 | 75% | 1992 | 15 | 93% | 17% |
| 1998 | 87 | 0 | 87 | 100% | 1934 | 14 | 94% | 16% |
| 1999 | 61 | 0 | 61 | 70% | 1930 | 12 | 95% | 14% |
| 2000 | 65 | 0 | 65 | 74% | 1924 | 12 | 96% | 14% |
| 2001 | 23 | 0 | 23 | 26% | 1990 | 11 | 98% | 13% |
| 2002 | 37 | 0 | 37 | 43% | 1988 | 9 | 99% | 11% |
| 2003 | 39 | 0 | 39 | 44% | 1977 | 6 | 100% | 6% |
| Average | 51 | 0 | 51 | 59% | | 51 | | 59% |
| Maximum | 87 | 0 | 87 | 100% | | 87 | | 100% |
| Minimum | 6 | 0 | 6 | 6% | | 6 | | 6% |

Table A-30. Ventura County WPD: Existing Conditions

| SWP Table A Deliveries for 2019 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 | 70% | 1958 | 20 | 0% | 100% |
| 1923 | 13 | 0 | 13 | 67% | 1998 | 20 | 0% | 100% |
| 1924 | 3 | 0 | 3 | 14% | 1938 | 20 | 0% | 100% |
| 1925 | 5 | 0 | 5 | 26% | 1969 | 20 | 0% | 100% |
| 1926 | 8 | 0 | 8 | 40% | 1982 | 20 | 0% | 100% |
| 1927 | 14 | 0 | 14 | 71% | 1983 | 20 | 0% | 100% |
| 1928 | 14 | 0 | 14 | 68% | 1995 | 20 | 7% | 100% |
| 1929 | 6 | 0 | 6 | 31% | 2003 | 20 | 9% | 98% |
| 1930 | 3 | 0 | 3 | 14% | 1967 | 19 | 10% | 96% |
| 1931 | 8 | 0 | 8 | 39% | 1952 | 19 | 11% | 93% |
| 1932 | 5 | 0 | 5 | 25% | 1941 | 19 | 11% | 93% |
| 1933 | 8 | 0 | 8 | 40% | 1943 | 18 | 14% | 89% |
| 1934 | 3 | 0 | 3 | 16% | 1974 | 18 | 15% | 88% |
| 1935 | 16 | 0 | 16 | 81% | 1956 | 18 | 16% | 88% |
| 1936 | 11 | 0 | 11 | 53% | 1980 | 18 | 17% | 88% |
| 1937 | 15 | 0 | 15 | 73% | 1996 | 17 | 19% | 86% |
| 1938 | 20 | 0 | 20 | 100% | 1978 | 16 | 20% | 82% |
| 1939 | 4 | 0 | 4 | 21% | 1935 | 16 | 21% | 81% |
| 1940 | 11 | 0 | 11 | 57% | 1942 | 15 | 22% | 76% |
| 1941 | 19 | 0 | 19 | 93% | 1997 | 15 | 23% | 75% |
| 1942 | 15 | 0 | 15 | 76% | 1986 | 15 | 25% | 75% |
| 1943 | 18 | 0 | 18 | 89% | 1984 | 15 | 26% | 74% |
| 1944 | 7 | 0 | 7 | 37% | 1951 | 15 | 27% | 74% |
| 1945 | 14 | 0 | 14 | 69% | 2000 | 15 | 28% | 74% |
| 1946 | 12 | 0 | 12 | 60% | 1970 | 15 | 30% | 74% |
| 1947 | 11 | 0 | 11 | 56% | 1937 | 15 | 31% | 73% |
| 1948 | 10 | 0 | 10 | 48% | 1985 | 14 | 32% | 72% |
| 1949 | 7 | 0 | 7 | 35% | 1966 | 14 | 33% | 71% |
| 1950 | 10 | 0 | 10 | 50% | 1927 | 14 | 35% | 71% |
| 1951 | 15 | 0 | 15 | 74% | 1975 | 14 | 36% | 71% |
| 1952 | 19 | 0 | 19 | 93% | 1973 | 14 | 37% | 71% |
| 1953 | 12 | 0 | 12 | 60% | 1922 | 14 | 38% | 70% |
| 1954 | 13 | 0 | 13 | 65% | 1999 | 14 | 40% | 70% |
| 1955 | 8 | 0 | 8 | 40% | 1945 | 14 | 41% | 69% |
| 1956 | 18 | 0 | 18 | 88% | 1928 | 14 | 42% | 68% |
| 1957 | 10 | 0 | 10 | 50% | 1979 | 14 | 43% | 68% |
| 1958 | 20 | 0 | 20 | 100% | 1923 | 13 | 44% | 67% |
| 1959 | 9 | 0 | 9 | 45% | 1954 | 13 | 46% | 65% |
| 1960 | 10 | 0 | 10 | 50% | 1993 | 13 | 47% | 65% |
| 1961 | 6 | 0 | 6 | 32% | 1963 | 13 | 48% | 64% |
| 1962 | 10 | 0 | 10 | 51% | 1972 | 13 | 49% | 64% |
| 1963 | 13 | 0 | 13 | 64% | 1968 | 12 | 51% | 62% |
| 1964 | 12 | 0 | 12 | 59% | 1976 | 12 | 52% | 62% |
| 1965 | 10 | 0 | 10 | 52% | 1989 | 12 | 53% | 60% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 14 | 0 | 14 | 71% | 1946 | 12 | 54% | 60% |
| 1967 | 19 | 0 | 19 | 96% | 1953 | 12 | 56% | 60% |
| 1968 | 12 | 0 | 12 | 62% | 1964 | 12 | 57% | 59% |
| 1969 | 20 | 0 | 20 | 100% | 1940 | 11 | 58% | 57% |
| 1970 | 15 | 0 | 15 | 74% | 1981 | 11 | 59% | 57% |
| 1971 | 10 | 0 | 10 | 49% | 1947 | 11 | 60% | 56% |
| 1972 | 13 | 0 | 13 | 64% | 1936 | 11 | 62% | 53% |
| 1973 | 14 | 0 | 14 | 71% | 1965 | 10 | 63% | 52% |
| 1974 | 18 | 0 | 18 | 88% | 1962 | 10 | 64% | 51% |
| 1975 | 14 | 0 | 14 | 71% | 1957 | 10 | 65% | 50% |
| 1976 | 12 | 0 | 12 | 62% | 1960 | 10 | 67% | 50% |
| 1977 | 1 | 0 | 1 | 6% | 1950 | 10 | 68% | 50% |
| 1978 | 16 | 0 | 16 | 82% | 1971 | 10 | 69% | 49% |
| 1979 | 14 | 0 | 14 | 68% | 1948 | 10 | 70% | 48% |
| 1980 | 18 | 0 | 18 | 88% | 1959 | 9 | 72% | 45% |
| 1981 | 11 | 0 | 11 | 57% | 2002 | 9 | 73% | 43% |
| 1982 | 20 | 0 | 20 | 100% | 1926 | 8 | 74% | 40% |
| 1983 | 20 | 0 | 20 | 100% | 1933 | 8 | 75% | 40% |
| 1984 | 15 | 0 | 15 | 74% | 1955 | 8 | 77% | 40% |
| 1985 | 14 | 0 | 14 | 72% | 1931 | 8 | 78% | 39% |
| 1986 | 15 | 0 | 15 | 75% | 1944 | 7 | 79% | 37% |
| 1987 | 6 | 0 | 6 | 28% | 1949 | 7 | 80% | 35% |
| 1988 | 2 | 0 | 2 | 11% | 1961 | 6 | 81% | 32% |
| 1989 | 12 | 0 | 12 | 60% | 1929 | 6 | 83% | 31% |
| 1990 | 3 | 0 | 3 | 13% | 1994 | 6 | 84% | 31% |
| 1991 | 5 | 0 | 5 | 25% | 1987 | 6 | 85% | 28% |
| 1992 | 3 | 0 | 3 | 17% | 2001 | 5 | 86% | 26% |
| 1993 | 13 | 0 | 13 | 65% | 1925 | 5 | 88% | 26% |
| 1994 | 6 | 0 | 6 | 31% | 1932 | 5 | 89% | 25% |
| 1995 | 20 | 0 | 20 | 100% | 1991 | 5 | 90% | 25% |
| 1996 | 17 | 0 | 17 | 86% | 1939 | 4 | 91% | 21% |
| 1997 | 15 | 0 | 15 | 75% | 1992 | 3 | 93% | 17% |
| 1998 | 20 | 0 | 20 | 100% | 1934 | 3 | 94% | 16% |
| 1999 | 14 | 0 | 14 | 70% | 1930 | 3 | 95% | 14% |
| 2000 | 15 | 0 | 15 | 74% | 1924 | 3 | 96% | 14% |
| 2001 | 5 | 0 | 5 | 26% | 1990 | 3 | 98% | 13% |
| 2002 | 9 | 0 | 9 | 43% | 1988 | 2 | 99% | 11% |
| 2003 | 20 | 0 | 20 | 98% | 1977 | 1 | 100% | 6% |
| Average | 12 | 0 | 12 | 60% | | 12 | | 60% |
| Maximum | 20 | 0 | 20 | 100% | | 20 | | 100% |
| Minimum | 1 | 0 | 1 | 6% | | 1 | | 6% |



Appendix B: Future Condition with Climate Change and 45 cm Sea Level Rise Scenario

Appendix B: Future Condition with Climate Change and 45 cm Sea Level Rise Scenario

Introduction – Future Conditions

This appendix provides background and results on the Future Conditions Scenario, an alternative of the DCR 2019 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

The DCR 2019 Future Conditions scenario uses the same climate change hydrology inputs of the Incidental Take Permit (ITP)¹ climate change studies. ITP climate change scenario was developed centered around 2035 (2020-2049). This is best available climate change input hydrology to be used for DCR planning horizon (year 2040). DWR (2020) explains how the climate change projections conditions were developed:

“The climate projections were derived from the ensemble of 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) as the most appropriate projections for California water resources evaluation and planning (DWR CCTAG, 2015). The 20 climate projections, selected by CCTAG, were generated from 10 global climate models run with two emission scenarios, one optimistic (Representative Concentration Pathway [RCP] 4.5) and one pessimistic (RCP 8.5), identified by the Intergovernmental Panel on Climate Change (IPCC) for the Fifth Assessment Report (AR5) (2014).”

¹ Incidental Take Permit (ITP) for Long-Term Operation of the State Water Project

<https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Files/ITP-for-Long-Term-SWP-Operations.pdf>

Sea-Level Rise (SLR)

Two SLR projections were evaluated before establishing the final Future Conditions SLR. This section explains how the final Future Conditions SLR was selected between the 1 foot (ft) and 1.5 ft SLR projections.

The Ocean Protection Council released the latest Sea-Level Rise Guidance in 2018 (OPC 2018)¹. Table B-1 (OPC 2018) presents the three levels of risk aversion: low, medium-high, and extreme. The DCR 2019 scenarios included SLR projections in between: medium (1ft SLR) and near-high risk (45 centimeter or 1.5 ft SLR) which are summarized in Table B-2.

The high emissions, 2040 row (Table B-1) was selected because of the 20-year “project lifespan” of DCR Future Conditions scenarios and due to the Incidental Take Permit’s March 31, 2040 expiration date. The 1.0 ft SLR has a 1-in-20 chance or 5% exceedance probability while the 45 cm (1.476 ft) SLR has less than 0.5% exceedance probability (Table B-2).

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

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

Table B-2. DCR 2019 Preliminary Future Conditions (1 ft and 1.5 ft SLR projections for High Emissions, 2040)

| Aversion projection (High emissions, 2040) | SLR (ft) projection |
|---|----------------------------|
| Low risk | 0.8 |
| Medium risk (DCR 19 1 ft SLR) | 1.0 |
| Medium-high risk | 1.3 |
| High risk (DCR 19 1.5 ft SLR) | 1.476 |
| Extreme risk | 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

Between the 1 ft and 1.5 ft SLR, the 1.5 ft SLR Future Conditions scenario was chosen after feedback from management and some State Water Project Contractors.

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 45 cm SLR.

SWP Table A Deliveries

Figure B-1 shows the comparison of SWP Table A delivery Exceedance curves between the 2019 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.

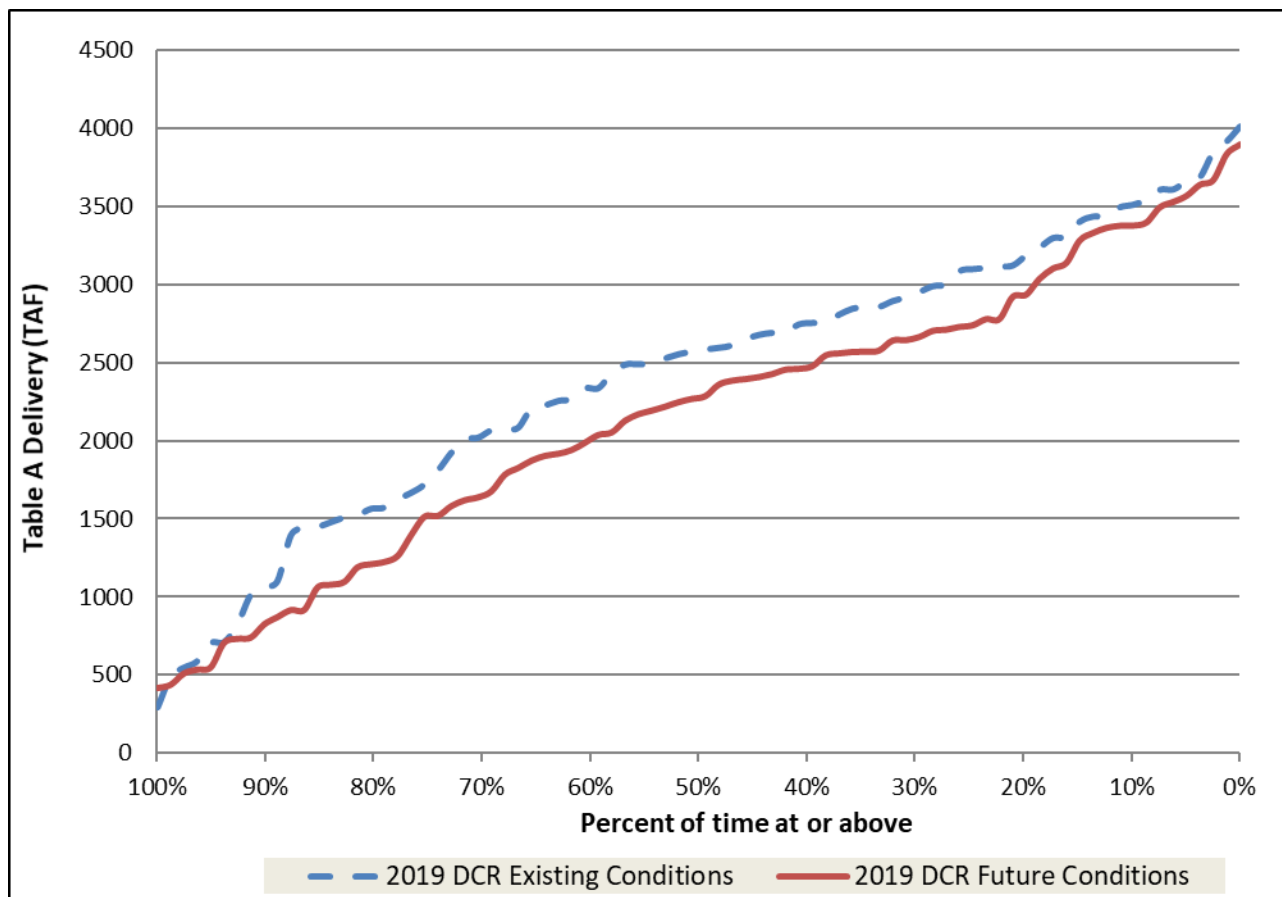


Figure B-1. Comparison of SWP Table A Delivery Probability for Future Conditions

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 | 2,712 | 66% | 1983 | 3,900 | 0% | 94% |
| 1923 | 4,133 | 2,665 | 64% | 1952 | 3,839 | 1% | 93% |
| 1924 | 4,133 | 737 | 18% | 1998 | 3,672 | 2% | 89% |
| 1925 | 4,133 | 1,222 | 30% | 1938 | 3,642 | 4% | 88% |
| 1926 | 4,133 | 1,076 | 26% | 1969 | 3,571 | 5% | 86% |
| 1927 | 4,133 | 2,427 | 59% | 1982 | 3,532 | 6% | 85% |
| 1928 | 4,133 | 2,477 | 60% | 1995 | 3,498 | 7% | 85% |
| 1929 | 4,133 | 1,094 | 26% | 1978 | 3,400 | 9% | 82% |
| 1930 | 4,133 | 868 | 21% | 1942 | 3,380 | 10% | 82% |
| 1931 | 4,133 | 1,262 | 31% | 1958 | 3,378 | 11% | 82% |
| 1932 | 4,133 | 546 | 13% | 1996 | 3,365 | 12% | 81% |
| 1933 | 4,133 | 1,512 | 37% | 1967 | 3,332 | 14% | 81% |
| 1934 | 4,133 | 507 | 12% | 1941 | 3,284 | 15% | 79% |
| 1935 | 4,133 | 2,571 | 62% | 1999 | 3,140 | 16% | 76% |
| 1936 | 4,133 | 2,456 | 59% | 1984 | 3,104 | 17% | 75% |
| 1937 | 4,133 | 2,408 | 58% | 1970 | 3,039 | 19% | 74% |
| 1938 | 4,133 | 3,642 | 88% | 1943 | 2,937 | 20% | 71% |
| 1939 | 4,133 | 1,618 | 39% | 1974 | 2,923 | 21% | 71% |
| 1940 | 4,133 | 2,359 | 57% | 1951 | 2,781 | 22% | 67% |
| 1941 | 4,133 | 3,284 | 79% | 1980 | 2,780 | 23% | 67% |
| 1942 | 4,133 | 3,380 | 82% | 1997 | 2,740 | 25% | 66% |
| 1943 | 4,133 | 2,937 | 71% | 2000 | 2,730 | 26% | 66% |
| 1944 | 4,133 | 1,188 | 29% | 1922 | 2,712 | 27% | 66% |
| 1945 | 4,133 | 2,643 | 64% | 1966 | 2,704 | 28% | 65% |
| 1946 | 4,133 | 2,128 | 51% | 1923 | 2,665 | 30% | 64% |
| 1947 | 4,133 | 1,940 | 47% | 1973 | 2,645 | 31% | 64% |
| 1948 | 4,133 | 2,053 | 50% | 1945 | 2,643 | 32% | 64% |
| 1949 | 4,133 | 915 | 22% | 1963 | 2,578 | 33% | 62% |
| 1950 | 4,133 | 2,170 | 53% | 1935 | 2,571 | 35% | 62% |
| 1951 | 4,133 | 2,781 | 67% | 1956 | 2,569 | 36% | 62% |
| 1952 | 4,133 | 3,839 | 93% | 1975 | 2,560 | 37% | 62% |
| 1953 | 4,133 | 2,268 | 55% | 1985 | 2,548 | 38% | 62% |
| 1954 | 4,133 | 2,385 | 58% | 1928 | 2,477 | 40% | 60% |
| 1955 | 4,133 | 1,395 | 34% | 1957 | 2,461 | 41% | 60% |
| 1956 | 4,133 | 2,569 | 62% | 1936 | 2,456 | 42% | 59% |
| 1957 | 4,133 | 2,461 | 60% | 1927 | 2,427 | 43% | 59% |
| 1958 | 4,133 | 3,378 | 82% | 1937 | 2,408 | 44% | 58% |
| 1959 | 4,133 | 2,193 | 53% | 1993 | 2,396 | 46% | 58% |
| 1960 | 4,133 | 1,208 | 29% | 1954 | 2,385 | 47% | 58% |
| 1961 | 4,133 | 1,636 | 40% | 1940 | 2,359 | 48% | 57% |
| 1962 | 4,133 | 2,037 | 49% | 1986 | 2,286 | 49% | 55% |
| 1963 | 4,133 | 2,578 | 62% | 1953 | 2,268 | 51% | 55% |
| 1964 | 4,133 | 1,916 | 46% | 1965 | 2,247 | 52% | 54% |

| 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 |
| 1965 | 4,133 | 2,247 | 54% | 1968 | 2,218 | 53% | 54% |
| 1966 | 4,133 | 2,704 | 65% | 1959 | 2,193 | 54% | 53% |
| 1967 | 4,133 | 3,332 | 81% | 1950 | 2,170 | 56% | 53% |
| 1968 | 4,133 | 2,218 | 54% | 1946 | 2,128 | 57% | 51% |
| 1969 | 4,133 | 3,571 | 86% | 1948 | 2,053 | 58% | 50% |
| 1970 | 4,133 | 3,039 | 74% | 1962 | 2,037 | 59% | 49% |
| 1971 | 4,133 | 1,872 | 45% | 1989 | 1,987 | 60% | 48% |
| 1972 | 4,133 | 1,580 | 38% | 1947 | 1,940 | 62% | 47% |
| 1973 | 4,133 | 2,645 | 64% | 1964 | 1,916 | 63% | 46% |
| 1974 | 4,133 | 2,923 | 71% | 1979 | 1,902 | 64% | 46% |
| 1975 | 4,133 | 2,560 | 62% | 1971 | 1,872 | 65% | 45% |
| 1976 | 4,133 | 1,517 | 37% | 2003 | 1,825 | 67% | 44% |
| 1977 | 4,133 | 412 | 10% | 1981 | 1,782 | 68% | 43% |
| 1978 | 4,133 | 3,400 | 82% | 2002 | 1,676 | 69% | 41% |
| 1979 | 4,133 | 1,902 | 46% | 1961 | 1,636 | 70% | 40% |
| 1980 | 4,133 | 2,780 | 67% | 1939 | 1,618 | 72% | 39% |
| 1981 | 4,133 | 1,782 | 43% | 1972 | 1,580 | 73% | 38% |
| 1982 | 4,133 | 3,532 | 85% | 1976 | 1,517 | 74% | 37% |
| 1983 | 4,133 | 3,900 | 94% | 1933 | 1,512 | 75% | 37% |
| 1984 | 4,133 | 3,104 | 75% | 1955 | 1,395 | 77% | 34% |
| 1985 | 4,133 | 2,548 | 62% | 1931 | 1,262 | 78% | 31% |
| 1986 | 4,133 | 2,286 | 55% | 1925 | 1,222 | 79% | 30% |
| 1987 | 4,133 | 1,059 | 26% | 1960 | 1,208 | 80% | 29% |
| 1988 | 4,133 | 434 | 10% | 1944 | 1,188 | 81% | 29% |
| 1989 | 4,133 | 1,987 | 48% | 1929 | 1,094 | 83% | 26% |
| 1990 | 4,133 | 531 | 13% | 1926 | 1,076 | 84% | 26% |
| 1991 | 4,133 | 821 | 20% | 1987 | 1,059 | 85% | 26% |
| 1992 | 4,133 | 729 | 18% | 1949 | 915 | 86% | 22% |
| 1993 | 4,133 | 2,396 | 58% | 1994 | 913 | 88% | 22% |
| 1994 | 4,133 | 913 | 22% | 1930 | 868 | 89% | 21% |
| 1995 | 4,133 | 3,498 | 85% | 1991 | 821 | 90% | 20% |
| 1996 | 4,133 | 3,365 | 81% | 1924 | 737 | 91% | 18% |
| 1997 | 4,133 | 2,740 | 66% | 1992 | 729 | 93% | 18% |
| 1998 | 4,133 | 3,672 | 89% | 2001 | 703 | 94% | 17% |
| 1999 | 4,133 | 3,140 | 76% | 1932 | 546 | 95% | 13% |
| 2000 | 4,133 | 2,730 | 66% | 1990 | 531 | 96% | 13% |
| 2001 | 4,133 | 703 | 17% | 1934 | 507 | 98% | 12% |
| 2002 | 4,133 | 1,676 | 41% | 1988 | 434 | 99% | 10% |
| 2003 | 4,133 | 1,825 | 44% | 1977 | 412 | 100% | 10% |
| Average | 4,133 | 2,165 | 52% | Average | 2,165 | | 52% |
| Minimum | 4,133 | 412 | 10% | Minimum | 412 | | 10% |
| Maximum | 4,133 | 3,900 | 94% | Maximum | 3,900 | | 94% |

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 | 0 | 4 | 4 |
| 1922 | 6 | 6 | 6 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 28 |
| 1923 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1924 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 6 | 12 |
| 1925 | 6 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1926 | 6 | 5 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 18 |
| 1927 | 3 | 2 | 4 | 5 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 21 |
| 1928 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1929 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 10 |
| 1930 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
| 1931 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 |
| 1932 | 6 | 6 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 20 |
| 1933 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 |
| 1934 | 6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 6 | 21 |
| 1935 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| 1936 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1937 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 9 |
| 1938 | 0 | 40 | 289 | 216 | 157 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 706 |
| 1939 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 1940 | 3 | 2 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 18 |
| 1941 | 0 | 0 | 0 | 29 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 35 |
| 1942 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1943 | 0 | 0 | 219 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 219 |
| 1944 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 13 |
| 1945 | 3 | 26 | 115 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 153 |
| 1946 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1947 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 1948 | 3 | 0 | 4 | 5 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 4 | 20 |
| 1949 | 3 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 12 |
| 1950 | 3 | 2 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 22 |
| 1951 | 252 | 234 | 166 | 0 | 2 | 3 | 0 | 0 | 0 | 0 | 3 | 4 | 663 |
| 1952 | 0 | 0 | 0 | 0 | 86 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 90 |
| 1953 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1954 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 3 | 4 | 14 |
| 1955 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 9 |
| 1956 | 296 | 315 | 207 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 820 |
| 1957 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 7 |
| 1958 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1959 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 |
| 1960 | 0 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 10 |

| SWP Table Article 21 Deliveries (TAF) | | | | | | | | | | | | | |
|---------------------------------------|------------|------------|------------|------------|------------|-----------|----------|----------|----------|----------|----------|------------|------------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
| 1961 | 6 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 20 |
| 1962 | 0 | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 4 | 13 |
| 1963 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 3 | 0 | 4 |
| 1964 | 3 | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 14 |
| 1965 | 3 | 2 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 16 |
| 1966 | 1 | 103 | 28 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 4 | 140 |
| 1967 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 1968 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1969 | 0 | 127 | 163 | 80 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 394 |
| 1970 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 7 |
| 1971 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 7 |
| 1972 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 3 | 4 | 9 |
| 1973 | 0 | 0 | 72 | 0 | 0 | 3 | 4 | 0 | 0 | 0 | 3 | 4 | 86 |
| 1974 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 4 | 7 |
| 1975 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1976 | 3 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 1977 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 12 |
| 1978 | 5 | 5 | 5 | 94 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 112 |
| 1979 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 10 |
| 1980 | 0 | 113 | 163 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 283 |
| 1981 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 5 | 16 |
| 1982 | 3 | 2 | 264 | 193 | 2 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 470 |
| 1983 | 0 | 17 | 133 | 110 | 95 | 45 | 0 | 0 | 0 | 0 | 3 | 167 | 570 |
| 1984 | 179 | 195 | 210 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 591 |
| 1985 | 3 | 2 | 2 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 12 |
| 1986 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1987 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 8 |
| 1988 | 6 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 16 |
| 1989 | 6 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| 1990 | 6 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 11 |
| 1991 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 11 |
| 1992 | 6 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 26 |
| 1993 | 5 | 5 | 5 | 5 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 1994 | 0 | 2 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 8 |
| 1995 | 5 | 5 | 5 | 95 | 94 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 208 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 4 |
| 1997 | 0 | 12 | 155 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 174 |
| 1998 | 0 | 0 | 111 | 110 | 93 | 0 | 0 | 0 | 0 | 0 | 3 | 4 | 321 |
| 1999 | 0 | 142 | 141 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 283 |
| 2000 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 3 |
| 2001 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 9 |
| 2002 | 6 | 0 | 5 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 19 |
| 2003 | 3 | 2 | 4 | 5 | 2 | 0 | 0 | 0 | 0 | | | | 20 |
| Average | 11 | 17 | 31 | 12 | 7 | 1 | 0 | 0 | 0 | 0 | 1 | 5 | 86 |
| Minimum | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Maximum | 296 | 315 | 289 | 216 | 157 | 45 | 4 | 0 | 2 | 4 | 4 | 167 | 820 |

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 | | | | | | | | | | 20 | 212 | 443 | 675 |
| 1922 | 182 | 328 | 306 | 59 | 60 | 257 | 411 | 311 | 397 | 197 | 383 | 268 | 3,158 |
| 1923 | 344 | 178 | 131 | 57 | 37 | 118 | 411 | 314 | 240 | 213 | 166 | 222 | 2,430 |
| 1924 | 86 | 149 | 18 | 18 | 18 | 18 | 18 | 18 | 34 | 112 | 150 | 253 | 894 |
| 1925 | 166 | 145 | 182 | 57 | 46 | 18 | 50 | 18 | 156 | 140 | 129 | 234 | 1,343 |
| 1926 | 144 | 136 | 18 | 100 | 18 | 141 | 18 | 18 | 140 | 131 | 85 | 168 | 1,120 |
| 1927 | 148 | 162 | 135 | 195 | 37 | 112 | 348 | 311 | 397 | 105 | 397 | 335 | 2,682 |
| 1928 | 177 | 143 | 180 | 77 | 37 | 111 | 43 | 311 | 395 | 111 | 297 | 331 | 2,213 |
| 1929 | 162 | 146 | 148 | 56 | 18 | 18 | 18 | 18 | 49 | 39 | 51 | 203 | 926 |
| 1930 | 150 | 135 | 118 | 43 | 46 | 205 | 354 | 18 | 141 | 100 | 138 | 120 | 1,567 |
| 1931 | 121 | 112 | 77 | 18 | 18 | 18 | 18 | 18 | 33 | 31 | 50 | 175 | 690 |
| 1932 | 155 | 238 | 18 | 41 | 37 | 263 | 18 | 18 | 114 | 95 | 132 | 147 | 1,278 |
| 1933 | 162 | 142 | 133 | 38 | 37 | 18 | 18 | 18 | 50 | 53 | 41 | 287 | 997 |
| 1934 | 123 | 138 | 99 | 18 | 18 | 18 | 18 | 18 | 41 | 22 | 211 | 178 | 903 |
| 1935 | 134 | 127 | 136 | 225 | 37 | 241 | 411 | 235 | 161 | 138 | 203 | 259 | 2,307 |
| 1936 | 131 | 532 | 177 | 72 | 37 | 218 | 410 | 266 | 226 | 169 | 172 | 188 | 2,597 |
| 1937 | 183 | 526 | 382 | 73 | 81 | 258 | 95 | 261 | 157 | 132 | 397 | 304 | 2,851 |
| 1938 | 311 | 526 | 427 | 397 | 411 | 397 | 411 | 311 | 397 | 211 | 344 | 314 | 4,458 |
| 1939 | 91 | 154 | 130 | 56 | 49 | 18 | 18 | 18 | 124 | 101 | 41 | 189 | 990 |
| 1940 | 150 | 202 | 343 | 298 | 37 | 109 | 41 | 311 | 397 | 51 | 245 | 205 | 2,390 |
| 1941 | 210 | 526 | 392 | 355 | 84 | 263 | 411 | 311 | 397 | 166 | 239 | 248 | 3,601 |
| 1942 | 442 | 357 | 213 | 315 | 57 | 147 | 411 | 311 | 397 | 209 | 374 | 217 | 3,450 |
| 1943 | 599 | 367 | 518 | 76 | 37 | 217 | 65 | 311 | 397 | 59 | 177 | 263 | 3,087 |
| 1944 | 18 | 155 | 137 | 48 | 37 | 189 | 54 | 18 | 143 | 126 | 397 | 196 | 1,520 |
| 1945 | 177 | 371 | 215 | 56 | 37 | 111 | 409 | 129 | 170 | 175 | 397 | 293 | 2,540 |
| 1946 | 229 | 150 | 159 | 65 | 42 | 113 | 383 | 359 | 250 | 146 | 261 | 188 | 2,345 |
| 1947 | 174 | 144 | 119 | 69 | 45 | 127 | 37 | 18 | 146 | 166 | 237 | 200 | 1,483 |
| 1948 | 193 | 73 | 118 | 49 | 37 | 137 | 411 | 316 | 288 | 148 | 211 | 313 | 2,292 |
| 1949 | 159 | 154 | 128 | 41 | 37 | 106 | 106 | 18 | 152 | 101 | 154 | 107 | 1,264 |
| 1950 | 130 | 138 | 122 | 43 | 37 | 176 | 379 | 242 | 184 | 269 | 397 | 533 | 2,649 |
| 1951 | 527 | 302 | 283 | 64 | 37 | 107 | 388 | 311 | 274 | 29 | 397 | 178 | 2,897 |
| 1952 | 298 | 291 | 396 | 397 | 382 | 378 | 411 | 311 | 397 | 195 | 341 | 174 | 3,973 |
| 1953 | 266 | 165 | 142 | 48 | 37 | 109 | 294 | 311 | 397 | 183 | 260 | 251 | 2,463 |
| 1954 | 125 | 133 | 123 | 55 | 37 | 109 | 278 | 311 | 312 | 61 | 397 | 433 | 2,372 |
| 1955 | 183 | 129 | 93 | 43 | 37 | 18 | 150 | 18 | 180 | 133 | 312 | 414 | 1,710 |
| 1956 | 599 | 390 | 340 | 54 | 53 | 147 | 360 | 182 | 397 | 201 | 241 | 274 | 3,238 |
| 1957 | 162 | 137 | 145 | 47 | 37 | 109 | 411 | 411 | 220 | 74 | 397 | 166 | 2,316 |
| 1958 | 157 | 170 | 387 | 397 | 110 | 265 | 324 | 311 | 397 | 214 | 298 | 313 | 3,345 |
| 1959 | 134 | 199 | 139 | 63 | 18 | 115 | 367 | 149 | 247 | 117 | 139 | 159 | 1,847 |
| 1960 | 114 | 146 | 113 | 18 | 45 | 98 | 331 | 123 | 154 | 107 | 305 | 224 | 1,777 |
| 1961 | 170 | 131 | 115 | 36 | 18 | 98 | 33 | 18 | 157 | 100 | 188 | 209 | 1,274 |
| 1962 | 148 | 213 | 141 | 58 | 37 | 115 | 354 | 300 | 165 | 411 | 329 | 159 | 2,431 |

| SWP Exports from the Delta (TAF) | | | | | | | | | | | | | |
|----------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Year | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | TOTAL |
| 1963 | 151 | 160 | 125 | 205 | 37 | 115 | 318 | 311 | 397 | 256 | 397 | 342 | 2,813 |
| 1964 | 134 | 140 | 105 | 45 | 18 | 105 | 204 | 18 | 132 | 95 | 228 | 182 | 1,406 |
| 1965 | 338 | 255 | 158 | 382 | 37 | 128 | 173 | 311 | 397 | 167 | 397 | 453 | 3,196 |
| 1966 | 162 | 159 | 147 | 52 | 37 | 152 | 325 | 110 | 155 | 155 | 350 | 178 | 1,983 |
| 1967 | 193 | 156 | 285 | 397 | 94 | 397 | 411 | 311 | 397 | 228 | 397 | 382 | 3,650 |
| 1968 | 135 | 175 | 155 | 72 | 51 | 115 | 375 | 411 | 186 | 101 | 279 | 157 | 2,213 |
| 1969 | 599 | 216 | 259 | 258 | 260 | 397 | 396 | 18 | 397 | 252 | 370 | 229 | 3,651 |
| 1970 | 599 | 310 | 273 | 50 | 37 | 177 | 266 | 311 | 178 | 66 | 397 | 180 | 2,845 |
| 1971 | 158 | 136 | 124 | 48 | 37 | 105 | 271 | 311 | 397 | 172 | 191 | 168 | 2,119 |
| 1972 | 145 | 138 | 108 | 66 | 49 | 58 | 411 | 325 | 180 | 189 | 119 | 171 | 1,957 |
| 1973 | 175 | 197 | 228 | 54 | 45 | 109 | 191 | 311 | 373 | 149 | 397 | 187 | 2,415 |
| 1974 | 330 | 192 | 254 | 261 | 37 | 116 | 22 | 311 | 397 | 218 | 255 | 440 | 2,833 |
| 1975 | 190 | 284 | 267 | 53 | 37 | 159 | 369 | 311 | 397 | 292 | 316 | 263 | 2,938 |
| 1976 | 80 | 154 | 132 | 44 | 18 | 18 | 126 | 36 | 83 | 128 | 71 | 145 | 1,034 |
| 1977 | 49 | 84 | 36 | 18 | 18 | 2 | 18 | 18 | 169 | 18 | 106 | 201 | 739 |
| 1978 | 178 | 313 | 283 | 345 | 92 | 249 | 404 | 311 | 385 | 37 | 233 | 191 | 3,021 |
| 1979 | 182 | 332 | 266 | 54 | 52 | 219 | 410 | 84 | 179 | 169 | 380 | 111 | 2,439 |
| 1980 | 546 | 306 | 274 | 52 | 47 | 169 | 317 | 174 | 397 | 167 | 167 | 314 | 2,930 |
| 1981 | 130 | 137 | 151 | 53 | 37 | 110 | 96 | 18 | 146 | 161 | 397 | 166 | 1,603 |
| 1982 | 317 | 526 | 518 | 397 | 122 | 238 | 23 | 311 | 397 | 411 | 397 | 533 | 4,191 |
| 1983 | 599 | 468 | 251 | 261 | 255 | 350 | 340 | 311 | 397 | 411 | 397 | 418 | 4,460 |
| 1984 | 465 | 418 | 327 | 51 | 37 | 113 | 411 | 311 | 184 | 153 | 397 | 433 | 3,301 |
| 1985 | 174 | 153 | 135 | 78 | 58 | 195 | 52 | 18 | 211 | 149 | 304 | 378 | 1,905 |
| 1986 | 128 | 526 | 518 | 81 | 67 | 283 | 75 | 292 | 174 | 258 | 176 | 248 | 2,827 |
| 1987 | 18 | 134 | 127 | 18 | 40 | 18 | 18 | 18 | 100 | 56 | 101 | 141 | 790 |
| 1988 | 148 | 17 | 18 | 44 | 37 | 18 | 18 | 18 | 75 | 18 | 285 | 195 | 893 |
| 1989 | 225 | 80 | 111 | 52 | 37 | 98 | 387 | 18 | 188 | 138 | 110 | 48 | 1,492 |
| 1990 | 159 | 139 | 121 | 20 | 39 | 172 | 18 | 18 | 100 | 18 | 103 | 114 | 1,022 |
| 1991 | 37 | 17 | 155 | 36 | 18 | 18 | 18 | 18 | 26 | 105 | 75 | 109 | 633 |
| 1992 | 143 | 152 | 145 | 36 | 18 | 18 | 18 | 18 | 59 | 18 | 18 | 151 | 795 |
| 1993 | 184 | 202 | 164 | 37 | 45 | 161 | 355 | 311 | 397 | 189 | 193 | 297 | 2,534 |
| 1994 | 18 | 146 | 120 | 36 | 45 | 151 | 18 | 18 | 188 | 87 | 114 | 147 | 1,090 |
| 1995 | 185 | 163 | 518 | 373 | 383 | 397 | 298 | 311 | 397 | 213 | 286 | 166 | 3,692 |
| 1996 | 201 | 544 | 518 | 63 | 49 | 117 | 268 | 311 | 397 | 156 | 397 | 533 | 3,555 |
| 1997 | 599 | 526 | 320 | 42 | 37 | 226 | 175 | 271 | 133 | 126 | 384 | 269 | 3,109 |
| 1998 | 161 | 526 | 319 | 326 | 378 | 397 | 411 | 311 | 397 | 411 | 397 | 207 | 4,242 |
| 1999 | 459 | 516 | 303 | 48 | 37 | 109 | 374 | 311 | 327 | 68 | 233 | 268 | 3,054 |
| 2000 | 133 | 497 | 310 | 53 | 37 | 187 | 152 | 311 | 237 | 69 | 178 | 230 | 2,394 |
| 2001 | 190 | 141 | 133 | 66 | 18 | 18 | 18 | 18 | 166 | 18 | 232 | 178 | 1,198 |
| 2002 | 163 | 173 | 121 | 36 | 23 | 108 | 108 | 23 | 141 | 66 | 100 | 174 | 1,237 |
| 2003 | 145 | 131 | 118 | 50 | 37 | 97 | 411 | 311 | 397 | | | | 2,371 |
| Average | 215 | 233 | 204 | 110 | 64 | 149 | 226 | 189 | 243 | 143 | 252 | 244 | 2,271 |
| Minimum | 18 | 17 | 18 | 18 | 18 | 2 | 18 | 18 | 26 | 18 | 18 | 48 | 633 |
| Maximum | 599 | 544 | 518 | 397 | 411 | 397 | 411 | 411 | 397 | 411 | 397 | 533 | 4,460 |

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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 2019 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 | 51 | 0 | 51 | 67% | 1983 | 76 | 0% | 100% |
| 1923 | 40 | 11 | 51 | 67% | 1952 | 76 | 1% | 100% |
| 1924 | 10 | 6 | 16 | 21% | 1998 | 72 | 2% | 95% |
| 1925 | 22 | 1 | 23 | 30% | 1938 | 71 | 4% | 93% |
| 1926 | 18 | 2 | 21 | 27% | 1969 | 69 | 5% | 91% |
| 1927 | 43 | 2 | 45 | 60% | 1982 | 69 | 6% | 90% |
| 1928 | 41 | 7 | 48 | 63% | 1995 | 67 | 7% | 88% |
| 1929 | 16 | 6 | 22 | 30% | 1978 | 66 | 9% | 87% |
| 1930 | 15 | 2 | 17 | 22% | 1958 | 66 | 10% | 87% |
| 1931 | 22 | 2 | 23 | 30% | 1942 | 64 | 11% | 84% |
| 1932 | 9 | 0 | 10 | 13% | 1996 | 64 | 12% | 84% |
| 1933 | 27 | 1 | 28 | 37% | 1967 | 63 | 14% | 83% |
| 1934 | 8 | 1 | 9 | 12% | 1941 | 62 | 15% | 81% |
| 1935 | 47 | 1 | 48 | 63% | 1999 | 61 | 16% | 81% |
| 1936 | 44 | 0 | 44 | 58% | 1970 | 59 | 17% | 78% |
| 1937 | 42 | 2 | 44 | 58% | 1984 | 59 | 19% | 78% |
| 1938 | 66 | 5 | 71 | 93% | 1974 | 57 | 20% | 75% |
| 1939 | 17 | 15 | 32 | 42% | 1943 | 56 | 21% | 73% |
| 1940 | 45 | 1 | 46 | 60% | 2000 | 54 | 22% | 71% |
| 1941 | 61 | 0 | 62 | 81% | 1997 | 54 | 23% | 71% |
| 1942 | 57 | 7 | 64 | 84% | 1980 | 54 | 25% | 70% |
| 1943 | 47 | 9 | 56 | 73% | 1951 | 53 | 26% | 69% |
| 1944 | 16 | 8 | 24 | 31% | 1985 | 52 | 27% | 68% |
| 1945 | 48 | 2 | 50 | 66% | 1923 | 51 | 28% | 67% |
| 1946 | 33 | 9 | 42 | 55% | 1922 | 51 | 30% | 67% |
| 1947 | 33 | 4 | 38 | 49% | 1966 | 51 | 31% | 67% |
| 1948 | 37 | 0 | 37 | 49% | 1973 | 50 | 32% | 66% |
| 1949 | 14 | 5 | 19 | 25% | 1945 | 50 | 33% | 66% |
| 1950 | 39 | 2 | 40 | 53% | 1963 | 49 | 35% | 65% |
| 1951 | 50 | 3 | 53 | 69% | 1975 | 49 | 36% | 65% |
| 1952 | 66 | 10 | 76 | 100% | 1935 | 48 | 37% | 63% |
| 1953 | 33 | 11 | 44 | 58% | 1928 | 48 | 38% | 63% |
| 1954 | 41 | 4 | 45 | 60% | 1956 | 48 | 40% | 63% |
| 1955 | 22 | 6 | 28 | 36% | 1957 | 48 | 41% | 62% |
| 1956 | 47 | 1 | 48 | 63% | 1989 | 47 | 42% | 61% |
| 1957 | 39 | 8 | 48 | 62% | 1940 | 46 | 43% | 60% |
| 1958 | 60 | 6 | 66 | 87% | 1927 | 45 | 44% | 60% |
| 1959 | 32 | 10 | 42 | 55% | 1954 | 45 | 46% | 60% |
| 1960 | 21 | 0 | 21 | 28% | 1993 | 45 | 47% | 59% |
| 1961 | 29 | 2 | 31 | 41% | 1936 | 44 | 48% | 58% |
| 1962 | 35 | 4 | 39 | 51% | 1953 | 44 | 49% | 58% |
| 1963 | 45 | 5 | 49 | 65% | 1937 | 44 | 51% | 58% |
| 1964 | 31 | 7 | 38 | 49% | 1965 | 43 | 52% | 57% |
| 1965 | 39 | 4 | 43 | 57% | 1968 | 43 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 48 | 3 | 51 | 67% | 1959 | 42 | 54% | 55% |
| 1967 | 59 | 3 | 63 | 83% | 1946 | 42 | 56% | 55% |
| 1968 | 29 | 14 | 43 | 56% | 1986 | 42 | 57% | 55% |
| 1969 | 66 | 3 | 69 | 91% | 1950 | 40 | 58% | 53% |
| 1970 | 48 | 12 | 59 | 78% | 1962 | 39 | 59% | 51% |
| 1971 | 29 | 8 | 37 | 48% | 1964 | 38 | 60% | 49% |
| 1972 | 26 | 4 | 30 | 40% | 1947 | 38 | 62% | 49% |
| 1973 | 47 | 3 | 50 | 66% | 1948 | 37 | 63% | 49% |
| 1974 | 49 | 8 | 57 | 75% | 1971 | 37 | 64% | 48% |
| 1975 | 40 | 9 | 49 | 65% | 1981 | 35 | 65% | 46% |
| 1976 | 24 | 6 | 30 | 40% | 1979 | 34 | 67% | 45% |
| 1977 | 6 | 3 | 9 | 12% | 2003 | 33 | 68% | 43% |
| 1978 | 66 | 1 | 66 | 87% | 1939 | 32 | 69% | 42% |
| 1979 | 34 | 0 | 34 | 45% | 2002 | 32 | 70% | 42% |
| 1980 | 50 | 4 | 54 | 70% | 1961 | 31 | 72% | 41% |
| 1981 | 25 | 10 | 35 | 46% | 1972 | 30 | 73% | 40% |
| 1982 | 66 | 3 | 69 | 90% | 1976 | 30 | 74% | 40% |
| 1983 | 66 | 10 | 76 | 100% | 1933 | 28 | 75% | 37% |
| 1984 | 50 | 10 | 59 | 78% | 1955 | 28 | 77% | 36% |
| 1985 | 45 | 7 | 52 | 68% | 1944 | 24 | 78% | 31% |
| 1986 | 41 | 0 | 42 | 55% | 1931 | 23 | 79% | 30% |
| 1987 | 15 | 6 | 22 | 28% | 1925 | 23 | 80% | 30% |
| 1988 | 7 | 2 | 9 | 11% | 1929 | 22 | 81% | 30% |
| 1989 | 46 | 1 | 47 | 61% | 1987 | 22 | 83% | 28% |
| 1990 | 9 | 0 | 9 | 12% | 1960 | 21 | 84% | 28% |
| 1991 | 14 | 1 | 16 | 20% | 1926 | 21 | 85% | 27% |
| 1992 | 13 | 2 | 14 | 19% | 1994 | 19 | 86% | 25% |
| 1993 | 43 | 1 | 45 | 59% | 1949 | 19 | 88% | 25% |
| 1994 | 13 | 7 | 19 | 25% | 1930 | 17 | 89% | 22% |
| 1995 | 66 | 1 | 67 | 88% | 1924 | 16 | 90% | 21% |
| 1996 | 58 | 6 | 64 | 84% | 1991 | 16 | 91% | 20% |
| 1997 | 42 | 12 | 54 | 71% | 1992 | 14 | 93% | 19% |
| 1998 | 66 | 6 | 72 | 95% | 2001 | 12 | 94% | 16% |
| 1999 | 49 | 13 | 61 | 81% | 1932 | 10 | 95% | 13% |
| 2000 | 45 | 9 | 54 | 71% | 1934 | 9 | 96% | 12% |
| 2001 | 12 | 0 | 12 | 16% | 1990 | 9 | 98% | 12% |
| 2002 | 31 | 1 | 32 | 42% | 1977 | 9 | 99% | 12% |
| 2003 | 32 | 0 | 33 | 43% | 1988 | 9 | 100% | 11% |
| Average | 37 | 5 | 42 | 55% | | 42 | | 55% |
| Maximum | 66 | 15 | 76 | 100% | | 76 | | 100% |
| Minimum | 6 | 0 | 9 | 11% | | 9 | | 11% |

Table B-7. Alameda County WD: Future Conditions

| SWP Table A Deliveries for 2019 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 | 62% | 1952 | 37 | 0% | 100% |
| 1923 | 18 | 9 | 27 | 74% | 1998 | 36 | 1% | 96% |
| 1924 | 5 | 6 | 11 | 29% | 1983 | 35 | 2% | 94% |
| 1925 | 11 | 1 | 11 | 31% | 1938 | 35 | 4% | 94% |
| 1926 | 9 | 2 | 11 | 29% | 1958 | 33 | 5% | 89% |
| 1927 | 20 | 2 | 21 | 57% | 1999 | 33 | 6% | 88% |
| 1928 | 19 | 7 | 25 | 68% | 1969 | 32 | 7% | 86% |
| 1929 | 8 | 6 | 14 | 38% | 1982 | 32 | 9% | 86% |
| 1930 | 7 | 1 | 9 | 23% | 1995 | 31 | 10% | 83% |
| 1931 | 12 | 1 | 13 | 35% | 1978 | 30 | 11% | 81% |
| 1932 | 5 | 0 | 5 | 13% | 1984 | 30 | 12% | 80% |
| 1933 | 13 | 1 | 14 | 38% | 1974 | 30 | 14% | 79% |
| 1934 | 4 | 1 | 5 | 13% | 1942 | 29 | 15% | 79% |
| 1935 | 21 | 1 | 22 | 59% | 1996 | 29 | 16% | 78% |
| 1936 | 20 | 0 | 20 | 54% | 2000 | 29 | 17% | 77% |
| 1937 | 19 | 1 | 20 | 54% | 1967 | 28 | 19% | 77% |
| 1938 | 30 | 5 | 35 | 94% | 1941 | 28 | 20% | 74% |
| 1939 | 8 | 12 | 21 | 56% | 1970 | 28 | 21% | 74% |
| 1940 | 20 | 0 | 21 | 55% | 1923 | 27 | 22% | 74% |
| 1941 | 28 | 0 | 28 | 74% | 1997 | 26 | 23% | 71% |
| 1942 | 26 | 4 | 29 | 79% | 1975 | 26 | 25% | 71% |
| 1943 | 21 | 5 | 26 | 69% | 1985 | 26 | 26% | 70% |
| 1944 | 8 | 8 | 15 | 41% | 1943 | 26 | 27% | 69% |
| 1945 | 22 | 1 | 23 | 62% | 1968 | 26 | 28% | 69% |
| 1946 | 16 | 8 | 24 | 65% | 1980 | 25 | 30% | 68% |
| 1947 | 16 | 3 | 20 | 53% | 1957 | 25 | 31% | 68% |
| 1948 | 18 | 0 | 18 | 49% | 1951 | 25 | 32% | 68% |
| 1949 | 7 | 4 | 11 | 29% | 1928 | 25 | 33% | 68% |
| 1950 | 17 | 1 | 19 | 50% | 1966 | 24 | 35% | 65% |
| 1951 | 23 | 3 | 25 | 68% | 1946 | 24 | 36% | 65% |
| 1952 | 30 | 8 | 37 | 100% | 1963 | 24 | 37% | 64% |
| 1953 | 16 | 6 | 22 | 59% | 1973 | 23 | 38% | 63% |
| 1954 | 18 | 3 | 22 | 59% | 2003 | 23 | 40% | 62% |
| 1955 | 11 | 6 | 17 | 45% | 1945 | 23 | 41% | 62% |
| 1956 | 21 | 1 | 22 | 59% | 1922 | 23 | 42% | 62% |
| 1957 | 18 | 8 | 25 | 68% | 1935 | 22 | 43% | 59% |
| 1958 | 27 | 6 | 33 | 89% | 1954 | 22 | 44% | 59% |
| 1959 | 16 | 5 | 21 | 56% | 1956 | 22 | 46% | 59% |
| 1960 | 10 | 0 | 10 | 28% | 1953 | 22 | 47% | 59% |
| 1961 | 14 | 2 | 16 | 43% | 1964 | 22 | 48% | 58% |
| 1962 | 17 | 3 | 20 | 54% | 1989 | 21 | 49% | 57% |
| 1963 | 20 | 4 | 24 | 64% | 1927 | 21 | 51% | 57% |
| 1964 | 15 | 7 | 22 | 58% | 1981 | 21 | 52% | 56% |
| 1965 | 18 | 3 | 21 | 56% | 1939 | 21 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 22 | 3 | 24 | 65% | 1965 | 21 | 54% | 56% |
| 1967 | 27 | 2 | 28 | 77% | 1959 | 21 | 56% | 56% |
| 1968 | 14 | 11 | 26 | 69% | 1993 | 21 | 57% | 55% |
| 1969 | 30 | 3 | 32 | 86% | 1940 | 21 | 58% | 55% |
| 1970 | 22 | 6 | 28 | 74% | 1962 | 20 | 59% | 54% |
| 1971 | 14 | 4 | 18 | 49% | 1936 | 20 | 60% | 54% |
| 1972 | 13 | 3 | 16 | 43% | 1937 | 20 | 62% | 54% |
| 1973 | 21 | 2 | 23 | 63% | 1947 | 20 | 63% | 53% |
| 1974 | 22 | 8 | 30 | 79% | 1950 | 19 | 64% | 50% |
| 1975 | 18 | 8 | 26 | 71% | 1986 | 19 | 65% | 50% |
| 1976 | 12 | 6 | 18 | 48% | 1948 | 18 | 67% | 49% |
| 1977 | 3 | 2 | 5 | 14% | 1971 | 18 | 68% | 49% |
| 1978 | 30 | 1 | 30 | 81% | 1976 | 18 | 69% | 48% |
| 1979 | 16 | 0 | 17 | 44% | 1955 | 17 | 70% | 45% |
| 1980 | 22 | 3 | 25 | 68% | 1979 | 17 | 72% | 44% |
| 1981 | 12 | 9 | 21 | 56% | 2002 | 16 | 73% | 43% |
| 1982 | 30 | 2 | 32 | 86% | 1972 | 16 | 74% | 43% |
| 1983 | 30 | 5 | 35 | 94% | 1961 | 16 | 75% | 43% |
| 1984 | 22 | 7 | 30 | 80% | 1944 | 15 | 77% | 41% |
| 1985 | 20 | 6 | 26 | 70% | 1929 | 14 | 78% | 38% |
| 1986 | 19 | 0 | 19 | 50% | 1933 | 14 | 79% | 38% |
| 1987 | 7 | 6 | 14 | 37% | 1987 | 14 | 80% | 37% |
| 1988 | 3 | 1 | 5 | 13% | 1931 | 13 | 81% | 35% |
| 1989 | 21 | 0 | 21 | 57% | 1994 | 13 | 83% | 34% |
| 1990 | 4 | 0 | 5 | 12% | 1925 | 11 | 84% | 31% |
| 1991 | 7 | 1 | 8 | 21% | 1926 | 11 | 85% | 29% |
| 1992 | 6 | 1 | 7 | 20% | 1924 | 11 | 86% | 29% |
| 1993 | 19 | 1 | 21 | 55% | 1949 | 11 | 88% | 29% |
| 1994 | 6 | 6 | 13 | 34% | 1960 | 10 | 89% | 28% |
| 1995 | 30 | 1 | 31 | 83% | 1930 | 9 | 90% | 23% |
| 1996 | 26 | 3 | 29 | 78% | 1991 | 8 | 91% | 21% |
| 1997 | 19 | 8 | 26 | 71% | 1992 | 7 | 93% | 20% |
| 1998 | 30 | 6 | 36 | 96% | 2001 | 6 | 94% | 16% |
| 1999 | 22 | 11 | 33 | 88% | 1977 | 5 | 95% | 14% |
| 2000 | 20 | 8 | 29 | 77% | 1988 | 5 | 96% | 13% |
| 2001 | 6 | 0 | 6 | 16% | 1932 | 5 | 98% | 13% |
| 2002 | 15 | 1 | 16 | 43% | 1934 | 5 | 99% | 13% |
| 2003 | 23 | 0 | 23 | 62% | 1990 | 5 | 100% | 12% |
| Average | 17 | 4 | 21 | 56% | | 21 | | 56% |
| Maximum | 30 | 12 | 37 | 100% | | 37 | | 100% |
| Minimum | 3 | 0 | 5 | 12% | | 5 | | 12% |

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

| SWP Table A Deliveries for 2019 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 | 53% | 1999 | 126 | 0% | 100% |
| 1923 | 70 | 44 | 114 | 90% | 1923 | 114 | 1% | 90% |
| 1924 | 18 | 13 | 31 | 24% | 1968 | 111 | 2% | 88% |
| 1925 | 41 | 1 | 42 | 33% | 1952 | 108 | 4% | 85% |
| 1926 | 35 | 2 | 37 | 29% | 1984 | 104 | 5% | 82% |
| 1927 | 76 | 2 | 78 | 62% | 1975 | 102 | 6% | 80% |
| 1928 | 72 | 14 | 86 | 68% | 1983 | 100 | 7% | 79% |
| 1929 | 31 | 13 | 44 | 34% | 1997 | 99 | 9% | 78% |
| 1930 | 28 | 2 | 30 | 24% | 2000 | 98 | 10% | 77% |
| 1931 | 32 | 1 | 33 | 26% | 1974 | 97 | 11% | 76% |
| 1932 | 17 | 1 | 18 | 14% | 1939 | 96 | 12% | 76% |
| 1933 | 50 | 1 | 51 | 40% | 1970 | 95 | 14% | 75% |
| 1934 | 15 | 3 | 18 | 14% | 1998 | 95 | 15% | 75% |
| 1935 | 75 | 1 | 76 | 60% | 1938 | 93 | 16% | 73% |
| 1936 | 77 | 1 | 78 | 62% | 1957 | 93 | 17% | 73% |
| 1937 | 73 | 4 | 77 | 61% | 1943 | 90 | 19% | 71% |
| 1938 | 81 | 11 | 93 | 73% | 1946 | 88 | 20% | 70% |
| 1939 | 32 | 63 | 96 | 76% | 1958 | 87 | 21% | 69% |
| 1940 | 73 | 1 | 74 | 59% | 1969 | 87 | 22% | 68% |
| 1941 | 76 | 1 | 76 | 60% | 1928 | 86 | 23% | 68% |
| 1942 | 71 | 12 | 83 | 66% | 1963 | 85 | 25% | 67% |
| 1943 | 75 | 16 | 90 | 71% | 1982 | 85 | 26% | 67% |
| 1944 | 30 | 25 | 54 | 43% | 1981 | 84 | 27% | 66% |
| 1945 | 73 | 2 | 75 | 59% | 1942 | 83 | 28% | 66% |
| 1946 | 60 | 29 | 88 | 70% | 1995 | 83 | 30% | 65% |
| 1947 | 61 | 7 | 67 | 53% | 1978 | 82 | 31% | 65% |
| 1948 | 67 | 0 | 68 | 54% | 1996 | 82 | 32% | 65% |
| 1949 | 26 | 8 | 34 | 27% | 1953 | 80 | 33% | 63% |
| 1950 | 68 | 2 | 70 | 55% | 1967 | 80 | 35% | 63% |
| 1951 | 69 | 6 | 75 | 59% | 1973 | 79 | 36% | 63% |
| 1952 | 81 | 26 | 108 | 85% | 1966 | 79 | 37% | 63% |
| 1953 | 60 | 20 | 80 | 63% | 1954 | 79 | 38% | 62% |
| 1954 | 72 | 7 | 79 | 62% | 1985 | 79 | 40% | 62% |
| 1955 | 41 | 13 | 54 | 42% | 1927 | 78 | 41% | 62% |
| 1956 | 75 | 1 | 76 | 60% | 1936 | 78 | 42% | 62% |
| 1957 | 69 | 23 | 93 | 73% | 1937 | 77 | 43% | 61% |
| 1958 | 75 | 12 | 87 | 69% | 1993 | 77 | 44% | 61% |
| 1959 | 59 | 17 | 76 | 60% | 1959 | 76 | 46% | 60% |
| 1960 | 39 | 1 | 40 | 32% | 1941 | 76 | 47% | 60% |
| 1961 | 52 | 2 | 55 | 43% | 1956 | 76 | 48% | 60% |
| 1962 | 65 | 6 | 70 | 56% | 1980 | 76 | 49% | 60% |
| 1963 | 78 | 7 | 85 | 67% | 1935 | 76 | 51% | 60% |
| 1964 | 56 | 15 | 71 | 56% | 1965 | 75 | 52% | 59% |
| 1965 | 69 | 6 | 75 | 59% | 1951 | 75 | 53% | 59% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 74 | 6 | 79 | 63% | 1945 | 75 | 54% | 59% |
| 1967 | 74 | 6 | 80 | 63% | 1940 | 74 | 56% | 59% |
| 1968 | 54 | 57 | 111 | 88% | 1986 | 73 | 57% | 58% |
| 1969 | 81 | 5 | 87 | 68% | 1964 | 71 | 58% | 56% |
| 1970 | 74 | 21 | 95 | 75% | 1962 | 70 | 59% | 56% |
| 1971 | 53 | 14 | 67 | 53% | 1950 | 70 | 60% | 55% |
| 1972 | 48 | 6 | 54 | 43% | 1948 | 68 | 62% | 54% |
| 1973 | 75 | 4 | 79 | 63% | 1922 | 67 | 63% | 53% |
| 1974 | 72 | 24 | 97 | 76% | 1947 | 67 | 64% | 53% |
| 1975 | 70 | 32 | 102 | 80% | 1971 | 67 | 65% | 53% |
| 1976 | 46 | 13 | 58 | 46% | 1979 | 62 | 67% | 49% |
| 1977 | 12 | 3 | 15 | 12% | 2003 | 58 | 68% | 46% |
| 1978 | 81 | 1 | 82 | 65% | 1976 | 58 | 69% | 46% |
| 1979 | 62 | 1 | 62 | 49% | 2002 | 57 | 70% | 45% |
| 1980 | 70 | 6 | 76 | 60% | 1961 | 55 | 72% | 43% |
| 1981 | 46 | 37 | 84 | 66% | 1972 | 54 | 73% | 43% |
| 1982 | 81 | 3 | 85 | 67% | 1944 | 54 | 74% | 43% |
| 1983 | 81 | 19 | 100 | 79% | 1955 | 54 | 75% | 42% |
| 1984 | 70 | 34 | 104 | 82% | 1933 | 51 | 77% | 40% |
| 1985 | 53 | 25 | 79 | 62% | 1989 | 47 | 78% | 37% |
| 1986 | 72 | 1 | 73 | 58% | 1929 | 44 | 79% | 34% |
| 1987 | 29 | 13 | 42 | 33% | 1925 | 42 | 80% | 33% |
| 1988 | 13 | 2 | 15 | 12% | 1987 | 42 | 81% | 33% |
| 1989 | 46 | 1 | 47 | 37% | 1960 | 40 | 83% | 32% |
| 1990 | 17 | 1 | 18 | 14% | 1994 | 38 | 84% | 30% |
| 1991 | 27 | 1 | 28 | 22% | 1926 | 37 | 85% | 29% |
| 1992 | 24 | 2 | 25 | 20% | 1949 | 34 | 86% | 27% |
| 1993 | 76 | 1 | 77 | 61% | 1931 | 33 | 88% | 26% |
| 1994 | 24 | 14 | 38 | 30% | 1924 | 31 | 89% | 24% |
| 1995 | 81 | 1 | 83 | 65% | 1930 | 30 | 90% | 24% |
| 1996 | 72 | 10 | 82 | 65% | 1991 | 28 | 91% | 22% |
| 1997 | 73 | 26 | 99 | 78% | 1992 | 25 | 93% | 20% |
| 1998 | 81 | 13 | 95 | 75% | 2001 | 22 | 94% | 18% |
| 1999 | 72 | 54 | 126 | 100% | 1932 | 18 | 95% | 14% |
| 2000 | 66 | 32 | 98 | 77% | 1990 | 18 | 96% | 14% |
| 2001 | 22 | 1 | 22 | 18% | 1934 | 18 | 98% | 14% |
| 2002 | 56 | 1 | 57 | 45% | 1988 | 15 | 99% | 12% |
| 2003 | 58 | 0 | 58 | 46% | 1977 | 15 | 100% | 12% |
| Average | 58 | 11 | 69 | 54% | | 69 | | 54% |
| Maximum | 81 | 63 | 126 | 100% | | 126 | | 100% |
| Minimum | 12 | 0 | 15 | 12% | | 15 | | 12% |

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

| SWP Table A Deliveries for 2019 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 | 40 | 0 | 40 | 47% | 1999 | 85 | 0% | 100% |
| 1923 | 44 | 33 | 77 | 91% | 1923 | 77 | 1% | 91% |
| 1924 | 12 | 11 | 23 | 27% | 2000 | 73 | 2% | 86% |
| 1925 | 27 | 0 | 28 | 33% | 1968 | 72 | 4% | 85% |
| 1926 | 23 | 1 | 24 | 29% | 1939 | 70 | 5% | 82% |
| 1927 | 48 | 1 | 49 | 57% | 1985 | 69 | 6% | 81% |
| 1928 | 45 | 11 | 57 | 67% | 1975 | 68 | 7% | 81% |
| 1929 | 20 | 11 | 31 | 37% | 1984 | 66 | 9% | 78% |
| 1930 | 19 | 1 | 20 | 23% | 1974 | 63 | 10% | 74% |
| 1931 | 30 | 1 | 31 | 37% | 1952 | 62 | 11% | 73% |
| 1932 | 12 | 0 | 12 | 14% | 1957 | 62 | 12% | 73% |
| 1933 | 33 | 0 | 33 | 39% | 1997 | 61 | 14% | 72% |
| 1934 | 10 | 2 | 12 | 14% | 1981 | 60 | 15% | 70% |
| 1935 | 46 | 0 | 46 | 55% | 1998 | 58 | 16% | 68% |
| 1936 | 48 | 0 | 49 | 57% | 1983 | 58 | 17% | 68% |
| 1937 | 46 | 2 | 48 | 57% | 1970 | 57 | 19% | 67% |
| 1938 | 47 | 9 | 56 | 66% | 1928 | 57 | 20% | 67% |
| 1939 | 22 | 48 | 70 | 82% | 1938 | 56 | 21% | 66% |
| 1940 | 48 | 0 | 48 | 56% | 1946 | 56 | 22% | 65% |
| 1941 | 44 | 0 | 44 | 52% | 1943 | 55 | 23% | 65% |
| 1942 | 41 | 7 | 48 | 57% | 1958 | 54 | 25% | 63% |
| 1943 | 46 | 9 | 55 | 65% | 1963 | 53 | 26% | 63% |
| 1944 | 20 | 19 | 39 | 46% | 1953 | 51 | 27% | 60% |
| 1945 | 45 | 1 | 45 | 53% | 1954 | 50 | 28% | 58% |
| 1946 | 39 | 16 | 56 | 65% | 1966 | 49 | 30% | 58% |
| 1947 | 40 | 4 | 44 | 52% | 1964 | 49 | 31% | 58% |
| 1948 | 44 | 0 | 45 | 53% | 1973 | 49 | 32% | 58% |
| 1949 | 17 | 5 | 22 | 26% | 1969 | 49 | 33% | 58% |
| 1950 | 43 | 1 | 43 | 51% | 1959 | 49 | 35% | 57% |
| 1951 | 41 | 5 | 46 | 54% | 1936 | 49 | 36% | 57% |
| 1952 | 47 | 15 | 62 | 73% | 1927 | 49 | 37% | 57% |
| 1953 | 40 | 11 | 51 | 60% | 1937 | 48 | 38% | 57% |
| 1954 | 45 | 4 | 50 | 58% | 1993 | 48 | 40% | 57% |
| 1955 | 27 | 11 | 38 | 45% | 1942 | 48 | 41% | 57% |
| 1956 | 46 | 0 | 47 | 55% | 1940 | 48 | 42% | 56% |
| 1957 | 43 | 18 | 62 | 73% | 1996 | 47 | 43% | 56% |
| 1958 | 43 | 10 | 54 | 63% | 1982 | 47 | 44% | 56% |
| 1959 | 39 | 10 | 49 | 57% | 1978 | 47 | 46% | 56% |
| 1960 | 26 | 0 | 27 | 32% | 1995 | 47 | 47% | 56% |
| 1961 | 34 | 1 | 36 | 42% | 1965 | 47 | 48% | 56% |
| 1962 | 42 | 4 | 46 | 55% | 1956 | 47 | 49% | 55% |
| 1963 | 49 | 5 | 53 | 63% | 1989 | 47 | 51% | 55% |
| 1964 | 37 | 12 | 49 | 58% | 1935 | 46 | 52% | 55% |
| 1965 | 43 | 4 | 47 | 56% | 1962 | 46 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 45 | 5 | 49 | 58% | 1967 | 46 | 54% | 54% |
| 1967 | 43 | 3 | 46 | 54% | 1980 | 46 | 56% | 54% |
| 1968 | 35 | 37 | 72 | 85% | 1951 | 46 | 57% | 54% |
| 1969 | 45 | 3 | 49 | 58% | 1986 | 46 | 58% | 54% |
| 1970 | 45 | 12 | 57 | 67% | 1945 | 45 | 59% | 53% |
| 1971 | 35 | 8 | 43 | 50% | 1948 | 45 | 60% | 53% |
| 1972 | 32 | 4 | 36 | 42% | 1947 | 44 | 62% | 52% |
| 1973 | 46 | 3 | 49 | 58% | 2003 | 44 | 63% | 52% |
| 1974 | 44 | 19 | 63 | 74% | 1941 | 44 | 64% | 52% |
| 1975 | 44 | 25 | 68 | 81% | 1950 | 43 | 65% | 51% |
| 1976 | 30 | 10 | 41 | 48% | 1971 | 43 | 67% | 50% |
| 1977 | 8 | 1 | 9 | 11% | 1976 | 41 | 68% | 48% |
| 1978 | 47 | 0 | 47 | 56% | 1979 | 41 | 69% | 48% |
| 1979 | 40 | 0 | 41 | 48% | 1922 | 40 | 70% | 47% |
| 1980 | 42 | 4 | 46 | 54% | 1944 | 39 | 72% | 46% |
| 1981 | 31 | 29 | 60 | 70% | 1955 | 38 | 73% | 45% |
| 1982 | 46 | 2 | 47 | 56% | 2002 | 36 | 74% | 43% |
| 1983 | 47 | 11 | 58 | 68% | 1972 | 36 | 75% | 42% |
| 1984 | 42 | 25 | 66 | 78% | 1961 | 36 | 77% | 42% |
| 1985 | 49 | 19 | 69 | 81% | 1933 | 33 | 78% | 39% |
| 1986 | 45 | 0 | 46 | 54% | 1929 | 31 | 79% | 37% |
| 1987 | 19 | 11 | 30 | 35% | 1931 | 31 | 80% | 37% |
| 1988 | 9 | 1 | 10 | 11% | 1987 | 30 | 81% | 35% |
| 1989 | 46 | 0 | 47 | 55% | 1925 | 28 | 83% | 33% |
| 1990 | 11 | 0 | 12 | 14% | 1994 | 27 | 84% | 32% |
| 1991 | 18 | 0 | 19 | 22% | 1960 | 27 | 85% | 32% |
| 1992 | 16 | 1 | 17 | 20% | 1926 | 24 | 86% | 29% |
| 1993 | 47 | 1 | 48 | 57% | 1924 | 23 | 88% | 27% |
| 1994 | 16 | 11 | 27 | 32% | 1949 | 22 | 89% | 26% |
| 1995 | 46 | 1 | 47 | 56% | 1930 | 20 | 90% | 23% |
| 1996 | 42 | 6 | 47 | 56% | 1991 | 19 | 91% | 22% |
| 1997 | 46 | 15 | 61 | 72% | 1992 | 17 | 93% | 20% |
| 1998 | 47 | 11 | 58 | 68% | 2001 | 15 | 94% | 18% |
| 1999 | 44 | 41 | 85 | 100% | 1990 | 12 | 95% | 14% |
| 2000 | 48 | 25 | 73 | 86% | 1934 | 12 | 96% | 14% |
| 2001 | 15 | 0 | 15 | 18% | 1932 | 12 | 98% | 14% |
| 2002 | 36 | 1 | 36 | 43% | 1988 | 10 | 99% | 11% |
| 2003 | 44 | 0 | 44 | 52% | 1977 | 9 | 100% | 11% |
| Average | 37 | 8 | 44 | 52% | | 44 | | 52% |
| Maximum | 49 | 48 | 85 | 100% | | 85 | | 100% |
| Minimum | 8 | 0 | 9 | 11% | | 9 | | 11% |

Table B-10. Coachella Valley WD: Future Conditions

| SWP Table A Deliveries for 2019 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 | 60 | 0 | 60 | 47% | 1999 | 126 | 0% | 100% |
| 1923 | 70 | 47 | 116 | 92% | 1985 | 118 | 1% | 93% |
| 1924 | 19 | 9 | 28 | 22% | 1923 | 116 | 2% | 92% |
| 1925 | 41 | 0 | 41 | 33% | 1968 | 115 | 4% | 91% |
| 1926 | 35 | 0 | 35 | 28% | 2000 | 109 | 5% | 86% |
| 1927 | 76 | 0 | 76 | 60% | 1939 | 102 | 6% | 81% |
| 1928 | 72 | 10 | 82 | 65% | 1975 | 101 | 7% | 81% |
| 1929 | 31 | 10 | 40 | 32% | 1997 | 98 | 9% | 78% |
| 1930 | 28 | 0 | 28 | 22% | 1952 | 94 | 10% | 75% |
| 1931 | 46 | 0 | 46 | 36% | 1957 | 90 | 11% | 72% |
| 1932 | 18 | 0 | 18 | 14% | 1974 | 90 | 12% | 72% |
| 1933 | 49 | 0 | 49 | 39% | 1970 | 90 | 14% | 71% |
| 1934 | 15 | 2 | 18 | 14% | 1984 | 88 | 15% | 70% |
| 1935 | 72 | 0 | 72 | 57% | 1983 | 87 | 16% | 69% |
| 1936 | 77 | 0 | 77 | 61% | 1943 | 87 | 17% | 69% |
| 1937 | 72 | 4 | 77 | 61% | 1946 | 86 | 19% | 68% |
| 1938 | 69 | 8 | 77 | 61% | 1981 | 85 | 20% | 68% |
| 1939 | 33 | 69 | 102 | 81% | 1963 | 83 | 21% | 66% |
| 1940 | 77 | 0 | 77 | 61% | 1928 | 82 | 22% | 65% |
| 1941 | 64 | 0 | 65 | 52% | 1998 | 79 | 23% | 63% |
| 1942 | 60 | 12 | 72 | 57% | 1953 | 78 | 25% | 62% |
| 1943 | 72 | 15 | 87 | 69% | 1936 | 77 | 26% | 61% |
| 1944 | 30 | 23 | 53 | 42% | 1938 | 77 | 27% | 61% |
| 1945 | 69 | 0 | 69 | 55% | 1954 | 77 | 28% | 61% |
| 1946 | 58 | 28 | 86 | 68% | 1937 | 77 | 30% | 61% |
| 1947 | 59 | 5 | 64 | 51% | 1940 | 77 | 31% | 61% |
| 1948 | 66 | 0 | 66 | 53% | 1927 | 76 | 32% | 60% |
| 1949 | 26 | 6 | 32 | 26% | 1993 | 75 | 33% | 60% |
| 1950 | 68 | 0 | 68 | 54% | 1973 | 75 | 35% | 60% |
| 1951 | 63 | 4 | 67 | 53% | 1959 | 74 | 36% | 59% |
| 1952 | 69 | 25 | 94 | 75% | 1966 | 74 | 37% | 58% |
| 1953 | 59 | 19 | 78 | 62% | 2003 | 73 | 38% | 58% |
| 1954 | 72 | 5 | 77 | 61% | 1965 | 73 | 40% | 58% |
| 1955 | 41 | 9 | 51 | 40% | 1969 | 73 | 41% | 58% |
| 1956 | 73 | 0 | 73 | 58% | 1958 | 73 | 42% | 58% |
| 1957 | 69 | 22 | 90 | 72% | 1956 | 73 | 43% | 58% |
| 1958 | 63 | 9 | 73 | 58% | 1986 | 72 | 44% | 58% |
| 1959 | 58 | 16 | 74 | 59% | 1942 | 72 | 46% | 57% |
| 1960 | 40 | 1 | 41 | 32% | 1935 | 72 | 47% | 57% |
| 1961 | 51 | 0 | 51 | 41% | 1996 | 71 | 48% | 56% |
| 1962 | 63 | 5 | 68 | 54% | 1982 | 70 | 49% | 55% |
| 1963 | 77 | 6 | 83 | 66% | 1978 | 69 | 51% | 55% |
| 1964 | 55 | 11 | 66 | 52% | 1995 | 69 | 52% | 55% |
| 1965 | 68 | 5 | 73 | 58% | 1945 | 69 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 69 | 4 | 74 | 58% | 1980 | 69 | 54% | 54% |
| 1967 | 63 | 6 | 68 | 54% | 1967 | 68 | 56% | 54% |
| 1968 | 52 | 62 | 115 | 91% | 1950 | 68 | 57% | 54% |
| 1969 | 69 | 4 | 73 | 58% | 1962 | 68 | 58% | 54% |
| 1970 | 70 | 20 | 90 | 71% | 1951 | 67 | 59% | 53% |
| 1971 | 52 | 13 | 65 | 51% | 1948 | 66 | 60% | 53% |
| 1972 | 48 | 5 | 52 | 41% | 1964 | 66 | 62% | 52% |
| 1973 | 72 | 3 | 75 | 60% | 1941 | 65 | 63% | 52% |
| 1974 | 67 | 23 | 90 | 72% | 1971 | 65 | 64% | 51% |
| 1975 | 70 | 32 | 101 | 81% | 1947 | 64 | 65% | 51% |
| 1976 | 46 | 9 | 55 | 44% | 1989 | 61 | 67% | 48% |
| 1977 | 12 | 0 | 12 | 10% | 1979 | 60 | 68% | 48% |
| 1978 | 69 | 0 | 69 | 55% | 1922 | 60 | 69% | 47% |
| 1979 | 60 | 0 | 60 | 48% | 1976 | 55 | 70% | 44% |
| 1980 | 64 | 5 | 69 | 54% | 2002 | 54 | 72% | 43% |
| 1981 | 47 | 39 | 85 | 68% | 1944 | 53 | 73% | 42% |
| 1982 | 69 | 1 | 70 | 55% | 1972 | 52 | 74% | 41% |
| 1983 | 69 | 18 | 87 | 69% | 1961 | 51 | 75% | 41% |
| 1984 | 63 | 25 | 88 | 70% | 1955 | 51 | 77% | 40% |
| 1985 | 78 | 40 | 118 | 93% | 1933 | 49 | 78% | 39% |
| 1986 | 72 | 0 | 72 | 58% | 1931 | 46 | 79% | 36% |
| 1987 | 29 | 10 | 39 | 31% | 1925 | 41 | 80% | 33% |
| 1988 | 13 | 0 | 13 | 11% | 1960 | 41 | 81% | 32% |
| 1989 | 61 | 0 | 61 | 48% | 1929 | 40 | 83% | 32% |
| 1990 | 17 | 0 | 18 | 14% | 1987 | 39 | 84% | 31% |
| 1991 | 28 | 0 | 28 | 22% | 1926 | 35 | 85% | 28% |
| 1992 | 24 | 0 | 24 | 19% | 1994 | 34 | 86% | 27% |
| 1993 | 75 | 0 | 75 | 60% | 1949 | 32 | 88% | 26% |
| 1994 | 24 | 10 | 34 | 27% | 1930 | 28 | 89% | 22% |
| 1995 | 69 | 0 | 69 | 55% | 1924 | 28 | 90% | 22% |
| 1996 | 61 | 10 | 71 | 56% | 1991 | 28 | 91% | 22% |
| 1997 | 73 | 25 | 98 | 78% | 1992 | 24 | 93% | 19% |
| 1998 | 69 | 10 | 79 | 63% | 2001 | 23 | 94% | 18% |
| 1999 | 67 | 59 | 126 | 100% | 1990 | 18 | 95% | 14% |
| 2000 | 77 | 32 | 109 | 86% | 1934 | 18 | 96% | 14% |
| 2001 | 22 | 0 | 23 | 18% | 1932 | 18 | 98% | 14% |
| 2002 | 54 | 0 | 54 | 43% | 1988 | 13 | 99% | 11% |
| 2003 | 73 | 0 | 73 | 58% | 1977 | 12 | 100% | 10% |
| Average | 56 | 10 | 66 | 52% | | 66 | | 52% |
| Maximum | 78 | 69 | 126 | 100% | | 126 | | 100% |
| Minimum | 12 | 0 | 12 | 10% | | 12 | | 10% |

Table B-11. County of Kings: Future Conditions

| SWP Table A Deliveries for 2019 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 | 77% | 1938 | 9 | 0% | 100% |
| 1923 | 5 | 0 | 5 | 57% | 1952 | 9 | 0% | 100% |
| 1924 | 1 | 0 | 1 | 13% | 1969 | 9 | 0% | 100% |
| 1925 | 3 | 0 | 3 | 30% | 1978 | 9 | 0% | 100% |
| 1926 | 2 | 0 | 2 | 25% | 1982 | 9 | 0% | 100% |
| 1927 | 6 | 0 | 6 | 62% | 1983 | 9 | 0% | 100% |
| 1928 | 5 | 0 | 5 | 59% | 1995 | 9 | 0% | 100% |
| 1929 | 2 | 0 | 2 | 22% | 1998 | 9 | 0% | 100% |
| 1930 | 2 | 0 | 2 | 20% | 1941 | 9 | 10% | 93% |
| 1931 | 2 | 0 | 2 | 22% | 1958 | 9 | 11% | 92% |
| 1932 | 1 | 0 | 1 | 13% | 1967 | 8 | 12% | 91% |
| 1933 | 4 | 0 | 4 | 38% | 1996 | 8 | 14% | 88% |
| 1934 | 1 | 0 | 1 | 11% | 1942 | 8 | 15% | 87% |
| 1935 | 6 | 0 | 6 | 69% | 1922 | 7 | 16% | 77% |
| 1936 | 6 | 0 | 6 | 63% | 1951 | 7 | 17% | 75% |
| 1937 | 6 | 0 | 6 | 59% | 1984 | 7 | 19% | 74% |
| 1938 | 9 | 0 | 9 | 100% | 1980 | 7 | 20% | 74% |
| 1939 | 2 | 0 | 2 | 24% | 1999 | 7 | 21% | 72% |
| 1940 | 5 | 0 | 5 | 58% | 1974 | 7 | 22% | 72% |
| 1941 | 9 | 0 | 9 | 93% | 1945 | 7 | 23% | 71% |
| 1942 | 8 | 0 | 8 | 87% | 1966 | 7 | 25% | 71% |
| 1943 | 6 | 0 | 6 | 69% | 1970 | 7 | 26% | 70% |
| 1944 | 2 | 0 | 2 | 22% | 1935 | 6 | 27% | 69% |
| 1945 | 7 | 0 | 7 | 71% | 1943 | 6 | 28% | 69% |
| 1946 | 4 | 0 | 4 | 46% | 1973 | 6 | 30% | 69% |
| 1947 | 4 | 0 | 4 | 47% | 1956 | 6 | 31% | 68% |
| 1948 | 5 | 0 | 5 | 52% | 2000 | 6 | 32% | 65% |
| 1949 | 2 | 0 | 2 | 19% | 1985 | 6 | 33% | 64% |
| 1950 | 5 | 0 | 5 | 56% | 1963 | 6 | 35% | 64% |
| 1951 | 7 | 0 | 7 | 75% | 1936 | 6 | 36% | 63% |
| 1952 | 9 | 0 | 9 | 100% | 1927 | 6 | 37% | 62% |
| 1953 | 4 | 0 | 4 | 46% | 1993 | 6 | 38% | 62% |
| 1954 | 5 | 0 | 5 | 59% | 1997 | 6 | 40% | 60% |
| 1955 | 3 | 0 | 3 | 30% | 1937 | 6 | 41% | 59% |
| 1956 | 6 | 0 | 6 | 68% | 1928 | 5 | 42% | 59% |
| 1957 | 5 | 0 | 5 | 56% | 1986 | 5 | 43% | 59% |
| 1958 | 9 | 0 | 9 | 92% | 1954 | 5 | 44% | 59% |
| 1959 | 4 | 0 | 4 | 46% | 1940 | 5 | 46% | 58% |
| 1960 | 3 | 0 | 3 | 29% | 1923 | 5 | 47% | 57% |
| 1961 | 4 | 0 | 4 | 40% | 1975 | 5 | 48% | 57% |
| 1962 | 5 | 0 | 5 | 50% | 1957 | 5 | 49% | 56% |
| 1963 | 6 | 0 | 6 | 64% | 1965 | 5 | 51% | 56% |
| 1964 | 4 | 0 | 4 | 43% | 1950 | 5 | 52% | 56% |
| 1965 | 5 | 0 | 5 | 56% | 1948 | 5 | 53% | 52% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 7 | 0 | 7 | 71% | 1989 | 5 | 54% | 52% |
| 1967 | 8 | 0 | 8 | 91% | 1962 | 5 | 56% | 50% |
| 1968 | 4 | 0 | 4 | 41% | 1979 | 4 | 57% | 47% |
| 1969 | 9 | 0 | 9 | 100% | 1947 | 4 | 58% | 47% |
| 1970 | 7 | 0 | 7 | 70% | 1953 | 4 | 59% | 46% |
| 1971 | 4 | 0 | 4 | 41% | 1946 | 4 | 60% | 46% |
| 1972 | 3 | 0 | 3 | 37% | 1959 | 4 | 62% | 46% |
| 1973 | 6 | 0 | 6 | 69% | 1964 | 4 | 63% | 43% |
| 1974 | 7 | 0 | 7 | 72% | 2003 | 4 | 64% | 42% |
| 1975 | 5 | 0 | 5 | 57% | 1968 | 4 | 65% | 41% |
| 1976 | 3 | 0 | 3 | 33% | 1971 | 4 | 67% | 41% |
| 1977 | 1 | 0 | 1 | 9% | 1961 | 4 | 68% | 40% |
| 1978 | 9 | 0 | 9 | 100% | 1933 | 4 | 69% | 38% |
| 1979 | 4 | 0 | 4 | 47% | 1972 | 3 | 70% | 37% |
| 1980 | 7 | 0 | 7 | 74% | 2002 | 3 | 72% | 35% |
| 1981 | 3 | 0 | 3 | 34% | 1981 | 3 | 73% | 34% |
| 1982 | 9 | 0 | 9 | 100% | 1976 | 3 | 74% | 33% |
| 1983 | 9 | 0 | 9 | 100% | 1925 | 3 | 75% | 30% |
| 1984 | 7 | 0 | 7 | 74% | 1955 | 3 | 77% | 30% |
| 1985 | 6 | 0 | 6 | 64% | 1960 | 3 | 78% | 29% |
| 1986 | 5 | 0 | 5 | 59% | 1926 | 2 | 79% | 25% |
| 1987 | 2 | 0 | 2 | 21% | 1939 | 2 | 80% | 24% |
| 1988 | 1 | 0 | 1 | 10% | 1931 | 2 | 81% | 22% |
| 1989 | 5 | 0 | 5 | 52% | 1929 | 2 | 83% | 22% |
| 1990 | 1 | 0 | 1 | 13% | 1944 | 2 | 84% | 22% |
| 1991 | 2 | 0 | 2 | 20% | 1987 | 2 | 85% | 21% |
| 1992 | 2 | 0 | 2 | 17% | 1930 | 2 | 86% | 20% |
| 1993 | 6 | 0 | 6 | 62% | 1991 | 2 | 88% | 20% |
| 1994 | 2 | 0 | 2 | 18% | 1949 | 2 | 89% | 19% |
| 1995 | 9 | 0 | 9 | 100% | 1994 | 2 | 90% | 18% |
| 1996 | 8 | 0 | 8 | 88% | 1992 | 2 | 91% | 17% |
| 1997 | 6 | 0 | 6 | 60% | 2001 | 1 | 93% | 16% |
| 1998 | 9 | 0 | 9 | 100% | 1924 | 1 | 94% | 13% |
| 1999 | 7 | 0 | 7 | 72% | 1932 | 1 | 95% | 13% |
| 2000 | 6 | 0 | 6 | 65% | 1990 | 1 | 96% | 13% |
| 2001 | 1 | 0 | 1 | 16% | 1934 | 1 | 98% | 11% |
| 2002 | 3 | 0 | 3 | 35% | 1988 | 1 | 99% | 10% |
| 2003 | 4 | 0 | 4 | 42% | 1977 | 1 | 100% | 9% |
| Average | 5 | 0 | 5 | 53% | | 5 | | 53% |
| Maximum | 9 | 0 | 9 | 100% | | 9 | | 100% |
| Minimum | 1 | 0 | 1 | 9% | | 1 | | 9% |

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

| SWP Table A Deliveries for 2019 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 | 48% | 1999 | 5 | 0% | 100% |
| 1923 | 2 | 2 | 5 | 90% | 1968 | 5 | 1% | 92% |
| 1924 | 1 | 1 | 2 | 31% | 1923 | 5 | 2% | 90% |
| 1925 | 2 | 0 | 2 | 32% | 2000 | 4 | 4% | 86% |
| 1926 | 1 | 0 | 2 | 30% | 1939 | 4 | 5% | 81% |
| 1927 | 3 | 0 | 3 | 57% | 1975 | 4 | 6% | 81% |
| 1928 | 3 | 1 | 3 | 69% | 1984 | 4 | 7% | 79% |
| 1929 | 1 | 1 | 2 | 40% | 1985 | 4 | 9% | 79% |
| 1930 | 1 | 0 | 1 | 24% | 1952 | 4 | 10% | 79% |
| 1931 | 2 | 0 | 2 | 36% | 1974 | 4 | 11% | 78% |
| 1932 | 1 | 0 | 1 | 13% | 1998 | 4 | 12% | 76% |
| 1933 | 2 | 0 | 2 | 39% | 1957 | 4 | 14% | 74% |
| 1934 | 1 | 0 | 1 | 13% | 1938 | 4 | 15% | 73% |
| 1935 | 3 | 0 | 3 | 54% | 1983 | 4 | 16% | 73% |
| 1936 | 3 | 0 | 3 | 54% | 1997 | 4 | 17% | 72% |
| 1937 | 3 | 0 | 3 | 54% | 1981 | 4 | 19% | 70% |
| 1938 | 3 | 1 | 4 | 73% | 1958 | 4 | 20% | 70% |
| 1939 | 1 | 3 | 4 | 81% | 1928 | 3 | 21% | 69% |
| 1940 | 3 | 0 | 3 | 55% | 1970 | 3 | 22% | 68% |
| 1941 | 3 | 0 | 3 | 54% | 1946 | 3 | 23% | 67% |
| 1942 | 3 | 0 | 3 | 60% | 1943 | 3 | 25% | 65% |
| 1943 | 3 | 1 | 3 | 65% | 1969 | 3 | 26% | 64% |
| 1944 | 1 | 1 | 2 | 49% | 1963 | 3 | 27% | 64% |
| 1945 | 3 | 0 | 3 | 54% | 1982 | 3 | 28% | 63% |
| 1946 | 2 | 1 | 3 | 67% | 1964 | 3 | 30% | 61% |
| 1947 | 2 | 0 | 3 | 54% | 1953 | 3 | 31% | 60% |
| 1948 | 3 | 0 | 3 | 50% | 1995 | 3 | 32% | 60% |
| 1949 | 1 | 1 | 1 | 29% | 1942 | 3 | 33% | 60% |
| 1950 | 2 | 0 | 3 | 50% | 1996 | 3 | 35% | 59% |
| 1951 | 2 | 0 | 3 | 56% | 1966 | 3 | 36% | 59% |
| 1952 | 3 | 1 | 4 | 79% | 1978 | 3 | 37% | 59% |
| 1953 | 2 | 1 | 3 | 60% | 1954 | 3 | 38% | 59% |
| 1954 | 3 | 0 | 3 | 59% | 1973 | 3 | 40% | 58% |
| 1955 | 1 | 1 | 2 | 47% | 1959 | 3 | 41% | 57% |
| 1956 | 3 | 0 | 3 | 55% | 1980 | 3 | 42% | 57% |
| 1957 | 2 | 1 | 4 | 74% | 1967 | 3 | 43% | 57% |
| 1958 | 3 | 1 | 4 | 70% | 1927 | 3 | 44% | 57% |
| 1959 | 2 | 1 | 3 | 57% | 1951 | 3 | 46% | 56% |
| 1960 | 1 | 0 | 1 | 29% | 1965 | 3 | 47% | 56% |
| 1961 | 2 | 0 | 2 | 43% | 1962 | 3 | 48% | 55% |
| 1962 | 2 | 0 | 3 | 55% | 1989 | 3 | 49% | 55% |
| 1963 | 3 | 0 | 3 | 64% | 1993 | 3 | 51% | 55% |
| 1964 | 2 | 1 | 3 | 61% | 1940 | 3 | 52% | 55% |
| 1965 | 2 | 0 | 3 | 56% | 1956 | 3 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 3 | 0 | 3 | 59% | 1941 | 3 | 54% | 54% |
| 1967 | 3 | 0 | 3 | 57% | 1936 | 3 | 56% | 54% |
| 1968 | 2 | 3 | 5 | 92% | 1937 | 3 | 57% | 54% |
| 1969 | 3 | 0 | 3 | 64% | 1945 | 3 | 58% | 54% |
| 1970 | 3 | 1 | 3 | 68% | 1935 | 3 | 59% | 54% |
| 1971 | 2 | 1 | 3 | 50% | 1947 | 3 | 60% | 54% |
| 1972 | 2 | 0 | 2 | 44% | 1986 | 3 | 62% | 51% |
| 1973 | 3 | 0 | 3 | 58% | 1976 | 3 | 63% | 51% |
| 1974 | 3 | 1 | 4 | 78% | 1950 | 3 | 64% | 50% |
| 1975 | 2 | 2 | 4 | 81% | 1948 | 3 | 65% | 50% |
| 1976 | 2 | 1 | 3 | 51% | 1971 | 3 | 67% | 50% |
| 1977 | 0 | 0 | 1 | 14% | 2003 | 3 | 68% | 50% |
| 1978 | 3 | 0 | 3 | 59% | 1944 | 2 | 69% | 49% |
| 1979 | 2 | 0 | 2 | 46% | 1922 | 2 | 70% | 48% |
| 1980 | 2 | 0 | 3 | 57% | 1955 | 2 | 72% | 47% |
| 1981 | 2 | 2 | 4 | 70% | 1979 | 2 | 73% | 46% |
| 1982 | 3 | 0 | 3 | 63% | 2002 | 2 | 74% | 44% |
| 1983 | 3 | 1 | 4 | 73% | 1972 | 2 | 75% | 44% |
| 1984 | 2 | 2 | 4 | 79% | 1961 | 2 | 77% | 43% |
| 1985 | 3 | 1 | 4 | 79% | 1929 | 2 | 78% | 40% |
| 1986 | 3 | 0 | 3 | 51% | 1987 | 2 | 79% | 39% |
| 1987 | 1 | 1 | 2 | 39% | 1933 | 2 | 80% | 39% |
| 1988 | 0 | 0 | 1 | 13% | 1994 | 2 | 81% | 36% |
| 1989 | 3 | 0 | 3 | 55% | 1931 | 2 | 83% | 36% |
| 1990 | 1 | 0 | 1 | 13% | 1925 | 2 | 84% | 32% |
| 1991 | 1 | 0 | 1 | 22% | 1924 | 2 | 85% | 31% |
| 1992 | 1 | 0 | 1 | 20% | 1926 | 2 | 86% | 30% |
| 1993 | 3 | 0 | 3 | 55% | 1960 | 1 | 88% | 29% |
| 1994 | 1 | 1 | 2 | 36% | 1949 | 1 | 89% | 29% |
| 1995 | 3 | 0 | 3 | 60% | 1930 | 1 | 90% | 24% |
| 1996 | 3 | 0 | 3 | 59% | 1991 | 1 | 91% | 22% |
| 1997 | 3 | 1 | 4 | 72% | 1992 | 1 | 93% | 20% |
| 1998 | 3 | 1 | 4 | 76% | 2001 | 1 | 94% | 16% |
| 1999 | 3 | 2 | 5 | 100% | 1977 | 1 | 95% | 14% |
| 2000 | 3 | 2 | 4 | 86% | 1932 | 1 | 96% | 13% |
| 2001 | 1 | 0 | 1 | 16% | 1934 | 1 | 98% | 13% |
| 2002 | 2 | 0 | 2 | 44% | 1990 | 1 | 99% | 13% |
| 2003 | 2 | 0 | 3 | 50% | 1988 | 1 | 100% | 13% |
| Average | 2 | 1 | 3 | 54% | | 3 | | 54% |
| Maximum | 3 | 3 | 5 | 100% | | 5 | | 100% |
| Minimum | 0 | 0 | 1 | 13% | | 1 | | 13% |

Table B-13. Desert WA: Future Conditions

| SWP Table A Deliveries for 2019 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 | 24 | 0 | 24 | 47% | 1999 | 51 | 0% | 100% |
| 1923 | 28 | 19 | 47 | 92% | 2003 | 50 | 1% | 99% |
| 1924 | 7 | 4 | 11 | 22% | 1985 | 47 | 2% | 93% |
| 1925 | 17 | 0 | 17 | 33% | 1923 | 47 | 4% | 92% |
| 1926 | 14 | 0 | 14 | 28% | 1968 | 46 | 5% | 90% |
| 1927 | 31 | 0 | 31 | 60% | 2000 | 44 | 6% | 86% |
| 1928 | 29 | 4 | 33 | 65% | 1939 | 41 | 7% | 80% |
| 1929 | 12 | 4 | 16 | 32% | 1975 | 41 | 9% | 80% |
| 1930 | 11 | 0 | 11 | 22% | 1984 | 40 | 10% | 79% |
| 1931 | 18 | 0 | 18 | 36% | 1997 | 39 | 11% | 77% |
| 1932 | 7 | 0 | 7 | 14% | 1952 | 38 | 12% | 75% |
| 1933 | 20 | 0 | 20 | 38% | 1957 | 36 | 14% | 72% |
| 1934 | 6 | 1 | 7 | 14% | 1974 | 36 | 15% | 71% |
| 1935 | 29 | 0 | 29 | 57% | 1970 | 36 | 16% | 71% |
| 1936 | 31 | 0 | 31 | 61% | 1983 | 35 | 17% | 69% |
| 1937 | 29 | 2 | 31 | 61% | 1943 | 35 | 19% | 68% |
| 1938 | 28 | 3 | 31 | 61% | 1981 | 34 | 20% | 67% |
| 1939 | 13 | 28 | 41 | 80% | 1946 | 34 | 21% | 67% |
| 1940 | 31 | 0 | 31 | 61% | 1963 | 34 | 22% | 66% |
| 1941 | 26 | 0 | 26 | 51% | 1928 | 33 | 23% | 65% |
| 1942 | 24 | 5 | 29 | 57% | 1998 | 32 | 25% | 62% |
| 1943 | 29 | 6 | 35 | 68% | 1954 | 31 | 26% | 62% |
| 1944 | 12 | 9 | 21 | 42% | 1936 | 31 | 27% | 61% |
| 1945 | 28 | 0 | 28 | 54% | 1938 | 31 | 28% | 61% |
| 1946 | 23 | 11 | 34 | 67% | 1953 | 31 | 30% | 61% |
| 1947 | 23 | 3 | 26 | 51% | 1937 | 31 | 31% | 61% |
| 1948 | 26 | 0 | 26 | 51% | 1940 | 31 | 32% | 61% |
| 1949 | 11 | 3 | 13 | 26% | 1927 | 31 | 33% | 60% |
| 1950 | 27 | 0 | 27 | 54% | 1973 | 30 | 35% | 60% |
| 1951 | 25 | 2 | 27 | 53% | 1993 | 30 | 36% | 60% |
| 1952 | 28 | 10 | 38 | 75% | 1965 | 30 | 37% | 59% |
| 1953 | 23 | 8 | 31 | 61% | 1969 | 30 | 38% | 59% |
| 1954 | 29 | 3 | 31 | 62% | 1966 | 30 | 40% | 58% |
| 1955 | 17 | 4 | 20 | 40% | 1959 | 29 | 41% | 58% |
| 1956 | 29 | 0 | 29 | 57% | 1956 | 29 | 42% | 57% |
| 1957 | 28 | 9 | 36 | 72% | 1958 | 29 | 43% | 57% |
| 1958 | 26 | 4 | 29 | 57% | 1986 | 29 | 44% | 57% |
| 1959 | 23 | 7 | 29 | 58% | 1942 | 29 | 46% | 57% |
| 1960 | 16 | 0 | 16 | 32% | 1935 | 29 | 47% | 57% |
| 1961 | 20 | 0 | 20 | 40% | 1996 | 29 | 48% | 56% |
| 1962 | 25 | 2 | 27 | 53% | 1982 | 28 | 49% | 55% |
| 1963 | 31 | 3 | 34 | 66% | 1980 | 28 | 51% | 55% |
| 1964 | 22 | 4 | 26 | 51% | 1978 | 28 | 52% | 55% |
| 1965 | 28 | 2 | 30 | 59% | 1995 | 28 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 28 | 2 | 30 | 58% | 1945 | 28 | 54% | 54% |
| 1967 | 25 | 2 | 28 | 54% | 1967 | 28 | 56% | 54% |
| 1968 | 21 | 25 | 46 | 90% | 1950 | 27 | 57% | 54% |
| 1969 | 28 | 2 | 30 | 59% | 1962 | 27 | 58% | 53% |
| 1970 | 28 | 8 | 36 | 71% | 1951 | 27 | 59% | 53% |
| 1971 | 20 | 5 | 26 | 50% | 1948 | 26 | 60% | 51% |
| 1972 | 19 | 2 | 21 | 41% | 1941 | 26 | 62% | 51% |
| 1973 | 29 | 1 | 30 | 60% | 1964 | 26 | 63% | 51% |
| 1974 | 27 | 9 | 36 | 71% | 1947 | 26 | 64% | 51% |
| 1975 | 28 | 13 | 41 | 80% | 1971 | 26 | 65% | 50% |
| 1976 | 19 | 4 | 22 | 44% | 1989 | 24 | 67% | 47% |
| 1977 | 5 | 0 | 5 | 10% | 1922 | 24 | 68% | 47% |
| 1978 | 28 | 0 | 28 | 55% | 1979 | 24 | 69% | 47% |
| 1979 | 24 | 0 | 24 | 47% | 1976 | 22 | 70% | 44% |
| 1980 | 26 | 2 | 28 | 55% | 2002 | 22 | 72% | 42% |
| 1981 | 19 | 16 | 34 | 67% | 1944 | 21 | 73% | 42% |
| 1982 | 28 | 0 | 28 | 55% | 1972 | 21 | 74% | 41% |
| 1983 | 28 | 7 | 35 | 69% | 1955 | 20 | 75% | 40% |
| 1984 | 26 | 15 | 40 | 79% | 1961 | 20 | 77% | 40% |
| 1985 | 31 | 16 | 47 | 93% | 1933 | 20 | 78% | 38% |
| 1986 | 29 | 0 | 29 | 57% | 1931 | 18 | 79% | 36% |
| 1987 | 12 | 4 | 16 | 31% | 1925 | 17 | 80% | 33% |
| 1988 | 5 | 0 | 5 | 10% | 1960 | 16 | 81% | 32% |
| 1989 | 24 | 0 | 24 | 47% | 1929 | 16 | 83% | 32% |
| 1990 | 7 | 0 | 7 | 14% | 1987 | 16 | 84% | 31% |
| 1991 | 11 | 0 | 11 | 22% | 1926 | 14 | 85% | 28% |
| 1992 | 10 | 0 | 10 | 19% | 1994 | 14 | 86% | 27% |
| 1993 | 30 | 0 | 30 | 60% | 1949 | 13 | 88% | 26% |
| 1994 | 10 | 4 | 14 | 27% | 1930 | 11 | 89% | 22% |
| 1995 | 28 | 0 | 28 | 55% | 1924 | 11 | 90% | 22% |
| 1996 | 25 | 4 | 29 | 56% | 1991 | 11 | 91% | 22% |
| 1997 | 29 | 10 | 39 | 77% | 1992 | 10 | 93% | 19% |
| 1998 | 28 | 4 | 32 | 62% | 2001 | 9 | 94% | 18% |
| 1999 | 27 | 24 | 51 | 100% | 1990 | 7 | 95% | 14% |
| 2000 | 31 | 13 | 44 | 86% | 1934 | 7 | 96% | 14% |
| 2001 | 9 | 0 | 9 | 18% | 1932 | 7 | 98% | 14% |
| 2002 | 22 | 0 | 22 | 42% | 1988 | 5 | 99% | 10% |
| 2003 | 50 | 0 | 50 | 99% | 1977 | 5 | 100% | 10% |
| Average | 23 | 4 | 27 | 53% | | 27 | | 53% |
| Maximum | 50 | 28 | 51 | 100% | | 51 | | 100% |
| Minimum | 5 | 0 | 5 | 10% | | 5 | | 10% |

Table B-14. Dudley Ridge WD: Future Conditions

| SWP Table A Deliveries for 2019 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 | 26 | 0 | 26 | 64% | 1952 | 42 | 0% | 100% |
| 1923 | 22 | 8 | 30 | 72% | 1983 | 40 | 1% | 95% |
| 1924 | 6 | 4 | 10 | 24% | 1998 | 38 | 2% | 92% |
| 1925 | 13 | 0 | 13 | 31% | 1938 | 37 | 4% | 90% |
| 1926 | 11 | 1 | 12 | 28% | 1969 | 36 | 5% | 86% |
| 1927 | 24 | 1 | 24 | 59% | 1999 | 36 | 6% | 86% |
| 1928 | 22 | 5 | 27 | 65% | 1958 | 35 | 7% | 84% |
| 1929 | 9 | 4 | 14 | 33% | 1982 | 35 | 9% | 84% |
| 1930 | 9 | 1 | 9 | 22% | 1995 | 34 | 10% | 83% |
| 1931 | 13 | 1 | 13 | 32% | 1978 | 34 | 11% | 82% |
| 1932 | 5 | 0 | 6 | 13% | 1942 | 33 | 12% | 80% |
| 1933 | 15 | 0 | 16 | 37% | 1996 | 33 | 14% | 79% |
| 1934 | 5 | 1 | 5 | 13% | 1984 | 33 | 15% | 79% |
| 1935 | 25 | 0 | 26 | 62% | 1967 | 32 | 16% | 78% |
| 1936 | 24 | 0 | 24 | 58% | 1970 | 32 | 17% | 77% |
| 1937 | 23 | 1 | 24 | 58% | 1974 | 32 | 19% | 76% |
| 1938 | 34 | 4 | 37 | 90% | 1941 | 32 | 20% | 76% |
| 1939 | 10 | 12 | 22 | 52% | 2000 | 31 | 21% | 75% |
| 1940 | 23 | 0 | 24 | 57% | 1997 | 31 | 22% | 74% |
| 1941 | 31 | 0 | 32 | 76% | 1923 | 30 | 23% | 72% |
| 1942 | 29 | 4 | 33 | 80% | 1943 | 30 | 25% | 72% |
| 1943 | 25 | 5 | 30 | 72% | 1985 | 29 | 26% | 71% |
| 1944 | 9 | 6 | 15 | 36% | 1980 | 29 | 27% | 69% |
| 1945 | 26 | 1 | 26 | 63% | 1975 | 29 | 28% | 69% |
| 1946 | 18 | 7 | 25 | 59% | 1951 | 28 | 30% | 67% |
| 1947 | 18 | 3 | 21 | 51% | 1966 | 27 | 31% | 66% |
| 1948 | 20 | 0 | 20 | 49% | 1963 | 27 | 32% | 66% |
| 1949 | 8 | 3 | 11 | 27% | 1957 | 27 | 33% | 66% |
| 1950 | 21 | 1 | 22 | 52% | 1928 | 27 | 35% | 65% |
| 1951 | 26 | 2 | 28 | 67% | 1973 | 27 | 36% | 65% |
| 1952 | 34 | 8 | 42 | 100% | 1968 | 27 | 37% | 64% |
| 1953 | 18 | 6 | 24 | 59% | 1922 | 26 | 38% | 64% |
| 1954 | 22 | 3 | 25 | 61% | 1945 | 26 | 40% | 63% |
| 1955 | 13 | 4 | 17 | 40% | 1935 | 26 | 41% | 62% |
| 1956 | 25 | 0 | 25 | 61% | 1956 | 25 | 42% | 61% |
| 1957 | 21 | 6 | 27 | 66% | 1954 | 25 | 43% | 61% |
| 1958 | 31 | 4 | 35 | 84% | 1946 | 25 | 44% | 59% |
| 1959 | 18 | 5 | 23 | 56% | 1927 | 24 | 46% | 59% |
| 1960 | 12 | 0 | 12 | 30% | 1953 | 24 | 47% | 59% |
| 1961 | 16 | 1 | 17 | 40% | 1936 | 24 | 48% | 58% |
| 1962 | 19 | 2 | 22 | 53% | 1993 | 24 | 49% | 58% |
| 1963 | 24 | 3 | 27 | 66% | 1937 | 24 | 51% | 58% |
| 1964 | 17 | 5 | 22 | 52% | 1965 | 24 | 52% | 58% |
| 1965 | 21 | 3 | 24 | 58% | 1940 | 24 | 53% | 57% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 26 | 2 | 27 | 66% | 1959 | 23 | 54% | 56% |
| 1967 | 31 | 2 | 32 | 78% | 1986 | 23 | 56% | 54% |
| 1968 | 16 | 10 | 27 | 64% | 1962 | 22 | 57% | 53% |
| 1969 | 34 | 2 | 36 | 86% | 1981 | 22 | 58% | 52% |
| 1970 | 25 | 7 | 32 | 77% | 1950 | 22 | 59% | 52% |
| 1971 | 16 | 4 | 20 | 49% | 1964 | 22 | 60% | 52% |
| 1972 | 15 | 3 | 17 | 41% | 1939 | 22 | 62% | 52% |
| 1973 | 25 | 2 | 27 | 65% | 1947 | 21 | 63% | 51% |
| 1974 | 26 | 6 | 32 | 76% | 1948 | 20 | 64% | 49% |
| 1975 | 22 | 7 | 29 | 69% | 1971 | 20 | 65% | 49% |
| 1976 | 14 | 4 | 18 | 44% | 1989 | 20 | 67% | 47% |
| 1977 | 4 | 1 | 5 | 11% | 1979 | 19 | 68% | 45% |
| 1978 | 34 | 0 | 34 | 82% | 1976 | 18 | 69% | 44% |
| 1979 | 19 | 0 | 19 | 45% | 2003 | 18 | 70% | 44% |
| 1980 | 26 | 2 | 29 | 69% | 1972 | 17 | 72% | 41% |
| 1981 | 14 | 8 | 22 | 52% | 1955 | 17 | 73% | 40% |
| 1982 | 34 | 1 | 35 | 84% | 1961 | 17 | 74% | 40% |
| 1983 | 34 | 6 | 40 | 95% | 1933 | 16 | 75% | 37% |
| 1984 | 26 | 7 | 33 | 79% | 1944 | 15 | 77% | 36% |
| 1985 | 24 | 5 | 29 | 71% | 1929 | 14 | 78% | 33% |
| 1986 | 22 | 0 | 23 | 54% | 2002 | 14 | 79% | 33% |
| 1987 | 9 | 4 | 13 | 32% | 1931 | 13 | 80% | 32% |
| 1988 | 4 | 1 | 5 | 11% | 1987 | 13 | 81% | 32% |
| 1989 | 19 | 0 | 20 | 47% | 1925 | 13 | 83% | 31% |
| 1990 | 5 | 0 | 5 | 13% | 1960 | 12 | 84% | 30% |
| 1991 | 8 | 0 | 9 | 21% | 1994 | 12 | 85% | 29% |
| 1992 | 7 | 1 | 8 | 19% | 1926 | 12 | 86% | 28% |
| 1993 | 24 | 1 | 24 | 58% | 1949 | 11 | 88% | 27% |
| 1994 | 7 | 4 | 12 | 29% | 1924 | 10 | 89% | 24% |
| 1995 | 34 | 1 | 34 | 83% | 1930 | 9 | 90% | 22% |
| 1996 | 30 | 3 | 33 | 79% | 1991 | 9 | 91% | 21% |
| 1997 | 23 | 8 | 31 | 74% | 1992 | 8 | 93% | 19% |
| 1998 | 34 | 4 | 38 | 92% | 2001 | 7 | 94% | 17% |
| 1999 | 26 | 10 | 36 | 86% | 1932 | 6 | 95% | 13% |
| 2000 | 24 | 7 | 31 | 75% | 1990 | 5 | 96% | 13% |
| 2001 | 7 | 0 | 7 | 17% | 1934 | 5 | 98% | 13% |
| 2002 | 13 | 1 | 14 | 33% | 1977 | 5 | 99% | 11% |
| 2003 | 18 | 0 | 18 | 44% | 1988 | 5 | 100% | 11% |
| Average | 20 | 3 | 23 | 55% | | 23 | | 55% |
| Maximum | 34 | 12 | 42 | 100% | | 42 | | 100% |
| Minimum | 4 | 0 | 5 | 11% | | 5 | | 11% |

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

| SWP Table A Deliveries for 2019 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 | 68% | 1983 | 3 | 0% | 100% |
| 1923 | 2 | 0 | 2 | 63% | 1952 | 3 | 1% | 96% |
| 1924 | 0 | 0 | 0 | 17% | 1998 | 3 | 2% | 91% |
| 1925 | 1 | 0 | 1 | 30% | 1938 | 3 | 4% | 91% |
| 1926 | 1 | 0 | 1 | 26% | 1969 | 3 | 5% | 89% |
| 1927 | 2 | 0 | 2 | 59% | 1982 | 3 | 6% | 89% |
| 1928 | 2 | 0 | 2 | 60% | 1995 | 3 | 7% | 88% |
| 1929 | 1 | 0 | 1 | 26% | 1978 | 3 | 9% | 88% |
| 1930 | 1 | 0 | 1 | 21% | 1942 | 3 | 10% | 85% |
| 1931 | 1 | 0 | 1 | 33% | 1996 | 3 | 11% | 85% |
| 1932 | 0 | 0 | 0 | 13% | 1958 | 3 | 12% | 84% |
| 1933 | 1 | 0 | 1 | 37% | 1967 | 2 | 14% | 84% |
| 1934 | 0 | 0 | 0 | 12% | 1941 | 2 | 15% | 82% |
| 1935 | 2 | 0 | 2 | 64% | 1970 | 2 | 16% | 77% |
| 1936 | 2 | 0 | 2 | 60% | 1999 | 2 | 17% | 76% |
| 1937 | 2 | 0 | 2 | 59% | 1984 | 2 | 19% | 76% |
| 1938 | 3 | 0 | 3 | 91% | 1943 | 2 | 20% | 74% |
| 1939 | 1 | 0 | 1 | 36% | 1974 | 2 | 21% | 71% |
| 1940 | 2 | 0 | 2 | 60% | 1951 | 2 | 22% | 69% |
| 1941 | 2 | 0 | 2 | 82% | 1985 | 2 | 23% | 69% |
| 1942 | 2 | 0 | 3 | 85% | 1980 | 2 | 25% | 69% |
| 1943 | 2 | 0 | 2 | 74% | 1922 | 2 | 26% | 68% |
| 1944 | 1 | 0 | 1 | 27% | 2000 | 2 | 27% | 68% |
| 1945 | 2 | 0 | 2 | 66% | 1997 | 2 | 28% | 68% |
| 1946 | 1 | 0 | 2 | 51% | 1966 | 2 | 30% | 66% |
| 1947 | 1 | 0 | 1 | 47% | 1945 | 2 | 31% | 66% |
| 1948 | 1 | 0 | 2 | 50% | 1973 | 2 | 32% | 65% |
| 1949 | 1 | 0 | 1 | 21% | 1935 | 2 | 33% | 64% |
| 1950 | 2 | 0 | 2 | 53% | 1956 | 2 | 35% | 63% |
| 1951 | 2 | 0 | 2 | 69% | 1923 | 2 | 36% | 63% |
| 1952 | 3 | 0 | 3 | 96% | 1963 | 2 | 37% | 63% |
| 1953 | 1 | 0 | 2 | 57% | 1975 | 2 | 38% | 61% |
| 1954 | 2 | 0 | 2 | 58% | 1940 | 2 | 40% | 60% |
| 1955 | 1 | 0 | 1 | 33% | 1936 | 2 | 41% | 60% |
| 1956 | 2 | 0 | 2 | 63% | 1928 | 2 | 42% | 60% |
| 1957 | 2 | 0 | 2 | 59% | 1937 | 2 | 43% | 59% |
| 1958 | 2 | 0 | 3 | 84% | 1989 | 2 | 44% | 59% |
| 1959 | 1 | 0 | 2 | 56% | 1927 | 2 | 46% | 59% |
| 1960 | 1 | 0 | 1 | 29% | 1957 | 2 | 47% | 59% |
| 1961 | 1 | 0 | 1 | 39% | 1993 | 2 | 48% | 59% |
| 1962 | 1 | 0 | 1 | 50% | 1954 | 2 | 49% | 58% |
| 1963 | 2 | 0 | 2 | 63% | 1953 | 2 | 51% | 57% |
| 1964 | 1 | 0 | 1 | 46% | 1986 | 2 | 52% | 56% |
| 1965 | 2 | 0 | 2 | 55% | 1959 | 2 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 2 | 0 | 2 | 66% | 1965 | 2 | 54% | 55% |
| 1967 | 2 | 0 | 2 | 84% | 1950 | 2 | 56% | 53% |
| 1968 | 1 | 0 | 2 | 51% | 1968 | 2 | 57% | 51% |
| 1969 | 3 | 0 | 3 | 89% | 1946 | 2 | 58% | 51% |
| 1970 | 2 | 0 | 2 | 77% | 1948 | 2 | 59% | 50% |
| 1971 | 1 | 0 | 1 | 46% | 1962 | 1 | 60% | 50% |
| 1972 | 1 | 0 | 1 | 38% | 1947 | 1 | 62% | 47% |
| 1973 | 2 | 0 | 2 | 65% | 1979 | 1 | 63% | 46% |
| 1974 | 2 | 0 | 2 | 71% | 1971 | 1 | 64% | 46% |
| 1975 | 2 | 0 | 2 | 61% | 1964 | 1 | 65% | 46% |
| 1976 | 1 | 0 | 1 | 36% | 1981 | 1 | 67% | 42% |
| 1977 | 0 | 0 | 0 | 9% | 1961 | 1 | 68% | 39% |
| 1978 | 3 | 0 | 3 | 88% | 2002 | 1 | 69% | 39% |
| 1979 | 1 | 0 | 1 | 46% | 2003 | 1 | 70% | 38% |
| 1980 | 2 | 0 | 2 | 69% | 1972 | 1 | 72% | 38% |
| 1981 | 1 | 0 | 1 | 42% | 1933 | 1 | 73% | 37% |
| 1982 | 3 | 0 | 3 | 89% | 1976 | 1 | 74% | 36% |
| 1983 | 3 | 0 | 3 | 100% | 1939 | 1 | 75% | 36% |
| 1984 | 2 | 0 | 2 | 76% | 1931 | 1 | 77% | 33% |
| 1985 | 2 | 0 | 2 | 69% | 1955 | 1 | 78% | 33% |
| 1986 | 2 | 0 | 2 | 56% | 1925 | 1 | 79% | 30% |
| 1987 | 1 | 0 | 1 | 24% | 1960 | 1 | 80% | 29% |
| 1988 | 0 | 0 | 0 | 10% | 1944 | 1 | 81% | 27% |
| 1989 | 2 | 0 | 2 | 59% | 1929 | 1 | 83% | 26% |
| 1990 | 0 | 0 | 0 | 13% | 1926 | 1 | 84% | 26% |
| 1991 | 1 | 0 | 1 | 20% | 1987 | 1 | 85% | 24% |
| 1992 | 1 | 0 | 1 | 18% | 1949 | 1 | 86% | 21% |
| 1993 | 2 | 0 | 2 | 59% | 1994 | 1 | 88% | 21% |
| 1994 | 1 | 0 | 1 | 21% | 1930 | 1 | 89% | 21% |
| 1995 | 3 | 0 | 3 | 88% | 1991 | 1 | 90% | 20% |
| 1996 | 2 | 0 | 3 | 85% | 1992 | 1 | 91% | 18% |
| 1997 | 2 | 0 | 2 | 68% | 1924 | 0 | 93% | 17% |
| 1998 | 3 | 0 | 3 | 91% | 2001 | 0 | 94% | 16% |
| 1999 | 2 | 0 | 2 | 76% | 1932 | 0 | 95% | 13% |
| 2000 | 2 | 0 | 2 | 68% | 1990 | 0 | 96% | 13% |
| 2001 | 0 | 0 | 0 | 16% | 1934 | 0 | 98% | 12% |
| 2002 | 1 | 0 | 1 | 39% | 1988 | 0 | 99% | 10% |
| 2003 | 1 | 0 | 1 | 38% | 1977 | 0 | 100% | 9% |
| Average | 1 | 0 | 2 | 53% | | 2 | | 53% |
| Maximum | 3 | 0 | 3 | 100% | | 3 | | 100% |
| Minimum | 0 | 0 | 0 | 9% | | 0 | | 9% |

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

| SWP Table A Deliveries for 2019 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 | 595 | 0 | 595 | 70% | 1983 | 846 | 0% | 100% |
| 1923 | 470 | 56 | 526 | 62% | 1952 | 816 | 1% | 97% |
| 1924 | 113 | 15 | 128 | 15% | 1998 | 782 | 2% | 92% |
| 1925 | 252 | 1 | 252 | 30% | 1938 | 780 | 4% | 92% |
| 1926 | 213 | 2 | 215 | 25% | 1969 | 771 | 5% | 91% |
| 1927 | 510 | 1 | 511 | 60% | 1982 | 769 | 6% | 91% |
| 1928 | 485 | 16 | 501 | 59% | 1995 | 768 | 7% | 91% |
| 1929 | 189 | 15 | 204 | 24% | 1978 | 742 | 9% | 88% |
| 1930 | 172 | 1 | 173 | 21% | 1942 | 740 | 10% | 87% |
| 1931 | 233 | 1 | 234 | 28% | 1996 | 736 | 11% | 87% |
| 1932 | 107 | 2 | 109 | 13% | 1967 | 729 | 12% | 86% |
| 1933 | 318 | 1 | 319 | 38% | 1958 | 718 | 14% | 85% |
| 1934 | 93 | 4 | 98 | 12% | 1941 | 718 | 15% | 85% |
| 1935 | 555 | 1 | 555 | 66% | 1984 | 650 | 16% | 77% |
| 1936 | 518 | 3 | 521 | 62% | 1970 | 642 | 17% | 76% |
| 1937 | 488 | 16 | 504 | 60% | 1999 | 640 | 19% | 76% |
| 1938 | 767 | 13 | 780 | 92% | 1943 | 623 | 20% | 74% |
| 1939 | 199 | 81 | 280 | 33% | 1974 | 599 | 21% | 71% |
| 1940 | 455 | 1 | 456 | 54% | 1922 | 595 | 22% | 70% |
| 1941 | 715 | 3 | 718 | 85% | 1951 | 592 | 23% | 70% |
| 1942 | 668 | 72 | 740 | 87% | 1980 | 587 | 25% | 69% |
| 1943 | 552 | 71 | 623 | 74% | 1966 | 571 | 26% | 67% |
| 1944 | 182 | 30 | 213 | 25% | 1945 | 568 | 27% | 67% |
| 1945 | 567 | 1 | 568 | 67% | 1997 | 563 | 28% | 67% |
| 1946 | 382 | 37 | 419 | 50% | 1973 | 556 | 30% | 66% |
| 1947 | 385 | 6 | 391 | 46% | 1935 | 555 | 31% | 66% |
| 1948 | 433 | 3 | 436 | 52% | 1956 | 549 | 32% | 65% |
| 1949 | 160 | 7 | 167 | 20% | 1963 | 531 | 33% | 63% |
| 1950 | 457 | 1 | 458 | 54% | 1923 | 526 | 35% | 62% |
| 1951 | 586 | 6 | 592 | 70% | 1936 | 521 | 36% | 62% |
| 1952 | 767 | 50 | 816 | 97% | 2000 | 519 | 37% | 61% |
| 1953 | 386 | 81 | 467 | 55% | 1927 | 511 | 38% | 60% |
| 1954 | 483 | 6 | 489 | 58% | 1993 | 508 | 40% | 60% |
| 1955 | 251 | 15 | 266 | 31% | 1975 | 508 | 41% | 60% |
| 1956 | 549 | 1 | 549 | 65% | 1937 | 504 | 42% | 60% |
| 1957 | 464 | 29 | 492 | 58% | 1928 | 501 | 43% | 59% |
| 1958 | 704 | 15 | 718 | 85% | 1957 | 492 | 44% | 58% |
| 1959 | 379 | 75 | 453 | 54% | 1954 | 489 | 46% | 58% |
| 1960 | 243 | 3 | 247 | 29% | 1986 | 487 | 47% | 58% |
| 1961 | 336 | 1 | 337 | 40% | 1953 | 467 | 48% | 55% |
| 1962 | 414 | 5 | 419 | 50% | 1965 | 465 | 49% | 55% |
| 1963 | 524 | 7 | 531 | 63% | 1950 | 458 | 51% | 54% |
| 1964 | 360 | 17 | 377 | 45% | 1940 | 456 | 52% | 54% |
| 1965 | 459 | 6 | 465 | 55% | 1959 | 453 | 53% | 54% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 565 | 6 | 571 | 67% | 1948 | 436 | 54% | 52% |
| 1967 | 694 | 35 | 729 | 86% | 1962 | 419 | 56% | 50% |
| 1968 | 344 | 74 | 418 | 49% | 1946 | 419 | 57% | 50% |
| 1969 | 767 | 5 | 771 | 91% | 1968 | 418 | 58% | 49% |
| 1970 | 560 | 81 | 642 | 76% | 1985 | 404 | 59% | 48% |
| 1971 | 340 | 35 | 375 | 44% | 1979 | 398 | 60% | 47% |
| 1972 | 309 | 5 | 314 | 37% | 1947 | 391 | 62% | 46% |
| 1973 | 552 | 4 | 556 | 66% | 1964 | 377 | 63% | 45% |
| 1974 | 569 | 30 | 599 | 71% | 1971 | 375 | 64% | 44% |
| 1975 | 468 | 40 | 508 | 60% | 1989 | 348 | 65% | 41% |
| 1976 | 281 | 15 | 296 | 35% | 2002 | 344 | 67% | 41% |
| 1977 | 73 | 2 | 75 | 9% | 1961 | 337 | 68% | 40% |
| 1978 | 741 | 0 | 742 | 88% | 1981 | 335 | 69% | 40% |
| 1979 | 395 | 3 | 398 | 47% | 2003 | 322 | 70% | 38% |
| 1980 | 582 | 5 | 587 | 69% | 1933 | 319 | 72% | 38% |
| 1981 | 287 | 47 | 335 | 40% | 1972 | 314 | 73% | 37% |
| 1982 | 767 | 2 | 769 | 91% | 1976 | 296 | 74% | 35% |
| 1983 | 767 | 79 | 846 | 100% | 1939 | 280 | 75% | 33% |
| 1984 | 583 | 67 | 650 | 77% | 1955 | 266 | 77% | 31% |
| 1985 | 356 | 48 | 404 | 48% | 1925 | 252 | 78% | 30% |
| 1986 | 485 | 3 | 487 | 58% | 1960 | 247 | 79% | 29% |
| 1987 | 178 | 15 | 193 | 23% | 1931 | 234 | 80% | 28% |
| 1988 | 81 | 1 | 82 | 10% | 1926 | 215 | 81% | 25% |
| 1989 | 348 | 0 | 348 | 41% | 1944 | 213 | 83% | 25% |
| 1990 | 106 | 3 | 109 | 13% | 1929 | 204 | 84% | 24% |
| 1991 | 169 | 1 | 169 | 20% | 1987 | 193 | 85% | 23% |
| 1992 | 146 | 1 | 147 | 17% | 1930 | 173 | 86% | 21% |
| 1993 | 507 | 1 | 508 | 60% | 1991 | 169 | 88% | 20% |
| 1994 | 148 | 16 | 164 | 19% | 1949 | 167 | 89% | 20% |
| 1995 | 767 | 1 | 768 | 91% | 1994 | 164 | 90% | 19% |
| 1996 | 676 | 61 | 736 | 87% | 1992 | 147 | 91% | 17% |
| 1997 | 492 | 72 | 563 | 67% | 2001 | 137 | 93% | 16% |
| 1998 | 767 | 15 | 782 | 92% | 1924 | 128 | 94% | 15% |
| 1999 | 569 | 70 | 640 | 76% | 1932 | 109 | 95% | 13% |
| 2000 | 479 | 40 | 519 | 61% | 1990 | 109 | 96% | 13% |
| 2001 | 134 | 3 | 137 | 16% | 1934 | 98 | 98% | 12% |
| 2002 | 344 | 1 | 344 | 41% | 1988 | 82 | 99% | 10% |
| 2003 | 319 | 3 | 322 | 38% | 1977 | 75 | 100% | 9% |
| Average | 425 | 20 | 445 | 53% | | 445 | | 53% |
| Maximum | 767 | 81 | 846 | 100% | | 846 | | 100% |
| Minimum | 73 | 0 | 75 | 9% | | 75 | | 9% |

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

| SWP Table A Deliveries for 2019 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 | 103 | 0 | 103 | 77% | 1938 | 135 | 0% | 100% |
| 1923 | 77 | 0 | 77 | 57% | 1969 | 135 | 0% | 100% |
| 1924 | 18 | 0 | 18 | 13% | 1983 | 135 | 0% | 100% |
| 1925 | 40 | 0 | 40 | 30% | 1995 | 135 | 0% | 100% |
| 1926 | 34 | 0 | 34 | 25% | 1952 | 135 | 0% | 100% |
| 1927 | 83 | 0 | 83 | 62% | 1978 | 135 | 0% | 100% |
| 1928 | 79 | 0 | 79 | 59% | 1982 | 135 | 0% | 100% |
| 1929 | 30 | 0 | 30 | 22% | 1998 | 135 | 0% | 100% |
| 1930 | 28 | 0 | 28 | 20% | 1941 | 125 | 10% | 93% |
| 1931 | 37 | 0 | 37 | 27% | 1958 | 124 | 11% | 92% |
| 1932 | 17 | 0 | 17 | 13% | 1967 | 122 | 12% | 91% |
| 1933 | 51 | 0 | 51 | 38% | 1996 | 119 | 14% | 88% |
| 1934 | 15 | 0 | 15 | 11% | 1942 | 117 | 15% | 87% |
| 1935 | 93 | 0 | 93 | 69% | 1922 | 103 | 16% | 77% |
| 1936 | 85 | 0 | 85 | 63% | 1951 | 101 | 17% | 75% |
| 1937 | 80 | 0 | 80 | 59% | 1984 | 100 | 19% | 74% |
| 1938 | 135 | 0 | 135 | 100% | 1980 | 100 | 20% | 74% |
| 1939 | 32 | 0 | 32 | 24% | 1999 | 97 | 21% | 72% |
| 1940 | 83 | 0 | 83 | 62% | 1974 | 97 | 22% | 72% |
| 1941 | 125 | 0 | 125 | 93% | 1945 | 96 | 23% | 71% |
| 1942 | 117 | 0 | 117 | 87% | 1966 | 95 | 25% | 71% |
| 1943 | 92 | 0 | 92 | 69% | 1970 | 94 | 26% | 70% |
| 1944 | 29 | 0 | 29 | 22% | 1935 | 93 | 27% | 69% |
| 1945 | 96 | 0 | 96 | 71% | 1943 | 92 | 28% | 69% |
| 1946 | 62 | 0 | 62 | 46% | 1973 | 92 | 30% | 69% |
| 1947 | 63 | 0 | 63 | 47% | 1956 | 92 | 31% | 68% |
| 1948 | 70 | 0 | 70 | 52% | 1985 | 86 | 32% | 64% |
| 1949 | 26 | 0 | 26 | 19% | 1963 | 86 | 33% | 64% |
| 1950 | 75 | 0 | 75 | 56% | 1936 | 85 | 35% | 63% |
| 1951 | 101 | 0 | 101 | 75% | 1927 | 83 | 36% | 62% |
| 1952 | 135 | 0 | 135 | 100% | 1940 | 83 | 37% | 62% |
| 1953 | 62 | 0 | 62 | 46% | 1993 | 83 | 38% | 62% |
| 1954 | 79 | 0 | 79 | 59% | 1997 | 80 | 40% | 60% |
| 1955 | 40 | 0 | 40 | 30% | 1937 | 80 | 41% | 59% |
| 1956 | 92 | 0 | 92 | 68% | 1928 | 79 | 42% | 59% |
| 1957 | 76 | 0 | 76 | 56% | 1986 | 79 | 43% | 59% |
| 1958 | 124 | 0 | 124 | 92% | 1954 | 79 | 44% | 59% |
| 1959 | 61 | 0 | 61 | 46% | 2000 | 78 | 46% | 58% |
| 1960 | 39 | 0 | 39 | 29% | 1923 | 77 | 47% | 57% |
| 1961 | 54 | 0 | 54 | 40% | 1975 | 77 | 48% | 57% |
| 1962 | 67 | 0 | 67 | 50% | 1957 | 76 | 49% | 56% |
| 1963 | 86 | 0 | 86 | 64% | 1965 | 75 | 51% | 56% |
| 1964 | 58 | 0 | 58 | 43% | 1950 | 75 | 52% | 56% |
| 1965 | 75 | 0 | 75 | 56% | 1948 | 70 | 53% | 52% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 95 | 0 | 95 | 71% | 1962 | 67 | 54% | 50% |
| 1967 | 122 | 0 | 122 | 91% | 1979 | 64 | 56% | 47% |
| 1968 | 55 | 0 | 55 | 41% | 1947 | 63 | 57% | 47% |
| 1969 | 135 | 0 | 135 | 100% | 1953 | 62 | 58% | 46% |
| 1970 | 94 | 0 | 94 | 70% | 1946 | 62 | 59% | 46% |
| 1971 | 55 | 0 | 55 | 41% | 1959 | 61 | 60% | 46% |
| 1972 | 50 | 0 | 50 | 37% | 1989 | 60 | 62% | 45% |
| 1973 | 92 | 0 | 92 | 69% | 2003 | 60 | 63% | 45% |
| 1974 | 97 | 0 | 97 | 72% | 1964 | 58 | 64% | 43% |
| 1975 | 77 | 0 | 77 | 57% | 1968 | 55 | 65% | 41% |
| 1976 | 45 | 0 | 45 | 33% | 1971 | 55 | 67% | 41% |
| 1977 | 12 | 0 | 12 | 9% | 1961 | 54 | 68% | 40% |
| 1978 | 135 | 0 | 135 | 100% | 1933 | 51 | 69% | 38% |
| 1979 | 64 | 0 | 64 | 47% | 1972 | 50 | 70% | 37% |
| 1980 | 100 | 0 | 100 | 74% | 1981 | 46 | 72% | 34% |
| 1981 | 46 | 0 | 46 | 34% | 2002 | 45 | 73% | 34% |
| 1982 | 135 | 0 | 135 | 100% | 1976 | 45 | 74% | 33% |
| 1983 | 135 | 0 | 135 | 100% | 1925 | 40 | 75% | 30% |
| 1984 | 100 | 0 | 100 | 74% | 1955 | 40 | 77% | 30% |
| 1985 | 86 | 0 | 86 | 64% | 1960 | 39 | 78% | 29% |
| 1986 | 79 | 0 | 79 | 59% | 1931 | 37 | 79% | 27% |
| 1987 | 28 | 0 | 28 | 21% | 1926 | 34 | 80% | 25% |
| 1988 | 13 | 0 | 13 | 10% | 1939 | 32 | 81% | 24% |
| 1989 | 60 | 0 | 60 | 45% | 1929 | 30 | 83% | 22% |
| 1990 | 17 | 0 | 17 | 13% | 1944 | 29 | 84% | 22% |
| 1991 | 27 | 0 | 27 | 20% | 1987 | 28 | 85% | 21% |
| 1992 | 23 | 0 | 23 | 17% | 1930 | 28 | 86% | 20% |
| 1993 | 83 | 0 | 83 | 62% | 1991 | 27 | 88% | 20% |
| 1994 | 24 | 0 | 24 | 18% | 1949 | 26 | 89% | 19% |
| 1995 | 135 | 0 | 135 | 100% | 1994 | 24 | 90% | 18% |
| 1996 | 119 | 0 | 119 | 88% | 1992 | 23 | 91% | 17% |
| 1997 | 80 | 0 | 80 | 60% | 2001 | 21 | 93% | 16% |
| 1998 | 135 | 0 | 135 | 100% | 1924 | 18 | 94% | 13% |
| 1999 | 97 | 0 | 97 | 72% | 1932 | 17 | 95% | 13% |
| 2000 | 78 | 0 | 78 | 58% | 1990 | 17 | 96% | 13% |
| 2001 | 21 | 0 | 21 | 16% | 1934 | 15 | 98% | 11% |
| 2002 | 45 | 0 | 45 | 34% | 1988 | 13 | 99% | 10% |
| 2003 | 60 | 0 | 60 | 45% | 1977 | 12 | 100% | 9% |
| Average | 72 | 0 | 72 | 53% | | 72 | | 53% |
| Maximum | 135 | 0 | 135 | 100% | | 135 | | 100% |
| Minimum | 12 | 0 | 12 | 9% | | 12 | | 9% |

Table B-18. Littlerock Creek ID: Future Conditions

| SWP Table A Deliveries for 2019 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 | 77% | 1978 | 2 | 0% | 100% |
| 1923 | 1 | 0 | 1 | 57% | 1998 | 2 | 0% | 100% |
| 1924 | 0 | 0 | 0 | 13% | 1938 | 2 | 0% | 100% |
| 1925 | 1 | 0 | 1 | 30% | 1969 | 2 | 0% | 100% |
| 1926 | 1 | 0 | 1 | 25% | 1982 | 2 | 0% | 100% |
| 1927 | 1 | 0 | 1 | 62% | 1995 | 2 | 0% | 100% |
| 1928 | 1 | 0 | 1 | 59% | 1952 | 2 | 0% | 100% |
| 1929 | 1 | 0 | 1 | 22% | 1983 | 2 | 0% | 100% |
| 1930 | 0 | 0 | 0 | 20% | 1941 | 2 | 10% | 93% |
| 1931 | 1 | 0 | 1 | 28% | 1958 | 2 | 11% | 92% |
| 1932 | 0 | 0 | 0 | 13% | 1967 | 2 | 12% | 91% |
| 1933 | 1 | 0 | 1 | 38% | 1996 | 2 | 14% | 88% |
| 1934 | 0 | 0 | 0 | 11% | 1942 | 2 | 15% | 87% |
| 1935 | 2 | 0 | 2 | 69% | 1922 | 2 | 16% | 77% |
| 1936 | 1 | 0 | 1 | 63% | 1951 | 2 | 17% | 75% |
| 1937 | 1 | 0 | 1 | 59% | 1984 | 2 | 19% | 74% |
| 1938 | 2 | 0 | 2 | 100% | 1980 | 2 | 20% | 74% |
| 1939 | 1 | 0 | 1 | 24% | 1999 | 2 | 21% | 72% |
| 1940 | 1 | 0 | 1 | 62% | 1974 | 2 | 22% | 72% |
| 1941 | 2 | 0 | 2 | 93% | 1945 | 2 | 23% | 71% |
| 1942 | 2 | 0 | 2 | 87% | 1966 | 2 | 25% | 71% |
| 1943 | 2 | 0 | 2 | 69% | 1970 | 2 | 26% | 70% |
| 1944 | 0 | 0 | 0 | 22% | 1935 | 2 | 27% | 69% |
| 1945 | 2 | 0 | 2 | 71% | 1943 | 2 | 28% | 69% |
| 1946 | 1 | 0 | 1 | 46% | 1973 | 2 | 30% | 69% |
| 1947 | 1 | 0 | 1 | 47% | 1956 | 2 | 31% | 68% |
| 1948 | 1 | 0 | 1 | 52% | 2000 | 1 | 32% | 65% |
| 1949 | 0 | 0 | 0 | 19% | 1985 | 1 | 33% | 64% |
| 1950 | 1 | 0 | 1 | 56% | 1963 | 1 | 35% | 64% |
| 1951 | 2 | 0 | 2 | 75% | 1936 | 1 | 36% | 63% |
| 1952 | 2 | 0 | 2 | 100% | 1927 | 1 | 37% | 62% |
| 1953 | 1 | 0 | 1 | 46% | 1940 | 1 | 38% | 62% |
| 1954 | 1 | 0 | 1 | 59% | 1993 | 1 | 40% | 62% |
| 1955 | 1 | 0 | 1 | 30% | 1997 | 1 | 41% | 60% |
| 1956 | 2 | 0 | 2 | 68% | 1937 | 1 | 42% | 59% |
| 1957 | 1 | 0 | 1 | 56% | 1928 | 1 | 43% | 59% |
| 1958 | 2 | 0 | 2 | 92% | 1986 | 1 | 44% | 59% |
| 1959 | 1 | 0 | 1 | 46% | 1954 | 1 | 46% | 59% |
| 1960 | 1 | 0 | 1 | 29% | 1923 | 1 | 47% | 57% |
| 1961 | 1 | 0 | 1 | 40% | 1975 | 1 | 48% | 57% |
| 1962 | 1 | 0 | 1 | 50% | 1957 | 1 | 49% | 56% |
| 1963 | 1 | 0 | 1 | 64% | 1965 | 1 | 51% | 56% |
| 1964 | 1 | 0 | 1 | 43% | 1989 | 1 | 52% | 56% |
| 1965 | 1 | 0 | 1 | 56% | 1950 | 1 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 2 | 0 | 2 | 71% | 1948 | 1 | 54% | 52% |
| 1967 | 2 | 0 | 2 | 91% | 1962 | 1 | 56% | 50% |
| 1968 | 1 | 0 | 1 | 41% | 1979 | 1 | 57% | 47% |
| 1969 | 2 | 0 | 2 | 100% | 1947 | 1 | 58% | 47% |
| 1970 | 2 | 0 | 2 | 70% | 1953 | 1 | 59% | 46% |
| 1971 | 1 | 0 | 1 | 41% | 1946 | 1 | 60% | 46% |
| 1972 | 1 | 0 | 1 | 37% | 1959 | 1 | 62% | 46% |
| 1973 | 2 | 0 | 2 | 69% | 1964 | 1 | 63% | 43% |
| 1974 | 2 | 0 | 2 | 72% | 2002 | 1 | 64% | 43% |
| 1975 | 1 | 0 | 1 | 57% | 2003 | 1 | 65% | 42% |
| 1976 | 1 | 0 | 1 | 33% | 1968 | 1 | 67% | 41% |
| 1977 | 0 | 0 | 0 | 9% | 1971 | 1 | 68% | 41% |
| 1978 | 2 | 0 | 2 | 100% | 1961 | 1 | 69% | 40% |
| 1979 | 1 | 0 | 1 | 47% | 1933 | 1 | 70% | 38% |
| 1980 | 2 | 0 | 2 | 74% | 1972 | 1 | 72% | 37% |
| 1981 | 1 | 0 | 1 | 34% | 1981 | 1 | 73% | 34% |
| 1982 | 2 | 0 | 2 | 100% | 1976 | 1 | 74% | 33% |
| 1983 | 2 | 0 | 2 | 100% | 1925 | 1 | 75% | 30% |
| 1984 | 2 | 0 | 2 | 74% | 1955 | 1 | 77% | 30% |
| 1985 | 1 | 0 | 1 | 64% | 1960 | 1 | 78% | 29% |
| 1986 | 1 | 0 | 1 | 59% | 1931 | 1 | 79% | 28% |
| 1987 | 0 | 0 | 0 | 21% | 1926 | 1 | 80% | 25% |
| 1988 | 0 | 0 | 0 | 10% | 1939 | 1 | 81% | 24% |
| 1989 | 1 | 0 | 1 | 56% | 1929 | 1 | 83% | 22% |
| 1990 | 0 | 0 | 0 | 13% | 1944 | 0 | 84% | 22% |
| 1991 | 0 | 0 | 0 | 20% | 1987 | 0 | 85% | 21% |
| 1992 | 0 | 0 | 0 | 17% | 1930 | 0 | 86% | 20% |
| 1993 | 1 | 0 | 1 | 62% | 1991 | 0 | 88% | 20% |
| 1994 | 0 | 0 | 0 | 18% | 1949 | 0 | 89% | 19% |
| 1995 | 2 | 0 | 2 | 100% | 1994 | 0 | 90% | 18% |
| 1996 | 2 | 0 | 2 | 88% | 1992 | 0 | 91% | 17% |
| 1997 | 1 | 0 | 1 | 60% | 2001 | 0 | 93% | 16% |
| 1998 | 2 | 0 | 2 | 100% | 1924 | 0 | 94% | 13% |
| 1999 | 2 | 0 | 2 | 72% | 1932 | 0 | 95% | 13% |
| 2000 | 1 | 0 | 1 | 65% | 1990 | 0 | 96% | 13% |
| 2001 | 0 | 0 | 0 | 16% | 1934 | 0 | 98% | 11% |
| 2002 | 1 | 0 | 1 | 43% | 1988 | 0 | 99% | 10% |
| 2003 | 1 | 0 | 1 | 42% | 1977 | 0 | 100% | 9% |
| Average | 1 | 0 | 1 | 54% | | 1 | | 54% |
| Maximum | 2 | 0 | 2 | 100% | | 2 | | 100% |
| Minimum | 0 | 0 | 0 | 9% | | 0 | | 9% |

Table B-19. Metropolitan WDSC: Future Conditions

| SWP Table A Deliveries for 2019 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 | 1,324 | 0 | 1,324 | 70% | 1983 | 1,904 | 0% | 100% |
| 1923 | 1,026 | 143 | 1,170 | 61% | 1952 | 1,844 | 1% | 97% |
| 1924 | 243 | 66 | 309 | 16% | 1998 | 1,780 | 2% | 93% |
| 1925 | 541 | 13 | 554 | 29% | 1938 | 1,769 | 4% | 93% |
| 1926 | 458 | 30 | 488 | 26% | 1969 | 1,747 | 5% | 92% |
| 1927 | 1,114 | 25 | 1,139 | 60% | 1982 | 1,746 | 6% | 92% |
| 1928 | 1,060 | 71 | 1,132 | 59% | 1995 | 1,729 | 7% | 91% |
| 1929 | 406 | 68 | 473 | 25% | 1978 | 1,663 | 9% | 87% |
| 1930 | 370 | 22 | 393 | 21% | 1942 | 1,653 | 10% | 87% |
| 1931 | 595 | 18 | 613 | 32% | 1996 | 1,645 | 11% | 86% |
| 1932 | 230 | 8 | 239 | 13% | 1958 | 1,636 | 12% | 86% |
| 1933 | 688 | 13 | 700 | 37% | 1967 | 1,629 | 14% | 86% |
| 1934 | 200 | 33 | 233 | 12% | 1941 | 1,602 | 15% | 84% |
| 1935 | 1,212 | 11 | 1,223 | 64% | 1984 | 1,445 | 16% | 76% |
| 1936 | 1,131 | 7 | 1,138 | 60% | 1970 | 1,435 | 17% | 75% |
| 1937 | 1,066 | 58 | 1,123 | 59% | 1943 | 1,389 | 19% | 73% |
| 1938 | 1,712 | 58 | 1,769 | 93% | 1999 | 1,378 | 20% | 72% |
| 1939 | 427 | 200 | 627 | 33% | 1974 | 1,355 | 21% | 71% |
| 1940 | 1,123 | 12 | 1,136 | 60% | 1980 | 1,330 | 22% | 70% |
| 1941 | 1,596 | 7 | 1,602 | 84% | 1951 | 1,328 | 23% | 70% |
| 1942 | 1,490 | 162 | 1,653 | 87% | 1922 | 1,324 | 25% | 70% |
| 1943 | 1,215 | 174 | 1,389 | 73% | 1966 | 1,274 | 26% | 67% |
| 1944 | 392 | 98 | 491 | 26% | 1945 | 1,269 | 27% | 67% |
| 1945 | 1,251 | 18 | 1,269 | 67% | 1997 | 1,250 | 28% | 66% |
| 1946 | 828 | 111 | 939 | 49% | 1973 | 1,246 | 30% | 65% |
| 1947 | 845 | 36 | 881 | 46% | 2000 | 1,239 | 31% | 65% |
| 1948 | 938 | 7 | 945 | 50% | 1935 | 1,223 | 32% | 64% |
| 1949 | 344 | 52 | 396 | 21% | 1956 | 1,219 | 33% | 64% |
| 1950 | 998 | 19 | 1,017 | 53% | 1985 | 1,202 | 35% | 63% |
| 1951 | 1,299 | 29 | 1,328 | 70% | 1963 | 1,195 | 36% | 63% |
| 1952 | 1,712 | 133 | 1,844 | 97% | 1923 | 1,170 | 37% | 61% |
| 1953 | 837 | 200 | 1,037 | 54% | 1927 | 1,139 | 38% | 60% |
| 1954 | 1,055 | 46 | 1,101 | 58% | 1975 | 1,138 | 40% | 60% |
| 1955 | 539 | 67 | 606 | 32% | 1936 | 1,138 | 41% | 60% |
| 1956 | 1,206 | 13 | 1,219 | 64% | 1940 | 1,136 | 42% | 60% |
| 1957 | 1,013 | 95 | 1,108 | 58% | 1928 | 1,132 | 43% | 59% |
| 1958 | 1,571 | 65 | 1,636 | 86% | 1993 | 1,126 | 44% | 59% |
| 1959 | 824 | 184 | 1,008 | 53% | 1937 | 1,123 | 46% | 59% |
| 1960 | 523 | 8 | 531 | 28% | 1957 | 1,108 | 47% | 58% |
| 1961 | 730 | 29 | 759 | 40% | 1954 | 1,101 | 48% | 58% |
| 1962 | 898 | 40 | 938 | 49% | 1986 | 1,065 | 49% | 56% |
| 1963 | 1,146 | 50 | 1,195 | 63% | 1965 | 1,047 | 51% | 55% |
| 1964 | 782 | 75 | 856 | 45% | 1953 | 1,037 | 52% | 54% |
| 1965 | 1,004 | 43 | 1,047 | 55% | 1950 | 1,017 | 53% | 53% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 1,245 | 29 | 1,274 | 67% | 1959 | 1,008 | 54% | 53% |
| 1967 | 1,549 | 80 | 1,629 | 86% | 1989 | 970 | 56% | 51% |
| 1968 | 746 | 181 | 927 | 49% | 1948 | 945 | 57% | 50% |
| 1969 | 1,712 | 35 | 1,747 | 92% | 1946 | 939 | 58% | 49% |
| 1970 | 1,235 | 200 | 1,435 | 75% | 1962 | 938 | 59% | 49% |
| 1971 | 737 | 106 | 844 | 44% | 1968 | 927 | 60% | 49% |
| 1972 | 668 | 41 | 709 | 37% | 1947 | 881 | 62% | 46% |
| 1973 | 1,214 | 31 | 1,246 | 65% | 1979 | 863 | 63% | 45% |
| 1974 | 1,257 | 98 | 1,355 | 71% | 1964 | 856 | 64% | 45% |
| 1975 | 1,023 | 115 | 1,138 | 60% | 1971 | 844 | 65% | 44% |
| 1976 | 604 | 65 | 669 | 35% | 2003 | 811 | 67% | 43% |
| 1977 | 158 | 33 | 191 | 10% | 2002 | 792 | 68% | 42% |
| 1978 | 1,654 | 9 | 1,663 | 87% | 1961 | 759 | 69% | 40% |
| 1979 | 856 | 7 | 863 | 45% | 1981 | 747 | 70% | 39% |
| 1980 | 1,290 | 40 | 1,330 | 70% | 1972 | 709 | 72% | 37% |
| 1981 | 619 | 128 | 747 | 39% | 1933 | 700 | 73% | 37% |
| 1982 | 1,712 | 34 | 1,746 | 92% | 1976 | 669 | 74% | 35% |
| 1983 | 1,712 | 193 | 1,904 | 100% | 1939 | 627 | 75% | 33% |
| 1984 | 1,293 | 152 | 1,445 | 76% | 1931 | 613 | 77% | 32% |
| 1985 | 1,116 | 87 | 1,202 | 63% | 1955 | 606 | 78% | 32% |
| 1986 | 1,059 | 7 | 1,065 | 56% | 1925 | 554 | 79% | 29% |
| 1987 | 382 | 68 | 449 | 24% | 1960 | 531 | 80% | 28% |
| 1988 | 173 | 21 | 194 | 10% | 1944 | 491 | 81% | 26% |
| 1989 | 963 | 7 | 970 | 51% | 1926 | 488 | 83% | 26% |
| 1990 | 227 | 7 | 234 | 12% | 1929 | 473 | 84% | 25% |
| 1991 | 362 | 13 | 375 | 20% | 1987 | 449 | 85% | 24% |
| 1992 | 314 | 20 | 334 | 18% | 1949 | 396 | 86% | 21% |
| 1993 | 1,109 | 17 | 1,126 | 59% | 1930 | 393 | 88% | 21% |
| 1994 | 318 | 71 | 389 | 20% | 1994 | 389 | 89% | 20% |
| 1995 | 1,712 | 18 | 1,729 | 91% | 1991 | 375 | 90% | 20% |
| 1996 | 1,508 | 137 | 1,645 | 86% | 1992 | 334 | 91% | 18% |
| 1997 | 1,074 | 176 | 1,250 | 66% | 1924 | 309 | 93% | 16% |
| 1998 | 1,712 | 69 | 1,780 | 93% | 2001 | 295 | 94% | 16% |
| 1999 | 1,258 | 120 | 1,378 | 72% | 1932 | 239 | 95% | 13% |
| 2000 | 1,124 | 115 | 1,239 | 65% | 1990 | 234 | 96% | 12% |
| 2001 | 289 | 7 | 295 | 16% | 1934 | 233 | 98% | 12% |
| 2002 | 776 | 16 | 792 | 42% | 1988 | 194 | 99% | 10% |
| 2003 | 804 | 7 | 811 | 43% | 1977 | 191 | 100% | 10% |
| Average | 945 | 63 | 1,008 | 53% | | 1,008 | | 53% |
| Maximum | 1,712 | 200 | 1,904 | 100% | | 1,904 | | 100% |
| Minimum | 158 | 0 | 191 | 10% | | 191 | | 10% |

Table B-20. Mojave WA: Future Conditions

| SWP Table A Deliveries for 2019 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 | 39 | 0 | 39 | 54% | 1999 | 71 | 0% | 100% |
| 1923 | 35 | 27 | 62 | 88% | 1968 | 65 | 1% | 91% |
| 1924 | 11 | 14 | 25 | 35% | 1952 | 64 | 2% | 90% |
| 1925 | 24 | 1 | 25 | 35% | 1998 | 63 | 4% | 88% |
| 1926 | 20 | 2 | 22 | 31% | 1923 | 62 | 5% | 88% |
| 1927 | 38 | 2 | 40 | 56% | 2000 | 62 | 6% | 87% |
| 1928 | 36 | 15 | 51 | 72% | 1938 | 61 | 7% | 85% |
| 1929 | 18 | 15 | 32 | 45% | 1983 | 59 | 9% | 83% |
| 1930 | 16 | 1 | 18 | 25% | 1984 | 59 | 10% | 83% |
| 1931 | 26 | 1 | 28 | 39% | 1974 | 59 | 11% | 83% |
| 1932 | 10 | 0 | 11 | 15% | 1958 | 58 | 12% | 82% |
| 1933 | 29 | 1 | 30 | 42% | 1975 | 58 | 14% | 81% |
| 1934 | 9 | 1 | 10 | 14% | 1939 | 56 | 15% | 79% |
| 1935 | 39 | 1 | 40 | 56% | 1985 | 56 | 16% | 79% |
| 1936 | 39 | 0 | 39 | 55% | 1957 | 54 | 17% | 76% |
| 1937 | 36 | 3 | 39 | 55% | 1969 | 52 | 19% | 73% |
| 1938 | 48 | 12 | 61 | 85% | 1997 | 52 | 20% | 73% |
| 1939 | 19 | 38 | 56 | 79% | 1981 | 52 | 21% | 73% |
| 1940 | 39 | 1 | 40 | 56% | 1970 | 51 | 22% | 72% |
| 1941 | 45 | 0 | 45 | 63% | 1928 | 51 | 23% | 72% |
| 1942 | 42 | 7 | 49 | 69% | 1946 | 51 | 25% | 72% |
| 1943 | 39 | 9 | 48 | 68% | 1982 | 50 | 26% | 71% |
| 1944 | 17 | 20 | 37 | 52% | 1995 | 49 | 27% | 69% |
| 1945 | 39 | 1 | 40 | 57% | 1942 | 49 | 28% | 69% |
| 1946 | 34 | 17 | 51 | 72% | 1978 | 49 | 30% | 68% |
| 1947 | 35 | 4 | 39 | 55% | 1996 | 49 | 31% | 68% |
| 1948 | 39 | 0 | 39 | 55% | 1943 | 48 | 32% | 68% |
| 1949 | 15 | 6 | 21 | 29% | 1964 | 48 | 33% | 68% |
| 1950 | 34 | 1 | 35 | 49% | 1967 | 47 | 35% | 66% |
| 1951 | 39 | 6 | 45 | 63% | 1953 | 46 | 36% | 65% |
| 1952 | 48 | 16 | 64 | 90% | 1966 | 45 | 37% | 64% |
| 1953 | 35 | 12 | 46 | 65% | 1941 | 45 | 38% | 63% |
| 1954 | 36 | 5 | 41 | 58% | 1951 | 45 | 40% | 63% |
| 1955 | 24 | 14 | 38 | 54% | 1963 | 44 | 41% | 62% |
| 1956 | 39 | 1 | 40 | 56% | 1959 | 44 | 42% | 62% |
| 1957 | 35 | 19 | 54 | 76% | 2003 | 44 | 43% | 62% |
| 1958 | 44 | 14 | 58 | 82% | 1980 | 43 | 44% | 61% |
| 1959 | 34 | 10 | 44 | 62% | 1973 | 42 | 46% | 59% |
| 1960 | 23 | 0 | 23 | 33% | 1962 | 42 | 47% | 58% |
| 1961 | 30 | 2 | 32 | 45% | 1954 | 41 | 48% | 58% |
| 1962 | 37 | 4 | 42 | 58% | 1976 | 41 | 49% | 57% |
| 1963 | 39 | 5 | 44 | 62% | 1945 | 40 | 51% | 57% |
| 1964 | 32 | 16 | 48 | 68% | 1989 | 40 | 52% | 56% |
| 1965 | 34 | 5 | 39 | 55% | 1956 | 40 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 39 | 6 | 45 | 64% | 1935 | 40 | 54% | 56% |
| 1967 | 44 | 4 | 47 | 66% | 1940 | 40 | 56% | 56% |
| 1968 | 31 | 34 | 65 | 91% | 1927 | 40 | 57% | 56% |
| 1969 | 48 | 4 | 52 | 73% | 1948 | 39 | 58% | 55% |
| 1970 | 39 | 12 | 51 | 72% | 1965 | 39 | 59% | 55% |
| 1971 | 30 | 8 | 39 | 54% | 1937 | 39 | 60% | 55% |
| 1972 | 28 | 4 | 32 | 46% | 1947 | 39 | 62% | 55% |
| 1973 | 39 | 3 | 42 | 59% | 1936 | 39 | 63% | 55% |
| 1974 | 39 | 20 | 59 | 83% | 1993 | 39 | 64% | 55% |
| 1975 | 35 | 23 | 58 | 81% | 1971 | 39 | 65% | 54% |
| 1976 | 27 | 14 | 41 | 57% | 1922 | 39 | 67% | 54% |
| 1977 | 7 | 2 | 9 | 13% | 1955 | 38 | 68% | 54% |
| 1978 | 48 | 1 | 49 | 68% | 1944 | 37 | 69% | 52% |
| 1979 | 35 | 0 | 36 | 50% | 1986 | 36 | 70% | 51% |
| 1980 | 39 | 4 | 43 | 61% | 1979 | 36 | 72% | 50% |
| 1981 | 27 | 25 | 52 | 73% | 1950 | 35 | 73% | 49% |
| 1982 | 48 | 2 | 50 | 71% | 2002 | 33 | 74% | 46% |
| 1983 | 48 | 11 | 59 | 83% | 1972 | 32 | 75% | 46% |
| 1984 | 39 | 20 | 59 | 83% | 1929 | 32 | 77% | 45% |
| 1985 | 39 | 17 | 56 | 79% | 1961 | 32 | 78% | 45% |
| 1986 | 36 | 0 | 36 | 51% | 1987 | 31 | 79% | 44% |
| 1987 | 17 | 14 | 31 | 44% | 1933 | 30 | 80% | 42% |
| 1988 | 8 | 1 | 9 | 13% | 1994 | 29 | 81% | 41% |
| 1989 | 40 | 0 | 40 | 56% | 1931 | 28 | 83% | 39% |
| 1990 | 10 | 0 | 10 | 14% | 1924 | 25 | 84% | 35% |
| 1991 | 16 | 1 | 17 | 23% | 1925 | 25 | 85% | 35% |
| 1992 | 14 | 1 | 15 | 21% | 1960 | 23 | 86% | 33% |
| 1993 | 38 | 1 | 39 | 55% | 1926 | 22 | 88% | 31% |
| 1994 | 14 | 15 | 29 | 41% | 1949 | 21 | 89% | 29% |
| 1995 | 48 | 1 | 49 | 69% | 1930 | 18 | 90% | 25% |
| 1996 | 42 | 6 | 49 | 68% | 1991 | 17 | 91% | 23% |
| 1997 | 37 | 15 | 52 | 73% | 1992 | 15 | 93% | 21% |
| 1998 | 48 | 15 | 63 | 88% | 2001 | 13 | 94% | 18% |
| 1999 | 39 | 32 | 71 | 100% | 1932 | 11 | 95% | 15% |
| 2000 | 39 | 23 | 62 | 87% | 1990 | 10 | 96% | 14% |
| 2001 | 13 | 0 | 13 | 18% | 1934 | 10 | 98% | 14% |
| 2002 | 32 | 1 | 33 | 46% | 1977 | 9 | 99% | 13% |
| 2003 | 43 | 0 | 44 | 62% | 1988 | 9 | 100% | 13% |
| Average | 32 | 8 | 41 | 57% | | 41 | | 57% |
| Maximum | 48 | 38 | 71 | 100% | | 71 | | 100% |
| Minimum | 7 | 0 | 9 | 13% | | 9 | | 13% |

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

| SWP Table A Deliveries for 2019 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% | 1942 | 29 | 0% | 100% |
| 1923 | 17 | 11 | 28 | 96% | 1943 | 29 | 0% | 100% |
| 1924 | 8 | 11 | 19 | 64% | 1952 | 29 | 0% | 100% |
| 1925 | 14 | 2 | 15 | 53% | 1953 | 29 | 0% | 100% |
| 1926 | 14 | 6 | 20 | 68% | 1970 | 29 | 0% | 100% |
| 1927 | 18 | 6 | 24 | 81% | 1971 | 29 | 0% | 100% |
| 1928 | 18 | 11 | 29 | 99% | 1975 | 29 | 0% | 100% |
| 1929 | 8 | 11 | 19 | 66% | 1983 | 29 | 0% | 100% |
| 1930 | 14 | 2 | 15 | 53% | 1984 | 29 | 0% | 100% |
| 1931 | 8 | 6 | 14 | 48% | 1996 | 29 | 0% | 100% |
| 1932 | 14 | 2 | 15 | 53% | 1997 | 29 | 0% | 100% |
| 1933 | 8 | 6 | 14 | 48% | 1998 | 29 | 0% | 100% |
| 1934 | 8 | 2 | 10 | 33% | 1999 | 29 | 0% | 100% |
| 1935 | 17 | 2 | 18 | 63% | 1941 | 29 | 16% | 100% |
| 1936 | 17 | 11 | 27 | 94% | 1974 | 29 | 16% | 100% |
| 1937 | 17 | 11 | 27 | 94% | 1928 | 29 | 19% | 99% |
| 1938 | 18 | 11 | 28 | 98% | 1954 | 29 | 19% | 99% |
| 1939 | 14 | 11 | 25 | 87% | 2000 | 29 | 19% | 99% |
| 1940 | 18 | 6 | 23 | 81% | 1938 | 28 | 22% | 98% |
| 1941 | 18 | 11 | 29 | 100% | 1951 | 28 | 22% | 98% |
| 1942 | 18 | 11 | 29 | 100% | 1958 | 28 | 22% | 98% |
| 1943 | 18 | 11 | 29 | 100% | 1963 | 28 | 22% | 98% |
| 1944 | 14 | 11 | 25 | 87% | 1967 | 28 | 22% | 98% |
| 1945 | 17 | 6 | 23 | 78% | 1969 | 28 | 22% | 98% |
| 1946 | 17 | 11 | 27 | 94% | 1973 | 28 | 30% | 97% |
| 1947 | 14 | 11 | 25 | 84% | 1980 | 28 | 30% | 97% |
| 1948 | 17 | 6 | 23 | 78% | 1957 | 28 | 32% | 96% |
| 1949 | 14 | 11 | 25 | 84% | 1959 | 28 | 32% | 96% |
| 1950 | 17 | 6 | 23 | 78% | 1966 | 28 | 32% | 96% |
| 1951 | 18 | 11 | 28 | 98% | 1968 | 28 | 32% | 96% |
| 1952 | 18 | 11 | 29 | 100% | 1972 | 28 | 32% | 96% |
| 1953 | 18 | 11 | 29 | 100% | 1923 | 28 | 38% | 96% |
| 1954 | 18 | 11 | 29 | 99% | 1979 | 28 | 38% | 96% |
| 1955 | 14 | 11 | 25 | 86% | 1936 | 27 | 41% | 94% |
| 1956 | 18 | 6 | 24 | 81% | 1937 | 27 | 41% | 94% |
| 1957 | 17 | 11 | 28 | 96% | 1946 | 27 | 41% | 94% |
| 1958 | 18 | 11 | 28 | 98% | 1939 | 25 | 44% | 87% |
| 1959 | 17 | 11 | 28 | 96% | 1944 | 25 | 44% | 87% |
| 1960 | 14 | 11 | 25 | 84% | 1964 | 25 | 44% | 87% |
| 1961 | 14 | 6 | 20 | 68% | 1985 | 25 | 44% | 87% |
| 1962 | 17 | 6 | 23 | 78% | 1987 | 25 | 44% | 87% |
| 1963 | 18 | 11 | 28 | 98% | 1955 | 25 | 51% | 86% |
| 1964 | 14 | 11 | 25 | 87% | 1981 | 25 | 51% | 86% |
| 1965 | 18 | 6 | 24 | 81% | 2001 | 25 | 51% | 86% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 17 | 11 | 28 | 96% | 1947 | 25 | 54% | 84% |
| 1967 | 18 | 11 | 28 | 98% | 1949 | 25 | 54% | 84% |
| 1968 | 17 | 11 | 28 | 96% | 1960 | 25 | 54% | 84% |
| 1969 | 18 | 11 | 28 | 98% | 1927 | 24 | 58% | 81% |
| 1970 | 18 | 11 | 29 | 100% | 1956 | 24 | 58% | 81% |
| 1971 | 18 | 11 | 29 | 100% | 1965 | 24 | 58% | 81% |
| 1972 | 17 | 11 | 28 | 96% | 1982 | 24 | 58% | 81% |
| 1973 | 18 | 11 | 28 | 97% | 1986 | 24 | 58% | 81% |
| 1974 | 18 | 11 | 29 | 100% | 1940 | 23 | 64% | 81% |
| 1975 | 18 | 11 | 29 | 100% | 2003 | 23 | 65% | 80% |
| 1976 | 8 | 11 | 19 | 67% | 1945 | 23 | 67% | 78% |
| 1977 | 8 | 2 | 10 | 33% | 1948 | 23 | 67% | 78% |
| 1978 | 18 | 2 | 19 | 66% | 1950 | 23 | 67% | 78% |
| 1979 | 17 | 11 | 28 | 96% | 1962 | 23 | 67% | 78% |
| 1980 | 18 | 11 | 28 | 97% | 1926 | 20 | 72% | 68% |
| 1981 | 14 | 11 | 25 | 86% | 1961 | 20 | 72% | 68% |
| 1982 | 18 | 6 | 24 | 81% | 2002 | 20 | 72% | 68% |
| 1983 | 18 | 11 | 29 | 100% | 1976 | 19 | 75% | 67% |
| 1984 | 18 | 11 | 29 | 100% | 1929 | 19 | 77% | 66% |
| 1985 | 14 | 11 | 25 | 87% | 1994 | 19 | 77% | 66% |
| 1986 | 18 | 6 | 24 | 81% | 1995 | 19 | 79% | 66% |
| 1987 | 14 | 11 | 25 | 87% | 1978 | 19 | 80% | 66% |
| 1988 | 8 | 6 | 14 | 48% | 1993 | 19 | 80% | 66% |
| 1989 | 14 | 2 | 15 | 53% | 1924 | 19 | 83% | 64% |
| 1990 | 8 | 6 | 14 | 48% | 1935 | 18 | 84% | 63% |
| 1991 | 8 | 2 | 10 | 33% | 1922 | 18 | 85% | 60% |
| 1992 | 8 | 2 | 10 | 33% | 1925 | 15 | 86% | 53% |
| 1993 | 18 | 2 | 19 | 66% | 1930 | 15 | 86% | 53% |
| 1994 | 8 | 11 | 19 | 66% | 1932 | 15 | 86% | 53% |
| 1995 | 18 | 2 | 19 | 66% | 1989 | 15 | 86% | 53% |
| 1996 | 18 | 11 | 29 | 100% | 1931 | 14 | 91% | 48% |
| 1997 | 18 | 11 | 29 | 100% | 1933 | 14 | 91% | 48% |
| 1998 | 18 | 11 | 29 | 100% | 1988 | 14 | 91% | 48% |
| 1999 | 18 | 11 | 29 | 100% | 1990 | 14 | 91% | 48% |
| 2000 | 18 | 11 | 29 | 99% | 1934 | 10 | 96% | 33% |
| 2001 | 14 | 11 | 25 | 86% | 1977 | 10 | 96% | 33% |
| 2002 | 14 | 6 | 20 | 68% | 1991 | 10 | 96% | 33% |
| 2003 | 17 | 6 | 23 | 80% | 1992 | 10 | 96% | 33% |
| Average | 15 | 8 | 24 | 81% | | 24 | | 81% |
| 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 2019 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 | 50% | 1999 | 5 | 0% | 100% |
| 1923 | 2 | 2 | 4 | 89% | 1968 | 4 | 1% | 90% |
| 1924 | 1 | 1 | 2 | 32% | 1923 | 4 | 2% | 89% |
| 1925 | 2 | 0 | 2 | 33% | 2000 | 4 | 4% | 86% |
| 1926 | 1 | 0 | 1 | 30% | 1952 | 4 | 5% | 82% |
| 1927 | 3 | 0 | 3 | 56% | 1939 | 4 | 6% | 81% |
| 1928 | 2 | 1 | 3 | 70% | 1975 | 4 | 7% | 81% |
| 1929 | 1 | 1 | 2 | 41% | 1984 | 4 | 9% | 80% |
| 1930 | 1 | 0 | 1 | 24% | 1998 | 4 | 10% | 80% |
| 1931 | 2 | 0 | 2 | 35% | 1974 | 4 | 11% | 79% |
| 1932 | 1 | 0 | 1 | 14% | 1938 | 4 | 12% | 77% |
| 1933 | 2 | 0 | 2 | 39% | 1983 | 4 | 14% | 76% |
| 1934 | 1 | 0 | 1 | 13% | 1957 | 4 | 15% | 75% |
| 1935 | 3 | 0 | 3 | 55% | 1958 | 4 | 16% | 74% |
| 1936 | 3 | 0 | 3 | 55% | 1997 | 4 | 17% | 72% |
| 1937 | 2 | 0 | 3 | 55% | 1981 | 3 | 19% | 72% |
| 1938 | 3 | 1 | 4 | 77% | 1928 | 3 | 20% | 70% |
| 1939 | 1 | 3 | 4 | 81% | 1970 | 3 | 21% | 70% |
| 1940 | 3 | 0 | 3 | 55% | 1969 | 3 | 22% | 69% |
| 1941 | 3 | 0 | 3 | 57% | 1985 | 3 | 23% | 68% |
| 1942 | 3 | 0 | 3 | 63% | 1946 | 3 | 25% | 67% |
| 1943 | 3 | 1 | 3 | 66% | 1943 | 3 | 26% | 66% |
| 1944 | 1 | 1 | 2 | 50% | 1982 | 3 | 27% | 65% |
| 1945 | 3 | 0 | 3 | 55% | 1963 | 3 | 28% | 65% |
| 1946 | 2 | 1 | 3 | 67% | 1942 | 3 | 30% | 63% |
| 1947 | 2 | 0 | 3 | 54% | 1995 | 3 | 31% | 63% |
| 1948 | 2 | 0 | 2 | 50% | 1996 | 3 | 32% | 62% |
| 1949 | 1 | 1 | 2 | 31% | 1978 | 3 | 33% | 62% |
| 1950 | 2 | 0 | 2 | 50% | 1964 | 3 | 35% | 62% |
| 1951 | 2 | 0 | 3 | 59% | 1966 | 3 | 36% | 61% |
| 1952 | 3 | 1 | 4 | 82% | 1953 | 3 | 37% | 61% |
| 1953 | 2 | 1 | 3 | 61% | 1954 | 3 | 38% | 60% |
| 1954 | 2 | 0 | 3 | 60% | 1967 | 3 | 40% | 60% |
| 1955 | 2 | 1 | 2 | 50% | 1980 | 3 | 41% | 60% |
| 1956 | 3 | 0 | 3 | 55% | 1973 | 3 | 42% | 60% |
| 1957 | 2 | 1 | 4 | 75% | 1951 | 3 | 43% | 59% |
| 1958 | 3 | 1 | 4 | 74% | 1959 | 3 | 44% | 58% |
| 1959 | 2 | 1 | 3 | 58% | 1941 | 3 | 46% | 57% |
| 1960 | 2 | 0 | 2 | 32% | 1965 | 3 | 47% | 57% |
| 1961 | 2 | 0 | 2 | 41% | 1962 | 3 | 48% | 56% |
| 1962 | 2 | 0 | 3 | 56% | 1927 | 3 | 49% | 56% |
| 1963 | 3 | 1 | 3 | 65% | 1940 | 3 | 51% | 55% |
| 1964 | 2 | 1 | 3 | 62% | 1956 | 3 | 52% | 55% |
| 1965 | 2 | 0 | 3 | 57% | 1993 | 3 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 3 | 0 | 3 | 61% | 1936 | 3 | 54% | 55% |
| 1967 | 3 | 0 | 3 | 60% | 1935 | 3 | 56% | 55% |
| 1968 | 2 | 2 | 4 | 90% | 1937 | 3 | 57% | 55% |
| 1969 | 3 | 0 | 3 | 69% | 1945 | 3 | 58% | 55% |
| 1970 | 3 | 1 | 3 | 70% | 1947 | 3 | 59% | 54% |
| 1971 | 2 | 1 | 2 | 50% | 1976 | 3 | 60% | 54% |
| 1972 | 2 | 0 | 2 | 45% | 1986 | 2 | 62% | 51% |
| 1973 | 3 | 0 | 3 | 60% | 1989 | 2 | 63% | 51% |
| 1974 | 3 | 1 | 4 | 79% | 1944 | 2 | 64% | 50% |
| 1975 | 2 | 2 | 4 | 81% | 1955 | 2 | 65% | 50% |
| 1976 | 2 | 1 | 3 | 54% | 1971 | 2 | 67% | 50% |
| 1977 | 0 | 0 | 1 | 13% | 1948 | 2 | 68% | 50% |
| 1978 | 3 | 0 | 3 | 62% | 1922 | 2 | 69% | 50% |
| 1979 | 2 | 0 | 2 | 46% | 1950 | 2 | 70% | 50% |
| 1980 | 2 | 0 | 3 | 60% | 1979 | 2 | 72% | 46% |
| 1981 | 2 | 2 | 3 | 72% | 1972 | 2 | 73% | 45% |
| 1982 | 3 | 0 | 3 | 65% | 1961 | 2 | 74% | 41% |
| 1983 | 3 | 1 | 4 | 76% | 1987 | 2 | 75% | 41% |
| 1984 | 2 | 1 | 4 | 80% | 1929 | 2 | 77% | 41% |
| 1985 | 2 | 1 | 3 | 68% | 2002 | 2 | 78% | 39% |
| 1986 | 2 | 0 | 2 | 51% | 1933 | 2 | 79% | 39% |
| 1987 | 1 | 1 | 2 | 41% | 1994 | 2 | 80% | 38% |
| 1988 | 1 | 0 | 1 | 12% | 1931 | 2 | 81% | 35% |
| 1989 | 2 | 0 | 2 | 51% | 2003 | 2 | 83% | 35% |
| 1990 | 1 | 0 | 1 | 14% | 1925 | 2 | 84% | 33% |
| 1991 | 1 | 0 | 1 | 23% | 1924 | 2 | 85% | 32% |
| 1992 | 1 | 0 | 1 | 21% | 1960 | 2 | 86% | 32% |
| 1993 | 3 | 0 | 3 | 55% | 1949 | 2 | 88% | 31% |
| 1994 | 1 | 1 | 2 | 38% | 1926 | 1 | 89% | 30% |
| 1995 | 3 | 0 | 3 | 63% | 1930 | 1 | 90% | 24% |
| 1996 | 3 | 0 | 3 | 62% | 1991 | 1 | 91% | 23% |
| 1997 | 3 | 1 | 4 | 72% | 1992 | 1 | 93% | 21% |
| 1998 | 3 | 1 | 4 | 80% | 2001 | 1 | 94% | 18% |
| 1999 | 3 | 2 | 5 | 100% | 1932 | 1 | 95% | 14% |
| 2000 | 3 | 2 | 4 | 86% | 1990 | 1 | 96% | 14% |
| 2001 | 1 | 0 | 1 | 18% | 1934 | 1 | 98% | 13% |
| 2002 | 2 | 0 | 2 | 39% | 1977 | 1 | 99% | 13% |
| 2003 | 2 | 0 | 2 | 35% | 1988 | 1 | 100% | 12% |
| Average | 2 | 1 | 3 | 54% | | 3 | | 54% |
| Maximum | 3 | 3 | 5 | 100% | | 5 | | 100% |
| Minimum | 0 | 0 | 1 | 12% | | 1 | | 12% |

Table B-23. Palmdale WD: Future Conditions

| SWP Table A Deliveries for 2019 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 | 16 | 0 | 16 | 74% | 1938 | 21 | 0% | 100% |
| 1923 | 10 | 1 | 10 | 48% | 1969 | 21 | 0% | 100% |
| 1924 | 3 | 2 | 5 | 24% | 1978 | 21 | 0% | 100% |
| 1925 | 6 | 0 | 6 | 29% | 1958 | 21 | 0% | 100% |
| 1926 | 5 | 0 | 5 | 26% | 1982 | 21 | 0% | 100% |
| 1927 | 11 | 0 | 11 | 51% | 1983 | 21 | 0% | 100% |
| 1928 | 10 | 3 | 13 | 60% | 1995 | 21 | 0% | 100% |
| 1929 | 4 | 3 | 7 | 33% | 1998 | 21 | 0% | 100% |
| 1930 | 4 | 0 | 4 | 21% | 1952 | 21 | 0% | 100% |
| 1931 | 5 | 0 | 5 | 24% | 1967 | 20 | 11% | 95% |
| 1932 | 3 | 0 | 3 | 12% | 1941 | 20 | 12% | 94% |
| 1933 | 7 | 0 | 8 | 36% | 1996 | 19 | 14% | 88% |
| 1934 | 2 | 0 | 3 | 12% | 1942 | 19 | 15% | 87% |
| 1935 | 13 | 0 | 13 | 61% | 1951 | 16 | 16% | 76% |
| 1936 | 11 | 0 | 11 | 51% | 1974 | 16 | 17% | 74% |
| 1937 | 10 | 1 | 11 | 51% | 1922 | 16 | 19% | 74% |
| 1938 | 19 | 2 | 21 | 100% | 1980 | 16 | 20% | 73% |
| 1939 | 5 | 0 | 5 | 22% | 1984 | 15 | 21% | 70% |
| 1940 | 10 | 0 | 11 | 50% | 1966 | 15 | 22% | 68% |
| 1941 | 20 | 0 | 20 | 94% | 1999 | 14 | 23% | 65% |
| 1942 | 19 | 0 | 19 | 87% | 1945 | 14 | 25% | 65% |
| 1943 | 13 | 0 | 13 | 60% | 1970 | 13 | 26% | 62% |
| 1944 | 4 | 2 | 6 | 29% | 1973 | 13 | 27% | 62% |
| 1945 | 14 | 0 | 14 | 65% | 1935 | 13 | 28% | 61% |
| 1946 | 9 | 2 | 10 | 49% | 1928 | 13 | 30% | 60% |
| 1947 | 9 | 1 | 10 | 47% | 1943 | 13 | 31% | 60% |
| 1948 | 10 | 0 | 10 | 48% | 1956 | 13 | 32% | 59% |
| 1949 | 4 | 1 | 5 | 22% | 2000 | 13 | 33% | 59% |
| 1950 | 9 | 0 | 10 | 46% | 1963 | 12 | 35% | 56% |
| 1951 | 15 | 1 | 16 | 76% | 1957 | 12 | 36% | 55% |
| 1952 | 20 | 1 | 21 | 100% | 1985 | 12 | 37% | 54% |
| 1953 | 9 | 0 | 9 | 42% | 1975 | 11 | 38% | 52% |
| 1954 | 10 | 1 | 11 | 51% | 1964 | 11 | 40% | 52% |
| 1955 | 6 | 2 | 8 | 40% | 1927 | 11 | 41% | 51% |
| 1956 | 12 | 0 | 13 | 59% | 1954 | 11 | 42% | 51% |
| 1957 | 10 | 2 | 12 | 55% | 1936 | 11 | 43% | 51% |
| 1958 | 19 | 2 | 21 | 100% | 1937 | 11 | 44% | 51% |
| 1959 | 9 | 0 | 9 | 41% | 1993 | 11 | 46% | 50% |
| 1960 | 6 | 0 | 6 | 28% | 1940 | 11 | 47% | 50% |
| 1961 | 8 | 0 | 8 | 38% | 1946 | 10 | 48% | 49% |
| 1962 | 10 | 1 | 10 | 49% | 1962 | 10 | 49% | 49% |
| 1963 | 11 | 1 | 12 | 56% | 1965 | 10 | 51% | 49% |
| 1964 | 8 | 3 | 11 | 52% | 1923 | 10 | 52% | 48% |
| 1965 | 10 | 1 | 10 | 49% | 1997 | 10 | 53% | 48% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 13 | 1 | 15 | 68% | 1948 | 10 | 54% | 48% |
| 1967 | 19 | 1 | 20 | 95% | 1986 | 10 | 56% | 48% |
| 1968 | 8 | 0 | 8 | 38% | 1947 | 10 | 57% | 47% |
| 1969 | 21 | 1 | 21 | 100% | 1950 | 10 | 58% | 46% |
| 1970 | 13 | 0 | 13 | 62% | 1971 | 10 | 59% | 45% |
| 1971 | 8 | 2 | 10 | 45% | 1979 | 9 | 60% | 43% |
| 1972 | 7 | 1 | 8 | 37% | 1976 | 9 | 62% | 43% |
| 1973 | 13 | 1 | 13 | 62% | 1953 | 9 | 63% | 42% |
| 1974 | 14 | 2 | 16 | 74% | 1959 | 9 | 64% | 41% |
| 1975 | 10 | 1 | 11 | 52% | 1989 | 9 | 65% | 41% |
| 1976 | 7 | 2 | 9 | 43% | 2002 | 9 | 67% | 40% |
| 1977 | 2 | 0 | 2 | 10% | 1955 | 8 | 68% | 40% |
| 1978 | 21 | 0 | 21 | 100% | 2003 | 8 | 69% | 39% |
| 1979 | 9 | 0 | 9 | 43% | 1961 | 8 | 70% | 38% |
| 1980 | 15 | 1 | 16 | 73% | 1968 | 8 | 72% | 38% |
| 1981 | 7 | 1 | 8 | 37% | 1972 | 8 | 73% | 37% |
| 1982 | 21 | 0 | 21 | 100% | 1981 | 8 | 74% | 37% |
| 1983 | 21 | 0 | 21 | 100% | 1933 | 8 | 75% | 36% |
| 1984 | 15 | 0 | 15 | 70% | 1929 | 7 | 77% | 33% |
| 1985 | 11 | 1 | 12 | 54% | 1987 | 7 | 78% | 31% |
| 1986 | 10 | 0 | 10 | 48% | 1944 | 6 | 79% | 29% |
| 1987 | 4 | 2 | 7 | 31% | 1925 | 6 | 80% | 29% |
| 1988 | 2 | 0 | 2 | 10% | 1994 | 6 | 81% | 29% |
| 1989 | 9 | 0 | 9 | 41% | 1960 | 6 | 83% | 28% |
| 1990 | 3 | 0 | 3 | 12% | 1926 | 5 | 84% | 26% |
| 1991 | 4 | 0 | 4 | 20% | 1931 | 5 | 85% | 24% |
| 1992 | 3 | 0 | 4 | 18% | 1924 | 5 | 86% | 24% |
| 1993 | 11 | 0 | 11 | 50% | 1949 | 5 | 88% | 22% |
| 1994 | 4 | 3 | 6 | 29% | 1939 | 5 | 89% | 22% |
| 1995 | 21 | 0 | 21 | 100% | 1930 | 4 | 90% | 21% |
| 1996 | 19 | 0 | 19 | 88% | 1991 | 4 | 91% | 20% |
| 1997 | 10 | 0 | 10 | 48% | 1992 | 4 | 93% | 18% |
| 1998 | 19 | 3 | 21 | 100% | 2001 | 3 | 94% | 15% |
| 1999 | 14 | 0 | 14 | 65% | 1932 | 3 | 95% | 12% |
| 2000 | 11 | 1 | 13 | 59% | 1990 | 3 | 96% | 12% |
| 2001 | 3 | 0 | 3 | 15% | 1934 | 3 | 98% | 12% |
| 2002 | 8 | 0 | 9 | 40% | 1988 | 2 | 99% | 10% |
| 2003 | 8 | 0 | 8 | 39% | 1977 | 2 | 100% | 10% |
| Average | 10 | 1 | 11 | 52% | | 11 | | 52% |
| Maximum | 21 | 3 | 21 | 100% | | 21 | | 100% |
| Minimum | 2 | 0 | 2 | 10% | | 2 | | 10% |

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

| SWP Table A Deliveries for 2019 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 | 72 | 0 | 72 | 70% | 1983 | 102 | 0% | 100% |
| 1923 | 55 | 7 | 62 | 61% | 1952 | 99 | 1% | 97% |
| 1924 | 13 | 3 | 17 | 16% | 1998 | 96 | 2% | 94% |
| 1925 | 30 | 0 | 30 | 29% | 1938 | 96 | 4% | 93% |
| 1926 | 25 | 1 | 26 | 25% | 1969 | 94 | 5% | 92% |
| 1927 | 60 | 1 | 61 | 59% | 1982 | 94 | 6% | 92% |
| 1928 | 57 | 4 | 61 | 59% | 1995 | 93 | 7% | 91% |
| 1929 | 22 | 4 | 26 | 25% | 1978 | 93 | 9% | 91% |
| 1930 | 20 | 1 | 21 | 21% | 1942 | 89 | 10% | 87% |
| 1931 | 33 | 1 | 34 | 33% | 1996 | 89 | 11% | 87% |
| 1932 | 13 | 0 | 13 | 13% | 1958 | 88 | 12% | 86% |
| 1933 | 37 | 0 | 38 | 37% | 1967 | 88 | 14% | 86% |
| 1934 | 11 | 2 | 13 | 12% | 1941 | 87 | 15% | 85% |
| 1935 | 66 | 0 | 66 | 65% | 1984 | 78 | 16% | 76% |
| 1936 | 61 | 0 | 61 | 60% | 1970 | 77 | 17% | 75% |
| 1937 | 57 | 3 | 60 | 59% | 1999 | 76 | 19% | 75% |
| 1938 | 93 | 3 | 96 | 93% | 1943 | 74 | 20% | 72% |
| 1939 | 24 | 10 | 34 | 33% | 1974 | 73 | 21% | 71% |
| 1940 | 62 | 1 | 63 | 62% | 1951 | 72 | 22% | 70% |
| 1941 | 86 | 0 | 87 | 85% | 1980 | 72 | 23% | 70% |
| 1942 | 81 | 9 | 89 | 87% | 1922 | 72 | 25% | 70% |
| 1943 | 65 | 9 | 74 | 72% | 1966 | 69 | 26% | 67% |
| 1944 | 22 | 5 | 27 | 26% | 2000 | 68 | 27% | 67% |
| 1945 | 67 | 1 | 68 | 66% | 1945 | 68 | 28% | 66% |
| 1946 | 45 | 6 | 50 | 49% | 1973 | 67 | 30% | 65% |
| 1947 | 46 | 2 | 48 | 47% | 1997 | 67 | 31% | 65% |
| 1948 | 51 | 0 | 51 | 50% | 1985 | 66 | 32% | 65% |
| 1949 | 19 | 3 | 22 | 21% | 1935 | 66 | 33% | 65% |
| 1950 | 54 | 1 | 54 | 53% | 1956 | 65 | 35% | 64% |
| 1951 | 70 | 1 | 72 | 70% | 1963 | 64 | 36% | 63% |
| 1952 | 93 | 7 | 99 | 97% | 1940 | 63 | 37% | 62% |
| 1953 | 45 | 10 | 55 | 54% | 1923 | 62 | 38% | 61% |
| 1954 | 57 | 2 | 59 | 58% | 1936 | 61 | 40% | 60% |
| 1955 | 30 | 3 | 33 | 32% | 1975 | 61 | 41% | 59% |
| 1956 | 65 | 0 | 65 | 64% | 1928 | 61 | 42% | 59% |
| 1957 | 55 | 5 | 59 | 58% | 1927 | 61 | 43% | 59% |
| 1958 | 85 | 3 | 88 | 86% | 1937 | 60 | 44% | 59% |
| 1959 | 44 | 9 | 54 | 52% | 1993 | 60 | 46% | 59% |
| 1960 | 29 | 0 | 29 | 29% | 1957 | 59 | 47% | 58% |
| 1961 | 39 | 1 | 40 | 39% | 1989 | 59 | 48% | 58% |
| 1962 | 48 | 2 | 50 | 49% | 1954 | 59 | 49% | 58% |
| 1963 | 62 | 2 | 64 | 63% | 2003 | 58 | 51% | 56% |
| 1964 | 42 | 4 | 46 | 45% | 1986 | 57 | 52% | 56% |
| 1965 | 54 | 2 | 56 | 55% | 1965 | 56 | 53% | 55% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 67 | 1 | 69 | 67% | 1953 | 55 | 54% | 54% |
| 1967 | 84 | 4 | 88 | 86% | 1950 | 54 | 56% | 53% |
| 1968 | 40 | 9 | 49 | 48% | 1959 | 54 | 57% | 52% |
| 1969 | 93 | 2 | 94 | 92% | 1948 | 51 | 58% | 50% |
| 1970 | 67 | 10 | 77 | 75% | 1962 | 50 | 59% | 49% |
| 1971 | 40 | 5 | 45 | 44% | 1946 | 50 | 60% | 49% |
| 1972 | 36 | 2 | 38 | 37% | 1968 | 49 | 62% | 48% |
| 1973 | 65 | 1 | 67 | 65% | 1947 | 48 | 63% | 47% |
| 1974 | 68 | 5 | 73 | 71% | 1979 | 47 | 64% | 45% |
| 1975 | 55 | 6 | 61 | 59% | 1964 | 46 | 65% | 45% |
| 1976 | 33 | 3 | 37 | 36% | 1971 | 45 | 67% | 44% |
| 1977 | 9 | 1 | 10 | 9% | 2002 | 42 | 68% | 41% |
| 1978 | 93 | 0 | 93 | 91% | 1981 | 40 | 69% | 39% |
| 1979 | 46 | 0 | 47 | 45% | 1961 | 40 | 70% | 39% |
| 1980 | 70 | 2 | 72 | 70% | 1972 | 38 | 72% | 37% |
| 1981 | 34 | 6 | 40 | 39% | 1933 | 38 | 73% | 37% |
| 1982 | 93 | 1 | 94 | 92% | 1976 | 37 | 74% | 36% |
| 1983 | 93 | 10 | 102 | 100% | 1931 | 34 | 75% | 33% |
| 1984 | 70 | 8 | 78 | 76% | 1939 | 34 | 77% | 33% |
| 1985 | 62 | 4 | 66 | 65% | 1955 | 33 | 78% | 32% |
| 1986 | 57 | 0 | 57 | 56% | 1925 | 30 | 79% | 29% |
| 1987 | 21 | 3 | 25 | 24% | 1960 | 29 | 80% | 29% |
| 1988 | 10 | 1 | 10 | 10% | 1944 | 27 | 81% | 26% |
| 1989 | 59 | 0 | 59 | 58% | 1926 | 26 | 83% | 25% |
| 1990 | 13 | 0 | 13 | 13% | 1929 | 26 | 84% | 25% |
| 1991 | 20 | 0 | 20 | 20% | 1987 | 25 | 85% | 24% |
| 1992 | 17 | 1 | 18 | 17% | 1949 | 22 | 86% | 21% |
| 1993 | 60 | 1 | 60 | 59% | 1994 | 21 | 88% | 21% |
| 1994 | 18 | 4 | 21 | 21% | 1930 | 21 | 89% | 21% |
| 1995 | 93 | 1 | 93 | 91% | 1991 | 20 | 90% | 20% |
| 1996 | 82 | 7 | 89 | 87% | 1992 | 18 | 91% | 17% |
| 1997 | 58 | 9 | 67 | 65% | 1924 | 17 | 93% | 16% |
| 1998 | 93 | 4 | 96 | 94% | 2001 | 16 | 94% | 16% |
| 1999 | 68 | 9 | 76 | 75% | 1932 | 13 | 95% | 13% |
| 2000 | 62 | 6 | 68 | 67% | 1990 | 13 | 96% | 13% |
| 2001 | 16 | 0 | 16 | 16% | 1934 | 13 | 98% | 12% |
| 2002 | 42 | 0 | 42 | 41% | 1988 | 10 | 99% | 10% |
| 2003 | 57 | 0 | 58 | 56% | 1977 | 10 | 100% | 9% |
| Average | 52 | 3 | 55 | 53% | | 55 | | 53% |
| Maximum | 93 | 10 | 102 | 100% | | 102 | | 100% |
| Minimum | 9 | 0 | 10 | 9% | | 10 | | 9% |

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

| SWP Table A Deliveries for 2019 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 | 77% | 1969 | 29 | 0% | 100% |
| 1923 | 16 | 0 | 16 | 57% | 1998 | 29 | 0% | 100% |
| 1924 | 4 | 0 | 4 | 13% | 1982 | 29 | 0% | 100% |
| 1925 | 9 | 0 | 9 | 30% | 1983 | 29 | 0% | 100% |
| 1926 | 7 | 0 | 7 | 25% | 1995 | 29 | 0% | 100% |
| 1927 | 18 | 0 | 18 | 62% | 1938 | 29 | 0% | 100% |
| 1928 | 17 | 0 | 17 | 59% | 1952 | 29 | 0% | 100% |
| 1929 | 6 | 0 | 6 | 22% | 1978 | 29 | 0% | 100% |
| 1930 | 6 | 0 | 6 | 20% | 1941 | 27 | 10% | 93% |
| 1931 | 10 | 0 | 10 | 33% | 1958 | 26 | 11% | 92% |
| 1932 | 4 | 0 | 4 | 13% | 1967 | 26 | 12% | 91% |
| 1933 | 10 | 0 | 10 | 34% | 1996 | 25 | 14% | 88% |
| 1934 | 3 | 0 | 3 | 11% | 1942 | 25 | 15% | 87% |
| 1935 | 20 | 0 | 20 | 69% | 1922 | 22 | 16% | 77% |
| 1936 | 18 | 0 | 18 | 63% | 1951 | 22 | 17% | 75% |
| 1937 | 17 | 0 | 17 | 59% | 1984 | 21 | 19% | 74% |
| 1938 | 29 | 0 | 29 | 100% | 1980 | 21 | 20% | 74% |
| 1939 | 7 | 0 | 7 | 24% | 1999 | 21 | 21% | 72% |
| 1940 | 19 | 0 | 19 | 65% | 1974 | 21 | 22% | 72% |
| 1941 | 27 | 0 | 27 | 93% | 1945 | 21 | 23% | 71% |
| 1942 | 25 | 0 | 25 | 87% | 1966 | 20 | 25% | 71% |
| 1943 | 20 | 0 | 20 | 69% | 1970 | 20 | 26% | 70% |
| 1944 | 6 | 0 | 6 | 22% | 1935 | 20 | 27% | 69% |
| 1945 | 21 | 0 | 21 | 71% | 1943 | 20 | 28% | 69% |
| 1946 | 13 | 0 | 13 | 46% | 1973 | 20 | 30% | 69% |
| 1947 | 13 | 0 | 13 | 47% | 1956 | 20 | 31% | 68% |
| 1948 | 15 | 0 | 15 | 52% | 1989 | 19 | 32% | 67% |
| 1949 | 5 | 0 | 5 | 19% | 1940 | 19 | 33% | 65% |
| 1950 | 16 | 0 | 16 | 56% | 2000 | 19 | 35% | 65% |
| 1951 | 22 | 0 | 22 | 75% | 1985 | 18 | 36% | 64% |
| 1952 | 29 | 0 | 29 | 100% | 1963 | 18 | 37% | 64% |
| 1953 | 13 | 0 | 13 | 46% | 1936 | 18 | 38% | 63% |
| 1954 | 17 | 0 | 17 | 59% | 1927 | 18 | 40% | 62% |
| 1955 | 9 | 0 | 9 | 30% | 1993 | 18 | 41% | 62% |
| 1956 | 20 | 0 | 20 | 68% | 1997 | 17 | 42% | 60% |
| 1957 | 16 | 0 | 16 | 56% | 1937 | 17 | 43% | 59% |
| 1958 | 26 | 0 | 26 | 92% | 1928 | 17 | 44% | 59% |
| 1959 | 13 | 0 | 13 | 46% | 1986 | 17 | 46% | 59% |
| 1960 | 8 | 0 | 8 | 29% | 1954 | 17 | 47% | 59% |
| 1961 | 12 | 0 | 12 | 40% | 1923 | 16 | 48% | 57% |
| 1962 | 14 | 0 | 14 | 50% | 1975 | 16 | 49% | 57% |
| 1963 | 18 | 0 | 18 | 64% | 1957 | 16 | 51% | 56% |
| 1964 | 12 | 0 | 12 | 43% | 1965 | 16 | 52% | 56% |
| 1965 | 16 | 0 | 16 | 56% | 1950 | 16 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 20 | 0 | 20 | 71% | 1948 | 15 | 54% | 52% |
| 1967 | 26 | 0 | 26 | 91% | 1962 | 14 | 56% | 50% |
| 1968 | 12 | 0 | 12 | 41% | 1979 | 14 | 57% | 47% |
| 1969 | 29 | 0 | 29 | 100% | 1947 | 13 | 58% | 47% |
| 1970 | 20 | 0 | 20 | 70% | 2003 | 13 | 59% | 46% |
| 1971 | 12 | 0 | 12 | 41% | 1953 | 13 | 60% | 46% |
| 1972 | 11 | 0 | 11 | 37% | 1946 | 13 | 62% | 46% |
| 1973 | 20 | 0 | 20 | 69% | 1959 | 13 | 63% | 46% |
| 1974 | 21 | 0 | 21 | 72% | 1964 | 12 | 64% | 43% |
| 1975 | 16 | 0 | 16 | 57% | 2002 | 12 | 65% | 43% |
| 1976 | 10 | 0 | 10 | 33% | 1968 | 12 | 67% | 41% |
| 1977 | 3 | 0 | 3 | 9% | 1971 | 12 | 68% | 41% |
| 1978 | 29 | 0 | 29 | 100% | 1961 | 12 | 69% | 40% |
| 1979 | 14 | 0 | 14 | 47% | 1972 | 11 | 70% | 37% |
| 1980 | 21 | 0 | 21 | 74% | 1933 | 10 | 72% | 34% |
| 1981 | 10 | 0 | 10 | 34% | 1981 | 10 | 73% | 34% |
| 1982 | 29 | 0 | 29 | 100% | 1976 | 10 | 74% | 33% |
| 1983 | 29 | 0 | 29 | 100% | 1931 | 10 | 75% | 33% |
| 1984 | 21 | 0 | 21 | 74% | 1925 | 9 | 77% | 30% |
| 1985 | 18 | 0 | 18 | 64% | 1955 | 9 | 78% | 30% |
| 1986 | 17 | 0 | 17 | 59% | 1960 | 8 | 79% | 29% |
| 1987 | 6 | 0 | 6 | 21% | 1926 | 7 | 80% | 25% |
| 1988 | 3 | 0 | 3 | 10% | 1939 | 7 | 81% | 24% |
| 1989 | 19 | 0 | 19 | 67% | 1929 | 6 | 83% | 22% |
| 1990 | 4 | 0 | 4 | 13% | 1944 | 6 | 84% | 22% |
| 1991 | 6 | 0 | 6 | 20% | 1987 | 6 | 85% | 21% |
| 1992 | 5 | 0 | 5 | 17% | 1930 | 6 | 86% | 20% |
| 1993 | 18 | 0 | 18 | 62% | 1991 | 6 | 88% | 20% |
| 1994 | 5 | 0 | 5 | 18% | 1949 | 5 | 89% | 19% |
| 1995 | 29 | 0 | 29 | 100% | 1994 | 5 | 90% | 18% |
| 1996 | 25 | 0 | 25 | 88% | 1992 | 5 | 91% | 17% |
| 1997 | 17 | 0 | 17 | 60% | 2001 | 5 | 93% | 16% |
| 1998 | 29 | 0 | 29 | 100% | 1924 | 4 | 94% | 13% |
| 1999 | 21 | 0 | 21 | 72% | 1932 | 4 | 95% | 13% |
| 2000 | 19 | 0 | 19 | 65% | 1990 | 4 | 96% | 13% |
| 2001 | 5 | 0 | 5 | 16% | 1934 | 3 | 98% | 11% |
| 2002 | 12 | 0 | 12 | 43% | 1988 | 3 | 99% | 10% |
| 2003 | 13 | 0 | 13 | 46% | 1977 | 3 | 100% | 9% |
| Average | 15 | 0 | 15 | 54% | | 15 | | 54% |
| Maximum | 29 | 0 | 29 | 100% | | 29 | | 100% |
| Minimum | 3 | 0 | 3 | 9% | | 3 | | 9% |

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

| SWP Table A Deliveries for 2019 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 | 66% | 1952 | 16 | 0% | 100% |
| 1923 | 9 | 3 | 12 | 76% | 1983 | 15 | 1% | 98% |
| 1924 | 2 | 1 | 3 | 19% | 1998 | 14 | 2% | 89% |
| 1925 | 5 | 0 | 5 | 32% | 1999 | 14 | 4% | 89% |
| 1926 | 4 | 0 | 4 | 28% | 1938 | 14 | 5% | 88% |
| 1927 | 10 | 0 | 10 | 64% | 1969 | 14 | 6% | 86% |
| 1928 | 9 | 1 | 10 | 65% | 1982 | 13 | 7% | 85% |
| 1929 | 4 | 1 | 5 | 29% | 1995 | 13 | 9% | 84% |
| 1930 | 3 | 0 | 4 | 23% | 1978 | 13 | 10% | 84% |
| 1931 | 6 | 0 | 6 | 36% | 1942 | 13 | 11% | 82% |
| 1932 | 2 | 0 | 2 | 14% | 1984 | 13 | 12% | 82% |
| 1933 | 6 | 0 | 6 | 40% | 1958 | 13 | 14% | 82% |
| 1934 | 2 | 0 | 2 | 14% | 1996 | 13 | 15% | 82% |
| 1935 | 10 | 0 | 10 | 66% | 1970 | 13 | 16% | 82% |
| 1936 | 10 | 0 | 10 | 64% | 1967 | 13 | 17% | 80% |
| 1937 | 9 | 1 | 10 | 63% | 1997 | 13 | 19% | 80% |
| 1938 | 13 | 1 | 14 | 88% | 1941 | 12 | 20% | 78% |
| 1939 | 4 | 4 | 8 | 51% | 2000 | 12 | 21% | 78% |
| 1940 | 10 | 0 | 10 | 65% | 1943 | 12 | 22% | 77% |
| 1941 | 12 | 0 | 12 | 78% | 1974 | 12 | 23% | 76% |
| 1942 | 11 | 1 | 13 | 82% | 1923 | 12 | 25% | 76% |
| 1943 | 10 | 2 | 12 | 77% | 1985 | 12 | 26% | 75% |
| 1944 | 4 | 2 | 5 | 33% | 1975 | 11 | 27% | 71% |
| 1945 | 10 | 0 | 10 | 67% | 1980 | 11 | 28% | 69% |
| 1946 | 7 | 2 | 9 | 60% | 1951 | 11 | 30% | 68% |
| 1947 | 8 | 0 | 8 | 51% | 1966 | 11 | 31% | 68% |
| 1948 | 8 | 0 | 8 | 54% | 1963 | 11 | 32% | 68% |
| 1949 | 3 | 1 | 4 | 24% | 1973 | 11 | 33% | 67% |
| 1950 | 9 | 0 | 9 | 57% | 1945 | 10 | 35% | 67% |
| 1951 | 10 | 0 | 11 | 68% | 1957 | 10 | 36% | 67% |
| 1952 | 13 | 3 | 16 | 100% | 1968 | 10 | 37% | 66% |
| 1953 | 7 | 2 | 10 | 63% | 1922 | 10 | 38% | 66% |
| 1954 | 9 | 1 | 10 | 62% | 1935 | 10 | 40% | 66% |
| 1955 | 5 | 1 | 6 | 37% | 1989 | 10 | 41% | 66% |
| 1956 | 10 | 0 | 10 | 66% | 1956 | 10 | 42% | 66% |
| 1957 | 9 | 2 | 10 | 67% | 1928 | 10 | 43% | 65% |
| 1958 | 12 | 1 | 13 | 82% | 1940 | 10 | 44% | 65% |
| 1959 | 7 | 2 | 9 | 60% | 1936 | 10 | 46% | 64% |
| 1960 | 5 | 0 | 5 | 31% | 1927 | 10 | 47% | 64% |
| 1961 | 7 | 0 | 7 | 43% | 1937 | 10 | 48% | 63% |
| 1962 | 8 | 0 | 8 | 54% | 1993 | 10 | 49% | 63% |
| 1963 | 10 | 1 | 11 | 68% | 1953 | 10 | 51% | 63% |
| 1964 | 7 | 1 | 8 | 51% | 1954 | 10 | 52% | 62% |
| 1965 | 9 | 0 | 9 | 59% | 1959 | 9 | 53% | 60% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 10 | 0 | 11 | 68% | 1986 | 9 | 54% | 60% |
| 1967 | 12 | 1 | 13 | 80% | 1946 | 9 | 56% | 60% |
| 1968 | 7 | 4 | 10 | 66% | 1965 | 9 | 57% | 59% |
| 1969 | 13 | 0 | 14 | 86% | 1950 | 9 | 58% | 57% |
| 1970 | 10 | 3 | 13 | 82% | 1962 | 8 | 59% | 54% |
| 1971 | 7 | 2 | 8 | 52% | 1948 | 8 | 60% | 54% |
| 1972 | 6 | 0 | 6 | 41% | 2003 | 8 | 62% | 53% |
| 1973 | 10 | 0 | 11 | 67% | 1971 | 8 | 63% | 52% |
| 1974 | 10 | 2 | 12 | 76% | 1981 | 8 | 64% | 52% |
| 1975 | 9 | 2 | 11 | 71% | 1939 | 8 | 65% | 51% |
| 1976 | 6 | 1 | 6 | 41% | 1947 | 8 | 67% | 51% |
| 1977 | 1 | 0 | 2 | 11% | 1964 | 8 | 68% | 51% |
| 1978 | 13 | 0 | 13 | 84% | 1979 | 8 | 69% | 49% |
| 1979 | 8 | 0 | 8 | 49% | 2002 | 7 | 70% | 45% |
| 1980 | 10 | 0 | 11 | 69% | 1961 | 7 | 72% | 43% |
| 1981 | 6 | 2 | 8 | 52% | 1972 | 6 | 73% | 41% |
| 1982 | 13 | 0 | 13 | 85% | 1976 | 6 | 74% | 41% |
| 1983 | 13 | 2 | 15 | 98% | 1933 | 6 | 75% | 40% |
| 1984 | 10 | 2 | 13 | 82% | 1955 | 6 | 77% | 37% |
| 1985 | 10 | 2 | 12 | 75% | 1931 | 6 | 78% | 36% |
| 1986 | 9 | 0 | 9 | 60% | 1944 | 5 | 79% | 33% |
| 1987 | 4 | 1 | 4 | 28% | 1925 | 5 | 80% | 32% |
| 1988 | 2 | 0 | 2 | 11% | 1960 | 5 | 81% | 31% |
| 1989 | 10 | 0 | 10 | 66% | 1929 | 5 | 83% | 29% |
| 1990 | 2 | 0 | 2 | 14% | 1926 | 4 | 84% | 28% |
| 1991 | 3 | 0 | 3 | 22% | 1987 | 4 | 85% | 28% |
| 1992 | 3 | 0 | 3 | 19% | 1994 | 4 | 86% | 24% |
| 1993 | 10 | 0 | 10 | 63% | 1949 | 4 | 88% | 24% |
| 1994 | 3 | 1 | 4 | 24% | 1930 | 4 | 89% | 23% |
| 1995 | 13 | 0 | 13 | 84% | 1991 | 3 | 90% | 22% |
| 1996 | 12 | 1 | 13 | 82% | 1924 | 3 | 91% | 19% |
| 1997 | 9 | 3 | 13 | 80% | 1992 | 3 | 93% | 19% |
| 1998 | 13 | 1 | 14 | 89% | 2001 | 3 | 94% | 17% |
| 1999 | 10 | 4 | 14 | 89% | 1932 | 2 | 95% | 14% |
| 2000 | 10 | 2 | 12 | 78% | 1990 | 2 | 96% | 14% |
| 2001 | 3 | 0 | 3 | 17% | 1934 | 2 | 98% | 14% |
| 2002 | 7 | 0 | 7 | 45% | 1988 | 2 | 99% | 11% |
| 2003 | 8 | 0 | 8 | 53% | 1977 | 2 | 100% | 11% |
| Average | 8 | 1 | 9 | 57% | | 9 | | 57% |
| Maximum | 13 | 4 | 16 | 100% | | 16 | | 100% |
| Minimum | 1 | 0 | 2 | 11% | | 2 | | 11% |

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

| SWP Table A Deliveries for 2019 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 | 52% | 1999 | 21 | 0% | 100% |
| 1923 | 10 | 8 | 18 | 88% | 1968 | 18 | 1% | 89% |
| 1924 | 3 | 4 | 7 | 35% | 1923 | 18 | 2% | 88% |
| 1925 | 6 | 1 | 7 | 33% | 1998 | 18 | 4% | 88% |
| 1926 | 5 | 1 | 7 | 31% | 1952 | 18 | 5% | 87% |
| 1927 | 11 | 1 | 12 | 56% | 2000 | 18 | 6% | 87% |
| 1928 | 10 | 5 | 15 | 72% | 1938 | 17 | 7% | 84% |
| 1929 | 5 | 5 | 9 | 45% | 1974 | 17 | 9% | 82% |
| 1930 | 4 | 1 | 5 | 25% | 1984 | 17 | 10% | 82% |
| 1931 | 6 | 1 | 7 | 33% | 1983 | 17 | 11% | 81% |
| 1932 | 3 | 0 | 3 | 13% | 1975 | 17 | 12% | 81% |
| 1933 | 8 | 0 | 8 | 39% | 1958 | 17 | 14% | 81% |
| 1934 | 2 | 0 | 3 | 13% | 1939 | 16 | 15% | 79% |
| 1935 | 11 | 0 | 12 | 55% | 1985 | 16 | 16% | 78% |
| 1936 | 11 | 0 | 11 | 53% | 1957 | 16 | 17% | 76% |
| 1937 | 10 | 1 | 11 | 53% | 1969 | 15 | 19% | 75% |
| 1938 | 14 | 4 | 17 | 84% | 1982 | 15 | 20% | 72% |
| 1939 | 5 | 11 | 16 | 79% | 1928 | 15 | 21% | 72% |
| 1940 | 11 | 0 | 11 | 54% | 1997 | 15 | 22% | 71% |
| 1941 | 13 | 0 | 13 | 61% | 1981 | 15 | 23% | 71% |
| 1942 | 12 | 2 | 14 | 67% | 1970 | 15 | 25% | 71% |
| 1943 | 11 | 3 | 14 | 66% | 1995 | 14 | 26% | 69% |
| 1944 | 5 | 6 | 11 | 52% | 1942 | 14 | 27% | 67% |
| 1945 | 11 | 1 | 12 | 57% | 1978 | 14 | 28% | 67% |
| 1946 | 9 | 5 | 14 | 67% | 1946 | 14 | 30% | 67% |
| 1947 | 9 | 2 | 12 | 56% | 1996 | 14 | 31% | 66% |
| 1948 | 10 | 0 | 10 | 49% | 1943 | 14 | 32% | 66% |
| 1949 | 4 | 3 | 7 | 33% | 1963 | 14 | 33% | 66% |
| 1950 | 10 | 1 | 10 | 50% | 1964 | 13 | 35% | 65% |
| 1951 | 11 | 2 | 13 | 62% | 1967 | 13 | 36% | 64% |
| 1952 | 14 | 5 | 18 | 87% | 1980 | 13 | 37% | 63% |
| 1953 | 9 | 3 | 13 | 60% | 1966 | 13 | 38% | 63% |
| 1954 | 10 | 3 | 13 | 61% | 1951 | 13 | 40% | 62% |
| 1955 | 6 | 4 | 11 | 52% | 1941 | 13 | 41% | 61% |
| 1956 | 11 | 1 | 12 | 56% | 1973 | 13 | 42% | 61% |
| 1957 | 10 | 6 | 16 | 76% | 1954 | 13 | 43% | 61% |
| 1958 | 12 | 4 | 17 | 81% | 1953 | 13 | 44% | 60% |
| 1959 | 9 | 3 | 12 | 57% | 1965 | 12 | 46% | 58% |
| 1960 | 6 | 0 | 6 | 30% | 1962 | 12 | 47% | 57% |
| 1961 | 8 | 1 | 9 | 43% | 1959 | 12 | 48% | 57% |
| 1962 | 10 | 2 | 12 | 57% | 1945 | 12 | 49% | 57% |
| 1963 | 11 | 3 | 14 | 66% | 1927 | 12 | 51% | 56% |
| 1964 | 8 | 5 | 13 | 65% | 1947 | 12 | 52% | 56% |
| 1965 | 10 | 2 | 12 | 58% | 1956 | 12 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 11 | 2 | 13 | 63% | 1935 | 12 | 54% | 55% |
| 1967 | 12 | 1 | 13 | 64% | 1989 | 11 | 56% | 55% |
| 1968 | 8 | 10 | 18 | 89% | 1976 | 11 | 57% | 55% |
| 1969 | 14 | 2 | 15 | 75% | 1993 | 11 | 58% | 55% |
| 1970 | 11 | 4 | 15 | 71% | 1940 | 11 | 59% | 54% |
| 1971 | 8 | 2 | 10 | 50% | 1937 | 11 | 60% | 53% |
| 1972 | 7 | 2 | 10 | 46% | 1936 | 11 | 62% | 53% |
| 1973 | 11 | 2 | 13 | 61% | 1922 | 11 | 63% | 52% |
| 1974 | 11 | 6 | 17 | 82% | 1955 | 11 | 64% | 52% |
| 1975 | 10 | 7 | 17 | 81% | 1944 | 11 | 65% | 52% |
| 1976 | 7 | 4 | 11 | 55% | 2003 | 10 | 67% | 50% |
| 1977 | 2 | 1 | 3 | 15% | 1950 | 10 | 68% | 50% |
| 1978 | 14 | 0 | 14 | 67% | 1971 | 10 | 69% | 50% |
| 1979 | 9 | 0 | 9 | 45% | 1986 | 10 | 70% | 50% |
| 1980 | 11 | 2 | 13 | 63% | 1948 | 10 | 72% | 49% |
| 1981 | 7 | 8 | 15 | 71% | 1972 | 10 | 73% | 46% |
| 1982 | 14 | 1 | 15 | 72% | 1979 | 9 | 74% | 45% |
| 1983 | 14 | 3 | 17 | 81% | 1929 | 9 | 75% | 45% |
| 1984 | 11 | 6 | 17 | 82% | 2002 | 9 | 77% | 43% |
| 1985 | 11 | 5 | 16 | 78% | 1961 | 9 | 78% | 43% |
| 1986 | 10 | 0 | 10 | 50% | 1987 | 9 | 79% | 43% |
| 1987 | 4 | 5 | 9 | 43% | 1994 | 8 | 80% | 41% |
| 1988 | 2 | 1 | 3 | 14% | 1933 | 8 | 81% | 39% |
| 1989 | 11 | 0 | 11 | 55% | 1924 | 7 | 83% | 35% |
| 1990 | 3 | 0 | 3 | 13% | 1949 | 7 | 84% | 33% |
| 1991 | 4 | 0 | 5 | 23% | 1925 | 7 | 85% | 33% |
| 1992 | 4 | 1 | 4 | 21% | 1931 | 7 | 86% | 33% |
| 1993 | 11 | 1 | 11 | 55% | 1926 | 7 | 88% | 31% |
| 1994 | 4 | 5 | 8 | 41% | 1960 | 6 | 89% | 30% |
| 1995 | 14 | 1 | 14 | 69% | 1930 | 5 | 90% | 25% |
| 1996 | 12 | 2 | 14 | 66% | 1991 | 5 | 91% | 23% |
| 1997 | 10 | 4 | 15 | 71% | 1992 | 4 | 93% | 21% |
| 1998 | 14 | 5 | 18 | 88% | 2001 | 3 | 94% | 17% |
| 1999 | 11 | 10 | 21 | 100% | 1977 | 3 | 95% | 15% |
| 2000 | 11 | 7 | 18 | 87% | 1988 | 3 | 96% | 14% |
| 2001 | 3 | 0 | 3 | 17% | 1932 | 3 | 98% | 13% |
| 2002 | 8 | 1 | 9 | 43% | 1934 | 3 | 99% | 13% |
| 2003 | 10 | 0 | 10 | 50% | 1990 | 3 | 100% | 13% |
| Average | 9 | 3 | 12 | 56% | | 12 | | 56% |
| Maximum | 14 | 11 | 21 | 100% | | 21 | | 100% |
| Minimum | 2 | 0 | 3 | 13% | | 3 | | 13% |

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

| SWP Table A Deliveries for 2019 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 | 68% | 1952 | 41 | 0% | 100% |
| 1923 | 25 | 7 | 32 | 79% | 1983 | 41 | 1% | 100% |
| 1924 | 6 | 1 | 7 | 17% | 1999 | 37 | 2% | 91% |
| 1925 | 14 | 0 | 14 | 33% | 1998 | 36 | 4% | 87% |
| 1926 | 12 | 0 | 12 | 28% | 1938 | 36 | 5% | 87% |
| 1927 | 27 | 0 | 27 | 67% | 1969 | 35 | 6% | 86% |
| 1928 | 26 | 1 | 27 | 66% | 1982 | 35 | 7% | 85% |
| 1929 | 10 | 1 | 11 | 27% | 1978 | 35 | 9% | 85% |
| 1930 | 9 | 0 | 9 | 23% | 1995 | 35 | 10% | 85% |
| 1931 | 11 | 0 | 11 | 28% | 1970 | 35 | 11% | 85% |
| 1932 | 6 | 0 | 6 | 14% | 1997 | 35 | 12% | 84% |
| 1933 | 17 | 0 | 17 | 42% | 1984 | 34 | 14% | 84% |
| 1934 | 5 | 0 | 5 | 13% | 1942 | 34 | 15% | 84% |
| 1935 | 28 | 0 | 28 | 69% | 1996 | 34 | 16% | 83% |
| 1936 | 28 | 0 | 28 | 68% | 1967 | 34 | 17% | 82% |
| 1937 | 26 | 1 | 27 | 66% | 1943 | 33 | 19% | 81% |
| 1938 | 35 | 1 | 36 | 87% | 1958 | 33 | 20% | 80% |
| 1939 | 11 | 11 | 21 | 52% | 1941 | 33 | 21% | 80% |
| 1940 | 26 | 0 | 26 | 64% | 2000 | 33 | 22% | 80% |
| 1941 | 33 | 0 | 33 | 80% | 1923 | 32 | 23% | 79% |
| 1942 | 30 | 4 | 34 | 84% | 1985 | 32 | 25% | 78% |
| 1943 | 28 | 5 | 33 | 81% | 1974 | 31 | 26% | 76% |
| 1944 | 10 | 3 | 13 | 31% | 1975 | 30 | 27% | 72% |
| 1945 | 28 | 0 | 28 | 69% | 1966 | 29 | 28% | 70% |
| 1946 | 20 | 4 | 25 | 60% | 1973 | 28 | 30% | 69% |
| 1947 | 21 | 0 | 21 | 52% | 1963 | 28 | 31% | 69% |
| 1948 | 23 | 0 | 23 | 57% | 1980 | 28 | 32% | 69% |
| 1949 | 9 | 0 | 9 | 22% | 1951 | 28 | 33% | 69% |
| 1950 | 25 | 0 | 25 | 60% | 1935 | 28 | 35% | 69% |
| 1951 | 28 | 0 | 28 | 69% | 1945 | 28 | 36% | 69% |
| 1952 | 35 | 6 | 41 | 100% | 1956 | 28 | 37% | 69% |
| 1953 | 21 | 6 | 27 | 66% | 1936 | 28 | 38% | 68% |
| 1954 | 26 | 0 | 26 | 64% | 1968 | 28 | 40% | 68% |
| 1955 | 14 | 1 | 14 | 35% | 1922 | 28 | 41% | 68% |
| 1956 | 28 | 0 | 28 | 69% | 1957 | 28 | 42% | 67% |
| 1957 | 25 | 3 | 28 | 67% | 1927 | 27 | 43% | 67% |
| 1958 | 32 | 1 | 33 | 80% | 1993 | 27 | 44% | 67% |
| 1959 | 20 | 5 | 26 | 63% | 1937 | 27 | 46% | 66% |
| 1960 | 13 | 0 | 13 | 33% | 1953 | 27 | 47% | 66% |
| 1961 | 18 | 0 | 18 | 44% | 1928 | 27 | 48% | 66% |
| 1962 | 22 | 0 | 22 | 55% | 1954 | 26 | 49% | 64% |
| 1963 | 28 | 0 | 28 | 69% | 1940 | 26 | 51% | 64% |
| 1964 | 19 | 1 | 20 | 49% | 1986 | 26 | 52% | 64% |
| 1965 | 25 | 0 | 25 | 61% | 1959 | 26 | 53% | 63% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 28 | 0 | 29 | 70% | 1965 | 25 | 54% | 61% |
| 1967 | 32 | 2 | 34 | 82% | 1950 | 25 | 56% | 60% |
| 1968 | 18 | 10 | 28 | 68% | 1946 | 25 | 57% | 60% |
| 1969 | 35 | 0 | 35 | 86% | 1948 | 23 | 58% | 57% |
| 1970 | 28 | 7 | 35 | 85% | 1962 | 22 | 59% | 55% |
| 1971 | 18 | 4 | 22 | 53% | 1989 | 22 | 60% | 54% |
| 1972 | 17 | 0 | 17 | 41% | 1971 | 22 | 62% | 53% |
| 1973 | 28 | 0 | 28 | 69% | 1979 | 21 | 63% | 52% |
| 1974 | 28 | 3 | 31 | 76% | 1939 | 21 | 64% | 52% |
| 1975 | 25 | 4 | 30 | 72% | 1947 | 21 | 65% | 52% |
| 1976 | 15 | 1 | 16 | 39% | 1981 | 21 | 67% | 52% |
| 1977 | 4 | 0 | 4 | 10% | 2003 | 20 | 68% | 50% |
| 1978 | 35 | 0 | 35 | 85% | 1964 | 20 | 69% | 49% |
| 1979 | 21 | 0 | 21 | 52% | 1961 | 18 | 70% | 44% |
| 1980 | 28 | 0 | 28 | 69% | 1933 | 17 | 72% | 42% |
| 1981 | 15 | 6 | 21 | 52% | 1972 | 17 | 73% | 41% |
| 1982 | 35 | 0 | 35 | 85% | 1976 | 16 | 74% | 39% |
| 1983 | 35 | 6 | 41 | 100% | 2002 | 15 | 75% | 37% |
| 1984 | 28 | 6 | 34 | 84% | 1955 | 14 | 77% | 35% |
| 1985 | 28 | 4 | 32 | 78% | 1925 | 14 | 78% | 33% |
| 1986 | 26 | 0 | 26 | 64% | 1960 | 13 | 79% | 33% |
| 1987 | 10 | 1 | 10 | 25% | 1944 | 13 | 80% | 31% |
| 1988 | 4 | 0 | 4 | 11% | 1926 | 12 | 81% | 28% |
| 1989 | 22 | 0 | 22 | 54% | 1931 | 11 | 83% | 28% |
| 1990 | 6 | 0 | 6 | 14% | 1929 | 11 | 84% | 27% |
| 1991 | 9 | 0 | 9 | 22% | 1987 | 10 | 85% | 25% |
| 1992 | 8 | 0 | 8 | 19% | 1930 | 9 | 86% | 23% |
| 1993 | 27 | 0 | 27 | 67% | 1991 | 9 | 88% | 22% |
| 1994 | 8 | 1 | 9 | 21% | 1949 | 9 | 89% | 22% |
| 1995 | 35 | 0 | 35 | 85% | 1994 | 9 | 90% | 21% |
| 1996 | 31 | 3 | 34 | 83% | 1992 | 8 | 91% | 19% |
| 1997 | 26 | 8 | 35 | 84% | 2001 | 7 | 93% | 18% |
| 1998 | 35 | 1 | 36 | 87% | 1924 | 7 | 94% | 17% |
| 1999 | 28 | 9 | 37 | 91% | 1990 | 6 | 95% | 14% |
| 2000 | 28 | 4 | 33 | 80% | 1932 | 6 | 96% | 14% |
| 2001 | 7 | 0 | 7 | 18% | 1934 | 5 | 98% | 13% |
| 2002 | 15 | 0 | 15 | 37% | 1988 | 4 | 99% | 11% |
| 2003 | 20 | 0 | 20 | 50% | 1977 | 4 | 100% | 10% |
| Average | 22 | 2 | 23 | 57% | | 23 | | 57% |
| Maximum | 35 | 11 | 41 | 100% | | 41 | | 100% |
| Minimum | 4 | 0 | 4 | 10% | | 4 | | 10% |

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

| SWP Table A Deliveries for 2019 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 | 64 | 0 | 64 | 68% | 1983 | 94 | 0% | 100% |
| 1923 | 55 | 13 | 68 | 72% | 1952 | 92 | 1% | 98% |
| 1924 | 13 | 2 | 15 | 16% | 1998 | 83 | 2% | 89% |
| 1925 | 29 | 0 | 30 | 32% | 1938 | 83 | 4% | 88% |
| 1926 | 25 | 0 | 25 | 27% | 1969 | 82 | 5% | 87% |
| 1927 | 60 | 0 | 60 | 64% | 1982 | 81 | 6% | 87% |
| 1928 | 57 | 2 | 59 | 63% | 1995 | 81 | 7% | 86% |
| 1929 | 22 | 2 | 24 | 26% | 1978 | 81 | 9% | 86% |
| 1930 | 20 | 0 | 20 | 22% | 1999 | 80 | 10% | 85% |
| 1931 | 33 | 0 | 33 | 35% | 1942 | 79 | 11% | 84% |
| 1932 | 13 | 0 | 13 | 14% | 1996 | 78 | 12% | 84% |
| 1933 | 37 | 0 | 37 | 40% | 1970 | 77 | 14% | 82% |
| 1934 | 11 | 1 | 12 | 13% | 1967 | 77 | 15% | 82% |
| 1935 | 63 | 0 | 63 | 67% | 1958 | 76 | 16% | 81% |
| 1936 | 61 | 0 | 61 | 65% | 1984 | 76 | 17% | 81% |
| 1937 | 57 | 2 | 59 | 63% | 1941 | 76 | 19% | 81% |
| 1938 | 81 | 2 | 83 | 88% | 1997 | 73 | 20% | 78% |
| 1939 | 23 | 19 | 43 | 45% | 1943 | 73 | 21% | 78% |
| 1940 | 61 | 0 | 62 | 66% | 2000 | 70 | 22% | 75% |
| 1941 | 75 | 0 | 76 | 81% | 1974 | 69 | 23% | 74% |
| 1942 | 70 | 8 | 79 | 84% | 1985 | 69 | 25% | 73% |
| 1943 | 63 | 11 | 73 | 78% | 1923 | 68 | 26% | 72% |
| 1944 | 21 | 6 | 28 | 29% | 1980 | 65 | 27% | 69% |
| 1945 | 63 | 0 | 63 | 68% | 1951 | 65 | 28% | 69% |
| 1946 | 44 | 8 | 52 | 56% | 1966 | 64 | 30% | 68% |
| 1947 | 45 | 1 | 47 | 50% | 1922 | 64 | 31% | 68% |
| 1948 | 50 | 0 | 51 | 54% | 1945 | 63 | 32% | 68% |
| 1949 | 19 | 2 | 20 | 22% | 1973 | 63 | 33% | 68% |
| 1950 | 53 | 0 | 54 | 57% | 1975 | 63 | 35% | 68% |
| 1951 | 64 | 1 | 65 | 69% | 1935 | 63 | 36% | 67% |
| 1952 | 81 | 11 | 92 | 98% | 1989 | 63 | 37% | 67% |
| 1953 | 45 | 14 | 59 | 63% | 1963 | 63 | 38% | 67% |
| 1954 | 56 | 1 | 58 | 62% | 1956 | 63 | 40% | 67% |
| 1955 | 29 | 2 | 32 | 34% | 1940 | 62 | 41% | 66% |
| 1956 | 62 | 0 | 63 | 67% | 1936 | 61 | 42% | 65% |
| 1957 | 54 | 6 | 60 | 64% | 1927 | 60 | 43% | 64% |
| 1958 | 74 | 2 | 76 | 81% | 1957 | 60 | 44% | 64% |
| 1959 | 44 | 12 | 56 | 60% | 1993 | 60 | 46% | 64% |
| 1960 | 29 | 0 | 29 | 31% | 1937 | 59 | 47% | 63% |
| 1961 | 39 | 0 | 39 | 42% | 1928 | 59 | 48% | 63% |
| 1962 | 48 | 1 | 49 | 53% | 1953 | 59 | 49% | 63% |
| 1963 | 61 | 1 | 63 | 67% | 1954 | 58 | 51% | 62% |
| 1964 | 42 | 3 | 45 | 48% | 1968 | 57 | 52% | 61% |
| 1965 | 54 | 1 | 55 | 59% | 1986 | 57 | 53% | 61% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 63 | 1 | 64 | 68% | 1959 | 56 | 54% | 60% |
| 1967 | 73 | 4 | 77 | 82% | 1965 | 55 | 56% | 59% |
| 1968 | 40 | 17 | 57 | 61% | 2003 | 55 | 57% | 58% |
| 1969 | 81 | 1 | 82 | 87% | 1950 | 54 | 58% | 57% |
| 1970 | 63 | 14 | 77 | 82% | 1946 | 52 | 59% | 56% |
| 1971 | 40 | 7 | 47 | 50% | 1948 | 51 | 60% | 54% |
| 1972 | 36 | 1 | 37 | 40% | 1962 | 49 | 62% | 53% |
| 1973 | 63 | 1 | 63 | 68% | 1971 | 47 | 63% | 50% |
| 1974 | 63 | 6 | 69 | 74% | 1947 | 47 | 64% | 50% |
| 1975 | 55 | 9 | 63 | 68% | 1979 | 46 | 65% | 49% |
| 1976 | 33 | 2 | 35 | 37% | 1964 | 45 | 67% | 48% |
| 1977 | 9 | 0 | 9 | 10% | 1981 | 44 | 68% | 47% |
| 1978 | 81 | 0 | 81 | 86% | 1939 | 43 | 69% | 45% |
| 1979 | 46 | 0 | 46 | 49% | 2002 | 42 | 70% | 45% |
| 1980 | 64 | 1 | 65 | 69% | 1961 | 39 | 72% | 42% |
| 1981 | 34 | 11 | 44 | 47% | 1933 | 37 | 73% | 40% |
| 1982 | 81 | 1 | 81 | 87% | 1972 | 37 | 74% | 40% |
| 1983 | 81 | 13 | 94 | 100% | 1976 | 35 | 75% | 37% |
| 1984 | 64 | 12 | 76 | 81% | 1931 | 33 | 77% | 35% |
| 1985 | 61 | 7 | 69 | 73% | 1955 | 32 | 78% | 34% |
| 1986 | 57 | 0 | 57 | 61% | 1925 | 30 | 79% | 32% |
| 1987 | 21 | 2 | 23 | 25% | 1960 | 29 | 80% | 31% |
| 1988 | 9 | 0 | 10 | 10% | 1944 | 28 | 81% | 29% |
| 1989 | 63 | 0 | 63 | 67% | 1926 | 25 | 83% | 27% |
| 1990 | 12 | 0 | 13 | 14% | 1929 | 24 | 84% | 26% |
| 1991 | 20 | 0 | 20 | 21% | 1987 | 23 | 85% | 25% |
| 1992 | 17 | 0 | 17 | 19% | 1930 | 20 | 86% | 22% |
| 1993 | 59 | 0 | 60 | 64% | 1949 | 20 | 88% | 22% |
| 1994 | 17 | 2 | 20 | 21% | 1991 | 20 | 89% | 21% |
| 1995 | 81 | 0 | 81 | 86% | 1994 | 20 | 90% | 21% |
| 1996 | 71 | 7 | 78 | 84% | 1992 | 17 | 91% | 19% |
| 1997 | 57 | 16 | 73 | 78% | 2001 | 16 | 93% | 17% |
| 1998 | 81 | 2 | 83 | 89% | 1924 | 15 | 94% | 16% |
| 1999 | 63 | 17 | 80 | 85% | 1932 | 13 | 95% | 14% |
| 2000 | 61 | 9 | 70 | 75% | 1990 | 13 | 96% | 14% |
| 2001 | 16 | 0 | 16 | 17% | 1934 | 12 | 98% | 13% |
| 2002 | 42 | 0 | 42 | 45% | 1988 | 10 | 99% | 10% |
| 2003 | 54 | 0 | 55 | 58% | 1977 | 9 | 100% | 10% |
| Average | 49 | 4 | 53 | 56% | | 53 | | 56% |
| Maximum | 81 | 19 | 94 | 100% | | 94 | | 100% |
| Minimum | 9 | 0 | 9 | 10% | | 9 | | 10% |

Table B-30. Solano County WA: Future Conditions

| SWP Table A Deliveries for 2019 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% | 1942 | 48 | 0% | 100% |
| 1923 | 20 | 22 | 42 | 88% | 1943 | 48 | 0% | 100% |
| 1924 | 11 | 20 | 31 | 66% | 1952 | 48 | 0% | 100% |
| 1925 | 20 | 1 | 21 | 43% | 1953 | 48 | 0% | 100% |
| 1926 | 20 | 3 | 23 | 48% | 1970 | 48 | 0% | 100% |
| 1927 | 24 | 3 | 27 | 56% | 1971 | 48 | 0% | 100% |
| 1928 | 22 | 24 | 46 | 96% | 1975 | 48 | 0% | 100% |
| 1929 | 11 | 22 | 34 | 70% | 1983 | 48 | 0% | 100% |
| 1930 | 20 | 1 | 21 | 43% | 1984 | 48 | 0% | 100% |
| 1931 | 11 | 3 | 14 | 30% | 1996 | 48 | 0% | 100% |
| 1932 | 20 | 1 | 21 | 43% | 1997 | 48 | 0% | 100% |
| 1933 | 11 | 3 | 14 | 30% | 1998 | 48 | 0% | 100% |
| 1934 | 11 | 1 | 12 | 25% | 1999 | 48 | 0% | 100% |
| 1935 | 20 | 1 | 21 | 43% | 1941 | 46 | 16% | 97% |
| 1936 | 20 | 20 | 40 | 84% | 1974 | 46 | 16% | 97% |
| 1937 | 20 | 20 | 40 | 84% | 1928 | 46 | 19% | 96% |
| 1938 | 24 | 20 | 44 | 92% | 1954 | 46 | 19% | 96% |
| 1939 | 20 | 24 | 44 | 92% | 2000 | 46 | 19% | 96% |
| 1940 | 22 | 3 | 25 | 53% | 1938 | 44 | 22% | 92% |
| 1941 | 24 | 22 | 46 | 97% | 1951 | 44 | 22% | 92% |
| 1942 | 24 | 24 | 48 | 100% | 1958 | 44 | 22% | 92% |
| 1943 | 24 | 24 | 48 | 100% | 1963 | 44 | 22% | 92% |
| 1944 | 20 | 24 | 44 | 92% | 1967 | 44 | 22% | 92% |
| 1945 | 20 | 3 | 23 | 48% | 1969 | 44 | 22% | 92% |
| 1946 | 20 | 20 | 40 | 84% | 1957 | 44 | 30% | 92% |
| 1947 | 20 | 20 | 40 | 84% | 1959 | 44 | 30% | 92% |
| 1948 | 20 | 3 | 23 | 48% | 1966 | 44 | 30% | 92% |
| 1949 | 20 | 20 | 40 | 84% | 1968 | 44 | 30% | 92% |
| 1950 | 20 | 3 | 23 | 48% | 1972 | 44 | 30% | 92% |
| 1951 | 24 | 20 | 44 | 92% | 1939 | 44 | 36% | 92% |
| 1952 | 24 | 24 | 48 | 100% | 1944 | 44 | 36% | 92% |
| 1953 | 24 | 24 | 48 | 100% | 1964 | 44 | 36% | 92% |
| 1954 | 22 | 24 | 46 | 96% | 1985 | 44 | 36% | 92% |
| 1955 | 20 | 22 | 42 | 88% | 1987 | 44 | 36% | 92% |
| 1956 | 24 | 3 | 27 | 56% | 1973 | 42 | 42% | 89% |
| 1957 | 20 | 24 | 44 | 92% | 1980 | 42 | 42% | 89% |
| 1958 | 24 | 20 | 44 | 92% | 1923 | 42 | 44% | 88% |
| 1959 | 20 | 24 | 44 | 92% | 1979 | 42 | 44% | 88% |
| 1960 | 20 | 20 | 40 | 84% | 1955 | 42 | 47% | 88% |
| 1961 | 20 | 3 | 23 | 48% | 1981 | 42 | 47% | 88% |
| 1962 | 20 | 3 | 23 | 48% | 2001 | 42 | 47% | 88% |
| 1963 | 24 | 20 | 44 | 92% | 1936 | 40 | 51% | 84% |
| 1964 | 20 | 24 | 44 | 92% | 1937 | 40 | 51% | 84% |
| 1965 | 24 | 3 | 27 | 56% | 1946 | 40 | 51% | 84% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 20 | 24 | 44 | 92% | 1947 | 40 | 54% | 84% |
| 1967 | 24 | 20 | 44 | 92% | 1949 | 40 | 54% | 84% |
| 1968 | 20 | 24 | 44 | 92% | 1960 | 40 | 54% | 84% |
| 1969 | 24 | 20 | 44 | 92% | 1976 | 35 | 58% | 74% |
| 1970 | 24 | 24 | 48 | 100% | 1929 | 34 | 59% | 70% |
| 1971 | 24 | 24 | 48 | 100% | 1994 | 34 | 59% | 70% |
| 1972 | 20 | 24 | 44 | 92% | 1924 | 31 | 62% | 66% |
| 1973 | 22 | 20 | 42 | 89% | 1927 | 27 | 63% | 56% |
| 1974 | 24 | 22 | 46 | 97% | 1956 | 27 | 63% | 56% |
| 1975 | 24 | 24 | 48 | 100% | 1965 | 27 | 63% | 56% |
| 1976 | 11 | 24 | 35 | 74% | 1982 | 27 | 63% | 56% |
| 1977 | 11 | 1 | 12 | 25% | 1986 | 27 | 63% | 56% |
| 1978 | 22 | 1 | 23 | 48% | 2003 | 26 | 69% | 54% |
| 1979 | 20 | 22 | 42 | 88% | 1940 | 25 | 70% | 53% |
| 1980 | 22 | 20 | 42 | 89% | 1995 | 24 | 72% | 51% |
| 1981 | 20 | 22 | 42 | 88% | 1945 | 23 | 73% | 48% |
| 1982 | 24 | 3 | 27 | 56% | 1948 | 23 | 73% | 48% |
| 1983 | 24 | 24 | 48 | 100% | 1950 | 23 | 73% | 48% |
| 1984 | 24 | 24 | 48 | 100% | 1962 | 23 | 73% | 48% |
| 1985 | 20 | 24 | 44 | 92% | 1926 | 23 | 78% | 48% |
| 1986 | 24 | 3 | 27 | 56% | 1961 | 23 | 78% | 48% |
| 1987 | 20 | 24 | 44 | 92% | 2002 | 23 | 78% | 48% |
| 1988 | 11 | 3 | 14 | 30% | 1978 | 23 | 81% | 48% |
| 1989 | 20 | 1 | 21 | 43% | 1993 | 23 | 81% | 48% |
| 1990 | 11 | 3 | 14 | 30% | 1922 | 22 | 84% | 47% |
| 1991 | 11 | 1 | 12 | 25% | 1935 | 21 | 85% | 43% |
| 1992 | 11 | 1 | 12 | 25% | 1925 | 21 | 86% | 43% |
| 1993 | 22 | 1 | 23 | 48% | 1930 | 21 | 86% | 43% |
| 1994 | 11 | 22 | 34 | 70% | 1932 | 21 | 86% | 43% |
| 1995 | 24 | 1 | 24 | 51% | 1989 | 21 | 86% | 43% |
| 1996 | 24 | 24 | 48 | 100% | 1931 | 14 | 91% | 30% |
| 1997 | 24 | 24 | 48 | 100% | 1933 | 14 | 91% | 30% |
| 1998 | 24 | 24 | 48 | 100% | 1988 | 14 | 91% | 30% |
| 1999 | 24 | 24 | 48 | 100% | 1990 | 14 | 91% | 30% |
| 2000 | 22 | 24 | 46 | 96% | 1992 | 12 | 96% | 25% |
| 2001 | 20 | 22 | 42 | 88% | 1934 | 12 | 96% | 25% |
| 2002 | 20 | 3 | 23 | 48% | 1977 | 12 | 96% | 25% |
| 2003 | 23 | 3 | 26 | 54% | 1991 | 12 | 96% | 25% |
| Average | 20 | 15 | 35 | 73% | | 35 | | 73% |
| 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 2019 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 | 77% | 1938 | 87 | 0% | 100% |
| 1923 | 50 | 0 | 50 | 57% | 1952 | 87 | 0% | 100% |
| 1924 | 12 | 0 | 12 | 13% | 1969 | 87 | 0% | 100% |
| 1925 | 26 | 0 | 26 | 30% | 1978 | 87 | 0% | 100% |
| 1926 | 22 | 0 | 22 | 25% | 1982 | 87 | 0% | 100% |
| 1927 | 54 | 0 | 54 | 62% | 1983 | 87 | 0% | 100% |
| 1928 | 52 | 0 | 52 | 59% | 1995 | 87 | 0% | 100% |
| 1929 | 20 | 0 | 20 | 22% | 1998 | 87 | 0% | 100% |
| 1930 | 18 | 0 | 18 | 20% | 1941 | 82 | 10% | 93% |
| 1931 | 25 | 0 | 25 | 29% | 1958 | 80 | 11% | 92% |
| 1932 | 11 | 0 | 11 | 13% | 1967 | 79 | 12% | 91% |
| 1933 | 33 | 0 | 33 | 38% | 1996 | 77 | 14% | 88% |
| 1934 | 10 | 0 | 10 | 11% | 1942 | 76 | 15% | 87% |
| 1935 | 60 | 0 | 60 | 69% | 1922 | 67 | 16% | 77% |
| 1936 | 55 | 0 | 55 | 63% | 1951 | 66 | 17% | 75% |
| 1937 | 52 | 0 | 52 | 59% | 1984 | 65 | 19% | 74% |
| 1938 | 87 | 0 | 87 | 100% | 1980 | 65 | 20% | 74% |
| 1939 | 21 | 0 | 21 | 24% | 1999 | 63 | 21% | 72% |
| 1940 | 49 | 0 | 49 | 56% | 1974 | 63 | 22% | 72% |
| 1941 | 82 | 0 | 82 | 93% | 1945 | 62 | 23% | 71% |
| 1942 | 76 | 0 | 76 | 87% | 1966 | 62 | 25% | 71% |
| 1943 | 60 | 0 | 60 | 69% | 1970 | 61 | 26% | 70% |
| 1944 | 19 | 0 | 19 | 22% | 1935 | 60 | 27% | 69% |
| 1945 | 62 | 0 | 62 | 71% | 1943 | 60 | 28% | 69% |
| 1946 | 40 | 0 | 40 | 46% | 1973 | 60 | 30% | 69% |
| 1947 | 41 | 0 | 41 | 47% | 1956 | 60 | 31% | 68% |
| 1948 | 45 | 0 | 45 | 52% | 2000 | 57 | 32% | 65% |
| 1949 | 17 | 0 | 17 | 19% | 1985 | 56 | 33% | 64% |
| 1950 | 49 | 0 | 49 | 56% | 1963 | 56 | 35% | 64% |
| 1951 | 66 | 0 | 66 | 75% | 1936 | 55 | 36% | 63% |
| 1952 | 87 | 0 | 87 | 100% | 1927 | 54 | 37% | 62% |
| 1953 | 40 | 0 | 40 | 46% | 1993 | 54 | 38% | 62% |
| 1954 | 51 | 0 | 51 | 59% | 1997 | 52 | 40% | 60% |
| 1955 | 26 | 0 | 26 | 30% | 1937 | 52 | 41% | 59% |
| 1956 | 60 | 0 | 60 | 68% | 1928 | 52 | 42% | 59% |
| 1957 | 49 | 0 | 49 | 56% | 1986 | 52 | 43% | 59% |
| 1958 | 80 | 0 | 80 | 92% | 1954 | 51 | 44% | 59% |
| 1959 | 40 | 0 | 40 | 46% | 1923 | 50 | 46% | 57% |
| 1960 | 25 | 0 | 25 | 29% | 1975 | 50 | 47% | 57% |
| 1961 | 35 | 0 | 35 | 40% | 1957 | 49 | 48% | 56% |
| 1962 | 43 | 0 | 43 | 50% | 1940 | 49 | 49% | 56% |
| 1963 | 56 | 0 | 56 | 64% | 1965 | 49 | 51% | 56% |
| 1964 | 38 | 0 | 38 | 43% | 1950 | 49 | 52% | 56% |
| 1965 | 49 | 0 | 49 | 56% | 1989 | 46 | 53% | 53% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 62 | 0 | 62 | 71% | 1948 | 45 | 54% | 52% |
| 1967 | 79 | 0 | 79 | 91% | 1962 | 43 | 56% | 50% |
| 1968 | 36 | 0 | 36 | 41% | 1979 | 41 | 57% | 47% |
| 1969 | 87 | 0 | 87 | 100% | 1947 | 41 | 58% | 47% |
| 1970 | 61 | 0 | 61 | 70% | 1953 | 40 | 59% | 46% |
| 1971 | 36 | 0 | 36 | 41% | 1946 | 40 | 60% | 46% |
| 1972 | 32 | 0 | 32 | 37% | 1959 | 40 | 62% | 46% |
| 1973 | 60 | 0 | 60 | 69% | 1964 | 38 | 63% | 43% |
| 1974 | 63 | 0 | 63 | 72% | 2003 | 36 | 64% | 41% |
| 1975 | 50 | 0 | 50 | 57% | 1968 | 36 | 65% | 41% |
| 1976 | 29 | 0 | 29 | 33% | 1971 | 36 | 67% | 41% |
| 1977 | 8 | 0 | 8 | 9% | 1961 | 35 | 68% | 40% |
| 1978 | 87 | 0 | 87 | 100% | 2002 | 34 | 69% | 38% |
| 1979 | 41 | 0 | 41 | 47% | 1933 | 33 | 70% | 38% |
| 1980 | 65 | 0 | 65 | 74% | 1972 | 32 | 72% | 37% |
| 1981 | 30 | 0 | 30 | 34% | 1981 | 30 | 73% | 34% |
| 1982 | 87 | 0 | 87 | 100% | 1976 | 29 | 74% | 33% |
| 1983 | 87 | 0 | 87 | 100% | 1925 | 26 | 75% | 30% |
| 1984 | 65 | 0 | 65 | 74% | 1955 | 26 | 77% | 30% |
| 1985 | 56 | 0 | 56 | 64% | 1931 | 25 | 78% | 29% |
| 1986 | 52 | 0 | 52 | 59% | 1960 | 25 | 79% | 29% |
| 1987 | 18 | 0 | 18 | 21% | 1926 | 22 | 80% | 25% |
| 1988 | 8 | 0 | 8 | 10% | 1939 | 21 | 81% | 24% |
| 1989 | 46 | 0 | 46 | 53% | 1929 | 20 | 83% | 22% |
| 1990 | 11 | 0 | 11 | 13% | 1944 | 19 | 84% | 22% |
| 1991 | 17 | 0 | 17 | 20% | 1987 | 18 | 85% | 21% |
| 1992 | 15 | 0 | 15 | 17% | 1930 | 18 | 86% | 20% |
| 1993 | 54 | 0 | 54 | 62% | 1991 | 17 | 88% | 20% |
| 1994 | 15 | 0 | 15 | 18% | 1949 | 17 | 89% | 19% |
| 1995 | 87 | 0 | 87 | 100% | 1994 | 15 | 90% | 18% |
| 1996 | 77 | 0 | 77 | 88% | 1992 | 15 | 91% | 17% |
| 1997 | 52 | 0 | 52 | 60% | 2001 | 14 | 93% | 16% |
| 1998 | 87 | 0 | 87 | 100% | 1924 | 12 | 94% | 13% |
| 1999 | 63 | 0 | 63 | 72% | 1932 | 11 | 95% | 13% |
| 2000 | 57 | 0 | 57 | 65% | 1990 | 11 | 96% | 13% |
| 2001 | 14 | 0 | 14 | 16% | 1934 | 10 | 98% | 11% |
| 2002 | 34 | 0 | 34 | 38% | 1988 | 8 | 99% | 10% |
| 2003 | 36 | 0 | 36 | 41% | 1977 | 8 | 100% | 9% |
| Average | 47 | 0 | 47 | 53% | | 47 | | 53% |
| Maximum | 87 | 0 | 87 | 100% | | 87 | | 100% |
| Minimum | 8 | 0 | 8 | 9% | | 8 | | 9% |

Table B-32. Ventura County WPD: Future Conditions

| SWP Table A Deliveries for 2019 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 | 15 | 0 | 15 | 77% | 1978 | 20 | 0% | 100% |
| 1923 | 11 | 0 | 11 | 57% | 1998 | 20 | 0% | 100% |
| 1924 | 3 | 0 | 3 | 13% | 1952 | 20 | 0% | 100% |
| 1925 | 6 | 0 | 6 | 30% | 1969 | 20 | 0% | 100% |
| 1926 | 5 | 0 | 5 | 25% | 1982 | 20 | 0% | 100% |
| 1927 | 12 | 0 | 12 | 62% | 1995 | 20 | 0% | 100% |
| 1928 | 12 | 0 | 12 | 59% | 1938 | 20 | 0% | 100% |
| 1929 | 4 | 0 | 4 | 22% | 1983 | 20 | 0% | 100% |
| 1930 | 4 | 0 | 4 | 20% | 2003 | 20 | 10% | 98% |
| 1931 | 7 | 0 | 7 | 33% | 1941 | 19 | 11% | 93% |
| 1932 | 3 | 0 | 3 | 13% | 1958 | 18 | 12% | 92% |
| 1933 | 8 | 0 | 8 | 38% | 1967 | 18 | 14% | 91% |
| 1934 | 2 | 0 | 2 | 11% | 1996 | 18 | 15% | 88% |
| 1935 | 14 | 0 | 14 | 69% | 1942 | 17 | 16% | 87% |
| 1936 | 13 | 0 | 13 | 63% | 1922 | 15 | 17% | 77% |
| 1937 | 12 | 0 | 12 | 59% | 1951 | 15 | 19% | 75% |
| 1938 | 20 | 0 | 20 | 100% | 1984 | 15 | 20% | 74% |
| 1939 | 5 | 0 | 5 | 24% | 1980 | 15 | 21% | 74% |
| 1940 | 13 | 0 | 13 | 65% | 1999 | 14 | 22% | 72% |
| 1941 | 19 | 0 | 19 | 93% | 1974 | 14 | 23% | 72% |
| 1942 | 17 | 0 | 17 | 87% | 1945 | 14 | 25% | 71% |
| 1943 | 14 | 0 | 14 | 69% | 1966 | 14 | 26% | 71% |
| 1944 | 4 | 0 | 4 | 22% | 1970 | 14 | 27% | 70% |
| 1945 | 14 | 0 | 14 | 71% | 1935 | 14 | 28% | 69% |
| 1946 | 9 | 0 | 9 | 46% | 1943 | 14 | 30% | 69% |
| 1947 | 9 | 0 | 9 | 47% | 1973 | 14 | 31% | 69% |
| 1948 | 10 | 0 | 10 | 52% | 1956 | 14 | 32% | 68% |
| 1949 | 4 | 0 | 4 | 19% | 1989 | 13 | 33% | 67% |
| 1950 | 11 | 0 | 11 | 56% | 1940 | 13 | 35% | 65% |
| 1951 | 15 | 0 | 15 | 75% | 2000 | 13 | 36% | 65% |
| 1952 | 20 | 0 | 20 | 100% | 1985 | 13 | 37% | 64% |
| 1953 | 9 | 0 | 9 | 46% | 1963 | 13 | 38% | 64% |
| 1954 | 12 | 0 | 12 | 59% | 1936 | 13 | 40% | 63% |
| 1955 | 6 | 0 | 6 | 30% | 1927 | 12 | 41% | 62% |
| 1956 | 14 | 0 | 14 | 68% | 1993 | 12 | 42% | 62% |
| 1957 | 11 | 0 | 11 | 56% | 1997 | 12 | 43% | 60% |
| 1958 | 18 | 0 | 18 | 92% | 1937 | 12 | 44% | 59% |
| 1959 | 9 | 0 | 9 | 46% | 1928 | 12 | 46% | 59% |
| 1960 | 6 | 0 | 6 | 29% | 1986 | 12 | 47% | 59% |
| 1961 | 8 | 0 | 8 | 40% | 1954 | 12 | 48% | 59% |
| 1962 | 10 | 0 | 10 | 50% | 1923 | 11 | 49% | 57% |
| 1963 | 13 | 0 | 13 | 64% | 1975 | 11 | 51% | 57% |
| 1964 | 9 | 0 | 9 | 43% | 1957 | 11 | 52% | 56% |
| 1965 | 11 | 0 | 11 | 56% | 1965 | 11 | 53% | 56% |

| SWP Table A Deliveries for 2019 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 |
| 1966 | 14 | 0 | 14 | 71% | 1950 | 11 | 54% | 56% |
| 1967 | 18 | 0 | 18 | 91% | 1948 | 10 | 56% | 52% |
| 1968 | 8 | 0 | 8 | 41% | 1962 | 10 | 57% | 50% |
| 1969 | 20 | 0 | 20 | 100% | 1979 | 9 | 58% | 47% |
| 1970 | 14 | 0 | 14 | 70% | 1947 | 9 | 59% | 47% |
| 1971 | 8 | 0 | 8 | 41% | 1953 | 9 | 60% | 46% |
| 1972 | 7 | 0 | 7 | 37% | 1946 | 9 | 62% | 46% |
| 1973 | 14 | 0 | 14 | 69% | 1959 | 9 | 63% | 46% |
| 1974 | 14 | 0 | 14 | 72% | 1964 | 9 | 64% | 43% |
| 1975 | 11 | 0 | 11 | 57% | 2002 | 9 | 65% | 43% |
| 1976 | 7 | 0 | 7 | 33% | 1968 | 8 | 67% | 41% |
| 1977 | 2 | 0 | 2 | 9% | 1971 | 8 | 68% | 41% |
| 1978 | 20 | 0 | 20 | 100% | 1961 | 8 | 69% | 40% |
| 1979 | 9 | 0 | 9 | 47% | 1933 | 8 | 70% | 38% |
| 1980 | 15 | 0 | 15 | 74% | 1972 | 7 | 72% | 37% |
| 1981 | 7 | 0 | 7 | 34% | 1981 | 7 | 73% | 34% |
| 1982 | 20 | 0 | 20 | 100% | 1976 | 7 | 74% | 33% |
| 1983 | 20 | 0 | 20 | 100% | 1931 | 7 | 75% | 33% |
| 1984 | 15 | 0 | 15 | 74% | 1925 | 6 | 77% | 30% |
| 1985 | 13 | 0 | 13 | 64% | 1955 | 6 | 78% | 30% |
| 1986 | 12 | 0 | 12 | 59% | 1960 | 6 | 79% | 29% |
| 1987 | 4 | 0 | 4 | 21% | 1926 | 5 | 80% | 25% |
| 1988 | 2 | 0 | 2 | 10% | 1939 | 5 | 81% | 24% |
| 1989 | 13 | 0 | 13 | 67% | 1929 | 4 | 83% | 22% |
| 1990 | 3 | 0 | 3 | 13% | 1944 | 4 | 84% | 22% |
| 1991 | 4 | 0 | 4 | 20% | 1987 | 4 | 85% | 21% |
| 1992 | 3 | 0 | 3 | 17% | 1930 | 4 | 86% | 20% |
| 1993 | 12 | 0 | 12 | 62% | 1991 | 4 | 88% | 20% |
| 1994 | 4 | 0 | 4 | 18% | 1949 | 4 | 89% | 19% |
| 1995 | 20 | 0 | 20 | 100% | 1994 | 4 | 90% | 18% |
| 1996 | 18 | 0 | 18 | 88% | 1992 | 3 | 91% | 17% |
| 1997 | 12 | 0 | 12 | 60% | 2001 | 3 | 93% | 16% |
| 1998 | 20 | 0 | 20 | 100% | 1924 | 3 | 94% | 13% |
| 1999 | 14 | 0 | 14 | 72% | 1932 | 3 | 95% | 13% |
| 2000 | 13 | 0 | 13 | 65% | 1990 | 3 | 96% | 13% |
| 2001 | 3 | 0 | 3 | 16% | 1934 | 2 | 98% | 11% |
| 2002 | 9 | 0 | 9 | 43% | 1988 | 2 | 99% | 10% |
| 2003 | 20 | 0 | 20 | 98% | 1977 | 2 | 100% | 9% |
| Average | 11 | 0 | 11 | 54% | | 11 | | 54% |
| Maximum | 20 | 0 | 20 | 100% | | 20 | | 100% |
| Minimum | 2 | 0 | 2 | 9% | | 2 | | 9% |