



Draft Technical Addendum to The State Water Project Delivery Reliability Report 2013

September 2013

State of California
Natural Resources Agency
Department of Water Resources

DRAFT

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Updates to Model Input Data

Article 21 Demands

Existing Conditions

The Article 21 demands used in the 2013 SWP Delivery Reliability Report (DRR) are shown in Tables 1 and 2. These demands are identical to those used in the 2011 DRR Report. Table 1 shows the demand patterns that were assumed during normal hydrology conditions and Table 2 shows the patterns that were used 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).

Future Conditions

The Article 21 demands used in the 2011 DRR Future Condition scenarios are the same as those developed for the Existing Conditions study.

Table 1. 2013 DRR 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	2	0	2
Nov	180	18	0	2	14	214
Dec	180	18	200	2	14	414
Jan	180	18	200	2	14	414
Feb	180	18	200	2	14	414
Mar	180	18	200	2	14	414
Apr	180	18	0	2	14	214
May	180	18	0	2	14	214
Jun	180	18	0	2	14	214
Jul	0	0	0	2	0	2
Aug	0	0	0	2	0	2
Sep	0	0	0	2	0	2

1. Values shown are the maximum amount that can be taken monthly. However, the actual capability of SWP water contractors to take this amount of Article 21 is not the sum of these maximum monthly values.

Table 2. 2013 DRR Article 21 Demands in Kern Wet 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	2	0	2
Nov	0	0	0	2	0	2
Dec	0	0	200	2	0	202
Jan	0	0	200	2	0	202
Feb	0	0	200	2	0	202
Mar	0	0	200	2	0	202
Apr	0	0	0	2	0	2
May	0	0	0	2	0	2
Jun	0	0	0	2	0	2
Jul	0	0	0	2	0	2
Aug	0	0	0	2	0	2
Sep	0	0	0	2	0	2

1. Values shown are the maximum amount that can be taken monthly. However, the actual capability of SWP water contractors to take this amount of Article 21 is not the sum of these maximum monthly values.

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Table A Amounts and Article 56 Carryover

The State Water Contractors' Article 56 carryover storage used in the 2013 DRR is shown in Table 3. This data is identical to that used in the 2011 DRR Report. The existing and future condition scenarios are assumed to be the same. The Table A amounts (listed in Table 3) for the 2013 DRR reflect the maximum Table A amounts for the contractors.

Table 3. 2013 DRR Table A Demand and Article 56 Carryover (Existing and Future Conditions)

Contractor Name	Table A amount (TAF)	Table A request for given demand level (TAF)			Article 56 request for given demand level (TAF)		
		100%	50%	30%	100%	50%	30%
ALAMEDA COUNTY FC&WCD-ZONE 7	80.62	78.40	38.09	24.19	2.22	2.22	
ALAMEDA COUNTY WD	42.00	42.00	21.00	12.60			
ANTELOPE VALLEY-EAST KERN WA	141.40	141.40	70.70	42.42			
CASTAIC LAKE WA - AG	12.70	12.70	6.35	3.81			
CITY OF YUBA CITY	9.60	9.60	4.80	2.88			
COACHELLA VALLEY WD	138.35	128.45	69.18	41.51	9.90		
COUNTY OF BUTTE	27.50	27.50	13.75	8.25			
COUNTY OF KINGS	9.31	9.31	4.66	2.79			
CRESTLINE-LAKE ARROWHEAD WA	5.80	5.80	2.90	1.74			
DESERT WA	55.75	43.85	27.88	16.73	11.90		
DUDLEY RIDGE WD	50.34	50.34	25.17	15.10			
EMPIRE WEST SIDE ID	2.00	2.00	1.00	0.60			
KERN COUNTY WA - AG	848.13	848.13	424.07	254.44			
LITTLEROCK CREEK ID	2.30	2.30	1.15	0.69			
METROPOLITAN WDSC	1,911.50	1,711.50	955.75	573.45	200.00		
MOJAVE WA	82.80	82.80	41.40	24.84			
NAPA COUNTY FC&WCD	29.03	29.03	14.52	8.71			
OAK FLAT WD	5.70	5.70	2.85	1.71			
PALMDALE WD	21.30	21.30	10.65	6.39			
SAN BERNARDINO VALLEY MWD	102.60	91.20	51.30	30.78	11.40		
SAN GABRIEL VALLEY MWD	28.80	28.80	14.40	8.64			
SAN GORGONIO PASS WA	17.30	17.30	8.65	5.19			
SAN LUIS OBISPO COUNTY FC&WCD	25.00	25.00	12.50	7.50			
SANTA BARBARA COUNTY FC&WCD	45.49	45.49	22.75	13.65			
SANTA CLARA VALLEY WD	100.00	100.00	50.00	30.00			
SOLANO COUNTY WA	47.51	47.51	23.76	14.25			
TULARE LAKE BASIN WSD	88.92	88.92	44.46	26.68			
VENTURA COUNTY WPD	20.00	20.00	10.00	6.00			
KERN COUNTY WA - MI	134.60	134.60	67.30	40.38			
CASTAIC LAKE WA - MI	82.50	82.50	41.25	24.75			
Total	4,168.85	3,933.43	2,082.24	1,250.67	235.42	2.22	0.00

Updates in Model Assumptions

Overview of Model Assumptions

Many of the model assumptions developed for the 2011 DRR simulations were also used for the 2013 DRR report update, with exceptions noted below. A full discussion of the assumptions pertaining to the National Marine Fisheries Service and U.S. Fish and Wildlife Service Biological Opinions, and an overview of the CalSim II simulation software used to develop and run the 2013 DRR studies can be found in the 2009 DRR update at

<http://baydeltaoffice.water.ca.gov/swpreliability/Reliability2010final101210.pdf>.

Model Sequence

The SWP operation simulations in this report use the CalSim II model developed for the May 2013 DWR-USBR Baseline Study that was then modified specifically for the DRR studies. The 2013 DWR-USBR Baseline Study model was developed by adding three layers of code updates to the 2011 DRR model. The three code updates since the 2011 DRR model are:

1) BDCP Code Updates (August 2011)

- Corrections associated with implementation of assumptions for Existing Conditions and No Action Alternative (ex: inclusion of Los Vaqueros expansion project for future level models)
- General improvements to the CalSim II model (ex: revise C407 and NBA weights to avoid non-unique solutions and improve compatibility between alternatives)
- Improvements to the operations of the BDCP Alternative 1 and to the comparative analysis of results (ex: use correct DXC regression equations based on DSM2 model results) (No effect on DRR 2013 model, which only focuses on Existing and Future No Action alternatives)

2) Sharing Code Fix (September 2012)

- Export-Inflow ratio sharing logic
- Hood MIF based on export estimates and other Delta MIF
- Banks pumping plant pumps CVP water for SWP Health and Safety requirement (300 cfs)
- Feather river flow compliance in November restricts Oroville release for Banks Pumping Plant Health and Safety requirement and SWP COA obligations (300 cfs)

3) DWR-USBR Baseline with SJR Updates (May 2013)

- Improved computation of Vernalis flow requirements in April-May pulse and non-pulse periods
- VAMP period export cap (from SJR Agreement) turned off, as Reclamation no longer operates to this requirement
- Implemented a fix for Tuolumne minimum flows
- Updates on: Stanislaus CVP contractor schedule, Stanislaus operations, New storage-discharge curve for New Melones, and Chowchilla Bypass
- Removed Sacramento River Water Reliability Project in Future study
- Converted to a single step study (removed transfer step)
- Implemented SJR exchange contractor shorting fix

Summary of Differences in Assumptions between 2011 DRR and 2013 DRR

Major differences between the 2011 DRR and 2013 DRR assumptions are explained below.

- 1) The 2013 DRR uses the full Table A amounts for south of delta SWP demands in both the existing and future conditions. The 2011 DRR used a variable demand for existing conditions.
- 2) The 2013 DRR now includes the Los Vaqueros expansion project and 195 TAF/year demands in both the existing and future condition.
- 3) The 2013 DRR future condition no longer includes the permit terms for American River Flow Management as anticipated by the SWRCB order. The existing condition of the 2011 DRR (American River Flow Management as required by NMFS BO Action II.1) is applied to both the existing and future conditions of the 2013 DRR.
- 4) The Red Bluff Diversion dam has gates out all year long (NMFS BO Action I.3.1) under both existing and future conditions of the 2013 DRR. Permanent facilities are also assumed to be in place. Under the existing condition of the 2011 DRR, the diversion dam gates were not out in June 15th through August 31st (based on NMFS BO Action I.3.2) and it was assumed that interim facilities were in place.
- 5) The Delta-Mendota Canal-California Aqueduct Intertie is now in place as an existing facility in the 2013 DRR, allowing for additional exports at Jones Pumping Plant.
- 6) The North Bay Aquaduct demand increased from 71 TAF to 77 TAF in the existing condition.
- 7) Existing condition input hydrology differences (2005A01ASV.DSS file):
 - a. The pattern assumed for Article 21 deliveries during the month of October was corrected from 1954-1968.
 - b. SB_DEMAND: Limits South Bay delivery of water from Los Vaqueros. Pipeline turned off in baseline so it never controls.
 - c. SF_DEMAND: Limits San Filipe Bay delivery of water from Los Vaqueros. Pipeline turned off in baseline so it never controls.
 - d. YUBA_TRANS: Renamed from YUBA_TRANS_EWA.
 - e. REST_REQ_NP and REST_REQ_P: Interim SJRR flows.
 - f. Article 56 request by Mojave Water Agency was corrected from 37 TAF to 0 TAF.
- 8) Future condition input hydrology differences (2020D09ESV.DSS file):
 - a. The pattern assumed for Article 21 deliveries during the month of October was corrected from 1954-1968.
 - b. Representation of deliveries on the American and Sacramento Rivers:

ALLOC_D168B_EBMUD, DEM_D167A_WR_ANN, DEM_D167B_PMI_A, and DEM_D302A_WR_ANN, DEM_DSA70_PMI, NP_DR70_IMI, PERDEM_70SCWQ, and PRJ_DR70_IMI were modified by Reclamation to match the 2008 OCAP study.

- c. WQ408_OR, WQ408_RS, and WQ_VC: updated inputs related to Los Vaqueros Expansion.
 - d. YUBA_TRANS: Renamed from YUBA_TRANS_EWA.
 - e. DEM_D8A_WR_ANN and DEM_D8G_WR_ANN: Corrected to accurately represent demand associated with the Sac Suburban WD's demand for water from PCWA (29 TAF) and Roseville's demand for water from PCWA (30 TAF).
 - f. Removed all transfer related timeseries since no longer using a two-step study.
 - g. Cleaned up the SV file to remove all timeseries that are no longer used by the CalSim study.
- 9) The 2011 DRR report used climate change input hydrology from the MPI-ECHAM5 with the A2 emission scenario, but the 2013 DRR update uses the climate change input hydrology developed for the Bay Delta Conservation Plan (BDCP) for the Late Long Term planning horizon and the 5th climate change region (BDCP LLT CC5 input hydrology).
- 10) The 2013 DRR studies are run on latest software engine - Water Resources Integrated Modeling System 2.0 (WRIMS 2). The 2011 DRR studies were run on WRIMS 1.

CalSim II Modeling Assumptions

Table 4. CalSim II Modeling Assumptions for 2013 Delivery Reliability Report

	Existing Condition ¹	Future Condition ¹
Planning Horizon	2013	Interpolation to 2033 Future using data from 2013 Future No Climate Change and 2050 Future with Climate Change
Period of Simulation	82 years (1922-2003)	
HYDROLOGY		
Level of Development (land use)	2005 Level ²	2030 Level ³
DEMANDS		
North of Delta (excluding the American River)		
CVP	Land-use based, limited by contract amounts ⁴	Land-use based, full build-out of contract amounts
SWP (FRSA)	Land-use based, limited by contract amounts ⁵	
Non-project	Land-use based, limited by water rights and SWRCB Decisions for Existing Facilities	
Antioch Water Works	Pre-1914 water right	
Federal refuges	Recent historical Level 2 water needs ⁶	Firm Level 2 water needs ⁶
American River Basin		
Water rights	Year 2005 ⁷	Year 2025, full water rights ⁷
CVP	Year 2005 ⁷	Year 2025, full contracts, including Freeport Regional Water Project ⁷
San Joaquin River Basin⁹		
Friant Unit	Limited by contract amounts, based on current allocation policy	
Lower basin	Land-use based, based on district level operations and constraints	
Stanislaus River basin ^{10 19}	Land-use based, based on New Melones Interim Operations Plan, up to full CVP Contractor deliveries (155 TAF/yr) depending on New Melones Index	
South of Delta		
CVP	Demand based on contract amounts ⁴	
Federal refuges	Recent historical Level 2 water needs ⁶	Firm Level 2 water needs ⁶
CCWD	195 TAF/yr CVP contract supply and water rights ¹¹	
SWP ^{5 12}	Demand based on full Table A amounts (4.13 MAF/year)	
Article 56	Based on 2001-2008 contractor requests	
Article 21	MWD demand up to 200 TAF/month (December-March) subject to conveyance capacity, KCWA demand up to 180 TAF/month, and other contractor demands up to 34 TAF/month, subject to conveyance capacity	
North Bay Aqueduct	77 TAF/yr demand under SWP contracts, up to 43.7 cfs of excess flow under Fairfield, Vacaville and Benicia Settlement Agreement	

	Existing Condition ¹	Future Condition ¹
FACILITIES		
System-wide	Existing facilities	
Sacramento Valley		
Shasta Lake	Existing, 4,552 TAF capacity	
Red Bluff Diversion Dam	Diversion dam operated with gates out all year, NMFS BO (Jun 2009) Action I.3.1 ¹⁹ ; assume permanent facilities in place	
Colusa Basin	Existing conveyance and storage facilities	
Upper American River	PCWA American River pump station	
Lower Sacramento River	None	Freeport Regional Water Project
Fremont Weir	Existing Weir	
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 8,500 cfs during Dec 15 th - Mar 15 th depending on Vernalis flow conditions ²⁰ ; 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 ¹⁹ on SWP ²¹	
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)	
Upper Delta-Mendota Canal Capacity	Exports limited to 4,200 cfs plus diversion upstream from DMC constriction plus 400 cfs Delta-Mendota Canal-California Aqueduct Intertie	
Los Vaqueros Reservoir	Enlarged storage capacity (160 TAF), existing pump location, Alternate Intake Project included ¹⁴	
San Joaquin River		
Millerton Lake (Friant Dam)	Existing, 520 TAF capacity	
Lower San Joaquin River	None	City of Stockton Delta Water Supply Project, 30 mgd capacity
South of Delta (CVP/SWP project facilities)		
South Bay Aqueduct	Existing capacity	SBA rehabilitation, 430 cfs capacity from junction with California Aqueduct to Alameda County FC&WSD Zone 7 point
California Aqueduct East Branch	Existing capacity	
REGULATORY STANDARDS		
Trinity River		
Minimum Flow below Lewiston Dam	Trinity EIS Preferred Alternative (369-815 TAF/yr)	
Trinity Reservoir end-of-September minimum storage	Trinity EIS Preferred Alternative (600 TAF as able)	
Clear Creek		
Minimum flow below Whiskeytown Dam	Downstream water rights, 1963 Reclamation proposal to USFWS and NPS, predetermined Central Valley Protection Improvement Act 3406(b)(2) flows ²² , and NMFS BO (Jun 2009) Action I.1.1 ¹⁹	

	Existing Condition ¹	Future Condition ¹
Upper Sacramento River		
Shasta Lake end-of-September minimum storage	NMFS 2004 Winter-run Biological Opinion (1900 TAF in non-critical dry years), and NMFS BO (Jun 2009) Action I.2.1 ¹⁹	
Minimum flow below Keswick Dam	Flows for the SWRCB Water Rights Order 90-5, predetermined Central Valley Protection Improvement Act 3406(b)(2) flows, and NMFS BO (Jun 2009) Action I.2.2 ¹⁹	
Feather River		
Minimum flow below Thermalito Diversion Dam	2006 Settlement Agreement (700 / 800 cfs).	
Minimum flow below Thermalito Afterbay outlet	1983 DWR, DFG agreement (750 – 1,700 cfs)	
Yuba River		
Minimum flow below Daguerre Point Dam	D-1644 Operations (Lower Yuba River Accord) ¹⁵	
American River		
Minimum flow below Nimbus Dam	American River Flow Management as required by NMFS BO (Jun 2009) Action II.1 ¹⁹	
Minimum flow at H Street Bridge	SWRCB D-893	
Lower Sacramento River		
Minimum flow near Rio Vista	SWRCB D-1641	
Mokelumne River		
Minimum flow below Camanche Dam	Federal Energy Regulatory Commission 2916-029 ¹³ , 1996 (Joint Settlement Agreement) (100 – 325 cfs)	
Minimum flow below Woodbridge Diversion Dam	Federal Energy Regulatory Commission 2916-029, 1996 (Joint Settlement Agreement) (25 – 300 cfs)	
Stanislaus River		
Minimum flow below Goodwin Dam	1987 Reclamation, DFG agreement, and flows required for NMFS BO (Jun 2009) Action III.1.2 and III.1.3 ¹⁹	
Minimum dissolved oxygen	SWRCB D-1422	
Merced River		
Minimum flow below Crocker-Huffman Diversion Dam	Davis-Grunsky (180 – 220 cfs, Nov – Mar), and Cowell Agreement	
Minimum flow at Shaffer Bridge	Federal Energy Regulatory Commission 2179 (25 – 100 cfs)	
Tuolumne River		
Minimum flow at Lagrange Bridge	Federal Energy Regulatory Commission 2299-024, 1995 (Settlement Agreement) (94 – 301 TAF/yr)	
San Joaquin River		
San Joaquin River below Friant Dam/Mendota Pool	Interim San Joaquin River Restoration flows	Full San Joaquin River Restoration flows
Maximum salinity near Vernalis	SWRCB D-1641	

	Existing Condition ¹	Future Condition ¹
Minimum flow near Vernalis	SWRCB D-1641 but with Vernalis Adaptive Management Plan single-step standard only, per purchase agreement between Reclamation and Merced ID. NMFS BO (Jun 2009) Action IV.2.1 Phase II flows not provided due to lack of agreement for purchasing water.	SWRCB D-1641 and Vernalis Adaptive Management Plan per San Joaquin River Agreement. ¹⁷ NMFS BO (Jun 2009) Action IV.2.1 Phase II flows not provided due to lack of agreement for purchasing water.
Sacramento-San Joaquin Delta		
Delta Outflow Index (flow and salinity)	SWRCB D-1641 and FWS BO (Dec 2008) Action 4 ¹⁹	
Delta Cross Channel gate operation	SWRCB D-1641 with additional days closed from Oct 1-Jan 31 based on NMFS BO (Jun 2009) Action IV.1.2 ¹⁹ (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 export limits (not including VAMP period export cap under the San Joaquin River Agreement) and Vernalis flow-based export limits in Apr -May as required by NMFS BO (June 2009) Action IV.2.1 Phase II ¹⁹ (additional 500 cfs allowed for Jul-Sep for reducing impact on SWP) ²¹	
Combined Flow in Old and Middle River (OMR)	FWS BO (Dec 2008) Actions 1-3 and NMFS BO (Jun 2009) Action IV.2.3 ¹⁹	
OPERATIONS CRITERIA: RIVER-SPECIFIC		
Upper Sacramento River		
Flow objective for navigation (Wilkins Slough)	NMFS BO (Jun 2009) Action I.4 ¹⁹ ; 3,250 – 5,000 cfs based on CVP water supply condition	
American River		
Folsom Dam flood control	Variable 400/670 flood control diagram (without outlet modifications)	
Feather River		
Flow at mouth of Feather River (above Verona)	Maintain the DFG/DWR flow target of 2,800 cfs for Apr - Sep dependent on Oroville inflow and FRSA allocation	
Stanislaus River		
Flow below Goodwin Dam	Revised Operations Plan and NMFS BO (Jun 2009) Action III.1.2 and III.1.3 ¹⁹	
San Joaquin River		
Salinity at Vernalis	Grasslands Bypass Project (partial implementation)	Grasslands Bypass Project (full implementation)
OPERATIONS CRITERIA: SYSTEMWIDE		
CVP Water Allocation		
CVP settlement and exchange	100% (75% in Shasta critical years)	
CVP refuges	100% (75% in Shasta critical years)	
CVP agriculture	100% - 0% based on supply. South-of-Delta allocations are additionally limited due to D-1641, FWS BO (Dec 2008), and NMFS BO (Jun 2009) export restrictions ¹⁹	
CVP municipal & industrial	100% - 50% based on supply. South-of-Delta allocations are additionally limited due to D-1641, FWS BO (Dec 2008), and NMFS BO (Jun 2009) export restrictions ¹⁹	
SWP Water Allocation		

	Existing Condition ¹	Future Condition ¹
North of Delta (FRSA)	Contract-specific	
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, FWS BO (Dec 2008), and NMFS BO (Jun 2009) export restrictions ¹⁹	
CVP/SWP Coordinated Operations		
Sharing of responsibility for in-basin use	1986 Coordinated Operations 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)	
Sharing of surplus flows	1986 Coordinated Operations Agreement	
Sharing of restricted export capacity for project-specific priority pumping	Equal sharing of export capacity under SWRCB D-1641, FWS BO (Dec 2008), and NMFS BO (Jun 2009) export restrictions ¹⁹	
Water transfers	Acquisitions by SWP contractors are wheeled at priority in Banks Pumping Plant over non-SWP users; LYRA included for SWP contractors ²¹	
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)	
San Luis Reservoir	San Luis Reservoir is allowed to operate to a minimum storage of 100 TAF	
CVPIA 3406(b)(2)		
Policy decision	Per May 2003 Department of Interior decision	
Allocation	800 TAF/yr, 700 TAF/yr in 40-30-30 dry years, and 600 TAF/yr in 40-30-30 critical years	
Actions	Pre-determined non-discretionary FWS BO (Dec 2008) upstream fish flow objectives (Oct-Jan) for Clear Creek and Keswick Dam, non-discretionary NMFS BO (Jun 2009) actions for the American and Stanislaus Rivers, and NMFS BO (Jun 2009) actions leading to export restrictions ¹⁹	
Accounting adjustments	No discretion assumed under FWS BO (Dec 2008) and NMFS BO (Jun 2009) ¹⁹ , no accounting	
WATER MANAGEMENT ACTIONS		
Water Transfer Supplies (long term programs)		
Lower Yuba River Accord ²¹	Yuba River acquisitions for reducing impact of NMFS BO export restrictions ¹⁹ on SWP	
Phase 8	None	
Water Transfers (short term or temporary programs)		
Sacramento Valley acquisitions conveyed through Banks PP ²³	Post analysis of available capacity	

Notes:

- ¹ These assumptions have been developed under the direction of the Department of Water Resources and Bureau of Reclamation management team for the Bay Delta Conservation Plan (BDCP) HCP and EIR/EIS. Additional modifications were made by Reclamation for its May 2013 baselines and by DWR for the 2013 DRR.
- ² The Sacramento Valley hydrology used in the Existing Condition CalSim-II model reflects nominal 2005 land-use assumptions. The nominal 2005 land use was determined by interpolation between the 1995 and projected 2020 land-use assumptions associated with DWR Bulletin 160-98 (1998). The San Joaquin Valley hydrology reflects 2005 land-use assumptions developed by Reclamation to support Reclamation studies.
- ³ The Sacramento Valley hydrology used in the Future Condition 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 to support Reclamation studies.
- ⁴ 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 documented in the Delivery Specifications attachments to the BDCP CalSim assumptions document.
- ⁵ SWP contract amounts have been updated as appropriate based on recent Table A transfers/agreements. Assumptions regarding SWP agricultural and M&I contract amounts are documented in the Delivery Specifications attachments to the BDCP CalSim assumptions document.
- ⁶ Water needs for Federal refuges have been reviewed and updated, as appropriate. Assumptions regarding firm Level 2 refuge water needs are documented in the Delivery Specifications attachments to the BDCP CalSim assumptions document. Refuge Level 4 (and incremental Level 4) water is not included.
- ⁷ Assumptions regarding American River water rights and CVP contracts are documented in the Delivery Specifications attachments to the BDCP CalSim assumptions document. The Sacramento Area Water Forum agreement, its dry year diversion reductions, Middle Fork Project operations and “mitigation” water is not included.
- ⁸ Footnote removed.
- ⁹ The new CalSim-II representation of the San Joaquin River has been included in this model package (CalSim-II San Joaquin River Model, Reclamation, 2005). Updates to the San Joaquin River have been included since the preliminary model release in August 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 developed 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
- ¹⁰ The CALSIM II model representation for the Stanislaus River does not necessarily represent Reclamation’s current or future operational policies. A suitable plan for supporting flows has not been developed for NMFS BO (Jun 2009) Action III.1.3.
- ¹¹ The actual amount diverted is reduced because of supplies from the Los Vaqueros project. The existing Los Vaqueros storage capacity is 100 TAF, and future storage capacity is 160 TAF. Associated water rights for Delta excess flows are included.
- ¹² Under Existing Conditions and the Future No Action baseline, 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. Article 21 deliveries are limited in wet years under the assumption that demand is decreased in these conditions. Article 21 deliveries for the NBA 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 have available capacity to divert from the Delta for direct delivery.

- ¹³ Mokelumne River flows reflect EBMUD supplies associated with the Freeport Regional Water Project.
- ¹⁴ The CCWD Alternate Intake Project , an intake at Victoria Canal, which operates as an alternate Delta diversion for Los Vaqueros Reservoir.
- ¹⁵ D-1644 and the Lower Yuba River Accord are assumed to be implemented for Existing and Future No Action baselines. 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 provided by the Lower Yuba River Accord EIS/EIR study team.
- ¹⁶ Footnote removed.
- ¹⁷ It is assumed that either VAMP, a functional equivalent, or D-1641 requirements would be in place in 2020.
- ¹⁸ Footnote removed.
- ¹⁹ 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.
- ²⁰ 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 8,500 cfs, if Vernalis flow exceeds 1,000 cfs.
- ²¹ 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.
- ²² Delta actions, under USFWS discretionary use of CVPIA 3406(b)(2) allocations, are no longer dynamically operated and accounted for in the CALSIM II model. The Combined Old and Middle River Flow and Delta Export restrictions under the FWS BO (Dec 15th 2008) and the NMFS BO (June 4th 2009) severely limit any discretion that would have been otherwise assumed in selecting Delta actions under the CVPIA 3406(b)(2) accounting criteria. Therefore, it is anticipated that CVPIA 3406(b)(2) account availability for upstream river flows below Whiskeytown, Keswick and Nimbus Dams would be very limited. It appears the integration of BO RPA actions will likely exceed the 3406(b)(2) allocation in all water year types. For these baseline simulations, upstream flows on the Clear Creek and Sacramento River are pre-determined based on CVPIA 3406(b)(2) based operations from the Aug 2008 BA Study 7.0 and Study 8.0 for Existing and Future No Action baselines respectively. The procedures for dynamic operation and accounting of CVPIA 3406(b)(2) are not included in the CALSIM II model.
- ²³ Only acquisitions of Lower Yuba River Accord Component 1 water are included.

Key:

Ag = agricultural
ACOE = Army Corps of Engineers
BO = Biological Opinion
BDCP = Bay-Delta Conservation Plan
CALFED = CALFED Bay-Delta Plan
CCWD = Contra Costa Water District
cfs = cubic feet per second
CVP = Central Valley Project
CVPIA = Central Valley Project Improvement Act
DFG = California Department of Fish and Game
DMC = Delta-Mendota canal
DWR = California Department of Water Resources
D-xxxx = Water Right Decision
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
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
SEWD = Stockton East Water District
SWP = State Water Project
SWRCB = State Water Resources Control Board
TAF = thousand acre-feet
TAF/yr = thousand acre-feet per year
USFWS = United States Fish and Wildlife Service
VAMP = Vernalis Adaptive Management Plan
WR = water right
yr = year

Simulation Results for Existing Conditions

The deliveries shown in this report, as with previous report updates, only include those State Water Contractors that rely on delivery of water from the Sacramento-San Joaquin Delta. Therefore, State Water 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 1 below shows a comparison of SWP Table A delivery exceedance curves from the 2011 report update and the 2013 update. The maximum Table A amount for SWP deliveries from the Delta in the 2013 update is 4,133 taf/year. The Table A deliveries for State Water Contractors under Existing Conditions are shown in Table 5 on the following page. The results for individual Contractor Table A deliveries is included at the end of this addendum.

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

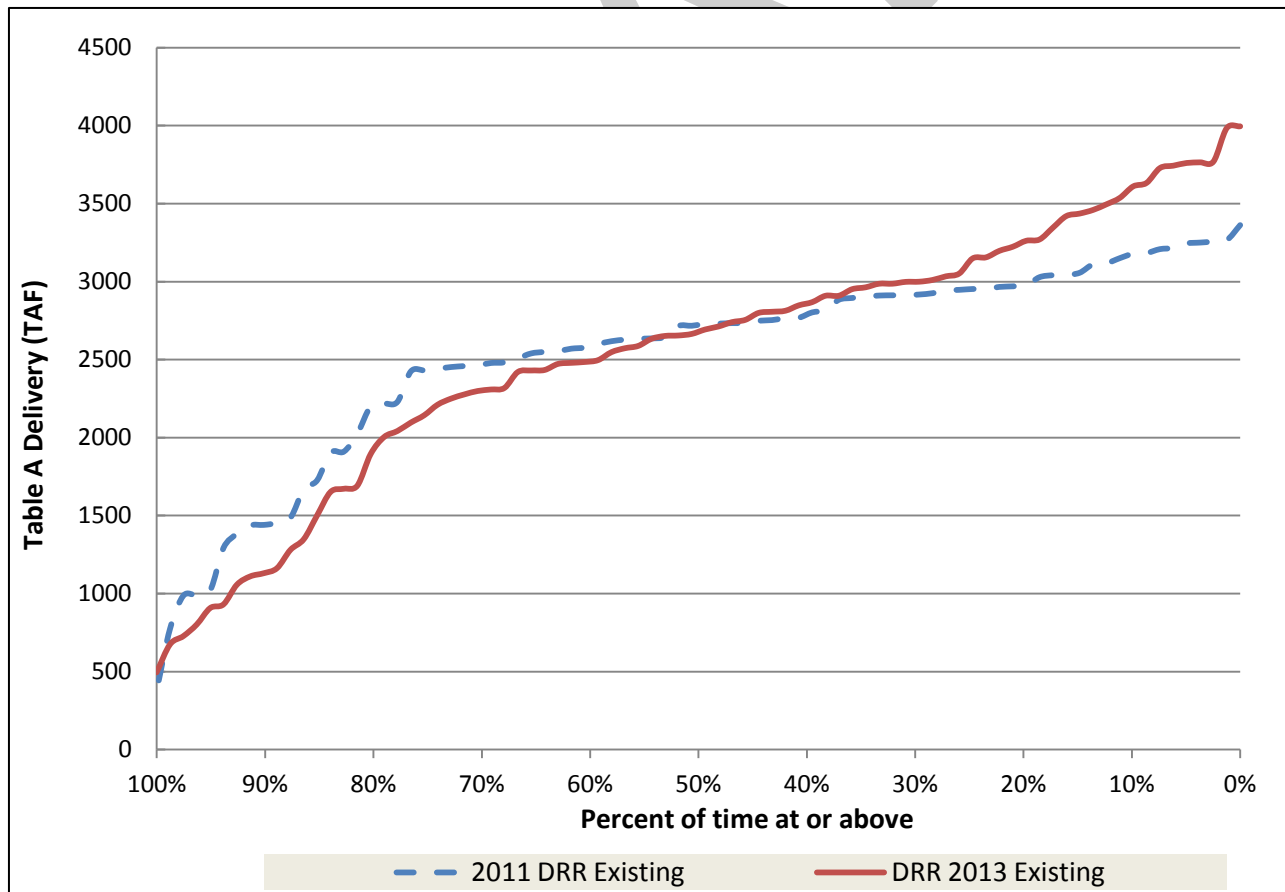


Table 5. SWP Table A Deliveries for Existing Conditions

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	2,868	69%	1983	3,996	0%	97%
1923	4,133	2,634	64%	1938	3,985	1%	96%
1924	4,133	907	22%	1980	3,770	2%	91%
1925	4,133	2,096	51%	1982	3,765	4%	91%
1926	4,133	2,309	56%	1969	3,761	5%	91%
1927	4,133	2,712	66%	1952	3,744	6%	91%
1928	4,133	2,910	70%	1998	3,728	7%	90%
1929	4,133	1,163	28%	1958	3,633	9%	88%
1930	4,133	1,349	33%	1986	3,611	10%	87%
1931	4,133	1,502	36%	1974	3,537	11%	86%
1932	4,133	1,130	27%	1937	3,496	12%	85%
1933	4,133	1,691	41%	1997	3,460	14%	84%
1934	4,133	727	18%	1956	3,437	15%	83%
1935	4,133	2,740	66%	1943	3,421	16%	83%
1936	4,133	3,198	77%	1995	3,346	17%	81%
1937	4,133	3,496	85%	1970	3,270	19%	79%
1938	4,133	3,985	96%	1941	3,262	20%	79%
1939	4,133	2,277	55%	1967	3,224	21%	78%
1940	4,133	2,588	63%	1936	3,198	22%	77%
1941	4,133	3,262	79%	1984	3,156	23%	76%
1942	4,133	2,755	67%	1978	3,149	25%	76%
1943	4,133	3,421	83%	1951	3,052	26%	74%
1944	4,133	1,652	40%	1973	3,034	27%	73%
1945	4,133	2,910	70%	1979	3,011	28%	73%
1946	4,133	2,987	72%	1985	3,000	30%	73%
1947	4,133	2,848	69%	1999	2,999	31%	73%
1948	4,133	2,143	52%	1946	2,987	32%	72%
1949	4,133	2,318	56%	1996	2,987	33%	72%
1950	4,133	2,250	54%	1975	2,964	35%	72%
1951	4,133	3,052	74%	2000	2,952	36%	71%
1952	4,133	3,744	91%	1945	2,910	37%	70%
1953	4,133	2,430	59%	1928	2,910	38%	70%
1954	4,133	2,548	62%	1922	2,868	40%	69%
1955	4,133	1,672	40%	1947	2,848	41%	69%
1956	4,133	3,437	83%	1965	2,813	42%	68%
1957	4,133	2,479	60%	1964	2,807	43%	68%
1958	4,133	3,633	88%	1971	2,800	44%	68%
1959	4,133	2,211	53%	1942	2,755	46%	67%
1960	4,133	2,299	56%	1935	2,740	47%	66%
1961	4,133	2,003	48%	1927	2,712	48%	66%
1962	4,133	2,434	59%	1966	2,693	49%	65%
1963	4,133	2,652	64%	1968	2,665	51%	64%
1964	4,133	2,807	68%	1993	2,655	52%	64%

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	2,813	68%	1963	2,652	53%	64%
1966	4,133	2,693	65%	1923	2,634	54%	64%
1967	4,133	3,224	78%	1940	2,588	56%	63%
1968	4,133	2,665	64%	2003	2,573	57%	62%
1969	4,133	3,761	91%	1954	2,548	58%	62%
1970	4,133	3,270	79%	2002	2,497	59%	60%
1971	4,133	2,800	68%	1989	2,485	60%	60%
1972	4,133	2,421	59%	1957	2,479	62%	60%
1973	4,133	3,034	73%	1981	2,472	63%	60%
1974	4,133	3,537	86%	1962	2,434	64%	59%
1975	4,133	2,964	72%	1953	2,430	65%	59%
1976	4,133	2,042	49%	1972	2,421	67%	59%
1977	4,133	495	12%	1949	2,318	68%	56%
1978	4,133	3,149	76%	1926	2,309	69%	56%
1979	4,133	3,011	73%	1960	2,299	70%	56%
1980	4,133	3,770	91%	1939	2,277	72%	55%
1981	4,133	2,472	60%	1950	2,250	73%	54%
1982	4,133	3,765	91%	1959	2,211	74%	53%
1983	4,133	3,996	97%	1948	2,143	75%	52%
1984	4,133	3,156	76%	1925	2,096	77%	51%
1985	4,133	3,000	73%	1976	2,042	78%	49%
1986	4,133	3,611	87%	1961	2,003	79%	48%
1987	4,133	931	23%	1994	1,895	80%	46%
1988	4,133	1,110	27%	1933	1,691	81%	41%
1989	4,133	2,485	60%	1955	1,672	83%	40%
1990	4,133	802	19%	1944	1,652	84%	40%
1991	4,133	674	16%	1931	1,502	85%	36%
1992	4,133	1,057	26%	1930	1,349	86%	33%
1993	4,133	2,655	64%	2001	1,280	88%	31%
1994	4,133	1,895	46%	1929	1,163	89%	28%
1995	4,133	3,346	81%	1932	1,130	90%	27%
1996	4,133	2,987	72%	1988	1,110	91%	27%
1997	4,133	3,460	84%	1992	1,057	93%	26%
1998	4,133	3,728	90%	1987	931	94%	23%
1999	4,133	2,999	73%	1924	907	95%	22%
2000	4,133	2,952	71%	1990	802	96%	19%
2001	4,133	1,280	31%	1934	727	98%	18%
2002	4,133	2,497	60%	1991	674	99%	16%
2003	4,133	2,573	62%	1977	495	100%	12%
Average	4,133	2,553	62%	Average	2,553		62%
Minimum	4,133	495	12%	Minimum	495		12%
Maximum	4,133	3,996	97%	Maximum	3,996		97%

Article 21 Deliveries

Table 6 below shows the State Water Contractors' Article 21 deliveries for the Existing Conditions

Table 6. 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	2	
1922	2	2	2	2	2	2	2	0	0	0	0	2	16
1923	2	0	2	2	2	0	2	0	0	0	0	0	10
1924	2	2	0	0	0	2	0	2	0	0	2	2	12
1925	2	2	149	2	2	0	0	0	0	0	0	0	157
1926	2	2	0	2	0	0	0	0	0	0	2	2	10
1927	2	2	2	2	2	2	0	0	0	0	0	2	14
1928	2	2	2	2	2	2	2	0	0	0	0	0	14
1929	2	2	1	2	0	0	0	2	0	0	2	2	12
1930	2	2	2	2	2	0	0	2	2	0	0	0	14
1931	2	2	2	0	0	0	0	2	0	0	2	2	12
1932	2	2	2	2	2	0	0	0	2	2	0	0	14
1933	2	56	79	2	2	0	0	2	0	0	2	2	147
1934	2	2	0	0	0	0	0	2	0	0	2	2	10
1935	2	2	2	2	2	0	0	0	0	0	0	0	10
1936	2	2	49	2	1	0	0	0	0	0	0	2	59
1937	2	2	184	2	1	0	0	0	0	0	1	2	194
1938	2	2	148	2	0	0	0	0	0	0	0	2	156
1939	2	0	2	0	2	2	0	0	0	1	0	0	9
1940	2	2	2	2	2	2	2	0	0	0	0	2	16
1941	2	2	2	2	1	1	0	0	0	0	0	2	13
1942	2	2	2	2	2	2	0	0	0	0	0	2	14
1943	2	2	2	2	1	0	2	0	0	0	0	2	13
1944	2	2	2	2	2	0	0	0	0	0	2	2	14
1945	2	85	208	2	2	0	0	0	0	0	2	2	302
1946	2	2	2	2	2	0	2	0	0	0	0	2	14
1947	2	2	2	2	2	0	0	2	1	0	0	2	15
1948	2	0	2	2	2	2	0	0	0	0	0	2	12
1949	2	2	2	2	2	0	0	1	0	0	0	0	11
1950	2	2	2	2	2	0	0	0	0	0	2	2	14
1951	71	237	226	2	2	2	2	0	0	0	0	2	543
1952	2	2	2	2	0	1	0	0	0	0	0	2	11
1953	2	2	2	2	2	2	0	0	1	0	0	2	15
1954	2	2	2	2	2	2	2	0	0	0	0	2	16
1955	2	2	2	2	2	2	0	0	0	2	0	2	16
1956	104	235	210	2	1	1	0	0	0	0	0	2	555
1957	2	2	2	2	2	0	2	0	0	2	2	2	18
1958	2	2	2	2	0	0	0	0	0	0	0	1	9
1959	2	2	2	2	2	2	2	0	1	0	0	0	15
1960	2	2	2	0	2	0	0	1	0	0	2	2	13
1961	2	2	2	0	2	2	0	0	0	2	0	2	14
1962	0	2	2	2	0	0	2	0	0	2	2	2	14
1963	2	2	2	2	2	0	2	0	0	0	2	2	16
1964	2	2	2	2	0	0	0	2	0	0	2	2	14

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1965	2	2	2	2	2	0	2	0	0	0	0	2	14
1966	2	2	2	2	0	0	2	0	1	0	2	2	15
1967	2	2	2	2	1	2	0	0	0	0	0	2	13
1968	2	2	2	2	2	2	2	0	0	0	2	2	18
1969	2	74	82	2	0	0	0	0	0	0	0	2	162
1970	2	2	108	2	2	2	2	0	0	0	0	2	121
1971	2	2	2	2	2	2	0	0	0	0	0	2	14
1972	2	2	2	2	2	2	2	0	1	0	2	2	19
1973	2	2	2	2	2	0	2	0	0	0	2	2	16
1974	2	2	2	2	1	2	0	0	0	0	0	2	13
1975	2	2	2	2	2	2	0	1	0	0	0	2	15
1976	2	0	2	2	0	2	2	2	0	2	0	2	16
1977	2	0	0	0	0	2	0	2	0	2	0	2	10
1978	2	2	2	2	1	1	0	0	0	0	0	2	13
1979	2	2	2	2	2	0	0	0	0	0	2	2	14
1980	48	110	80	2	0	0	0	0	0	0	0	2	242
1981	2	2	2	2	2	0	0	0	0	0	2	2	14
1982	2	2	87	102	0	0	0	0	0	0	2	2	197
1983	2	2	68	2	0	0	2	0	0	0	92	165	333
1984	160	245	230	2	2	0	2	0	0	0	2	2	645
1985	2	2	2	2	0	0	0	2	0	0	2	2	14
1986	2	2	28	2	0	0	0	0	0	0	0	2	36
1987	2	2	2	0	2	0	0	2	0	0	0	2	12
1988	2	0	0	2	0	0	0	2	0	0	2	0	8
1989	2	0	2	2	0	0	0	0	1	0	0	0	7
1990	2	0	2	0	2	0	0	2	0	0	2	0	10
1991	2	2	2	2	2	0	0	2	0	2	2	0	16
1992	2	2	2	2	0	0	0	2	0	2	2	2	16
1993	2	2	2	2	2	2	0	0	0	0	0	2	14
1994	2	2	2	2	2	2	0	2	0	2	0	2	18
1995	2	2	2	2	0	1	2	0	0	0	0	2	12
1996	2	2	2	2	2	2	0	0	0	0	0	2	14
1997	2	2	12	2	1	2	2	0	0	0	0	2	25
1998	2	2	2	2	0	0	2	0	0	0	2	2	14
1999	2	2	2	2	2	2	0	0	0	0	0	2	14
2000	2	2	2	2	2	0	2	0	0	0	0	2	14
2001	2	2	2	2	2	0	0	2	0	0	2	2	16
2002	2	0	33	2	1	0	0	2	0	0	0	2	43
2003	2	2	2	2	2	0	2	0	0				14
Average	7	14	26	3	1	1	1	1	0	0	2	4	58
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	7
Maximum	160	245	230	102	2	2	2	2	2	2	92	165	645

SWP Exports from the Sacramento-San Joaquin Delta

Table 7 below shows the SWP Exports from the Delta for the Existing Conditions scenario.

Table 7. 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										313	190	442	
1922	219	179	277	61	58	368	411	411	397	225	141	262	3,009
1923	221	156	161	61	43	138	411	411	397	236	181	177	2,591
1924	191	125	18	18	40	18	341	18	33	137	167	246	1,354
1925	197	132	264	67	59	125	252	175	397	204	160	169	2,200
1926	198	99	18	68	53	143	411	292	198	92	397	229	2,198
1927	143	220	228	51	43	171	411	411	397	196	131	437	2,837
1928	204	123	264	45	43	151	374	411	397	216	86	288	2,602
1929	203	184	173	91	18	18	18	18	43	64	70	193	1,095
1930	146	142	155	62	42	96	411	325	330	133	85	86	2,013
1931	199	114	62	18	18	18	81	18	24	58	92	441	1,143
1932	210	242	157	18	43	18	411	26	275	111	73	133	1,716
1933	202	276	100	46	43	18	116	18	37	71	62	228	1,218
1934	202	206	96	18	38	18	62	18	28	64	199	231	1,181
1935	216	159	154	51	43	138	411	411	397	310	184	286	2,758
1936	136	485	439	61	43	164	411	411	397	281	157	322	3,307
1937	295	472	388	67	75	260	411	411	215	302	397	326	3,619
1938	466	472	434	139	380	397	411	411	361	192	18	435	4,115
1939	208	170	109	36	53	18	411	272	209	100	64	205	1,855
1940	159	191	350	68	43	135	388	411	397	195	81	261	2,680
1941	246	472	465	84	87	235	411	411	364	140	18	259	3,190
1942	306	287	304	71	71	230	411	411	364	175	18	240	2,888
1943	363	336	465	74	50	153	410	411	380	165	18	437	3,261
1944	209	212	152	52	43	111	411	319	155	128	397	244	2,432
1945	210	228	364	51	43	116	411	411	397	320	365	347	3,263
1946	254	171	254	47	43	59	410	411	397	296	286	274	2,902
1947	180	196	82	49	43	101	411	244	343	255	209	137	2,250
1948	124	17	156	42	43	160	411	411	397	227	173	261	2,422
1949	199	183	119	42	43	103	411	342	346	69	118	118	2,092
1950	137	144	212	42	43	62	411	411	397	301	397	472	3,029
1951	467	346	380	46	43	158	362	411	397	186	229	234	3,260
1952	283	227	465	94	141	343	411	411	397	133	18	437	3,359
1953	167	216	228	50	45	115	411	411	397	133	18	394	2,585
1954	127	140	213	43	43	156	357	411	397	200	231	432	2,749
1955	219	174	152	51	43	18	358	156	187	133	231	368	2,090
1956	523	359	387	51	57	253	411	411	381	163	18	433	3,446
1957	203	106	160	50	43	103	408	411	397	411	142	225	2,659
1958	156	228	465	143	122	314	411	411	397	164	18	435	3,263
1959	134	158	218	64	53	99	411	411	397	213	164	163	2,485
1960	199	129	150	18	91	91	411	408	304	85	234	430	2,548
1961	202	114	152	45	49	8	411	52	146	52	160	182	1,573
1962	153	177	236	53	43	48	410	411	397	411	397	214	2,950
1963	146	161	219	45	43	121	411	411	397	246	303	302	2,806
1964	209	159	140	42	43	18	411	372	395	113	179	239	2,319
1965	339	245	260	63	43	151	410	411	388	116	223	461	3,110

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1966	240	222	185	42	43	100	410	411	397	160	225	232	2,667
1967	229	201	275	119	119	397	411	411	397	214	18	433	3,224
1968	208	131	217	62	53	99	410	411	397	233	241	433	2,897
1969	271	334	228	161	380	397	411	411	374	216	18	253	3,455
1970	523	321	452	42	43	110	411	411	394	160	315	243	3,424
1971	203	186	248	52	43	158	411	411	397	152	18	433	2,713
1972	198	102	143	60	44	98	411	411	397	236	397	225	2,721
1973	178	243	253	51	43	169	410	411	397	326	397	271	3,149
1974	272	218	374	57	43	204	411	411	397	251	18	439	3,096
1975	208	179	346	53	43	223	411	411	397	328	18	433	3,051
1976	182	124	181	85	60	18	411	281	300	122	89	84	1,937
1977	96	41	42	18	34	11	18	18	79	18	113	181	671
1978	177	261	305	95	84	316	411	411	397	189	97	437	3,180
1979	241	297	299	54	66	165	411	411	397	324	397	435	3,496
1980	319	238	236	53	56	265	411	411	397	224	20	434	3,065
1981	208	189	152	62	51	98	411	411	397	249	397	224	2,850
1982	236	407	465	364	149	311	411	411	397	411	397	472	4,431
1983	322	179	191	199	240	296	323	411	397	386	397	445	3,787
1984	384	358	384	50	43	121	410	411	397	239	397	432	3,625
1985	208	196	180	66	55	100	411	372	245	277	296	263	2,668
1986	131	469	363	91	88	233	411	411	397	219	18	435	3,265
1987	203	187	145	36	110	97	64	52	128	31	49	204	1,306
1988	144	18	101	53	18	18	286	18	77	18	147	218	1,116
1989	115	64	74	67	50	140	411	411	397	271	137	225	2,363
1990	189	122	63	18	63	14	244	18	109	32	18	81	972
1991	18	71	78	37	49	92	287	18	33	62	20	90	856
1992	90	98	147	42	18	95	18	18	125	23	18	211	903
1993	193	230	242	42	43	236	411	411	397	206	18	429	2,858
1994	197	184	143	43	60	15	411	49	191	28	116	220	1,656
1995	184	202	465	97	380	397	411	411	397	127	68	224	3,364
1996	173	451	424	60	57	199	411	411	397	90	32	472	3,178
1997	523	472	454	42	47	169	380	411	397	124	45	433	3,498
1998	185	472	465	109	128	397	411	411	397	411	397	249	4,032
1999	251	403	305	51	43	170	411	411	397	134	18	430	3,024
2000	136	297	350	49	43	139	379	411	397	142	18	435	2,798
2001	213	169	183	60	18	96	263	34	182	25	188	240	1,672
2002	163	210	160	45	43	100	411	87	320	22	131	234	1,925
2003	139	186	206	42	43	89	411	411	397				2,868
Average	219	220	241	63	68	147	366	320	321	183	161	302	2,612
Minimum	18	17	18	18	18	8	18	18	24	18	18	81	671
Maximum	523	485	465	364	380	397	411	411	397	411	397	472	4,431

Simulation Results for Future Conditions

This section of the Technical Addendum presents results for State Water Contractors outside of the Feather River area under the Future Conditions Scenario. The results for the Future Conditions Scenario are interpolated from two studies as described in the 2009 Report update, Appendix B. Equation 1 below shows the interpolation equation used for this report.

Equation 1. Climate Change Interpolation:

$$\text{Future (2033) annual SWP delivery} = \text{NCC} + (20/37) * (\text{CC} - \text{NCC})$$

Where:

NCC = annual SWP delivery for future, no climate change scenario (2013 emission levels)

CC = annual SWP delivery for future, with climate change scenario (2050 emission levels)

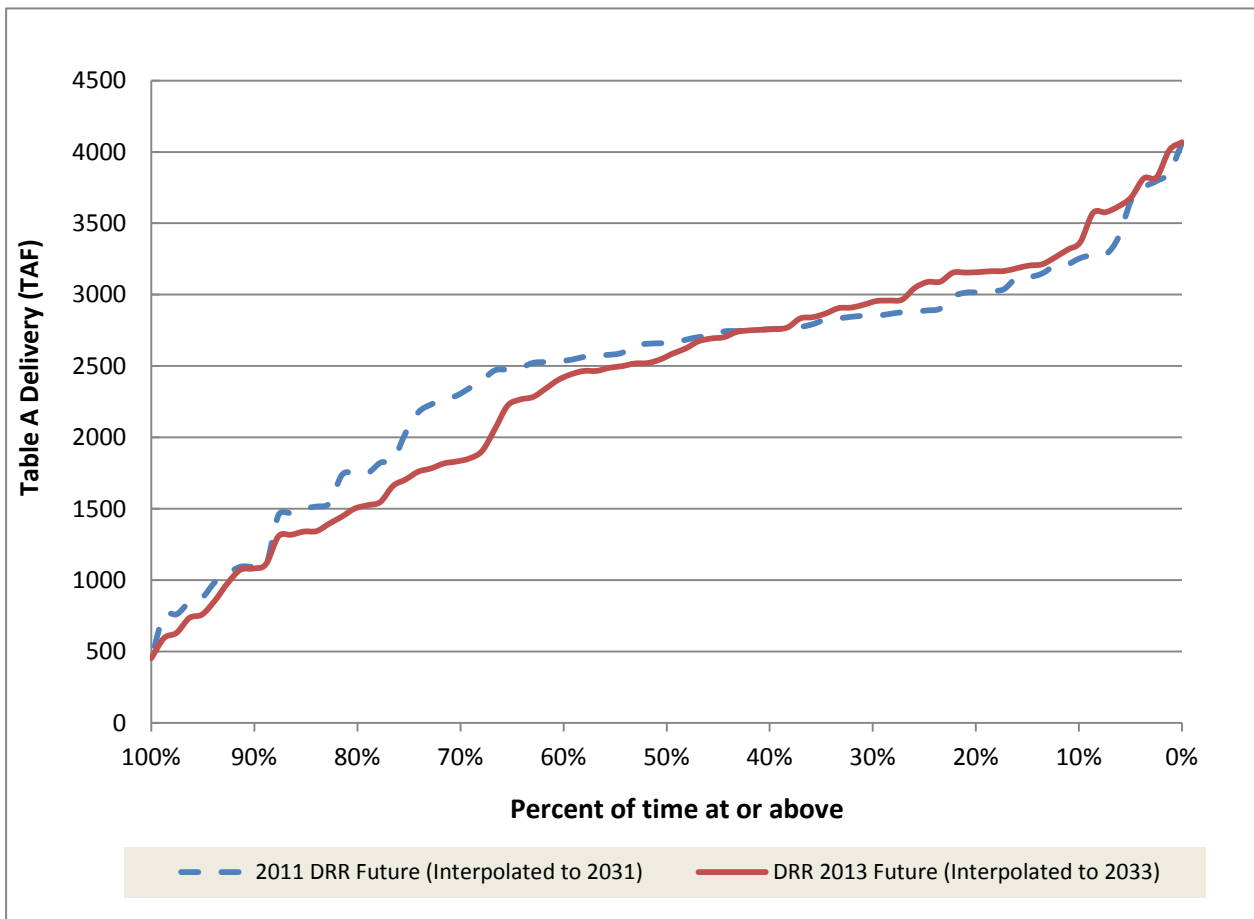
20/37 = the ratio of calendar years: (2033-2013)/(2050-2013)

In the 2011 Report, climate change input hydrology from the MPI-ECHAM5 with the A2 emission scenario was used, but the 2013 Report Update uses BDCP LLT CC5 input hydrology.

SWP Table A Deliveries

The results of the interpolated Table A deliveries from the 2011 and the 2013 report update are shown in Figure 2 below. The maximum Table A amount for SWP deliveries from the Delta in the 2013 update is 4,133 taf/year. The Table A deliveries for State Water Contractors under Future Conditions are shown in Table 8 for the Future Conditions with no climate change, the Future Conditions using the BDCP LLT CC5 input hydrology, and the Future Conditions with climate change interpolated to 2033. Results for individual Contractor Table A deliveries for Future Conditions are included at the end of this addendum.

Figure 2. Comparison of SWP Table A Delivery Probability for Future Conditions



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Table 8. SWP Table A Deliveries for Future Conditions

Year	SWP Table A Demands	No Climate Change		BDCP LLT CC5 1ft SLR Input Hydrology		Estimated Delivery Interpolated to 2033	
		SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A	SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A	SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A
1922	4,133	2,869	69%	2,804	68%	2,834	69%
1923	4,133	2,657	64%	2,260	55%	2,443	59%
1924	4,133	861	21%	366	9%	594	14%
1925	4,133	2,070	50%	1,397	34%	1,706	41%
1926	4,133	2,321	56%	1,455	35%	1,853	45%
1927	4,133	2,717	66%	3,067	74%	2,906	70%
1928	4,133	2,914	71%	2,782	67%	2,843	69%
1929	4,133	1,186	29%	1,047	25%	1,111	27%
1930	4,133	1,261	31%	1,415	34%	1,344	33%
1931	4,133	1,589	38%	1,088	26%	1,318	32%
1932	4,133	1,293	31%	1,577	38%	1,446	35%
1933	4,133	1,748	42%	934	23%	1,308	32%
1934	4,133	1,068	26%	903	22%	979	24%
1935	4,133	2,650	64%	2,730	66%	2,693	65%
1936	4,133	3,175	77%	2,787	67%	2,965	72%
1937	4,133	3,509	85%	2,961	72%	3,213	78%
1938	4,133	4,021	97%	4,005	97%	4,012	97%
1939	4,133	2,113	51%	1,067	26%	1,548	37%
1940	4,133	2,574	62%	2,916	71%	2,759	67%
1941	4,133	3,245	79%	3,170	77%	3,204	78%
1942	4,133	2,752	67%	2,756	67%	2,754	67%
1943	4,133	3,327	80%	2,891	70%	3,091	75%
1944	4,133	1,668	40%	1,167	28%	1,397	34%
1945	4,133	2,910	70%	2,909	70%	2,910	70%
1946	4,133	2,991	72%	2,764	67%	2,868	69%
1947	4,133	2,826	68%	1,710	41%	2,223	54%
1948	4,133	2,149	52%	2,507	61%	2,343	57%
1949	4,133	2,032	49%	1,095	26%	1,525	37%
1950	4,133	2,457	59%	2,700	65%	2,588	63%
1951	4,133	3,070	74%	3,233	78%	3,158	76%
1952	4,133	3,777	91%	3,483	84%	3,618	88%
1953	4,133	2,415	58%	2,396	58%	2,404	58%
1954	4,133	2,565	62%	2,531	61%	2,546	62%
1955	4,133	1,630	39%	1,095	27%	1,341	32%
1956	4,133	3,467	84%	3,084	75%	3,260	79%
1957	4,133	2,476	60%	1,703	41%	2,058	50%
1958	4,133	3,552	86%	3,600	87%	3,578	87%
1959	4,133	2,223	54%	1,635	40%	1,905	46%
1960	4,133	2,248	54%	1,452	35%	1,818	44%
1961	4,133	1,788	43%	1,780	43%	1,783	43%
1962	4,133	2,455	59%	2,572	62%	2,518	61%
1963	4,133	2,659	64%	2,739	66%	2,702	65%

Year	SWP Table A Demands	No Climate Change		BDCP LLT CC5 1ft SLR Input Hydrology		Estimated Delivery Interpolated to 2033	
		SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A	SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A	SWP Table A Delivery (TAF)	Percent of Maximum SWP Table A
1964	4,133	2,694	65%	2,312	56%	2,488	60%
1965	4,133	2,701	65%	2,791	68%	2,750	67%
1966	4,133	2,728	66%	2,243	54%	2,466	60%
1967	4,133	3,678	89%	2,766	67%	3,185	77%
1968	4,133	2,286	55%	2,619	63%	2,466	60%
1969	4,133	3,822	92%	3,809	92%	3,815	92%
1970	4,133	3,220	78%	2,978	72%	3,089	75%
1971	4,133	2,808	68%	2,466	60%	2,623	63%
1972	4,133	2,285	55%	1,446	35%	1,832	44%
1973	4,133	3,055	74%	3,042	74%	3,048	74%
1974	4,133	3,466	84%	2,908	70%	3,164	77%
1975	4,133	2,975	72%	2,892	70%	2,931	71%
1976	4,133	1,816	44%	1,235	30%	1,502	36%
1977	4,133	692	17%	251	6%	453	11%
1978	4,133	3,057	74%	3,534	86%	3,315	80%
1979	4,133	2,991	72%	2,082	50%	2,499	60%
1980	4,133	3,799	92%	3,582	87%	3,682	89%
1981	4,133	2,415	58%	1,204	29%	1,761	43%
1982	4,133	3,826	93%	3,819	92%	3,822	92%
1983	4,133	4,051	98%	4,083	99%	4,068	98%
1984	4,133	3,175	77%	3,157	76%	3,165	77%
1985	4,133	3,009	73%	2,568	62%	2,770	67%
1986	4,133	3,656	88%	2,728	66%	3,154	76%
1987	4,133	876	21%	661	16%	760	18%
1988	4,133	1,078	26%	1,085	26%	1,082	26%
1989	4,133	2,515	61%	2,054	50%	2,266	55%
1990	4,133	781	19%	506	12%	632	15%
1991	4,133	697	17%	769	19%	736	18%
1992	4,133	1,027	25%	712	17%	857	21%
1993	4,133	2,682	65%	2,666	65%	2,673	65%
1994	4,133	1,873	45%	1,479	36%	1,660	40%
1995	4,133	3,264	79%	3,062	74%	3,155	76%
1996	4,133	2,986	72%	2,930	71%	2,956	72%
1997	4,133	3,448	83%	3,300	80%	3,368	81%
1998	4,133	3,458	84%	3,670	89%	3,572	86%
1999	4,133	3,257	79%	2,706	65%	2,959	72%
2000	4,133	2,926	71%	2,580	62%	2,739	66%
2001	4,133	1,259	30%	915	22%	1,073	26%
2002	4,133	2,460	60%	2,133	52%	2,283	55%
2003	4,133	2,578	62%	2,472	60%	2,521	61%
Average	4,133	2,545	62%	2,277	55%	2,400	58%
Minimum	4,133	692	17%	251	6%	453	11%
Maximum	4,133	4,051	98%	4,083	99%	4,068	98%

Article 21 Deliveries

Tables 9 through 11 show the State Water Contractors' Article 21 deliveries for the Future Conditions with no climate change, the Future Conditions using the BDCP LLT CC5 1ft SLR input hydrology (2050), and the Article 21 deliveries interpolated for 2033 climate conditions as described previously.

Table 9. Article 21 Deliveries for Future Conditions without Climate Change

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										0	0	2	
1922	2	2	2	2	2	2	2	0	0	0	0	2	16
1923	2	0	2	2	2	2	2	0	0	0	0	0	12
1924	2	2	0	0	0	2	0	2	0	0	2	2	12
1925	2	2	61	2	2	0	0	2	0	0	0	0	71
1926	2	2	0	2	0	0	0	1	0	0	2	2	11
1927	2	2	2	2	2	2	0	0	0	0	0	2	14
1928	2	2	2	2	2	2	2	0	0	0	0	2	16
1929	2	2	2	2	0	0	0	2	0	0	0	2	12
1930	2	2	2	2	2	0	0	2	2	0	0	0	14
1931	2	2	2	0	0	2	0	2	0	0	0	2	12
1932	2	2	2	2	2	0	0	0	2	2	0	0	14
1933	2	163	85	9	2	0	0	2	0	2	0	2	267
1934	2	2	0	0	0	0	0	2	0	0	2	2	10
1935	2	2	2	2	2	0	0	0	0	0	0	2	12
1936	2	2	97	2	1	0	0	0	0	0	0	2	106
1937	2	2	259	2	0	0	0	0	0	0	2	2	270
1938	2	2	150	2	0	0	0	0	0	0	0	2	157
1939	2	2	2	0	2	2	2	0	0	2	0	0	14
1940	2	2	2	2	2	2	2	0	0	0	0	2	16
1941	2	2	2	2	1	1	0	0	0	0	0	2	12
1942	2	2	2	2	2	2	0	0	0	0	0	2	14
1943	2	2	2	2	1	0	2	0	0	0	0	2	13
1944	2	2	2	2	2	0	0	0	0	0	2	2	14
1945	2	37	212	2	2	0	0	0	0	0	2	2	258
1946	2	2	2	2	2	0	2	0	0	0	2	2	16
1947	2	2	2	2	2	0	0	2	1	0	0	2	15
1948	2	0	2	2	2	2	0	0	0	0	0	2	12
1949	2	2	2	2	2	0	0	2	2	0	0	0	14
1950	2	2	2	2	2	0	0	0	0	0	2	2	14
1951	62	236	221	2	2	2	2	0	0	0	0	2	529
1952	2	2	2	2	0	1	0	0	0	0	0	2	11
1953	2	2	2	2	2	2	0	0	1	0	0	2	15
1954	2	2	2	2	2	2	2	0	0	0	0	2	16
1955	2	1	2	2	2	0	0	2	0	2	0	2	15
1956	106	235	210	2	1	1	0	0	0	0	0	2	557
1957	2	2	2	2	2	0	2	0	0	2	2	2	18
1958	2	2	2	2	0	0	0	0	0	0	0	2	9
1959	2	2	2	2	2	2	2	0	1	0	0	0	15
1960	2	2	2	0	2	0	2	1	0	2	2	2	17
1961	2	2	2	0	2	2	2	2	0	2	0	2	18

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1962	0	2	2	2	0	0	2	0	0	2	2	2	14
1963	2	2	2	2	2	0	2	0	1	0	0	2	15
1964	2	2	2	2	1	2	0	2	1	1	2	2	19
1965	2	2	2	2	2	0	2	0	0	0	0	2	14
1966	2	2	2	2	0	0	2	0	1	0	2	2	15
1967	2	2	2	2	0	0	0	0	0	0	0	2	10
1968	2	2	2	2	2	2	2	0	1	0	2	2	19
1969	2	78	80	2	0	0	1	0	0	0	0	2	165
1970	2	2	2	2	2	2	2	0	0	0	0	2	16
1971	2	2	2	2	2	2	0	0	0	0	0	2	14
1972	2	2	2	2	2	2	2	0	1	0	2	2	19
1973	2	28	89	2	2	0	2	0	0	0	2	2	129
1974	2	2	2	2	1	2	0	0	0	0	0	2	14
1975	2	2	2	2	2	2	0	0	0	0	0	2	14
1976	2	0	2	2	0	2	2	2	0	2	2	2	18
1977	2	0	0	0	0	2	0	2	0	2	0	2	10
1978	2	2	2	2	1	0	0	0	0	0	0	2	11
1979	2	2	2	2	2	0	0	0	0	0	2	2	14
1980	10	110	80	2	0	0	0	0	0	0	0	2	204
1981	2	2	2	2	2	0	0	0	1	2	2	2	17
1982	2	2	86	104	0	0	0	0	0	0	2	2	199
1983	2	2	65	2	0	0	2	0	0	0	86	159	318
1984	166	245	230	2	2	0	2	0	0	0	2	2	650
1985	2	2	2	2	0	0	0	2	1	0	2	2	15
1986	2	2	33	2	0	0	0	0	0	0	0	2	41
1987	2	2	2	0	2	0	0	2	0	0	0	2	12
1988	2	0	0	2	0	0	0	2	0	0	2	2	10
1989	2	0	2	2	0	0	2	0	0	0	0	0	9
1990	2	0	2	0	2	0	0	2	0	2	2	0	12
1991	2	2	2	2	2	0	0	2	0	2	0	2	16
1992	2	2	2	2	0	0	0	2	0	2	0	2	14
1993	2	2	2	2	2	2	0	0	0	0	0	2	14
1994	2	2	2	2	2	2	2	2	0	2	0	2	20
1995	2	2	2	2	0	1	2	0	0	0	0	2	12
1996	2	2	2	2	2	2	0	0	0	0	0	2	14
1997	2	2	2	2	1	2	2	0	0	0	0	2	15
1998	2	2	2	2	1	1	2	0	0	0	2	2	17
1999	2	2	76	2	2	0	2	0	0	0	0	2	87
2000	2	2	2	2	2	0	2	0	0	0	0	2	14
2001	2	2	2	2	2	0	0	2	0	0	2	2	16
2002	2	0	2	2	1	0	0	2	0	0	0	2	11
2003	2	2	2	2	2	0	2	0	0				14
Average	6	15	26	3	1	1	1	1	0	0	2	4	60
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	9
Maximum	166	245	259	104	2	2	2	2	2	2	86	159	650

Table 10. Article 21 Deliveries for Future Conditions with 2050 Climate Change

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										0	0	2	
1922	2	2	2	2	2	2	0	2	0	0	0	2	16
1923	2	0	2	2	2	0	2	1	0	2	2	2	17
1924	2	2	0	0	0	2	2	0	0	2	0	2	12
1925	2	2	2	2	2	0	0	2	0	2	0	0	14
1926	2	2	0	2	0	0	0	2	2	2	2	2	16
1927	2	73	58	2	1	0	2	0	0	0	0	2	140
1928	2	2	2	2	0	0	2	0	1	2	0	2	15
1929	2	2	0	0	0	0	0	2	0	2	2	2	12
1930	2	2	2	2	2	0	2	2	0	2	0	0	16
1931	2	0	2	0	0	2	0	2	0	2	0	2	12
1932	2	2	0	2	2	0	0	2	2	0	2	0	14
1933	2	0	2	0	0	0	0	2	0	2	0	2	10
1934	2	2	0	0	0	0	0	2	0	0	2	2	10
1935	2	2	2	2	0	0	0	2	0	0	0	2	12
1936	2	2	2	2	2	0	2	0	0	2	0	2	16
1937	2	2	2	2	2	0	0	2	1	0	2	2	16
1938	2	2	162	133	34	0	0	0	0	0	0	2	335
1939	2	0	2	2	2	2	2	2	0	2	0	0	16
1940	2	2	2	2	1	0	2	0	0	0	0	2	13
1941	2	2	2	2	1	0	2	0	0	0	0	2	13
1942	2	2	2	2	2	0	2	0	0	0	0	2	14
1943	2	2	2	2	1	1	2	0	0	0	0	0	12
1944	2	2	2	2	2	0	0	2	0	2	2	2	18
1945	12	317	294	2	2	0	0	2	0	0	2	2	633
1946	2	2	2	2	2	0	2	2	0	1	0	2	17
1947	2	2	2	0	2	2	0	2	0	2	0	2	16
1948	2	0	2	2	2	0	0	1	0	1	0	2	12
1949	2	2	2	2	0	0	0	2	0	2	0	2	14
1950	2	2	2	2	2	0	0	2	1	0	2	2	17
1951	2	141	228	2	2	2	2	0	0	0	0	2	381
1952	2	2	2	2	1	1	0	0	0	0	0	2	11
1953	2	2	2	2	2	2	2	1	0	0	0	2	17
1954	2	2	2	2	0	2	2	0	0	0	0	2	14
1955	2	0	0	2	2	0	0	2	0	2	0	2	12
1956	214	247	229	2	2	0	2	2	0	0	0	2	701
1957	2	2	2	2	2	0	2	0	0	0	0	2	14
1958	2	2	44	2	0	0	0	1	0	0	0	1	52
1959	2	2	0	2	2	2	2	0	0	2	0	0	14
1960	2	2	2	0	2	2	2	2	2	2	2	2	22
1961	2	2	2	0	2	2	0	2	0	2	0	2	16
1962	0	2	2	2	2	0	0	1	0	2	2	2	15
1963	2	2	2	2	2	0	2	0	0	0	0	2	14
1964	2	2	0	2	2	2	0	1	0	2	2	2	17
1965	2	2	2	2	2	0	2	0	0	0	0	2	14
1966	2	2	2	0	0	2	2	0	0	2	2	2	16
1967	2	2	2	2	2	2	0	2	0	0	0	2	16
1968	2	2	2	0	2	2	2	0	1	2	0	2	16

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1969	2	74	80	2	0	0	0	1	0	0	0	2	161
1970	2	2	2	2	2	2	2	0	0	0	0	2	16
1971	2	2	2	2	2	0	2	0	0	0	0	2	14
1972	2	2	2	0	2	2	2	0	0	2	2	2	18
1973	137	140	89	2	2	0	2	0	0	0	2	2	375
1974	2	2	2	2	2	0	2	0	0	0	0	2	14
1975	2	2	2	2	2	0	2	2	0	0	0	2	16
1976	2	0	2	2	2	2	0	2	0	2	0	2	16
1977	2	0	0	0	0	0	0	2	0	2	0	2	8
1978	2	2	2	2	0	0	2	0	0	0	0	0	10
1979	2	2	2	2	2	0	0	2	0	2	2	2	18
1980	168	110	80	2	0	0	2	0	0	0	0	2	364
1981	2	2	2	2	2	0	0	2	0	2	2	2	18
1982	2	2	181	2	0	0	1	0	0	0	2	2	193
1983	2	2	38	2	0	0	0	0	0	0	2	103	149
1984	166	233	230	2	2	2	2	0	0	0	0	2	638
1985	2	2	2	2	2	2	2	0	0	2	0	2	18
1986	2	2	2	2	2	0	2	0	0	0	0	0	12
1987	2	2	2	0	2	0	2	2	0	0	2	2	16
1988	2	0	0	2	0	0	0	2	0	2	2	2	12
1989	2	0	2	2	0	0	2	1	2	2	0	2	15
1990	2	0	2	0	2	2	2	2	0	2	0	2	16
1991	2	0	2	2	0	0	2	2	2	2	0	2	16
1992	2	2	2	0	0	0	0	2	0	2	0	2	12
1993	2	2	2	2	2	2	2	0	0	0	0	2	16
1994	2	2	0	2	2	2	2	2	2	2	0	2	20
1995	2	2	2	2	0	0	0	0	0	0	0	2	10
1996	2	2	2	2	2	0	2	2	0	0	0	2	16
1997	2	2	121	2	1	2	2	0	0	0	0	2	134
1998	2	2	2	2	0	0	0	0	0	0	0	2	11
1999	2	2	2	2	2	0	2	0	0	0	0	0	12
2000	2	2	2	2	2	0	2	0	0	0	0	0	12
2001	2	2	2	0	2	0	2	2	0	2	2	2	18
2002	2	0	2	2	0	0	0	0	0	2	0	2	10
2003	2	2	2	2	2	0	2	0	1				15
Average	10	18	24	3	2	1	1	1	0	1	1	3	64
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	8
Maximum	214	317	294	133	34	2	2	2	2	2	2	103	701

Table 11. Article 21 Deliveries for Future Conditions Interpolated to 2033 Climate Change

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										0	0	2	
1922	2	2	2	2	2	2	1	1	0	0	0	2	16
1923	2	0	2	2	2	1	2	1	0	1	1	1	15
1924	2	2	0	0	0	2	1	1	0	1	1	2	12
1925	2	2	29	2	2	0	0	2	0	1	0	0	40
1926	2	2	0	2	0	0	0	1	1	1	2	2	14
1927	2	40	32	2	2	1	1	0	0	0	0	2	82
1928	2	2	2	2	1	1	2	0	0	1	0	2	15
1929	2	2	1	1	0	0	0	2	0	1	1	2	12
1930	2	2	2	2	2	0	1	2	1	1	0	0	15
1931	2	1	2	0	0	2	0	2	0	1	0	2	12
1932	2	2	1	2	2	0	0	1	2	1	1	0	14
1933	2	75	40	4	1	0	0	2	0	2	0	2	128
1934	2	2	0	0	0	0	0	2	0	0	2	2	10
1935	2	2	2	2	1	0	0	1	0	0	0	2	12
1936	2	2	46	2	2	0	1	0	0	1	0	2	57
1937	2	2	120	2	1	0	0	1	0	0	2	2	133
1938	2	2	156	73	18	0	0	0	0	0	0	2	254
1939	2	1	2	1	2	2	2	1	0	2	0	0	15
1940	2	2	2	2	2	1	2	0	0	0	0	2	15
1941	2	2	2	2	1	1	1	0	0	0	0	2	13
1942	2	2	2	2	2	1	1	0	0	0	0	2	14
1943	2	2	2	2	1	1	2	0	0	0	0	1	12
1944	2	2	2	2	2	0	0	1	0	1	2	2	16
1945	7	188	256	2	2	0	0	1	0	0	2	2	460
1946	2	2	2	2	2	0	2	1	0	0	1	2	16
1947	2	2	2	1	2	1	0	2	0	1	0	2	15
1948	2	0	2	2	2	1	0	1	0	0	0	2	12
1949	2	2	2	2	1	0	0	2	1	1	0	1	14
1950	2	2	2	2	2	0	0	1	0	0	2	2	16
1951	30	185	225	2	2	2	2	0	0	0	0	2	449
1952	2	2	2	2	0	1	0	0	0	0	0	2	11
1953	2	2	2	2	2	2	1	1	1	0	0	2	16
1954	2	2	2	2	1	2	2	0	0	0	0	2	15
1955	2	1	1	2	2	0	0	2	0	2	0	2	14
1956	165	242	220	2	1	1	1	1	0	0	0	2	635
1957	2	2	2	2	2	0	2	0	0	1	1	2	16
1958	2	2	25	2	0	0	0	0	0	0	0	1	32
1959	2	2	1	2	2	2	2	0	1	1	0	0	15
1960	2	2	2	0	2	1	2	2	1	2	2	2	20
1961	2	2	2	0	2	2	1	2	0	2	0	2	17
1962	0	2	2	2	1	0	1	1	0	2	2	2	15
1963	2	2	2	2	2	0	2	0	1	0	0	2	15
1964	2	2	1	2	2	2	0	2	0	2	2	2	18
1965	2	2	2	2	2	0	2	0	0	0	0	2	14
1966	2	2	2	1	0	1	2	0	0	1	2	2	15
1967	2	2	2	2	1	1	0	1	0	0	0	2	13
1968	2	2	2	1	2	2	2	0	1	1	1	2	18

SWP Table Article 21 Deliveries (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1969	2	76	80	2	0	0	1	1	0	0	0	2	163
1970	2	2	2	2	2	2	2	0	0	0	0	2	16
1971	2	2	2	2	2	1	1	0	0	0	0	2	14
1972	2	2	2	1	2	2	2	0	1	1	2	2	19
1973	75	89	89	2	2	0	2	0	0	0	2	2	262
1974	2	2	2	2	2	1	1	0	0	0	0	2	14
1975	2	2	2	2	2	1	1	1	0	0	0	2	15
1976	2	0	2	2	1	2	1	2	0	2	1	2	17
1977	2	0	0	0	0	1	0	2	0	2	0	2	9
1978	2	2	2	2	1	0	1	0	0	0	0	1	11
1979	2	2	2	2	2	0	0	1	0	1	2	2	16
1980	96	110	80	2	0	0	1	0	0	0	0	2	290
1981	2	2	2	2	2	0	0	1	0	2	2	2	18
1982	2	2	138	49	0	0	1	0	0	0	2	2	196
1983	2	2	50	2	0	0	1	0	0	0	41	129	227
1984	166	238	230	2	2	1	2	0	0	0	1	2	644
1985	2	2	2	2	1	1	1	1	1	1	1	2	17
1986	2	2	16	2	1	0	1	0	0	0	0	1	25
1987	2	2	2	0	2	0	1	2	0	0	1	2	14
1988	2	0	0	2	0	0	0	2	0	1	2	2	11
1989	2	0	2	2	0	0	2	1	1	1	0	1	12
1990	2	0	2	0	2	1	1	2	0	2	1	1	14
1991	2	1	2	2	1	0	1	2	1	2	0	2	16
1992	2	2	2	1	0	0	0	2	0	2	0	2	13
1993	2	2	2	2	2	2	1	0	0	0	0	2	15
1994	2	2	1	2	2	2	2	2	1	2	0	2	20
1995	2	2	2	2	0	0	1	0	0	0	0	2	11
1996	2	2	2	2	2	1	1	1	0	0	0	2	15
1997	2	2	66	2	1	2	2	0	0	0	0	2	80
1998	2	2	2	2	1	1	1	0	0	0	1	2	13
1999	2	2	36	2	2	0	2	0	0	0	0	1	47
2000	2	2	2	2	2	0	2	0	0	0	0	1	13
2001	2	2	2	1	2	0	1	2	0	1	2	2	17
2002	2	0	2	2	1	0	0	1	0	1	0	2	11
2003	2	2	2	2	2	0	2	0	0				14
Average	8	17	25	3	2	1	1	1	0	1	1	3	62
Minimum	0	0	0	0	0	0	0	0	0	0	0	0	9
Maximum	166	242	256	73	18	2	2	2	2	2	41	129	644

SWP Exports from the Sacramento-San Joaquin Delta

Tables 12 through 14 show the SWP Exports for the Future Conditions with no climate change, the Future Conditions using the BDCP LLT CC5 1ft SLR input hydrology (2050), and interpolated for 2033 climate conditions as described previously.

Table 12. SWP Exports for Future Conditions without Climate Change

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										299	196	443	
1922	220	178	277	71	61	380	411	411	397	226	149	263	3,044
1923	222	159	159	67	43	132	411	411	397	239	187	183	2,611
1924	158	121	18	18	38	16	229	18	30	146	169	248	1,210
1925	198	129	249	71	59	103	253	190	397	200	127	177	2,154
1926	198	96	18	74	51	191	411	260	185	97	397	230	2,207
1927	144	219	227	60	43	171	411	411	394	194	143	438	2,854
1928	213	121	242	55	43	151	374	411	397	215	93	302	2,617
1929	203	182	177	88	18	18	18	18	38	62	77	192	1,092
1930	148	139	156	61	41	110	411	227	397	122	93	87	1,991
1931	201	129	64	18	18	18	44	18	21	54	102	441	1,127
1932	210	295	231	42	43	31	342	103	248	127	81	144	1,896
1933	315	299	106	53	43	18	116	18	29	65	94	278	1,434
1934	365	244	91	18	18	18	18	18	26	62	212	236	1,327
1935	212	201	214	61	43	152	411	411	397	314	191	311	2,918
1936	133	485	438	71	43	164	411	411	397	277	155	353	3,339
1937	302	472	375	84	62	296	411	411	182	283	397	350	3,625
1938	453	472	456	151	380	397	411	411	359	193	18	437	4,137
1939	210	168	109	58	60	18	411	232	144	93	61	215	1,777
1940	160	190	330	78	43	122	383	411	397	194	80	255	2,643
1941	244	472	465	95	83	238	411	411	359	140	18	260	3,196
1942	285	284	301	82	73	235	411	411	360	171	18	241	2,871
1943	305	332	465	85	49	171	410	411	378	160	18	438	3,220
1944	209	212	149	63	43	111	411	270	145	126	397	234	2,372
1945	211	217	371	61	43	116	411	411	397	329	368	340	3,275
1946	247	172	244	50	43	84	410	411	397	303	275	290	2,925
1947	186	195	82	65	43	102	411	187	325	216	211	150	2,173
1948	125	20	155	43	43	159	411	411	397	228	176	261	2,429
1949	198	184	119	42	43	103	411	141	397	62	110	122	1,933
1950	133	143	211	51	43	81	411	411	397	306	397	472	3,057
1951	523	345	376	57	43	158	358	411	397	186	235	237	3,326
1952	292	224	465	100	130	346	411	411	397	136	18	438	3,367
1953	166	213	227	61	52	115	411	411	397	128	18	400	2,598
1954	128	139	212	56	43	156	354	411	397	198	232	433	2,758
1955	221	171	148	57	43	18	352	175	179	93	235	366	2,057
1956	523	358	387	60	62	257	411	411	378	163	18	434	3,462
1957	203	104	159	61	49	102	402	411	397	388	142	222	2,641
1958	157	226	438	147	107	311	411	411	397	161	18	436	3,220
1959	135	160	214	72	56	99	411	411	397	212	162	156	2,486
1960	200	128	150	18	96	90	410	229	357	58	345	182	2,263
1961	204	112	203	42	32	7	410	60	161	23	162	186	1,599
1962	158	175	235	63	43	40	410	411	397	411	397	217	2,958

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1963	147	161	220	55	43	117	411	411	397	243	289	317	2,813
1964	208	157	143	18	43	18	411	177	397	109	188	246	2,117
1965	318	244	259	75	43	147	410	411	388	112	233	462	3,100
1966	241	220	184	49	43	99	410	411	397	204	225	241	2,724
1967	230	201	260	125	110	397	411	411	397	202	18	434	3,196
1968	210	127	214	70	56	99	401	411	397	218	240	434	2,877
1969	260	391	223	236	340	397	411	411	376	213	18	253	3,528
1970	523	298	439	47	43	110	411	411	391	163	330	244	3,409
1971	204	187	239	63	51	158	411	411	394	139	18	434	2,707
1972	196	100	144	61	43	98	411	411	397	227	397	234	2,720
1973	179	242	251	58	43	170	411	411	397	325	397	272	3,157
1974	267	217	310	69	43	209	411	411	397	245	18	440	3,036
1975	208	175	343	61	43	229	411	411	397	323	18	434	3,054
1976	186	130	181	74	48	15	406	280	91	156	122	65	1,755
1977	153	45	50	18	36	4	18	22	78	18	116	174	733
1978	177	270	304	97	84	259	411	411	397	181	102	438	3,131
1979	241	290	296	60	69	165	411	411	397	325	390	436	3,490
1980	305	238	236	64	59	262	411	411	397	220	19	435	3,057
1981	208	188	149	79	59	98	411	411	397	241	397	225	2,863
1982	231	372	465	364	148	290	411	411	397	411	397	472	4,370
1983	402	177	191	200	248	304	331	411	397	411	397	452	3,922
1984	377	355	384	62	43	170	392	411	397	251	397	433	3,672
1985	210	196	179	70	55	100	411	180	397	199	311	263	2,571
1986	132	443	456	102	81	223	411	411	397	214	18	436	3,324
1987	203	186	144	37	109	97	57	35	124	27	52	204	1,276
1988	146	21	101	60	18	18	222	18	73	18	183	220	1,102
1989	171	45	74	64	47	140	411	411	397	277	141	204	2,382
1990	190	129	62	18	55	13	238	18	108	22	26	88	968
1991	18	77	80	39	50	100	276	18	33	35	34	99	860
1992	74	97	147	42	18	86	18	18	127	29	33	218	909
1993	199	229	241	42	43	222	411	411	397	207	18	430	2,850
1994	197	185	142	34	55	14	392	53	189	18	130	229	1,638
1995	186	202	465	108	380	357	411	411	397	97	18	226	3,256
1996	173	444	404	72	59	203	411	411	397	90	30	472	3,166
1997	523	472	445	51	48	172	408	411	397	123	59	434	3,544
1998	185	472	465	120	120	397	411	411	397	411	397	248	4,035
1999	252	399	302	54	43	171	410	411	365	131	18	431	2,986
2000	139	311	348	53	43	147	370	411	397	155	18	436	2,828
2001	213	168	178	62	18	96	208	18	177	23	198	242	1,602
2002	164	213	159	50	43	100	411	85	334	18	102	237	1,916
2003	140	176	206	42	43	95	407	411	397				2,853
Average	223	221	241	70	67	148	360	308	320	179	165	302	2,606
Minimum	18	20	18	18	18	4	18	18	21	18	18	65	733
Maximum	523	485	465	364	380	397	411	411	397	411	397	472	4,370

Table 13. SWP Exports for Future Conditions with 2050 Climate Change

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										258	18	443	
1922	220	187	286	75	63	258	411	410	340	104	64	260	2,677
1923	216	107	129	67	43	133	409	411	397	155	94	144	2,305
1924	99	121	18	18	18	16	18	18	25	77	202	114	747
1925	197	92	212	98	82	18	247	216	147	18	106	173	1,607
1926	53	96	18	133	113	130	242	264	112	75	397	230	1,863
1927	148	193	227	72	50	159	366	411	397	207	198	438	2,867
1928	213	116	173	72	53	151	385	411	397	66	251	164	2,452
1929	202	182	158	77	38	18	18	18	31	47	18	221	1,029
1930	147	137	156	49	71	137	404	317	251	34	105	106	1,916
1931	104	100	53	18	18	18	18	18	132	36	105	446	1,066
1932	219	262	188	30	50	18	164	235	136	80	18	188	1,588
1933	50	104	95	102	82	18	18	18	32	70	113	191	894
1934	201	177	62	18	29	18	18	18	86	18	269	18	934
1935	212	162	153	244	267	268	411	249	263	87	137	169	2,620
1936	134	428	465	77	43	164	411	333	397	84	148	128	2,813
1937	221	472	465	94	70	299	411	242	314	103	397	335	3,424
1938	438	472	387	364	380	243	411	411	316	119	18	437	3,997
1939	211	141	99	18	74	18	177	23	124	32	56	231	1,203
1940	159	218	465	90	43	163	348	411	397	138	18	250	2,700
1941	256	472	465	92	100	202	410	411	326	94	18	282	3,126
1942	304	303	306	83	78	187	410	411	333	115	18	241	2,789
1943	316	281	465	96	43	218	358	411	333	89	18	207	2,835
1944	207	209	149	85	67	23	411	18	147	107	230	440	2,094
1945	222	329	375	92	58	111	411	226	364	130	397	300	3,013
1946	231	159	279	68	57	114	409	411	397	100	241	231	2,696
1947	186	189	82	102	57	18	411	99	138	136	196	105	1,718
1948	125	17	155	133	97	109	411	411	397	116	197	167	2,336
1949	198	184	119	67	93	101	411	18	162	20	95	94	1,562
1950	135	149	211	65	43	110	411	375	397	257	397	472	3,023
1951	449	376	383	77	47	104	366	411	397	170	160	245	3,186
1952	241	220	465	113	145	235	411	411	365	114	18	438	3,175
1953	177	204	229	62	52	115	410	410	353	93	18	404	2,526
1954	128	139	212	80	74	156	355	411	397	63	119	433	2,567
1955	223	98	121	141	80	18	411	36	172	18	253	472	2,043
1956	374	356	383	65	62	154	410	411	347	115	18	434	3,127
1957	203	104	79	57	43	104	400	411	52	284	79	226	2,041
1958	160	238	296	147	102	276	411	410	367	128	18	436	2,987
1959	135	154	251	80	62	18	411	111	226	18	77	125	1,668
1960	86	128	150	18	83	90	411	167	253	18	303	240	1,947
1961	204	112	152	42	32	12	162	77	139	18	181	341	1,470
1962	148	206	235	62	43	101	410	411	397	411	397	217	3,040
1963	150	174	215	74	48	162	374	411	397	268	295	301	2,869
1964	210	133	99	18	64	18	411	71	114	18	397	279	1,833
1965	296	259	387	71	43	168	368	411	340	72	133	445	2,993
1966	232	195	141	84	56	18	388	121	217	63	224	251	1,990
1967	185	201	249	112	117	260	411	410	378	130	22	434	2,907
1968	211	125	213	50	91	95	408	394	395	78	301	434	2,796

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1969	489	295	223	236	341	344	411	357	354	136	18	238	3,440
1970	523	351	351	47	43	110	411	411	299	18	247	251	3,061
1971	213	143	163	62	50	154	382	410	342	115	18	439	2,489
1972	198	98	64	123	99	94	411	254	182	136	397	234	2,290
1973	188	253	250	69	44	155	411	411	397	284	397	252	3,112
1974	222	202	233	71	43	182	410	411	373	152	18	440	2,756
1975	209	158	293	62	43	173	410	343	369	274	18	434	2,786
1976	183	130	181	33	18	15	332	23	78	25	26	65	1,110
1977	18	31	45	18	40	1	0	18	90	0	150	370	782
1978	208	299	312	112	97	194	411	411	397	158	51	260	2,912
1979	263	254	299	58	56	129	411	199	377	163	355	205	2,769
1980	523	238	236	73	75	108	411	411	397	194	18	435	3,118
1981	210	188	149	62	49	97	262	34	146	18	397	225	1,838
1982	251	405	389	18	138	206	410	411	397	411	397	472	3,906
1983	523	353	192	201	250	306	325	411	397	239	397	472	4,067
1984	384	355	384	62	43	122	401	411	144	203	397	435	3,339
1985	210	191	156	56	43	18	411	179	234	23	257	254	2,030
1986	141	364	465	109	58	331	403	411	131	113	18	189	2,731
1987	201	202	123	18	91	41	18	18	98	18	18	222	1,069
1988	151	162	18	56	18	18	80	18	75	18	188	157	960
1989	211	32	74	64	46	184	407	238	301	209	142	50	1,959
1990	190	117	62	18	55	13	166	18	103	18	41	81	883
1991	18	70	80	64	50	148	18	18	66	18	143	53	747
1992	28	100	148	18	18	0	18	44	60	1	101	319	856
1993	231	234	241	42	55	191	411	411	397	187	18	430	2,848
1994	197	185	67	50	55	10	227	34	158	18	118	153	1,272
1995	212	202	465	120	26	311	411	411	364	111	18	226	2,876
1996	186	485	439	82	43	174	396	410	397	59	18	472	3,162
1997	523	472	465	51	45	215	411	411	302	18	18	434	3,365
1998	191	472	465	118	134	397	411	411	397	138	178	243	3,554
1999	216	435	311	54	43	171	411	411	397	105	18	295	2,867
2000	144	218	349	70	53	155	362	411	397	110	18	178	2,466
2001	213	168	174	121	127	56	18	18	168	18	209	242	1,533
2002	165	120	159	84	69	95	393	51	141	18	70	240	1,604
2003	146	175	205	120	82	132	399	411	397				2,788
Average	215	215	231	80	74	129	330	268	267	107	152	279	2,346
Minimum	18	17	18	18	18	0	0	18	25	0	18	18	747
Maximum	523	485	465	364	380	397	411	411	397	411	397	472	4,067

Table 14. SWP Exports for Future Conditions Interpolated to 2033 Climate Change

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1921										277	100	443	
1922	220	183	282	73	62	314	411	410	366	160	103	261	2,846
1923	219	131	143	67	43	133	410	411	397	194	137	162	2,446
1924	126	121	18	18	28	16	115	18	27	109	187	176	960
1925	197	109	229	86	71	57	250	204	262	102	116	175	1,858
1926	119	96	18	106	84	158	320	262	146	85	397	230	2,021
1927	146	205	227	66	47	165	386	411	396	201	173	438	2,861
1928	213	119	204	64	48	151	380	411	397	135	178	227	2,527
1929	202	182	167	82	29	18	18	18	34	54	45	208	1,058
1930	147	138	156	54	58	124	407	275	319	74	99	98	1,950
1931	148	113	58	18	18	18	30	18	81	44	104	444	1,094
1932	215	277	208	35	47	24	245	175	187	102	47	168	1,730
1933	172	193	100	80	64	18	63	18	31	68	104	231	1,142
1934	276	208	76	18	24	18	18	18	59	38	243	118	1,115
1935	212	180	181	160	164	214	411	323	325	191	162	234	2,757
1936	134	454	453	74	43	164	411	369	397	173	151	231	3,054
1937	258	472	424	89	67	298	411	319	254	186	397	342	3,517
1938	445	472	419	266	380	314	411	411	336	153	18	437	4,061
1939	210	154	103	36	67	18	284	119	133	60	58	223	1,467
1940	159	205	403	85	43	144	364	411	397	163	46	253	2,674
1941	250	472	465	93	92	219	410	411	341	115	18	272	3,158
1942	296	294	303	83	76	209	410	411	346	141	18	241	2,827
1943	311	305	465	91	46	196	382	411	354	122	18	313	3,012
1944	208	210	149	75	56	64	411	134	146	116	307	346	2,222
1945	217	277	373	78	51	113	411	311	380	221	384	319	3,133
1946	238	165	263	60	51	100	409	411	397	193	257	258	2,801
1947	186	192	82	85	51	56	411	140	224	173	203	126	1,927
1948	125	18	155	92	72	132	411	411	397	168	187	210	2,378
1949	198	184	119	55	70	102	411	75	270	39	102	107	1,732
1950	134	146	211	59	43	97	411	391	397	279	397	472	3,038
1951	483	362	380	68	45	129	363	411	397	178	195	241	3,250
1952	264	222	465	107	138	286	411	411	380	124	18	438	3,263
1953	172	208	228	62	52	115	410	410	373	109	18	402	2,559
1954	128	139	212	69	60	156	354	411	397	125	171	433	2,655
1955	222	132	133	102	63	18	384	100	175	53	245	423	2,049
1956	442	357	385	63	62	202	410	411	361	137	18	434	3,281
1957	203	104	116	59	46	103	401	411	211	332	108	224	2,317
1958	158	233	361	147	104	292	411	410	381	143	18	436	3,094
1959	135	157	234	77	59	55	411	249	305	108	116	139	2,044
1960	138	128	150	18	89	90	410	196	301	37	322	213	2,092
1961	204	112	175	42	32	10	276	69	149	20	172	270	1,530
1962	153	192	235	62	43	73	410	411	397	411	397	217	3,002
1963	149	168	217	65	46	142	391	411	397	257	292	308	2,843
1964	209	144	119	18	54	18	411	120	244	60	301	264	1,963
1965	306	252	328	73	43	158	387	411	362	90	179	453	3,042
1966	236	207	161	68	50	55	398	254	300	128	225	246	2,327
1967	206	201	254	118	114	323	411	410	387	163	20	434	3,040
1968	211	126	213	59	75	97	405	402	396	142	273	434	2,833

SWP Exports from the Delta (TAF)													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	TOTAL
1969	384	339	223	236	340	369	411	382	364	171	18	245	3,481
1970	523	326	391	47	43	110	411	411	341	85	285	248	3,221
1971	209	163	198	63	50	156	395	410	366	126	18	436	2,589
1972	197	99	101	95	73	96	411	326	281	178	397	234	2,487
1973	184	248	251	64	43	162	411	411	397	303	397	261	3,132
1974	243	209	268	70	43	195	410	411	384	195	18	440	2,885
1975	208	166	316	62	43	199	410	374	382	297	18	434	2,909
1976	184	130	181	52	32	15	366	141	84	85	70	65	1,406
1977	80	37	47	18	38	2	8	20	85	8	134	280	760
1978	194	286	309	105	91	224	411	411	397	169	75	342	3,013
1979	253	270	298	59	62	145	411	297	386	238	371	311	3,100
1980	423	238	236	69	68	179	411	411	397	206	18	435	3,090
1981	209	188	149	70	53	97	331	207	262	121	397	225	2,309
1982	242	390	424	177	143	245	410	411	397	411	397	472	4,119
1983	467	272	191	201	249	305	328	411	397	318	397	463	4,000
1984	381	355	384	62	43	144	397	411	260	225	397	434	3,492
1985	210	193	167	63	48	55	411	179	309	104	282	258	2,278
1986	137	401	461	106	68	281	406	411	253	159	18	302	3,003
1987	202	195	133	27	99	67	36	26	110	22	33	214	1,164
1988	149	97	56	58	18	18	145	18	74	18	186	186	1,025
1989	193	38	74	64	47	164	408	318	345	240	142	121	2,154
1990	190	122	62	18	55	13	199	18	105	20	34	84	922
1991	18	73	80	52	50	126	137	18	51	26	93	74	799
1992	49	99	148	29	18	40	18	32	91	14	70	273	880
1993	216	232	241	42	49	205	411	411	397	197	18	430	2,849
1994	197	185	101	43	55	12	303	43	172	18	123	188	1,440
1995	200	202	465	114	189	332	411	411	379	105	18	226	3,051
1996	180	466	423	77	50	187	403	410	397	73	23	472	3,164
1997	523	472	456	51	46	196	409	411	346	66	37	434	3,447
1998	188	472	465	119	128	397	411	411	397	263	279	245	3,775
1999	232	418	307	54	43	171	410	411	383	117	18	357	2,922
2000	142	261	348	62	48	152	366	411	397	131	18	296	2,632
2001	213	168	176	94	77	75	105	18	172	21	204	242	1,565
2002	164	162	159	68	57	97	401	66	229	18	84	239	1,747
2003	143	175	206	84	64	115	403	411	397				2,818
Average	219	218	236	76	71	138	344	286	292	140	158	290	2,466
Minimum	18	18	18	18	18	2	8	18	27	8	18	65	760
Maximum	523	472	465	266	380	397	411	411	397	411	397	472	4,119

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Individual Contractor Table A Deliveries - Existing Conditions

The tables on the following pages show the Table A deliveries for each State Water Contractor for the Existing Conditions scenario.

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Alameda County FC&WCD-Zone 7: Existing Conditions

SWP Table A Deliveries for 2013 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	58	0	58	72%	1970	63	0%	79%
1923	47	2	48	60%	1984	63	1%	78%
1924	18	1	18	23%	1951	62	2%	77%
1925	40	0	40	49%	1973	62	4%	76%
1926	44	1	44	55%	1996	61	5%	75%
1927	55	1	55	68%	1936	59	6%	73%
1928	55	2	57	71%	1997	59	7%	73%
1929	20	2	21	26%	1945	59	9%	73%
1930	26	0	26	33%	1979	59	10%	73%
1931	29	0	29	36%	1967	59	11%	73%
1932	22	0	22	27%	1985	58	12%	73%
1933	29	0	29	36%	1946	58	14%	72%
1934	14	0	15	18%	1999	58	15%	72%
1935	55	0	55	68%	1922	58	16%	72%
1936	58	2	59	73%	2000	58	17%	72%
1937	46	2	48	59%	1975	58	19%	71%
1938	40	2	42	53%	1974	57	20%	71%
1939	37	2	39	48%	1928	57	21%	71%
1940	50	0	51	63%	1941	56	22%	70%
1941	55	1	56	70%	1965	56	23%	69%
1942	55	0	56	69%	1942	56	25%	69%
1943	43	2	45	56%	1964	55	26%	69%
1944	31	1	32	40%	1947	55	27%	68%
1945	59	0	59	73%	1935	55	28%	68%
1946	57	2	58	72%	1927	55	30%	68%
1947	54	2	55	68%	1978	55	31%	68%
1948	40	1	41	51%	1956	54	32%	67%
1949	44	1	45	55%	1971	53	33%	66%
1950	43	1	43	54%	1963	53	35%	66%
1951	61	1	62	77%	1993	53	36%	65%
1952	43	2	45	55%	1966	51	37%	63%
1953	44	2	46	57%	1940	51	38%	63%
1954	49	1	50	62%	1954	50	40%	62%
1955	31	1	33	40%	1968	49	41%	61%
1956	54	0	54	67%	1923	48	42%	60%
1957	43	2	45	56%	1937	48	43%	59%
1958	38	1	39	48%	1981	48	44%	59%
1959	41	1	42	53%	1989	47	46%	59%
1960	44	1	44	55%	1962	47	47%	59%
1961	27	1	28	35%	1953	46	48%	57%
1962	46	1	47	59%	1972	46	49%	57%
1963	53	1	53	66%	1957	45	51%	56%
1964	54	1	55	69%	1943	45	52%	56%

SWP Table A Deliveries for 2013 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
1965	54	2	56	69%	1995	45	53%	56%
1966	49	2	51	63%	1952	45	54%	55%
1967	57	1	59	73%	1949	45	56%	55%
1968	47	2	49	61%	1926	44	57%	55%
1969	40	1	41	51%	1983	44	58%	55%
1970	61	2	63	79%	1960	44	59%	55%
1971	52	2	53	66%	1998	44	60%	54%
1972	44	1	46	57%	1950	43	62%	54%
1973	61	1	62	76%	1959	42	63%	53%
1974	55	2	57	71%	1938	42	64%	53%
1975	56	2	58	71%	1986	42	65%	52%
1976	36	2	37	46%	1980	42	67%	52%
1977	10	0	10	13%	1982	42	68%	52%
1978	55	0	55	68%	1969	41	69%	51%
1979	57	2	59	73%	1948	41	70%	51%
1980	41	1	42	52%	2002	40	72%	50%
1981	45	2	48	59%	1925	40	73%	49%
1982	41	1	42	52%	1939	39	74%	48%
1983	42	2	44	55%	1958	39	75%	48%
1984	62	1	63	78%	2003	38	77%	47%
1985	57	2	58	73%	1976	37	78%	46%
1986	40	2	42	52%	1994	37	79%	46%
1987	16	2	18	22%	1955	33	80%	40%
1988	22	0	22	27%	1944	32	81%	40%
1989	47	0	47	59%	1931	29	83%	36%
1990	15	1	16	20%	1933	29	84%	36%
1991	13	0	13	16%	1961	28	85%	35%
1992	21	0	21	26%	1930	26	86%	33%
1993	53	0	53	65%	2001	23	88%	29%
1994	35	1	37	46%	1932	22	89%	27%
1995	44	0	45	56%	1988	22	90%	27%
1996	60	0	61	75%	1929	21	91%	26%
1997	57	2	59	73%	1992	21	93%	26%
1998	42	2	44	54%	1924	18	94%	23%
1999	56	2	58	72%	1987	18	95%	22%
2000	56	2	58	72%	1990	16	96%	20%
2001	22	2	23	29%	1934	15	98%	18%
2002	40	0	40	50%	1991	13	99%	16%
2003	38	0	38	47%	1977	10	100%	13%
Average	43	1	44	55%		44		55%
Maximum	62	2	63	79%		63		79%
Minimum	10	0	10	13%		10		13%

Alameda County WD: Existing Conditions

SWP Table A Deliveries for 2013 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	31	0	31	74%	1958	42	0%	100%
1923	25	0	25	60%	1969	42	1%	100%
1924	9	0	9	22%	1980	42	2%	100%
1925	21	0	21	51%	1938	42	4%	100%
1926	23	0	23	56%	1982	42	5%	100%
1927	29	0	29	70%	1983	42	6%	100%
1928	30	0	30	71%	1952	39	7%	94%
1929	10	0	10	24%	1998	39	9%	93%
1930	14	0	14	33%	1986	38	10%	92%
1931	15	0	15	37%	1995	38	11%	91%
1932	11	0	11	27%	1943	38	12%	90%
1933	18	0	18	42%	1956	37	14%	89%
1934	7	0	7	18%	1937	36	15%	87%
1935	30	0	30	70%	1974	36	16%	86%
1936	33	0	33	78%	1997	35	17%	84%
1937	36	0	36	87%	1941	35	19%	83%
1938	42	0	42	100%	1967	34	20%	82%
1939	26	0	26	61%	1978	34	21%	81%
1940	27	0	27	64%	1984	33	22%	79%
1941	35	0	35	83%	1951	33	23%	78%
1942	30	0	30	70%	1936	33	25%	78%
1943	38	0	38	90%	1970	33	26%	78%
1944	17	0	17	40%	1973	33	27%	78%
1945	31	0	31	75%	1996	32	28%	77%
1946	30	0	30	72%	2002	31	30%	75%
1947	29	0	29	68%	1945	31	31%	75%
1948	22	0	22	51%	1922	31	32%	74%
1949	24	0	24	56%	1979	30	33%	72%
1950	23	0	23	54%	1985	30	35%	72%
1951	33	0	33	78%	1946	30	36%	72%
1952	39	0	39	94%	2000	30	37%	72%
1953	24	0	24	56%	1999	30	38%	71%
1954	26	0	26	63%	1975	30	40%	71%
1955	17	0	17	39%	1928	30	41%	71%
1956	37	0	37	89%	1942	30	42%	70%
1957	23	0	23	55%	1935	30	43%	70%
1958	42	0	42	100%	1927	29	44%	70%
1959	22	0	22	53%	1965	29	46%	69%
1960	23	0	23	56%	1964	29	47%	69%
1961	22	0	22	53%	1947	29	48%	68%
1962	25	0	25	59%	1993	28	49%	67%
1963	28	0	28	67%	1963	28	51%	67%
1964	29	0	29	69%	1971	28	52%	66%

SWP Table A Deliveries for 2013 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
1965	29	0	29	69%	1940	27	53%	64%
1966	26	0	26	63%	2003	27	54%	64%
1967	34	0	34	82%	1954	26	56%	63%
1968	25	0	25	60%	1966	26	57%	63%
1969	42	0	42	100%	1939	26	58%	61%
1970	33	0	33	78%	1989	25	59%	61%
1971	28	0	28	66%	1968	25	60%	60%
1972	24	0	24	56%	1923	25	62%	60%
1973	33	0	33	78%	1962	25	63%	59%
1974	36	0	36	86%	1981	24	64%	58%
1975	30	0	30	71%	1972	24	65%	56%
1976	19	0	19	45%	1949	24	67%	56%
1977	5	0	5	12%	1953	24	68%	56%
1978	34	0	34	81%	1926	23	69%	56%
1979	30	0	30	72%	1960	23	70%	56%
1980	42	0	42	100%	1957	23	72%	55%
1981	24	0	24	58%	1950	23	73%	54%
1982	42	0	42	100%	1959	22	74%	53%
1983	42	0	42	100%	1961	22	75%	53%
1984	33	0	33	79%	1948	22	77%	51%
1985	30	0	30	72%	1925	21	78%	51%
1986	38	0	38	92%	1976	19	79%	45%
1987	8	0	8	19%	1994	19	80%	45%
1988	11	0	11	27%	1933	18	81%	42%
1989	25	0	25	61%	1944	17	83%	40%
1990	8	0	8	19%	1955	17	84%	39%
1991	7	0	7	16%	1931	15	85%	37%
1992	11	0	11	26%	1930	14	86%	33%
1993	28	0	28	67%	1932	11	88%	27%
1994	19	0	19	45%	2001	11	89%	27%
1995	38	0	38	91%	1988	11	90%	27%
1996	32	0	32	77%	1992	11	91%	26%
1997	35	0	35	84%	1929	10	93%	24%
1998	39	0	39	93%	1924	9	94%	22%
1999	30	0	30	71%	1987	8	95%	19%
2000	30	0	30	72%	1990	8	96%	19%
2001	11	0	11	27%	1934	7	98%	18%
2002	31	0	31	75%	1991	7	99%	16%
2003	27	0	27	64%	1977	5	100%	12%
Average	27	0	27	63%		27		63%
Maximum	42	0	42	100%		42		100%
Minimum	5	0	5	12%		5		12%

Antelope Valley-East Kern WA: Existing Conditions

SWP Table A Deliveries for 2013 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	104	0	104	74%	1982	141	0%	100%
1923	84	0	84	60%	1969	141	1%	100%
1924	31	0	31	22%	1938	141	2%	100%
1925	72	0	72	51%	1983	141	4%	100%
1926	79	0	79	56%	1952	133	5%	94%
1927	98	0	98	70%	1998	131	6%	93%
1928	100	0	100	71%	1980	130	7%	92%
1929	34	0	34	24%	1986	130	9%	92%
1930	46	0	46	33%	1958	128	10%	90%
1931	52	0	52	37%	1956	125	11%	89%
1932	39	0	39	27%	1937	123	12%	87%
1933	60	0	60	42%	1974	122	14%	86%
1934	25	0	25	18%	1997	119	15%	84%
1935	99	0	99	70%	1943	117	16%	83%
1936	110	0	110	78%	1967	116	17%	82%
1937	123	0	123	87%	1978	115	19%	81%
1938	141	0	141	100%	1984	111	20%	79%
1939	51	0	51	36%	1951	111	21%	78%
1940	91	0	91	64%	1936	110	22%	78%
1941	107	0	107	76%	1970	110	23%	78%
1942	100	0	100	70%	1973	110	25%	78%
1943	117	0	117	83%	1996	109	26%	77%
1944	56	0	56	40%	1941	107	27%	76%
1945	106	0	106	75%	1945	106	28%	75%
1946	102	0	102	72%	1922	104	30%	74%
1947	97	0	97	68%	1979	102	31%	72%
1948	73	0	73	51%	1985	102	32%	72%
1949	79	0	79	56%	1946	102	33%	72%
1950	77	0	77	54%	2000	101	35%	72%
1951	111	0	111	78%	1999	101	36%	71%
1952	133	0	133	94%	1975	100	37%	71%
1953	79	0	79	56%	1928	100	38%	71%
1954	89	0	89	63%	1942	100	40%	70%
1955	56	0	56	39%	1935	99	41%	70%
1956	125	0	125	89%	1995	98	42%	70%
1957	78	0	78	55%	1927	98	43%	70%
1958	128	0	128	90%	1965	98	44%	69%
1959	75	0	75	53%	1964	97	46%	69%
1960	79	0	79	56%	1947	97	47%	68%
1961	74	0	74	52%	2003	96	48%	68%
1962	83	0	83	59%	1993	95	49%	67%
1963	95	0	95	67%	1963	95	51%	67%
1964	97	0	97	69%	1971	93	52%	66%

SWP Table A Deliveries for 2013 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
1965	98	0	98	69%	1940	91	53%	64%
1966	89	0	89	63%	1954	89	54%	63%
1967	116	0	116	82%	1966	89	56%	63%
1968	85	0	85	60%	1989	86	57%	61%
1969	141	0	141	100%	1968	85	58%	60%
1970	110	0	110	78%	1923	84	59%	60%
1971	93	0	93	66%	1962	83	60%	59%
1972	80	0	80	56%	1981	82	62%	58%
1973	110	0	110	78%	1972	80	63%	56%
1974	122	0	122	86%	1949	79	64%	56%
1975	100	0	100	71%	1953	79	65%	56%
1976	64	0	64	45%	1926	79	67%	56%
1977	17	0	17	12%	1960	79	68%	56%
1978	115	0	115	81%	1957	78	69%	55%
1979	102	0	102	72%	1950	77	70%	54%
1980	130	0	130	92%	1959	75	72%	53%
1981	82	0	82	58%	1961	74	73%	52%
1982	141	0	141	100%	1948	73	74%	51%
1983	141	0	141	100%	1925	72	75%	51%
1984	111	0	111	79%	2002	66	77%	47%
1985	102	0	102	72%	1976	64	78%	45%
1986	130	0	130	92%	1994	64	79%	45%
1987	27	0	27	19%	1933	60	80%	42%
1988	38	0	38	27%	1944	56	81%	40%
1989	86	0	86	61%	1955	56	83%	39%
1990	27	0	27	19%	1931	52	84%	37%
1991	23	0	23	16%	1939	51	85%	36%
1992	36	0	36	26%	1930	46	86%	33%
1993	95	0	95	67%	1932	39	88%	27%
1994	64	0	64	45%	2001	38	89%	27%
1995	98	0	98	70%	1988	38	90%	27%
1996	109	0	109	77%	1992	36	91%	26%
1997	119	0	119	84%	1929	34	93%	24%
1998	131	0	131	93%	1924	31	94%	22%
1999	101	0	101	71%	1987	27	95%	19%
2000	101	0	101	72%	1990	27	96%	19%
2001	38	0	38	27%	1934	25	98%	18%
2002	66	0	66	47%	1991	23	99%	16%
2003	96	0	96	68%	1977	17	100%	12%
Average	88	0	88	62%		88		62%
Maximum	141	0	141	100%		141		100%
Minimum	17	0	17	12%		17		12%

Castaic Lake WA: Existing Conditions

SWP Table A Deliveries for 2013 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	70	0	70	74%	1982	95	0%	100%
1923	57	0	57	60%	1983	95	1%	100%
1924	21	0	21	22%	1958	95	2%	100%
1925	48	0	48	51%	1980	95	4%	100%
1926	53	0	53	56%	1969	95	5%	100%
1927	66	0	66	70%	1938	95	6%	100%
1928	67	0	67	71%	1952	89	7%	94%
1929	23	0	23	24%	1998	88	9%	93%
1930	31	0	31	33%	1986	87	10%	92%
1931	35	0	35	37%	1995	87	11%	91%
1932	26	0	26	27%	1956	84	12%	89%
1933	40	0	40	42%	1937	83	14%	87%
1934	17	0	17	18%	1974	82	15%	86%
1935	67	0	67	70%	1997	80	16%	84%
1936	74	0	74	78%	1941	79	17%	83%
1937	83	0	83	87%	1967	78	19%	82%
1938	95	0	95	100%	1943	78	20%	82%
1939	28	0	28	29%	1978	77	21%	81%
1940	61	0	61	64%	1984	75	22%	79%
1941	79	0	79	83%	1951	75	23%	78%
1942	67	0	67	70%	1936	74	25%	78%
1943	78	0	78	82%	1970	74	26%	78%
1944	38	0	38	40%	1973	74	27%	78%
1945	71	0	71	75%	1996	73	28%	77%
1946	69	0	69	72%	1945	71	30%	75%
1947	65	0	65	68%	1922	70	31%	74%
1948	49	0	49	51%	1979	69	32%	72%
1949	53	0	53	56%	1985	69	33%	72%
1950	52	0	52	54%	1946	69	35%	72%
1951	75	0	75	78%	2000	68	36%	72%
1952	89	0	89	94%	1999	68	37%	71%
1953	53	0	53	56%	1975	68	38%	71%
1954	60	0	60	63%	1928	67	40%	71%
1955	37	0	37	39%	1942	67	41%	70%
1956	84	0	84	89%	1935	67	42%	70%
1957	52	0	52	55%	1927	66	43%	70%
1958	95	0	95	100%	1965	66	44%	69%
1959	50	0	50	53%	1964	65	46%	69%
1960	53	0	53	56%	1947	65	47%	68%
1961	46	0	46	48%	1993	64	48%	67%
1962	56	0	56	59%	1963	64	49%	67%
1963	64	0	64	67%	1971	63	51%	66%
1964	65	0	65	69%	1940	61	52%	64%

SWP Table A Deliveries for 2013 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
1965	66	0	66	69%	1954	60	53%	63%
1966	60	0	60	63%	1966	60	54%	63%
1967	78	0	78	82%	1989	58	56%	61%
1968	57	0	57	60%	1968	57	57%	60%
1969	95	0	95	100%	1923	57	58%	60%
1970	74	0	74	78%	2002	57	59%	59%
1971	63	0	63	66%	1962	56	60%	59%
1972	54	0	54	56%	1981	55	62%	58%
1973	74	0	74	78%	1972	54	63%	56%
1974	82	0	82	86%	1949	53	64%	56%
1975	68	0	68	71%	1953	53	65%	56%
1976	43	0	43	45%	1926	53	67%	56%
1977	11	0	11	12%	1960	53	68%	56%
1978	77	0	77	81%	1957	52	69%	55%
1979	69	0	69	72%	2003	52	70%	55%
1980	95	0	95	100%	1950	52	72%	54%
1981	55	0	55	58%	1959	50	73%	53%
1982	95	0	95	100%	1948	49	74%	51%
1983	95	0	95	100%	1925	48	75%	51%
1984	75	0	75	79%	1961	46	77%	48%
1985	69	0	69	72%	1976	43	78%	45%
1986	87	0	87	92%	1933	40	79%	42%
1987	18	0	18	19%	1944	38	80%	40%
1988	26	0	26	27%	1955	37	81%	39%
1989	58	0	58	61%	1994	36	83%	38%
1990	18	0	18	19%	1931	35	84%	37%
1991	16	0	16	16%	1930	31	85%	33%
1992	24	0	24	26%	1939	28	86%	29%
1993	64	0	64	67%	1932	26	88%	27%
1994	36	0	36	38%	2001	26	89%	27%
1995	87	0	87	91%	1988	26	90%	27%
1996	73	0	73	77%	1992	24	91%	26%
1997	80	0	80	84%	1929	23	93%	24%
1998	88	0	88	93%	1924	21	94%	22%
1999	68	0	68	71%	1987	18	95%	19%
2000	68	0	68	72%	1990	18	96%	19%
2001	26	0	26	27%	1934	17	98%	18%
2002	57	0	57	59%	1991	16	99%	16%
2003	52	0	52	55%	1977	11	100%	12%
Average	59	0	59	62%		59		62%
Maximum	95	0	95	100%		95		100%
Minimum	11	0	11	12%		11		12%

Coachella Valley WD: Existing Conditions

SWP Table A Deliveries for 2013 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	95	0	95	68%	1938	137	0%	99%
1923	82	7	90	65%	1983	137	1%	99%
1924	30	0	30	22%	1980	132	2%	95%
1925	70	0	70	51%	1969	129	4%	93%
1926	77	0	77	56%	1958	128	5%	93%
1927	89	0	89	65%	1982	128	6%	93%
1928	91	7	98	71%	1998	128	7%	92%
1929	34	7	41	29%	1986	125	9%	90%
1930	45	0	45	33%	1937	119	10%	86%
1931	51	0	51	37%	1974	119	11%	86%
1932	38	0	38	27%	1995	117	12%	85%
1933	59	0	59	42%	1997	116	14%	84%
1934	24	0	24	18%	1956	114	15%	82%
1935	90	0	90	65%	1970	110	16%	80%
1936	100	7	107	77%	1941	109	17%	79%
1937	111	8	119	86%	1936	107	19%	77%
1938	128	9	137	99%	1967	107	20%	77%
1939	83	10	93	67%	1984	105	21%	76%
1940	86	1	86	62%	1978	104	22%	75%
1941	107	2	109	79%	2003	101	23%	73%
1942	91	1	91	66%	1979	101	25%	73%
1943	86	7	93	67%	1999	101	26%	73%
1944	55	1	56	40%	1985	101	27%	73%
1945	96	0	96	69%	1951	101	28%	73%
1946	93	7	100	72%	1946	100	30%	72%
1947	89	7	96	69%	1973	100	31%	72%
1948	71	1	72	52%	1975	100	32%	72%
1949	78	0	78	56%	1996	100	33%	72%
1950	75	0	75	54%	2000	99	35%	72%
1951	101	0	101	73%	1928	98	36%	71%
1952	70	8	78	56%	1945	96	37%	69%
1953	78	7	85	61%	2002	96	38%	69%
1954	85	0	85	61%	1947	96	40%	69%
1955	54	2	57	41%	1965	95	41%	69%
1956	114	0	114	82%	1971	95	42%	68%
1957	76	9	85	61%	1922	95	43%	68%
1958	128	0	128	93%	1964	94	44%	68%
1959	73	2	75	54%	1939	93	46%	67%
1960	77	0	77	56%	1943	93	47%	67%
1961	29	0	29	21%	1966	91	48%	66%
1962	81	0	81	59%	1942	91	49%	66%
1963	88	0	88	63%	1968	91	51%	66%
1964	89	5	94	68%	1935	90	52%	65%

SWP Table A Deliveries for 2013 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
1965	89	6	95	69%	1923	90	53%	65%
1966	85	7	91	66%	1927	89	54%	65%
1967	105	2	107	77%	1993	88	56%	64%
1968	83	8	91	66%	1963	88	57%	63%
1969	128	0	129	93%	1940	86	58%	62%
1970	100	10	110	80%	1981	85	59%	62%
1971	87	8	95	68%	1957	85	60%	61%
1972	78	4	82	59%	1954	85	62%	61%
1973	100	0	100	72%	1953	85	63%	61%
1974	111	8	119	86%	1989	83	64%	60%
1975	91	9	100	72%	1972	82	65%	59%
1976	63	7	70	51%	1962	81	67%	59%
1977	17	0	17	12%	1949	78	68%	56%
1978	104	0	104	75%	1952	78	69%	56%
1979	93	8	101	73%	1926	77	70%	56%
1980	128	3	132	95%	1960	77	72%	56%
1981	80	5	85	62%	1950	75	73%	54%
1982	128	0	128	93%	1959	75	74%	54%
1983	128	8	137	99%	1948	72	75%	52%
1984	101	4	105	76%	1925	70	77%	51%
1985	93	8	101	73%	1976	70	78%	51%
1986	118	7	125	90%	1994	68	79%	49%
1987	27	8	35	25%	1933	59	80%	42%
1988	37	0	37	27%	1955	57	81%	41%
1989	83	0	83	60%	1944	56	83%	40%
1990	26	1	27	20%	1931	51	84%	37%
1991	23	0	23	16%	1930	45	85%	33%
1992	35	0	35	26%	2001	44	86%	32%
1993	88	0	88	64%	1929	41	88%	29%
1994	62	5	68	49%	1932	38	89%	27%
1995	117	0	117	85%	1988	37	90%	27%
1996	99	1	100	72%	1992	35	91%	26%
1997	109	8	116	84%	1987	35	93%	25%
1998	119	8	128	92%	1924	30	94%	22%
1999	92	9	101	73%	1961	29	95%	21%
2000	92	7	99	72%	1990	27	96%	20%
2001	37	7	44	32%	1934	24	98%	18%
2002	96	0	96	69%	1991	23	99%	16%
2003	101	1	101	73%	1977	17	100%	12%
Average	82	3	85	62%		85		62%
Maximum	128	10	137	99%		137		99%
Minimum	17	0	17	12%		17		12%

County of Kings: Existing Conditions

SWP Table A Deliveries for 2013 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	7	0	7	74%	1938	9	0%	100%
1923	6	0	6	60%	1938	9	1%	100%
1924	2	0	2	22%	1938	9	2%	100%
1925	5	0	5	51%	1938	9	4%	100%
1926	5	0	5	56%	1938	9	5%	100%
1927	6	0	6	70%	1958	9	6%	100%
1928	7	0	7	71%	1952	9	7%	94%
1929	2	0	2	24%	1998	9	9%	93%
1930	3	0	3	33%	1986	9	10%	92%
1931	3	0	3	37%	1943	8	11%	90%
1932	3	0	3	27%	1956	8	12%	89%
1933	4	0	4	42%	1937	8	14%	87%
1934	2	0	2	18%	1974	8	15%	86%
1935	7	0	7	70%	1997	8	16%	84%
1936	7	0	7	78%	1941	8	17%	83%
1937	8	0	8	87%	1967	8	19%	82%
1938	9	0	9	100%	1978	8	20%	81%
1939	2	0	2	23%	1995	7	21%	80%
1940	6	0	6	64%	1984	7	22%	79%
1941	8	0	8	83%	1951	7	23%	78%
1942	7	0	7	70%	1936	7	25%	78%
1943	8	0	8	90%	1970	7	26%	78%
1944	4	0	4	40%	1973	7	27%	78%
1945	7	0	7	75%	1996	7	28%	77%
1946	7	0	7	72%	1945	7	30%	75%
1947	6	0	6	68%	1922	7	31%	74%
1948	5	0	5	51%	1979	7	32%	72%
1949	5	0	5	56%	2003	7	33%	72%
1950	5	0	5	54%	1985	7	35%	72%
1951	7	0	7	78%	1946	7	36%	72%
1952	9	0	9	94%	2000	7	37%	72%
1953	5	0	5	56%	1999	7	38%	71%
1954	6	0	6	63%	1975	7	40%	71%
1955	4	0	4	39%	1928	7	41%	71%
1956	8	0	8	89%	1942	7	42%	70%
1957	5	0	5	55%	1935	7	43%	70%
1958	9	0	9	100%	1927	6	44%	70%
1959	5	0	5	53%	1965	6	46%	69%
1960	5	0	5	56%	1964	6	47%	69%
1961	5	0	5	53%	1947	6	48%	68%
1962	5	0	5	59%	1993	6	49%	67%
1963	6	0	6	67%	1963	6	51%	67%
1964	6	0	6	69%	1971	6	52%	66%

SWP Table A Deliveries for 2013 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
1965	6	0	6	69%	1940	6	53%	64%
1966	6	0	6	63%	1954	6	54%	63%
1967	8	0	8	82%	1966	6	56%	63%
1968	6	0	6	60%	1989	6	57%	61%
1969	9	0	9	100%	1968	6	58%	60%
1970	7	0	7	78%	1923	6	59%	60%
1971	6	0	6	66%	1962	5	60%	59%
1972	5	0	5	56%	1981	5	62%	58%
1973	7	0	7	78%	1972	5	63%	56%
1974	8	0	8	86%	1949	5	64%	56%
1975	7	0	7	71%	1953	5	65%	56%
1976	4	0	4	45%	1926	5	67%	56%
1977	1	0	1	12%	1960	5	68%	56%
1978	8	0	8	81%	1957	5	69%	55%
1979	7	0	7	72%	1950	5	70%	54%
1980	9	0	9	100%	1959	5	72%	53%
1981	5	0	5	58%	1961	5	73%	53%
1982	9	0	9	100%	1948	5	74%	51%
1983	9	0	9	100%	1925	5	75%	51%
1984	7	0	7	79%	2002	4	77%	47%
1985	7	0	7	72%	1976	4	78%	45%
1986	9	0	9	92%	1994	4	79%	45%
1987	2	0	2	19%	1933	4	80%	42%
1988	3	0	3	27%	1944	4	81%	40%
1989	6	0	6	61%	1955	4	83%	39%
1990	2	0	2	19%	1931	3	84%	37%
1991	2	0	2	16%	1930	3	85%	33%
1992	2	0	2	26%	1932	3	86%	27%
1993	6	0	6	67%	2001	3	88%	27%
1994	4	0	4	45%	1988	3	89%	27%
1995	7	0	7	80%	1992	2	90%	26%
1996	7	0	7	77%	1929	2	91%	24%
1997	8	0	8	84%	1939	2	93%	23%
1998	9	0	9	93%	1924	2	94%	22%
1999	7	0	7	71%	1987	2	95%	19%
2000	7	0	7	72%	1990	2	96%	19%
2001	3	0	3	27%	1934	2	98%	18%
2002	4	0	4	47%	1991	2	99%	16%
2003	7	0	7	72%	1977	1	100%	12%
Average	6	0	6	62%		6		62%
Maximum	9	0	9	100%		9		100%
Minimum	1	0	1	12%		1		12%

Crestline-Lake Arrowhead WA: Existing Conditions

SWP Table A Deliveries for 2013 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	4	0	4	74%	1980	6	0%	100%
1923	3	0	3	60%	1969	6	1%	100%
1924	1	0	1	22%	1952	5	2%	94%
1925	3	0	3	51%	1998	5	4%	93%
1926	3	0	3	56%	1986	5	5%	92%
1927	4	0	4	70%	1943	5	6%	90%
1928	4	0	4	71%	1956	5	7%	89%
1929	1	0	1	24%	1937	5	9%	87%
1930	2	0	2	33%	1974	5	10%	86%
1931	2	0	2	37%	1983	5	11%	85%
1932	2	0	2	27%	1997	5	12%	84%
1933	2	0	2	42%	1941	5	14%	83%
1934	1	0	1	18%	1967	5	15%	82%
1935	4	0	4	70%	1978	5	16%	81%
1936	5	0	5	78%	1984	5	17%	79%
1937	5	0	5	87%	1951	5	19%	78%
1938	2	0	2	40%	1936	5	20%	78%
1939	3	0	3	46%	1970	5	21%	78%
1940	4	0	4	64%	1973	5	22%	78%
1941	5	0	5	83%	1945	4	23%	75%
1942	4	0	4	70%	1922	4	25%	74%
1943	5	0	5	90%	1979	4	26%	72%
1944	2	0	2	40%	1985	4	27%	72%
1945	4	0	4	75%	1946	4	28%	72%
1946	4	0	4	72%	2000	4	30%	72%
1947	4	0	4	68%	1999	4	31%	71%
1948	3	0	3	51%	1975	4	32%	71%
1949	3	0	3	56%	1928	4	33%	71%
1950	3	0	3	54%	1942	4	35%	70%
1951	5	0	5	78%	1935	4	36%	70%
1952	5	0	5	94%	1927	4	37%	70%
1953	3	0	3	56%	1965	4	38%	69%
1954	4	0	4	63%	1964	4	40%	69%
1955	2	0	2	39%	1947	4	41%	68%
1956	5	0	5	89%	1993	4	42%	67%
1957	3	0	3	55%	1963	4	43%	67%
1958	1	0	1	25%	1971	4	44%	66%
1959	3	0	3	53%	1996	4	46%	65%
1960	3	0	3	56%	1940	4	47%	64%
1961	3	0	3	49%	1954	4	48%	63%
1962	3	0	3	59%	1966	4	49%	63%
1963	4	0	4	67%	1989	4	51%	61%
1964	4	0	4	69%	1968	3	52%	60%

SWP Table A Deliveries for 2013 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
1965	4	0	4	69%	1923	3	53%	60%
1966	4	0	4	63%	2003	3	54%	59%
1967	5	0	5	82%	1962	3	56%	59%
1968	3	0	3	60%	1981	3	57%	58%
1969	6	0	6	100%	1972	3	58%	56%
1970	5	0	5	78%	1949	3	59%	56%
1971	4	0	4	66%	1953	3	60%	56%
1972	3	0	3	56%	1926	3	62%	56%
1973	5	0	5	78%	1960	3	63%	56%
1974	5	0	5	86%	1957	3	64%	55%
1975	4	0	4	71%	2002	3	65%	54%
1976	3	0	3	45%	1950	3	67%	54%
1977	1	0	1	12%	1959	3	68%	53%
1978	5	0	5	81%	1948	3	69%	51%
1979	4	0	4	72%	1925	3	70%	51%
1980	6	0	6	100%	1961	3	72%	49%
1981	3	0	3	58%	1939	3	73%	46%
1982	2	0	2	40%	1976	3	74%	45%
1983	5	0	5	85%	1994	3	75%	45%
1984	5	0	5	79%	1933	2	77%	42%
1985	4	0	4	72%	1938	2	78%	40%
1986	5	0	5	92%	1944	2	79%	40%
1987	1	0	1	19%	1982	2	80%	40%
1988	2	0	2	27%	1955	2	81%	39%
1989	4	0	4	61%	1931	2	83%	37%
1990	1	0	1	19%	1995	2	84%	33%
1991	1	0	1	16%	1930	2	85%	33%
1992	1	0	1	26%	1932	2	86%	27%
1993	4	0	4	67%	2001	2	88%	27%
1994	3	0	3	45%	1988	2	89%	27%
1995	2	0	2	33%	1992	1	90%	26%
1996	4	0	4	65%	1958	1	91%	25%
1997	5	0	5	84%	1929	1	93%	24%
1998	5	0	5	93%	1924	1	94%	22%
1999	4	0	4	71%	1987	1	95%	19%
2000	4	0	4	72%	1990	1	96%	19%
2001	2	0	2	27%	1934	1	98%	18%
2002	3	0	3	54%	1991	1	99%	16%
2003	3	0	3	59%	1977	1	100%	12%
Average	3	0	3	59%		3		59%
Maximum	6	0	6	100%		6		100%
Minimum	1	0	1	12%		1		12%

Desert WA: Existing Conditions

SWP Table A Deliveries for 2013 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	32	0	32	58%	1938	52	0%	93%
1923	33	7	40	71%	1952	48	1%	86%
1924	12	0	12	22%	1980	48	2%	86%
1925	28	0	28	51%	2003	48	4%	85%
1926	31	0	31	56%	1986	47	5%	84%
1927	31	0	31	55%	1998	45	6%	82%
1928	31	6	37	67%	1937	45	7%	81%
1929	14	6	20	36%	1974	45	9%	81%
1930	18	0	18	33%	1982	44	10%	79%
1931	20	0	20	37%	1958	44	11%	79%
1932	15	0	15	27%	1970	44	12%	78%
1933	24	0	24	42%	1997	44	14%	78%
1934	10	0	10	18%	1943	42	15%	76%
1935	31	0	31	55%	1968	40	16%	73%
1936	34	6	40	73%	1936	40	17%	73%
1937	38	7	45	81%	1999	40	19%	72%
1938	44	8	52	93%	1995	40	20%	72%
1939	6	10	16	29%	1923	40	21%	71%
1940	32	0	32	58%	1969	39	22%	71%
1941	37	1	37	67%	1979	39	23%	70%
1942	31	0	31	56%	1975	39	25%	70%
1943	39	3	42	76%	1957	39	26%	70%
1944	22	0	22	40%	1985	39	27%	70%
1945	33	0	33	59%	1956	39	28%	70%
1946	32	7	38	69%	1971	39	30%	70%
1947	31	6	37	67%	1946	38	31%	69%
1948	29	0	29	52%	1966	38	32%	69%
1949	31	0	31	56%	2000	38	33%	68%
1950	30	0	30	54%	1967	37	35%	67%
1951	34	0	34	62%	1941	37	36%	67%
1952	41	7	48	86%	1947	37	37%	67%
1953	31	3	34	61%	1928	37	38%	67%
1954	32	0	32	58%	1978	36	40%	64%
1955	22	2	24	43%	1964	35	41%	63%
1956	39	0	39	70%	1972	35	42%	63%
1957	31	8	39	70%	1984	34	43%	62%
1958	44	0	44	79%	1951	34	44%	62%
1959	29	1	30	54%	1981	34	46%	62%
1960	31	0	31	56%	1973	34	47%	61%
1961	29	0	29	53%	1953	34	48%	61%
1962	33	0	33	59%	1965	33	49%	60%
1963	31	0	31	56%	1989	33	51%	59%
1964	31	4	35	63%	1962	33	52%	59%

SWP Table A Deliveries for 2013 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
1965	31	3	33	60%	1945	33	53%	59%
1966	33	6	38	69%	1954	32	54%	58%
1967	36	2	37	67%	1940	32	56%	58%
1968	33	7	40	73%	1922	32	57%	58%
1969	39	0	39	71%	1976	32	58%	57%
1970	34	9	44	78%	1963	31	59%	56%
1971	32	7	39	70%	1993	31	60%	56%
1972	31	3	35	63%	1949	31	62%	56%
1973	34	0	34	61%	1926	31	63%	56%
1974	38	7	45	81%	1942	31	64%	56%
1975	31	8	39	70%	1960	31	65%	56%
1976	25	6	32	57%	1935	31	67%	55%
1977	7	0	7	12%	1927	31	68%	55%
1978	36	0	36	64%	1950	30	69%	54%
1979	32	7	39	70%	1959	30	70%	54%
1980	44	4	48	86%	1994	30	72%	53%
1981	32	2	34	62%	1961	29	73%	53%
1982	44	0	44	79%	1948	29	74%	52%
1983	20	8	28	50%	1925	28	75%	51%
1984	34	0	34	62%	1983	28	77%	50%
1985	32	7	39	70%	1996	25	78%	45%
1986	40	6	47	84%	1955	24	79%	43%
1987	11	3	14	25%	1933	24	80%	42%
1988	15	0	15	27%	1944	22	81%	40%
1989	33	0	33	59%	2002	22	83%	39%
1990	11	1	11	20%	2001	21	84%	38%
1991	9	0	9	16%	1931	20	85%	37%
1992	14	0	14	26%	1929	20	86%	36%
1993	31	0	31	56%	1930	18	88%	33%
1994	25	4	30	53%	1939	16	89%	29%
1995	40	0	40	72%	1932	15	90%	27%
1996	25	0	25	45%	1988	15	91%	27%
1997	37	7	44	78%	1992	14	93%	26%
1998	41	5	45	82%	1987	14	94%	25%
1999	31	9	40	72%	1924	12	95%	22%
2000	31	6	38	68%	1990	11	96%	20%
2001	15	6	21	38%	1934	10	98%	18%
2002	22	0	22	39%	1991	9	99%	16%
2003	47	0	48	85%	1977	7	100%	12%
Average	29	3	32	58%		32		58%
Maximum	47	10	52	93%		52		93%
Minimum	6	0	7	12%		7		12%

Dudley Ridge WD: Existing Conditions

SWP Table A Deliveries for 2013 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	37	0	37	74%	1969	50	0%	100%
1923	30	0	30	60%	1982	50	1%	100%
1924	11	0	11	22%	1958	50	2%	100%
1925	26	0	26	51%	1938	50	4%	100%
1926	28	0	28	56%	1980	50	5%	100%
1927	35	0	35	70%	1983	50	6%	100%
1928	36	0	36	71%	1952	47	7%	94%
1929	12	0	12	24%	1998	47	9%	93%
1930	16	0	16	33%	1986	46	10%	92%
1931	18	0	18	37%	1995	46	11%	91%
1932	14	0	14	27%	1943	45	12%	90%
1933	21	0	21	42%	1956	45	14%	89%
1934	9	0	9	18%	1937	44	15%	87%
1935	35	0	35	70%	1974	44	16%	86%
1936	39	0	39	78%	1997	43	17%	84%
1937	44	0	44	87%	1941	42	19%	83%
1938	50	0	50	100%	1967	41	20%	82%
1939	29	0	29	58%	1978	41	21%	81%
1940	32	0	32	64%	1984	40	22%	79%
1941	42	0	42	83%	1951	39	23%	78%
1942	35	0	35	70%	1936	39	25%	78%
1943	45	0	45	90%	1970	39	26%	78%
1944	20	0	20	40%	1973	39	27%	78%
1945	38	0	38	75%	1996	39	28%	77%
1946	36	0	36	72%	1945	38	30%	75%
1947	34	0	34	68%	1922	37	31%	74%
1948	26	0	26	51%	1979	36	32%	72%
1949	28	0	28	56%	1985	36	33%	72%
1950	27	0	27	54%	1946	36	35%	72%
1951	39	0	39	78%	2000	36	36%	72%
1952	47	0	47	94%	1999	36	37%	71%
1953	28	0	28	56%	1975	36	38%	71%
1954	32	0	32	63%	1928	36	40%	71%
1955	20	0	20	39%	1942	35	41%	70%
1956	45	0	45	89%	1935	35	42%	70%
1957	28	0	28	55%	1927	35	43%	70%
1958	50	0	50	100%	1965	35	44%	69%
1959	27	0	27	53%	1964	35	46%	69%
1960	28	0	28	56%	1947	34	47%	68%
1961	26	0	26	53%	1993	34	48%	67%
1962	30	0	30	59%	1963	34	49%	67%
1963	34	0	34	67%	1971	33	51%	66%
1964	35	0	35	69%	1940	32	52%	64%

SWP Table A Deliveries for 2013 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
1965	35	0	35	69%	1954	32	53%	63%
1966	32	0	32	63%	1966	32	54%	63%
1967	41	0	41	82%	1989	30	56%	61%
1968	30	0	30	60%	1968	30	57%	60%
1969	50	0	50	100%	1923	30	58%	60%
1970	39	0	39	78%	1962	30	59%	59%
1971	33	0	33	66%	1981	29	60%	58%
1972	28	0	28	56%	1939	29	62%	58%
1973	39	0	39	78%	2002	28	63%	57%
1974	44	0	44	86%	1972	28	64%	56%
1975	36	0	36	71%	1949	28	65%	56%
1976	23	0	23	45%	1953	28	67%	56%
1977	6	0	6	12%	1926	28	68%	56%
1978	41	0	41	81%	2003	28	69%	56%
1979	36	0	36	72%	1960	28	70%	56%
1980	50	0	50	100%	1957	28	72%	55%
1981	29	0	29	58%	1950	27	73%	54%
1982	50	0	50	100%	1959	27	74%	53%
1983	50	0	50	100%	1961	26	75%	53%
1984	40	0	40	79%	1948	26	77%	51%
1985	36	0	36	72%	1925	26	78%	51%
1986	46	0	46	92%	1976	23	79%	45%
1987	10	0	10	19%	1994	23	80%	45%
1988	14	0	14	27%	1933	21	81%	42%
1989	30	0	30	61%	1944	20	83%	40%
1990	10	0	10	19%	1955	20	84%	39%
1991	8	0	8	16%	1931	18	85%	37%
1992	13	0	13	26%	1930	16	86%	33%
1993	34	0	34	67%	1932	14	88%	27%
1994	23	0	23	45%	2001	14	89%	27%
1995	46	0	46	91%	1988	14	90%	27%
1996	39	0	39	77%	1992	13	91%	26%
1997	43	0	43	84%	1929	12	93%	24%
1998	47	0	47	93%	1924	11	94%	22%
1999	36	0	36	71%	1987	10	95%	19%
2000	36	0	36	72%	1990	10	96%	19%
2001	14	0	14	27%	1934	9	98%	18%
2002	28	0	28	57%	1991	8	99%	16%
2003	28	0	28	56%	1977	6	100%	12%
Average	32	0	32	63%		32		63%
Maximum	50	0	50	100%		50		100%
Minimum	6	0	6	12%		6		12%

Empire West Side ID: Existing Conditions

SWP Table A Deliveries for 2013 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	1	0	1	74%	1938	2	0%	100%
1923	1	0	1	60%	1938	2	1%	100%
1924	0	0	0	22%	1938	2	2%	100%
1925	1	0	1	51%	1938	2	4%	100%
1926	1	0	1	56%	1938	2	5%	100%
1927	1	0	1	70%	1938	2	6%	100%
1928	1	0	1	71%	1952	2	7%	94%
1929	0	0	0	20%	1998	2	9%	93%
1930	1	0	1	33%	1986	2	10%	92%
1931	1	0	1	37%	1943	2	11%	90%
1932	1	0	1	27%	1956	2	12%	89%
1933	1	0	1	42%	1937	2	14%	87%
1934	0	0	0	18%	1974	2	15%	86%
1935	1	0	1	70%	1995	2	16%	85%
1936	2	0	2	78%	1997	2	17%	84%
1937	2	0	2	87%	1967	2	19%	82%
1938	2	0	2	100%	1978	2	20%	81%
1939	1	0	1	38%	1984	2	21%	79%
1940	1	0	1	64%	1951	2	22%	78%
1941	2	0	2	78%	1936	2	23%	78%
1942	1	0	1	70%	1970	2	25%	78%
1943	2	0	2	90%	1973	2	26%	78%
1944	1	0	1	40%	1941	2	27%	78%
1945	1	0	1	75%	1996	2	28%	77%
1946	1	0	1	72%	1945	1	30%	75%
1947	1	0	1	68%	1922	1	31%	74%
1948	1	0	1	51%	1979	1	32%	72%
1949	1	0	1	56%	1985	1	33%	72%
1950	1	0	1	54%	1946	1	35%	72%
1951	2	0	2	78%	2000	1	36%	72%
1952	2	0	2	94%	1999	1	37%	71%
1953	1	0	1	56%	1975	1	38%	71%
1954	1	0	1	63%	1928	1	40%	71%
1955	1	0	1	39%	1942	1	41%	70%
1956	2	0	2	89%	1935	1	42%	70%
1957	1	0	1	55%	2002	1	43%	70%
1958	2	0	2	100%	1927	1	44%	70%
1959	1	0	1	53%	1965	1	46%	69%
1960	1	0	1	56%	1964	1	47%	69%
1961	1	0	1	49%	1947	1	48%	68%
1962	1	0	1	59%	1993	1	49%	67%
1963	1	0	1	67%	1963	1	51%	67%
1964	1	0	1	69%	1971	1	52%	66%

SWP Table A Deliveries for 2013 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
1965	1	0	1	69%	1940	1	53%	64%
1966	1	0	1	63%	1954	1	54%	63%
1967	2	0	2	82%	1966	1	56%	63%
1968	1	0	1	60%	1989	1	57%	61%
1969	2	0	2	100%	1968	1	58%	60%
1970	2	0	2	78%	1923	1	59%	60%
1971	1	0	1	66%	1962	1	60%	59%
1972	1	0	1	56%	2003	1	62%	59%
1973	2	0	2	78%	1981	1	63%	58%
1974	2	0	2	86%	1972	1	64%	56%
1975	1	0	1	71%	1949	1	65%	56%
1976	1	0	1	45%	1953	1	67%	56%
1977	0	0	0	12%	1926	1	68%	56%
1978	2	0	2	81%	1960	1	69%	56%
1979	1	0	1	72%	1957	1	70%	55%
1980	2	0	2	100%	1950	1	72%	54%
1981	1	0	1	58%	1959	1	73%	53%
1982	2	0	2	100%	1948	1	74%	51%
1983	2	0	2	100%	1925	1	75%	51%
1984	2	0	2	79%	1961	1	77%	49%
1985	1	0	1	72%	1976	1	78%	45%
1986	2	0	2	92%	1994	1	79%	45%
1987	0	0	0	19%	1933	1	80%	42%
1988	1	0	1	27%	1944	1	81%	40%
1989	1	0	1	61%	1955	1	83%	39%
1990	0	0	0	19%	1939	1	84%	38%
1991	0	0	0	16%	1931	1	85%	37%
1992	1	0	1	26%	1930	1	86%	33%
1993	1	0	1	67%	1932	1	88%	27%
1994	1	0	1	45%	2001	1	89%	27%
1995	2	0	2	85%	1988	1	90%	27%
1996	2	0	2	77%	1992	1	91%	26%
1997	2	0	2	84%	1924	0	93%	22%
1998	2	0	2	93%	1929	0	94%	20%
1999	1	0	1	71%	1987	0	95%	19%
2000	1	0	1	72%	1990	0	96%	19%
2001	1	0	1	27%	1934	0	98%	18%
2002	1	0	1	70%	1991	0	99%	16%
2003	1	0	1	59%	1977	0	100%	12%
Average	1	0	1	63%		1		63%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	12%		0		12%

Kern County WA-AG: Existing Conditions

SWP Table A Deliveries for 2013 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	624	0	624	74%	1983	848	0%	100%
1923	507	0	507	60%	1982	848	1%	100%
1924	185	0	185	22%	1938	848	2%	100%
1925	431	0	431	51%	1969	848	4%	100%
1926	474	0	474	56%	1958	848	5%	100%
1927	590	0	590	70%	1980	848	6%	100%
1928	599	0	599	71%	1952	795	7%	94%
1929	200	0	200	24%	1998	787	9%	93%
1930	277	0	277	33%	1986	777	10%	92%
1931	302	0	302	36%	1943	760	11%	90%
1932	232	0	232	27%	1956	751	12%	89%
1933	359	0	359	42%	1937	735	14%	87%
1934	149	0	149	18%	1974	734	15%	86%
1935	596	0	596	70%	1995	724	16%	85%
1936	662	0	662	78%	1997	717	17%	84%
1937	735	0	735	87%	1941	707	19%	83%
1938	848	0	848	100%	1967	694	20%	82%
1939	363	0	363	43%	1978	687	21%	81%
1940	544	0	544	64%	1984	667	22%	79%
1941	707	0	707	83%	1951	664	23%	78%
1942	598	0	598	70%	1936	662	25%	78%
1943	760	0	760	90%	1970	662	26%	78%
1944	336	0	336	40%	1973	660	27%	78%
1945	633	0	633	75%	1996	654	28%	77%
1946	613	0	613	72%	1945	633	30%	75%
1947	580	0	580	68%	1922	624	31%	74%
1948	436	0	436	51%	1979	615	32%	72%
1949	476	0	476	56%	1985	614	33%	72%
1950	462	0	462	54%	1946	613	35%	72%
1951	664	0	664	78%	2000	607	36%	72%
1952	795	0	795	94%	1999	606	37%	71%
1953	476	0	476	56%	1975	602	38%	71%
1954	534	0	534	63%	1928	599	40%	71%
1955	333	0	333	39%	1942	598	41%	70%
1956	751	0	751	89%	1935	596	42%	70%
1957	467	0	467	55%	1927	590	43%	70%
1958	848	0	848	100%	1965	587	44%	69%
1959	448	0	448	53%	1964	583	46%	69%
1960	472	0	472	56%	1947	580	47%	68%
1961	441	0	441	52%	1993	570	48%	67%
1962	500	0	500	59%	1963	569	49%	67%
1963	569	0	569	67%	1971	558	51%	66%
1964	583	0	583	69%	1940	544	52%	64%

SWP Table A Deliveries for 2013 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
1965	587	0	587	69%	1954	534	53%	63%
1966	531	0	531	63%	1966	531	54%	63%
1967	694	0	694	82%	2003	527	56%	62%
1968	511	0	511	60%	2002	522	57%	62%
1969	848	0	848	100%	1989	514	58%	61%
1970	662	0	662	78%	1968	511	59%	60%
1971	558	0	558	66%	1923	507	60%	60%
1972	478	0	478	56%	1962	500	62%	59%
1973	660	0	660	78%	1981	490	63%	58%
1974	734	0	734	86%	1972	478	64%	56%
1975	602	0	602	71%	1949	476	65%	56%
1976	386	0	386	45%	1953	476	67%	56%
1977	101	0	101	12%	1926	474	68%	56%
1978	687	0	687	81%	1960	472	69%	56%
1979	615	0	615	72%	1957	467	70%	55%
1980	848	0	848	100%	1950	462	72%	54%
1981	490	0	490	58%	1959	448	73%	53%
1982	848	0	848	100%	1961	441	74%	52%
1983	848	0	848	100%	1948	436	75%	51%
1984	667	0	667	79%	1925	431	77%	51%
1985	614	0	614	72%	1976	386	78%	45%
1986	777	0	777	92%	1994	383	79%	45%
1987	164	0	164	19%	1939	363	80%	43%
1988	228	0	228	27%	1933	359	81%	42%
1989	514	0	514	61%	1944	336	83%	40%
1990	161	0	161	19%	1955	333	84%	39%
1991	138	0	138	16%	1931	302	85%	36%
1992	217	0	217	26%	1930	277	86%	33%
1993	570	0	570	67%	1932	232	88%	27%
1994	383	0	383	45%	2001	229	89%	27%
1995	724	0	724	85%	1988	228	90%	27%
1996	654	0	654	77%	1992	217	91%	26%
1997	717	0	717	84%	1929	200	93%	24%
1998	787	0	787	93%	1924	185	94%	22%
1999	606	0	606	71%	1987	164	95%	19%
2000	607	0	607	72%	1990	161	96%	19%
2001	229	0	229	27%	1934	149	98%	18%
2002	522	0	522	62%	1991	138	99%	16%
2003	527	0	527	62%	1977	101	100%	12%
Average	532	0	532	63%		532		63%
Maximum	848	0	848	100%		848		100%
Minimum	101	0	101	12%		101		12%

Kern County WA-MI: Existing Conditions

SWP Table A Deliveries for 2013 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	99	0	99	74%	1982	135	0%	100%
1923	80	0	80	60%	1983	135	1%	100%
1924	29	0	29	22%	1980	135	2%	100%
1925	68	0	68	51%	1969	135	4%	100%
1926	75	0	75	56%	1938	135	5%	100%
1927	94	0	94	70%	1958	135	6%	100%
1928	95	0	95	71%	1952	126	7%	94%
1929	33	0	33	24%	1998	125	9%	93%
1930	44	0	44	33%	1986	123	10%	92%
1931	49	0	49	37%	1995	123	11%	91%
1932	37	0	37	27%	1943	121	12%	90%
1933	57	0	57	42%	1956	119	14%	89%
1934	24	0	24	18%	1937	117	15%	87%
1935	95	0	95	70%	1974	116	16%	86%
1936	105	0	105	78%	1997	114	17%	84%
1937	117	0	117	87%	1941	112	19%	83%
1938	135	0	135	100%	1967	110	20%	82%
1939	57	0	57	42%	1978	109	21%	81%
1940	86	0	86	64%	1984	106	22%	79%
1941	112	0	112	83%	1951	105	23%	78%
1942	95	0	95	70%	1936	105	25%	78%
1943	121	0	121	90%	1970	105	26%	78%
1944	53	0	53	40%	1973	105	27%	78%
1945	101	0	101	75%	1996	104	28%	77%
1946	97	0	97	72%	1945	101	30%	75%
1947	92	0	92	68%	1922	99	31%	74%
1948	69	0	69	51%	1979	98	32%	72%
1949	76	0	76	56%	1985	97	33%	72%
1950	73	0	73	54%	1946	97	35%	72%
1951	105	0	105	78%	2000	96	36%	72%
1952	126	0	126	94%	1999	96	37%	71%
1953	75	0	75	56%	1975	95	38%	71%
1954	85	0	85	63%	1928	95	40%	71%
1955	53	0	53	39%	1942	95	41%	70%
1956	119	0	119	89%	1935	95	42%	70%
1957	74	0	74	55%	1927	94	43%	70%
1958	135	0	135	100%	1965	93	44%	69%
1959	71	0	71	53%	1964	93	46%	69%
1960	75	0	75	56%	1947	92	47%	68%
1961	56	0	56	42%	1993	90	48%	67%
1962	79	0	79	59%	1963	90	49%	67%
1963	90	0	90	67%	1971	89	51%	66%
1964	93	0	93	69%	1940	86	52%	64%

SWP Table A Deliveries for 2013 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
1965	93	0	93	69%	1954	85	53%	63%
1966	84	0	84	63%	1966	84	54%	63%
1967	110	0	110	82%	2003	83	56%	62%
1968	81	0	81	60%	1989	82	57%	61%
1969	135	0	135	100%	1968	81	58%	60%
1970	105	0	105	78%	1923	80	59%	60%
1971	89	0	89	66%	1962	79	60%	59%
1972	76	0	76	56%	1981	78	62%	58%
1973	105	0	105	78%	2002	77	63%	57%
1974	116	0	116	86%	1972	76	64%	56%
1975	95	0	95	71%	1949	76	65%	56%
1976	61	0	61	45%	1953	75	67%	56%
1977	16	0	16	12%	1926	75	68%	56%
1978	109	0	109	81%	1960	75	69%	56%
1979	98	0	98	72%	1957	74	70%	55%
1980	135	0	135	100%	1950	73	72%	54%
1981	78	0	78	58%	1959	71	73%	53%
1982	135	0	135	100%	1948	69	74%	51%
1983	135	0	135	100%	1925	68	75%	51%
1984	106	0	106	79%	1976	61	77%	45%
1985	97	0	97	72%	1994	61	78%	45%
1986	123	0	123	92%	1939	57	79%	42%
1987	26	0	26	19%	1933	57	80%	42%
1988	36	0	36	27%	1961	56	81%	42%
1989	82	0	82	61%	1944	53	83%	40%
1990	26	0	26	19%	1955	53	84%	39%
1991	22	0	22	16%	1931	49	85%	37%
1992	34	0	34	26%	1930	44	86%	33%
1993	90	0	90	67%	1932	37	88%	27%
1994	61	0	61	45%	2001	36	89%	27%
1995	123	0	123	91%	1988	36	90%	27%
1996	104	0	104	77%	1992	34	91%	26%
1997	114	0	114	84%	1929	33	93%	24%
1998	125	0	125	93%	1924	29	94%	22%
1999	96	0	96	71%	1987	26	95%	19%
2000	96	0	96	72%	1990	26	96%	19%
2001	36	0	36	27%	1934	24	98%	18%
2002	77	0	77	57%	1991	22	99%	16%
2003	83	0	83	62%	1977	16	100%	12%
Average	84	0	84	63%		84		63%
Maximum	135	0	135	100%		135		100%
Minimum	16	0	16	12%		16		12%

Littlerock Creek ID: Existing Conditions

SWP Table A Deliveries for 2013 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	2	0	2	74%	1982	2	0%	100%
1923	1	0	1	60%	1958	2	1%	100%
1924	1	0	1	22%	1938	2	2%	100%
1925	1	0	1	51%	1969	2	4%	100%
1926	1	0	1	56%	1983	2	5%	100%
1927	2	0	2	70%	1980	2	6%	100%
1928	2	0	2	71%	1952	2	7%	94%
1929	1	0	1	24%	1998	2	9%	93%
1930	1	0	1	33%	1986	2	10%	92%
1931	1	0	1	37%	1995	2	11%	91%
1932	1	0	1	27%	1943	2	12%	90%
1933	1	0	1	42%	1956	2	14%	89%
1934	0	0	0	18%	1937	2	15%	87%
1935	2	0	2	70%	1974	2	16%	86%
1936	2	0	2	78%	1997	2	17%	84%
1937	2	0	2	87%	1941	2	19%	83%
1938	2	0	2	100%	1967	2	20%	82%
1939	1	0	1	42%	1978	2	21%	81%
1940	1	0	1	64%	1984	2	22%	79%
1941	2	0	2	83%	1951	2	23%	78%
1942	2	0	2	70%	1936	2	25%	78%
1943	2	0	2	90%	1970	2	26%	78%
1944	1	0	1	40%	1973	2	27%	78%
1945	2	0	2	75%	1996	2	28%	77%
1946	2	0	2	72%	1945	2	30%	75%
1947	2	0	2	68%	1922	2	31%	74%
1948	1	0	1	51%	1979	2	32%	72%
1949	1	0	1	56%	1985	2	33%	72%
1950	1	0	1	54%	1946	2	35%	72%
1951	2	0	2	78%	2000	2	36%	72%
1952	2	0	2	94%	1999	2	37%	71%
1953	1	0	1	56%	1975	2	38%	71%
1954	1	0	1	63%	1928	2	40%	71%
1955	1	0	1	39%	1942	2	41%	70%
1956	2	0	2	89%	1935	2	42%	70%
1957	1	0	1	55%	1927	2	43%	70%
1958	2	0	2	100%	1965	2	44%	69%
1959	1	0	1	53%	1964	2	46%	69%
1960	1	0	1	56%	1947	2	47%	68%
1961	1	0	1	53%	1993	2	48%	67%
1962	1	0	1	59%	1963	2	49%	67%
1963	2	0	2	67%	1971	2	51%	66%
1964	2	0	2	69%	2003	1	52%	64%

SWP Table A Deliveries for 2013 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
1965	2	0	2	69%	1940	1	53%	64%
1966	1	0	1	63%	1954	1	54%	63%
1967	2	0	2	82%	1966	1	56%	63%
1968	1	0	1	60%	1989	1	57%	61%
1969	2	0	2	100%	1968	1	58%	60%
1970	2	0	2	78%	1923	1	59%	60%
1971	2	0	2	66%	1962	1	60%	59%
1972	1	0	1	56%	1981	1	62%	58%
1973	2	0	2	78%	2002	1	63%	58%
1974	2	0	2	86%	1972	1	64%	56%
1975	2	0	2	71%	1949	1	65%	56%
1976	1	0	1	45%	1953	1	67%	56%
1977	0	0	0	12%	1926	1	68%	56%
1978	2	0	2	81%	1960	1	69%	56%
1979	2	0	2	72%	1957	1	70%	55%
1980	2	0	2	100%	1950	1	72%	54%
1981	1	0	1	58%	1959	1	73%	53%
1982	2	0	2	100%	1961	1	74%	53%
1983	2	0	2	100%	1948	1	75%	51%
1984	2	0	2	79%	1925	1	77%	51%
1985	2	0	2	72%	1976	1	78%	45%
1986	2	0	2	92%	1933	1	79%	42%
1987	0	0	0	19%	1939	1	80%	42%
1988	1	0	1	27%	1944	1	81%	40%
1989	1	0	1	61%	1955	1	83%	39%
1990	0	0	0	19%	1931	1	84%	37%
1991	0	0	0	16%	1994	1	85%	36%
1992	1	0	1	26%	1930	1	86%	33%
1993	2	0	2	67%	1932	1	88%	27%
1994	1	0	1	36%	2001	1	89%	27%
1995	2	0	2	91%	1988	1	90%	27%
1996	2	0	2	77%	1992	1	91%	26%
1997	2	0	2	84%	1929	1	93%	24%
1998	2	0	2	93%	1924	1	94%	22%
1999	2	0	2	71%	1987	0	95%	19%
2000	2	0	2	72%	1990	0	96%	19%
2001	1	0	1	27%	1934	0	98%	18%
2002	1	0	1	58%	1991	0	99%	16%
2003	1	0	1	64%	1977	0	100%	12%
Average	1	0	1	63%		1		63%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	12%		0		12%

Metropolitan WDSC: Existing Conditions

SWP Table A Deliveries for 2013 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	1,260	0	1,260	66%	1983	1,866	0%	98%
1923	1,138	147	1,285	67%	1938	1,821	1%	95%
1924	418	3	421	22%	1952	1,759	2%	92%
1925	970	0	970	51%	1998	1,718	4%	90%
1926	1,068	0	1,068	56%	1982	1,712	5%	90%
1927	1,191	0	1,191	62%	1986	1,698	6%	89%
1928	1,208	138	1,345	70%	1980	1,676	7%	88%
1929	466	139	606	32%	1969	1,672	9%	87%
1930	624	0	624	33%	1937	1,637	10%	86%
1931	700	0	700	37%	1974	1,635	11%	86%
1932	523	0	523	27%	1997	1,598	12%	84%
1933	759	0	759	40%	1958	1,570	14%	82%
1934	336	0	336	18%	1995	1,548	15%	81%
1935	1,204	0	1,204	63%	1970	1,533	16%	80%
1936	1,335	139	1,474	77%	1943	1,519	17%	79%
1937	1,482	154	1,637	86%	1956	1,516	19%	79%
1938	1,649	172	1,821	95%	1936	1,474	20%	77%
1939	1,048	200	1,248	65%	1941	1,457	21%	76%
1940	1,166	8	1,174	61%	1967	1,437	22%	75%
1941	1,426	31	1,457	76%	1984	1,433	23%	75%
1942	1,206	8	1,214	64%	1999	1,407	25%	74%
1943	1,414	105	1,519	79%	1979	1,401	26%	73%
1944	757	14	770	40%	1985	1,394	27%	73%
1945	1,278	0	1,278	67%	1978	1,387	28%	73%
1946	1,237	148	1,384	72%	1975	1,386	30%	72%
1947	1,186	143	1,329	70%	1946	1,384	31%	72%
1948	984	15	999	52%	2000	1,366	32%	71%
1949	1,073	0	1,073	56%	1928	1,345	33%	70%
1950	1,041	0	1,041	54%	1951	1,340	35%	70%
1951	1,340	0	1,340	70%	1973	1,333	36%	70%
1952	1,604	155	1,759	92%	1971	1,329	37%	70%
1953	1,072	97	1,169	61%	1947	1,329	38%	70%
1954	1,159	0	1,159	61%	1996	1,324	40%	69%
1955	751	41	792	41%	1968	1,303	41%	68%
1956	1,516	0	1,516	79%	1966	1,289	42%	67%
1957	1,053	176	1,229	64%	1964	1,287	43%	67%
1958	1,570	0	1,570	82%	1965	1,285	44%	67%
1959	1,009	25	1,035	54%	1923	1,285	46%	67%
1960	1,064	0	1,064	56%	1945	1,278	47%	67%
1961	948	0	948	50%	1922	1,260	48%	66%
1962	1,126	0	1,126	59%	1939	1,248	49%	65%
1963	1,180	0	1,180	62%	1957	1,229	51%	64%
1964	1,187	100	1,287	67%	1942	1,214	52%	64%

SWP Table A Deliveries for 2013 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
1965	1,189	96	1,285	67%	1935	1,204	53%	63%
1966	1,157	132	1,289	67%	2003	1,199	54%	63%
1967	1,400	37	1,437	75%	1927	1,191	56%	62%
1968	1,141	162	1,303	68%	1993	1,181	57%	62%
1969	1,664	8	1,672	87%	1963	1,180	58%	62%
1970	1,335	199	1,533	80%	1981	1,177	59%	62%
1971	1,175	154	1,329	70%	2002	1,175	60%	61%
1972	1,077	81	1,158	61%	1940	1,174	62%	61%
1973	1,333	0	1,333	70%	1953	1,169	63%	61%
1974	1,480	154	1,635	86%	1954	1,159	64%	61%
1975	1,214	171	1,386	72%	1972	1,158	65%	61%
1976	869	142	1,011	53%	1989	1,144	67%	60%
1977	229	0	229	12%	1962	1,126	68%	59%
1978	1,387	0	1,387	73%	1949	1,073	69%	56%
1979	1,240	161	1,401	73%	1926	1,068	70%	56%
1980	1,611	65	1,676	88%	1960	1,064	72%	56%
1981	1,105	72	1,177	62%	1950	1,041	73%	54%
1982	1,712	0	1,712	90%	1959	1,035	74%	54%
1983	1,711	155	1,866	98%	1976	1,011	75%	53%
1984	1,345	88	1,433	75%	1948	999	77%	52%
1985	1,238	156	1,394	73%	1925	970	78%	51%
1986	1,555	143	1,698	89%	1961	948	79%	50%
1987	370	113	482	25%	1994	905	80%	47%
1988	514	0	514	27%	1955	792	81%	41%
1989	1,144	0	1,144	60%	1944	770	83%	40%
1990	364	13	377	20%	1933	759	84%	40%
1991	312	0	312	16%	1931	700	85%	37%
1992	489	0	489	26%	2001	657	86%	34%
1993	1,181	0	1,181	62%	1930	624	88%	33%
1994	803	102	905	47%	1929	606	89%	32%
1995	1,548	0	1,548	81%	1932	523	90%	27%
1996	1,316	8	1,324	69%	1988	514	91%	27%
1997	1,446	153	1,598	84%	1992	489	93%	26%
1998	1,554	164	1,718	90%	1987	482	94%	25%
1999	1,223	184	1,407	74%	1924	421	95%	22%
2000	1,225	141	1,366	71%	1990	377	96%	20%
2001	516	141	657	34%	1934	336	98%	18%
2002	1,175	0	1,175	61%	1991	312	99%	16%
2003	1,191	8	1,199	63%	1977	229	100%	12%
Average	1,113	65	1,178	62%		1,178		62%
Maximum	1,712	200	1,866	98%		1,866		98%
Minimum	229	0	229	12%		229		12%

Mojave WA: Existing Conditions

SWP Table A Deliveries for 2013 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	61	0	61	74%	1938	79	0%	95%
1923	49	0	49	60%	1943	74	1%	90%
1924	18	0	18	22%	1956	73	2%	89%
1925	42	0	42	51%	1974	72	4%	86%
1926	46	0	46	56%	1952	70	5%	85%
1927	58	0	58	70%	1997	70	6%	84%
1928	58	0	58	71%	1941	69	7%	83%
1929	20	0	20	24%	1998	68	9%	82%
1930	27	0	27	33%	1983	68	10%	82%
1931	30	0	30	37%	1967	68	11%	82%
1932	23	0	23	27%	1978	67	12%	81%
1933	35	0	35	42%	1984	65	14%	79%
1934	15	0	15	18%	1951	65	15%	78%
1935	58	0	58	70%	1936	65	16%	78%
1936	65	0	65	78%	1970	65	17%	78%
1937	33	0	33	40%	1973	64	19%	78%
1938	79	0	79	95%	1945	62	20%	75%
1939	42	0	42	51%	2002	62	21%	75%
1940	53	0	53	64%	1922	61	22%	74%
1941	69	0	69	83%	1979	60	23%	72%
1942	58	0	58	70%	1985	60	25%	72%
1943	74	0	74	90%	1946	60	26%	72%
1944	33	0	33	40%	2000	59	27%	72%
1945	62	0	62	75%	1999	59	28%	71%
1946	60	0	60	72%	1975	59	30%	71%
1947	57	0	57	68%	1928	58	31%	71%
1948	43	0	43	51%	1942	58	32%	70%
1949	46	0	46	56%	1935	58	33%	70%
1950	45	0	45	54%	1927	58	35%	70%
1951	65	0	65	78%	1965	57	36%	69%
1952	70	0	70	85%	1964	57	37%	69%
1953	46	0	46	56%	1947	57	38%	68%
1954	52	0	52	63%	1993	56	40%	67%
1955	33	0	33	39%	1963	56	41%	67%
1956	73	0	73	89%	1971	54	42%	66%
1957	46	0	46	55%	1940	53	43%	64%
1958	39	0	39	47%	1954	52	44%	63%
1959	44	0	44	53%	1966	52	46%	63%
1960	46	0	46	56%	1989	50	47%	61%
1961	42	0	42	51%	1968	50	48%	60%
1962	49	0	49	59%	1996	50	49%	60%
1963	56	0	56	67%	1923	49	51%	60%
1964	57	0	57	69%	1962	49	52%	59%

SWP Table A Deliveries for 2013 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
1965	57	0	57	69%	1981	48	53%	58%
1966	52	0	52	63%	1972	47	54%	56%
1967	68	0	68	82%	1949	46	56%	56%
1968	50	0	50	60%	1953	46	57%	56%
1969	36	0	36	43%	1926	46	58%	56%
1970	65	0	65	78%	1960	46	59%	56%
1971	54	0	54	66%	2003	46	60%	56%
1972	47	0	47	56%	1957	46	62%	55%
1973	64	0	64	78%	1950	45	63%	54%
1974	72	0	72	86%	1959	44	64%	53%
1975	59	0	59	71%	1948	43	65%	51%
1976	38	0	38	45%	1982	43	67%	51%
1977	10	0	10	12%	1961	42	68%	51%
1978	67	0	67	81%	1925	42	69%	51%
1979	60	0	60	72%	1939	42	70%	51%
1980	35	0	35	42%	1986	41	72%	49%
1981	48	0	48	58%	1958	39	73%	47%
1982	43	0	43	51%	1976	38	74%	45%
1983	68	0	68	82%	1994	37	75%	45%
1984	65	0	65	79%	1969	36	77%	43%
1985	60	0	60	72%	1933	35	78%	42%
1986	41	0	41	49%	1980	35	79%	42%
1987	16	0	16	19%	1937	33	80%	40%
1988	22	0	22	27%	1944	33	81%	40%
1989	50	0	50	61%	1955	33	83%	39%
1990	16	0	16	19%	1931	30	84%	37%
1991	14	0	14	16%	1995	30	85%	36%
1992	21	0	21	26%	1930	27	86%	33%
1993	56	0	56	67%	1932	23	88%	27%
1994	37	0	37	45%	2001	22	89%	27%
1995	30	0	30	36%	1988	22	90%	27%
1996	50	0	50	60%	1992	21	91%	26%
1997	70	0	70	84%	1929	20	93%	24%
1998	68	0	68	82%	1924	18	94%	22%
1999	59	0	59	71%	1987	16	95%	19%
2000	59	0	59	72%	1990	16	96%	19%
2001	22	0	22	27%	1934	15	98%	18%
2002	62	0	62	75%	1991	14	99%	16%
2003	46	0	46	56%	1977	10	100%	12%
Average	48	0	48	58%		48		58%
Maximum	79	0	79	95%		79		95%
Minimum	10	0	10	12%		10		12%

Napa County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2013 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	21	0	21	74%	1958	29	0%	100%
1923	17	0	17	60%	1980	29	1%	100%
1924	6	0	6	22%	1983	29	2%	100%
1925	15	0	15	51%	1982	29	4%	100%
1926	16	0	16	56%	1938	29	5%	100%
1927	20	0	20	70%	1969	29	6%	100%
1928	20	0	20	71%	1952	27	7%	94%
1929	7	0	7	24%	1998	27	9%	93%
1930	9	0	9	33%	1986	27	10%	92%
1931	11	0	11	37%	1995	26	11%	91%
1932	8	0	8	27%	1943	26	12%	90%
1933	12	0	12	42%	1956	26	14%	89%
1934	5	0	5	18%	1937	25	15%	87%
1935	20	0	20	70%	1974	25	16%	86%
1936	23	0	23	78%	1997	25	17%	84%
1937	25	0	25	87%	1941	24	19%	83%
1938	29	0	29	100%	1967	24	20%	82%
1939	18	0	18	61%	1978	24	21%	81%
1940	19	0	19	64%	1984	23	22%	79%
1941	24	0	24	83%	1951	23	23%	78%
1942	20	0	20	70%	1936	23	25%	78%
1943	26	0	26	90%	1970	23	26%	78%
1944	11	0	11	40%	1973	23	27%	78%
1945	22	0	22	75%	2003	23	28%	78%
1946	21	0	21	72%	1996	22	30%	77%
1947	20	0	20	68%	1945	22	31%	75%
1948	15	0	15	51%	2002	22	32%	75%
1949	16	0	16	56%	1922	21	33%	74%
1950	16	0	16	54%	1979	21	35%	72%
1951	23	0	23	78%	1985	21	36%	72%
1952	27	0	27	94%	1946	21	37%	72%
1953	16	0	16	56%	2000	21	38%	72%
1954	18	0	18	63%	1999	21	40%	71%
1955	11	0	11	39%	1975	21	41%	71%
1956	26	0	26	89%	1928	20	42%	71%
1957	16	0	16	55%	1942	20	43%	70%
1958	29	0	29	100%	1935	20	44%	70%
1959	15	0	15	53%	1927	20	46%	70%
1960	16	0	16	56%	1965	20	47%	69%
1961	15	0	15	53%	1964	20	48%	69%
1962	17	0	17	59%	1947	20	49%	68%
1963	19	0	19	67%	1993	20	51%	67%
1964	20	0	20	69%	1963	19	52%	67%

SWP Table A Deliveries for 2013 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
1965	20	0	20	69%	1971	19	53%	66%
1966	18	0	18	63%	1940	19	54%	64%
1967	24	0	24	82%	1954	18	56%	63%
1968	17	0	17	60%	1966	18	57%	63%
1969	29	0	29	100%	1939	18	58%	61%
1970	23	0	23	78%	1989	18	59%	61%
1971	19	0	19	66%	1968	17	60%	60%
1972	16	0	16	56%	1923	17	62%	60%
1973	23	0	23	78%	1962	17	63%	59%
1974	25	0	25	86%	1981	17	64%	58%
1975	21	0	21	71%	1972	16	65%	56%
1976	13	0	13	45%	1949	16	67%	56%
1977	3	0	3	12%	1953	16	68%	56%
1978	24	0	24	81%	1926	16	69%	56%
1979	21	0	21	72%	1960	16	70%	56%
1980	29	0	29	100%	1957	16	72%	55%
1981	17	0	17	58%	1950	16	73%	54%
1982	29	0	29	100%	1959	15	74%	53%
1983	29	0	29	100%	1961	15	75%	53%
1984	23	0	23	79%	1948	15	77%	51%
1985	21	0	21	72%	1925	15	78%	51%
1986	27	0	27	92%	1976	13	79%	45%
1987	6	0	6	19%	1994	13	80%	45%
1988	8	0	8	27%	1933	12	81%	42%
1989	18	0	18	61%	1944	11	83%	40%
1990	6	0	6	19%	1955	11	84%	39%
1991	5	0	5	16%	1931	11	85%	37%
1992	7	0	7	26%	1930	9	86%	33%
1993	20	0	20	67%	1932	8	88%	27%
1994	13	0	13	45%	2001	8	89%	27%
1995	26	0	26	91%	1988	8	90%	27%
1996	22	0	22	77%	1992	7	91%	26%
1997	25	0	25	84%	1929	7	93%	24%
1998	27	0	27	93%	1924	6	94%	22%
1999	21	0	21	71%	1987	6	95%	19%
2000	21	0	21	72%	1990	6	96%	19%
2001	8	0	8	27%	1934	5	98%	18%
2002	22	0	22	75%	1991	5	99%	16%
2003	23	0	23	78%	1977	3	100%	12%
Average	18	0	18	63%		18		63%
Maximum	29	0	29	100%		29		100%
Minimum	3	0	3	12%		3		12%

Oak Flat WD: Existing Conditions

SWP Table A Deliveries for 2013 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	4	0	4	74%	1969	6	0%	100%
1923	3	0	3	60%	1982	6	1%	100%
1924	1	0	1	22%	1938	6	2%	100%
1925	3	0	3	51%	1958	6	4%	100%
1926	3	0	3	56%	1983	6	5%	100%
1927	4	0	4	70%	1980	6	6%	100%
1928	4	0	4	71%	1952	5	7%	94%
1929	1	0	1	21%	1998	5	9%	93%
1930	2	0	2	33%	1986	5	10%	92%
1931	2	0	2	31%	1995	5	11%	90%
1932	2	0	2	27%	1943	5	12%	90%
1933	2	0	2	40%	1956	5	14%	89%
1934	1	0	1	18%	1937	5	15%	87%
1935	4	0	4	70%	1974	5	16%	86%
1936	4	0	4	78%	1997	5	17%	84%
1937	5	0	5	87%	1941	5	19%	83%
1938	6	0	6	100%	1967	5	20%	82%
1939	3	0	3	50%	1978	5	21%	81%
1940	4	0	4	64%	1984	4	22%	79%
1941	5	0	5	83%	1951	4	23%	78%
1942	4	0	4	70%	1936	4	25%	78%
1943	5	0	5	90%	1970	4	26%	78%
1944	2	0	2	40%	1973	4	27%	78%
1945	4	0	4	75%	1996	4	28%	77%
1946	4	0	4	72%	1945	4	30%	75%
1947	4	0	4	68%	1922	4	31%	74%
1948	3	0	3	51%	1979	4	32%	72%
1949	3	0	3	56%	1985	4	33%	72%
1950	3	0	3	54%	1946	4	35%	72%
1951	4	0	4	78%	2000	4	36%	72%
1952	5	0	5	94%	1999	4	37%	71%
1953	3	0	3	56%	1975	4	38%	71%
1954	4	0	4	63%	1928	4	40%	71%
1955	2	0	2	39%	1942	4	41%	70%
1956	5	0	5	89%	1935	4	42%	70%
1957	3	0	3	55%	1927	4	43%	70%
1958	6	0	6	100%	1965	4	44%	69%
1959	3	0	3	53%	1964	4	46%	69%
1960	3	0	3	56%	1947	4	47%	68%
1961	3	0	3	47%	2002	4	48%	68%
1962	3	0	3	59%	1993	4	49%	67%
1963	4	0	4	67%	1963	4	51%	67%
1964	4	0	4	69%	1971	4	52%	66%

SWP Table A Deliveries for 2013 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
1965	4	0	4	69%	1940	4	53%	64%
1966	4	0	4	63%	1954	4	54%	63%
1967	5	0	5	82%	1966	4	56%	63%
1968	3	0	3	60%	1989	3	57%	61%
1969	6	0	6	100%	1968	3	58%	60%
1970	4	0	4	78%	1923	3	59%	60%
1971	4	0	4	66%	1962	3	60%	59%
1972	3	0	3	56%	2003	3	62%	59%
1973	4	0	4	78%	1981	3	63%	58%
1974	5	0	5	86%	1972	3	64%	56%
1975	4	0	4	71%	1949	3	65%	56%
1976	3	0	3	45%	1953	3	67%	56%
1977	1	0	1	12%	1926	3	68%	56%
1978	5	0	5	81%	1960	3	69%	56%
1979	4	0	4	72%	1957	3	70%	55%
1980	6	0	6	100%	1950	3	72%	54%
1981	3	0	3	58%	1959	3	73%	53%
1982	6	0	6	100%	1948	3	74%	51%
1983	6	0	6	100%	1925	3	75%	51%
1984	4	0	4	79%	1939	3	77%	50%
1985	4	0	4	72%	1961	3	78%	47%
1986	5	0	5	92%	1976	3	79%	45%
1987	1	0	1	19%	1994	2	80%	42%
1988	2	0	2	27%	1944	2	81%	40%
1989	3	0	3	61%	1933	2	83%	40%
1990	1	0	1	19%	1955	2	84%	39%
1991	1	0	1	16%	1930	2	85%	33%
1992	1	0	1	26%	1931	2	86%	31%
1993	4	0	4	67%	1932	2	88%	27%
1994	2	0	2	42%	2001	2	89%	27%
1995	5	0	5	90%	1988	2	90%	27%
1996	4	0	4	77%	1992	1	91%	26%
1997	5	0	5	84%	1924	1	93%	22%
1998	5	0	5	93%	1929	1	94%	21%
1999	4	0	4	71%	1987	1	95%	19%
2000	4	0	4	72%	1990	1	96%	19%
2001	2	0	2	27%	1934	1	98%	18%
2002	4	0	4	68%	1991	1	99%	16%
2003	3	0	3	59%	1977	1	100%	12%
Average	4	0	4	63%		4		63%
Maximum	6	0	6	100%		6		100%
Minimum	1	0	1	12%		1		12%

Palmdale WD: Existing Conditions

SWP Table A Deliveries for 2013 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	16	0	16	74%	1969	21	0%	100%
1923	13	0	13	60%	1938	21	1%	100%
1924	5	0	5	22%	1982	21	2%	100%
1925	11	0	11	51%	1958	21	4%	100%
1926	12	0	12	56%	1983	21	5%	100%
1927	15	0	15	70%	1980	21	6%	100%
1928	15	0	15	71%	1952	20	7%	94%
1929	5	0	5	24%	1998	20	9%	93%
1930	7	0	7	33%	1986	20	10%	92%
1931	8	0	8	37%	1943	19	11%	90%
1932	6	0	6	27%	1956	19	12%	89%
1933	9	0	9	42%	1937	18	14%	87%
1934	4	0	4	18%	1974	18	15%	86%
1935	15	0	15	70%	1997	18	16%	84%
1936	17	0	17	78%	1941	18	17%	83%
1937	18	0	18	87%	1967	17	19%	82%
1938	21	0	21	100%	1978	17	20%	81%
1939	8	0	8	40%	1984	17	21%	79%
1940	14	0	14	64%	1951	17	22%	78%
1941	18	0	18	83%	1995	17	23%	78%
1942	15	0	15	70%	1936	17	25%	78%
1943	19	0	19	90%	1970	17	26%	78%
1944	8	0	8	40%	1973	17	27%	78%
1945	16	0	16	75%	1996	16	28%	77%
1946	15	0	15	72%	1945	16	30%	75%
1947	15	0	15	68%	1922	16	31%	74%
1948	11	0	11	51%	1979	15	32%	72%
1949	12	0	12	56%	1985	15	33%	72%
1950	12	0	12	54%	1946	15	35%	72%
1951	17	0	17	78%	2000	15	36%	72%
1952	20	0	20	94%	1999	15	37%	71%
1953	12	0	12	56%	1975	15	38%	71%
1954	13	0	13	63%	1928	15	40%	71%
1955	8	0	8	39%	1942	15	41%	70%
1956	19	0	19	89%	1935	15	42%	70%
1957	12	0	12	55%	1927	15	43%	70%
1958	21	0	21	100%	1965	15	44%	69%
1959	11	0	11	53%	1964	15	46%	69%
1960	12	0	12	56%	1947	15	47%	68%
1961	11	0	11	53%	1993	14	48%	67%
1962	13	0	13	59%	1963	14	49%	67%
1963	14	0	14	67%	2003	14	51%	67%
1964	15	0	15	69%	1971	14	52%	66%

SWP Table A Deliveries for 2013 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
1965	15	0	15	69%	1940	14	53%	64%
1966	13	0	13	63%	1954	13	54%	63%
1967	17	0	17	82%	1966	13	56%	63%
1968	13	0	13	60%	1989	13	57%	61%
1969	21	0	21	100%	1968	13	58%	60%
1970	17	0	17	78%	1923	13	59%	60%
1971	14	0	14	66%	1962	13	60%	59%
1972	12	0	12	56%	1981	12	62%	58%
1973	17	0	17	78%	2002	12	63%	58%
1974	18	0	18	86%	1972	12	64%	56%
1975	15	0	15	71%	1949	12	65%	56%
1976	10	0	10	45%	1953	12	67%	56%
1977	3	0	3	12%	1926	12	68%	56%
1978	17	0	17	81%	1960	12	69%	56%
1979	15	0	15	72%	1957	12	70%	55%
1980	21	0	21	100%	1950	12	72%	54%
1981	12	0	12	58%	1959	11	73%	53%
1982	21	0	21	100%	1961	11	74%	53%
1983	21	0	21	100%	1948	11	75%	51%
1984	17	0	17	79%	1925	11	77%	51%
1985	15	0	15	72%	1976	10	78%	45%
1986	20	0	20	92%	1933	9	79%	42%
1987	4	0	4	19%	1939	8	80%	40%
1988	6	0	6	27%	1944	8	81%	40%
1989	13	0	13	61%	1955	8	83%	39%
1990	4	0	4	19%	1994	8	84%	38%
1991	3	0	3	16%	1931	8	85%	37%
1992	5	0	5	26%	1930	7	86%	33%
1993	14	0	14	67%	1932	6	88%	27%
1994	8	0	8	38%	2001	6	89%	27%
1995	17	0	17	78%	1988	6	90%	27%
1996	16	0	16	77%	1992	5	91%	26%
1997	18	0	18	84%	1929	5	93%	24%
1998	20	0	20	93%	1924	5	94%	22%
1999	15	0	15	71%	1987	4	95%	19%
2000	15	0	15	72%	1990	4	96%	19%
2001	6	0	6	27%	1934	4	98%	18%
2002	12	0	12	58%	1991	3	99%	16%
2003	14	0	14	67%	1977	3	100%	12%
Average	13	0	13	63%		13		63%
Maximum	21	0	21	100%		21		100%
Minimum	3	0	3	12%		3		12%

San Bernardino Valley MWD: Existing Conditions

SWP Table A Deliveries for 2013 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	67	0	67	65%	1938	101	0%	98%
1923	61	8	69	68%	1983	96	1%	94%
1924	22	0	23	22%	1980	95	2%	93%
1925	52	0	52	51%	1952	94	4%	92%
1926	57	0	57	56%	1998	93	5%	91%
1927	63	0	63	62%	1969	92	6%	89%
1928	64	8	72	70%	1958	91	7%	89%
1929	25	8	33	32%	1937	88	9%	86%
1930	33	0	33	33%	1974	88	10%	85%
1931	38	0	38	37%	1943	87	11%	85%
1932	28	0	28	27%	1997	86	12%	84%
1933	43	0	43	42%	1995	83	14%	81%
1934	18	0	18	18%	1970	82	15%	80%
1935	64	0	64	63%	1956	81	16%	79%
1936	71	8	79	77%	1936	79	17%	77%
1937	79	9	88	86%	1941	78	19%	76%
1938	91	10	101	98%	1967	77	20%	75%
1939	61	11	73	71%	1999	76	21%	74%
1940	62	0	63	61%	1979	75	22%	73%
1941	76	2	78	76%	1985	75	23%	73%
1942	64	0	65	63%	1975	74	25%	73%
1943	82	6	87	85%	1946	74	26%	72%
1944	41	1	41	40%	1978	74	27%	72%
1945	68	0	68	66%	2000	73	28%	71%
1946	66	8	74	72%	1939	73	30%	71%
1947	63	8	71	70%	1928	72	31%	70%
1948	53	1	54	52%	1984	72	32%	70%
1949	58	0	58	56%	1971	71	33%	70%
1950	56	0	56	54%	1951	71	35%	70%
1951	71	0	71	70%	1947	71	36%	70%
1952	85	9	94	92%	1973	71	37%	69%
1953	58	5	63	61%	1996	71	38%	69%
1954	62	0	62	60%	1968	70	40%	69%
1955	40	2	43	42%	1923	69	41%	68%
1956	81	0	81	79%	1966	69	42%	68%
1957	57	10	66	65%	1964	69	43%	67%
1958	91	0	91	89%	1965	69	44%	67%
1959	54	1	56	54%	1945	68	46%	66%
1960	57	0	57	56%	1922	67	47%	65%
1961	54	0	54	53%	1957	66	48%	65%
1962	60	0	60	59%	1942	65	49%	63%
1963	63	0	63	61%	1935	64	51%	63%
1964	63	6	69	67%	1927	63	52%	62%

SWP Table A Deliveries for 2013 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
1965	63	5	69	67%	1981	63	53%	62%
1966	62	7	69	68%	1993	63	54%	61%
1967	75	2	77	75%	1963	63	56%	61%
1968	61	9	70	69%	1940	63	57%	61%
1969	91	0	92	89%	1953	63	58%	61%
1970	71	11	82	80%	1972	62	59%	61%
1971	63	9	71	70%	1954	62	60%	60%
1972	58	4	62	61%	1989	61	62%	60%
1973	71	0	71	69%	1962	60	63%	59%
1974	79	9	88	85%	1949	58	64%	56%
1975	65	10	74	73%	1926	57	65%	56%
1976	47	8	55	53%	1960	57	67%	56%
1977	12	0	12	12%	1950	56	68%	54%
1978	74	0	74	72%	1959	56	69%	54%
1979	66	9	75	73%	1976	55	70%	53%
1980	91	4	95	93%	1961	54	72%	53%
1981	59	4	63	62%	1948	54	73%	52%
1982	44	0	44	43%	1925	52	74%	51%
1983	86	10	96	94%	2002	48	75%	47%
1984	72	0	72	70%	1986	48	77%	47%
1985	66	9	75	73%	1982	44	78%	43%
1986	40	8	48	47%	1933	43	79%	42%
1987	20	6	26	25%	1955	43	80%	42%
1988	28	0	28	27%	1944	41	81%	40%
1989	61	0	61	60%	2003	39	83%	38%
1990	20	1	20	20%	1931	38	84%	37%
1991	17	0	17	16%	2001	36	85%	35%
1992	26	0	26	26%	1994	35	86%	34%
1993	63	0	63	61%	1930	33	88%	33%
1994	29	6	35	34%	1929	33	89%	32%
1995	83	0	83	81%	1932	28	90%	27%
1996	70	0	71	69%	1988	28	91%	27%
1997	77	9	86	84%	1992	26	93%	26%
1998	85	9	93	91%	1987	26	94%	25%
1999	65	10	76	74%	1924	23	95%	22%
2000	65	8	73	71%	1990	20	96%	20%
2001	28	8	36	35%	1934	18	98%	18%
2002	48	0	48	47%	1991	17	99%	16%
2003	39	0	39	38%	1977	12	100%	12%
Average	58	4	62	60%		62		60%
Maximum	91	11	101	98%		101		98%
Minimum	12	0	12	12%		12		12%

San Gabriel Valley MWD: Existing Conditions

SWP Table A Deliveries for 2013 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	21	0	21	74%	1982	29	0%	100%
1923	17	0	17	60%	1938	29	1%	100%
1924	6	0	6	22%	1980	29	2%	100%
1925	15	0	15	51%	1983	29	4%	100%
1926	16	0	16	56%	1952	27	5%	94%
1927	20	0	20	70%	1998	27	6%	93%
1928	20	0	20	71%	1969	26	7%	92%
1929	7	0	7	24%	1943	26	9%	90%
1930	9	0	9	33%	1956	26	10%	89%
1931	10	0	10	36%	1937	25	11%	87%
1932	8	0	8	27%	1974	25	12%	86%
1933	11	0	11	37%	1997	24	14%	84%
1934	5	0	5	18%	1986	24	15%	84%
1935	20	0	20	70%	1941	24	16%	83%
1936	22	0	22	78%	1967	24	17%	82%
1937	25	0	25	87%	1978	23	19%	81%
1938	29	0	29	100%	1984	23	20%	79%
1939	18	0	18	61%	1951	23	21%	78%
1940	18	0	18	64%	1936	22	22%	78%
1941	24	0	24	83%	1970	22	23%	78%
1942	20	0	20	70%	1973	22	25%	78%
1943	26	0	26	90%	1996	22	26%	77%
1944	11	0	11	40%	1945	22	27%	75%
1945	22	0	22	75%	1922	21	28%	74%
1946	21	0	21	72%	1979	21	30%	72%
1947	20	0	20	68%	1985	21	31%	72%
1948	15	0	15	51%	1946	21	32%	72%
1949	16	0	16	56%	2000	21	33%	72%
1950	16	0	16	54%	1999	21	35%	71%
1951	23	0	23	78%	1975	20	36%	71%
1952	27	0	27	94%	1928	20	37%	71%
1953	16	0	16	56%	1942	20	38%	70%
1954	18	0	18	63%	1935	20	40%	70%
1955	11	0	11	39%	1927	20	41%	70%
1956	26	0	26	89%	1965	20	42%	69%
1957	16	0	16	55%	1964	20	43%	69%
1958	15	0	15	53%	1947	20	44%	68%
1959	15	0	15	53%	1993	19	46%	67%
1960	16	0	16	56%	1963	19	47%	67%
1961	15	0	15	53%	1971	19	48%	66%
1962	17	0	17	59%	1940	18	49%	64%
1963	19	0	19	67%	1954	18	51%	63%
1964	20	0	20	69%	1966	18	52%	63%

SWP Table A Deliveries for 2013 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
1965	20	0	20	69%	1939	18	53%	61%
1966	18	0	18	63%	1989	17	54%	61%
1967	24	0	24	82%	1968	17	56%	60%
1968	17	0	17	60%	1923	17	57%	60%
1969	26	0	26	92%	1962	17	58%	59%
1970	22	0	22	78%	1981	17	59%	58%
1971	19	0	19	66%	1972	16	60%	56%
1972	16	0	16	56%	1949	16	62%	56%
1973	22	0	22	78%	1953	16	63%	56%
1974	25	0	25	86%	1926	16	64%	56%
1975	20	0	20	71%	1960	16	65%	56%
1976	13	0	13	45%	1957	16	67%	55%
1977	3	0	3	12%	1950	16	68%	54%
1978	23	0	23	81%	1958	15	69%	53%
1979	21	0	21	72%	1959	15	70%	53%
1980	29	0	29	100%	1961	15	72%	53%
1981	17	0	17	58%	1948	15	73%	51%
1982	29	0	29	100%	2002	15	74%	51%
1983	29	0	29	100%	1925	15	75%	51%
1984	23	0	23	79%	2003	14	77%	47%
1985	21	0	21	72%	1976	13	78%	45%
1986	24	0	24	84%	1994	13	79%	45%
1987	6	0	6	19%	1995	12	80%	41%
1988	8	0	8	27%	1944	11	81%	40%
1989	17	0	17	61%	1955	11	83%	39%
1990	5	0	5	19%	1933	11	84%	37%
1991	5	0	5	16%	1931	10	85%	36%
1992	7	0	7	26%	1930	9	86%	33%
1993	19	0	19	67%	1932	8	88%	27%
1994	13	0	13	45%	2001	8	89%	27%
1995	12	0	12	41%	1988	8	90%	27%
1996	22	0	22	77%	1992	7	91%	26%
1997	24	0	24	84%	1929	7	93%	24%
1998	27	0	27	93%	1924	6	94%	22%
1999	21	0	21	71%	1987	6	95%	19%
2000	21	0	21	72%	1990	5	96%	19%
2001	8	0	8	27%	1934	5	98%	18%
2002	15	0	15	51%	1991	5	99%	16%
2003	14	0	14	47%	1977	3	100%	12%
Average	18	0	18	61%		18		61%
Maximum	29	0	29	100%		29		100%
Minimum	3	0	3	12%		3		12%

San Geronio Pass WA: Existing Conditions

SWP Table A Deliveries for 2013 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	13	0	13	74%	1983	17	0%	100%
1923	10	0	10	60%	1980	17	1%	100%
1924	4	0	4	22%	1982	17	2%	100%
1925	9	0	9	51%	1938	17	4%	100%
1926	10	0	10	56%	1958	17	5%	100%
1927	12	0	12	70%	1952	16	6%	94%
1928	12	0	12	71%	1998	16	7%	93%
1929	4	0	4	24%	1986	16	9%	92%
1930	6	0	6	33%	1995	16	10%	91%
1931	6	0	6	37%	1969	16	11%	90%
1932	5	0	5	27%	1943	16	12%	90%
1933	7	0	7	42%	1956	15	14%	89%
1934	3	0	3	18%	1937	15	15%	87%
1935	12	0	12	70%	1974	15	16%	86%
1936	13	0	13	78%	1997	15	17%	84%
1937	15	0	15	87%	1941	14	19%	83%
1938	17	0	17	100%	1967	14	20%	82%
1939	11	0	11	61%	1978	14	21%	81%
1940	11	0	11	64%	1984	14	22%	79%
1941	14	0	14	83%	1951	14	23%	78%
1942	12	0	12	70%	1936	13	25%	78%
1943	16	0	16	90%	1970	13	26%	78%
1944	7	0	7	40%	1973	13	27%	78%
1945	13	0	13	75%	1996	13	28%	77%
1946	12	0	12	72%	1945	13	30%	75%
1947	12	0	12	68%	1922	13	31%	74%
1948	9	0	9	51%	1979	13	32%	72%
1949	10	0	10	56%	1985	13	33%	72%
1950	9	0	9	54%	1946	12	35%	72%
1951	14	0	14	78%	2000	12	36%	72%
1952	16	0	16	94%	1999	12	37%	71%
1953	10	0	10	56%	1975	12	38%	71%
1954	11	0	11	63%	1928	12	40%	71%
1955	7	0	7	39%	1942	12	41%	70%
1956	15	0	15	89%	1935	12	42%	70%
1957	10	0	10	55%	1927	12	43%	70%
1958	17	0	17	100%	1965	12	44%	69%
1959	9	0	9	53%	1964	12	46%	69%
1960	10	0	10	56%	1947	12	47%	68%
1961	9	0	9	53%	1993	12	48%	67%
1962	10	0	10	59%	1963	12	49%	67%
1963	12	0	12	67%	1971	11	51%	66%
1964	12	0	12	69%	1940	11	52%	64%

SWP Table A Deliveries for 2013 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
1965	12	0	12	69%	1954	11	53%	63%
1966	11	0	11	63%	1966	11	54%	63%
1967	14	0	14	82%	1939	11	56%	61%
1968	10	0	10	60%	1989	10	57%	61%
1969	16	0	16	90%	1968	10	58%	60%
1970	13	0	13	78%	1923	10	59%	60%
1971	11	0	11	66%	1962	10	60%	59%
1972	10	0	10	56%	1981	10	62%	58%
1973	13	0	13	78%	1972	10	63%	56%
1974	15	0	15	86%	1949	10	64%	56%
1975	12	0	12	71%	1953	10	65%	56%
1976	8	0	8	45%	1926	10	67%	56%
1977	2	0	2	12%	1960	10	68%	56%
1978	14	0	14	81%	1957	10	69%	55%
1979	13	0	13	72%	1950	9	70%	54%
1980	17	0	17	100%	1959	9	72%	53%
1981	10	0	10	58%	1961	9	73%	53%
1982	17	0	17	100%	2002	9	74%	52%
1983	17	0	17	100%	1948	9	75%	51%
1984	14	0	14	79%	1925	9	77%	51%
1985	13	0	13	72%	2003	9	78%	49%
1986	16	0	16	92%	1976	8	79%	45%
1987	3	0	3	19%	1933	7	80%	42%
1988	5	0	5	27%	1944	7	81%	40%
1989	10	0	10	61%	1955	7	83%	39%
1990	3	0	3	19%	1994	6	84%	37%
1991	3	0	3	16%	1931	6	85%	37%
1992	4	0	4	26%	1930	6	86%	33%
1993	12	0	12	67%	1932	5	88%	27%
1994	6	0	6	37%	2001	5	89%	27%
1995	16	0	16	91%	1988	5	90%	27%
1996	13	0	13	77%	1992	4	91%	26%
1997	15	0	15	84%	1929	4	93%	24%
1998	16	0	16	93%	1924	4	94%	22%
1999	12	0	12	71%	1987	3	95%	19%
2000	12	0	12	72%	1990	3	96%	19%
2001	5	0	5	27%	1934	3	98%	18%
2002	9	0	9	52%	1991	3	99%	16%
2003	9	0	9	49%	1977	2	100%	12%
Average	11	0	11	63%		11		63%
Maximum	17	0	17	100%		17		100%
Minimum	2	0	2	12%		2		12%

San Luis Obispo County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2013 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	18	0	18	74%	1938	25	0%	100%
1923	15	0	15	60%	1982	25	1%	100%
1924	5	0	5	22%	1983	25	2%	100%
1925	13	0	13	51%	1969	25	4%	100%
1926	14	0	14	56%	1980	25	5%	100%
1927	17	0	17	70%	1958	25	6%	100%
1928	18	0	18	71%	1952	23	7%	94%
1929	6	0	6	24%	1998	23	9%	93%
1930	8	0	8	33%	1986	23	10%	92%
1931	9	0	9	37%	1995	23	11%	91%
1932	7	0	7	27%	1943	22	12%	90%
1933	11	0	11	42%	1956	22	14%	89%
1934	4	0	4	18%	1937	22	15%	87%
1935	18	0	18	70%	1974	22	16%	86%
1936	20	0	20	78%	1997	21	17%	84%
1937	22	0	22	87%	1941	21	19%	83%
1938	25	0	25	100%	1967	20	20%	82%
1939	15	0	15	61%	1978	20	21%	81%
1940	16	0	16	64%	1984	20	22%	79%
1941	21	0	21	83%	1951	20	23%	78%
1942	18	0	18	70%	1936	20	25%	78%
1943	22	0	22	90%	1970	19	26%	78%
1944	10	0	10	40%	1973	19	27%	78%
1945	19	0	19	75%	1996	19	28%	77%
1946	18	0	18	72%	1945	19	30%	75%
1947	17	0	17	68%	1922	18	31%	74%
1948	13	0	13	51%	1979	18	32%	72%
1949	14	0	14	56%	1985	18	33%	72%
1950	14	0	14	54%	1946	18	35%	72%
1951	20	0	20	78%	2000	18	36%	72%
1952	23	0	23	94%	1999	18	37%	71%
1953	14	0	14	56%	1975	18	38%	71%
1954	16	0	16	63%	1928	18	40%	71%
1955	10	0	10	39%	1942	18	41%	70%
1956	22	0	22	89%	1935	18	42%	70%
1957	14	0	14	55%	1927	17	43%	70%
1958	25	0	25	100%	1965	17	44%	69%
1959	13	0	13	53%	1964	17	46%	69%
1960	14	0	14	56%	1947	17	47%	68%
1961	13	0	13	53%	1993	17	48%	67%
1962	15	0	15	59%	1963	17	49%	67%
1963	17	0	17	67%	2003	17	51%	66%
1964	17	0	17	69%	1971	16	52%	66%

SWP Table A Deliveries for 2013 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
1965	17	0	17	69%	1940	16	53%	64%
1966	16	0	16	63%	1954	16	54%	63%
1967	20	0	20	82%	1966	16	56%	63%
1968	15	0	15	60%	1939	15	57%	61%
1969	25	0	25	100%	1989	15	58%	61%
1970	19	0	19	78%	1968	15	59%	60%
1971	16	0	16	66%	1923	15	60%	60%
1972	14	0	14	56%	1962	15	62%	59%
1973	19	0	19	78%	1981	14	63%	58%
1974	22	0	22	86%	1972	14	64%	56%
1975	18	0	18	71%	1949	14	65%	56%
1976	11	0	11	45%	1953	14	67%	56%
1977	3	0	3	12%	1926	14	68%	56%
1978	20	0	20	81%	1960	14	69%	56%
1979	18	0	18	72%	1957	14	70%	55%
1980	25	0	25	100%	2002	14	72%	55%
1981	14	0	14	58%	1950	14	73%	54%
1982	25	0	25	100%	1959	13	74%	53%
1983	25	0	25	100%	1961	13	75%	53%
1984	20	0	20	79%	1948	13	77%	51%
1985	18	0	18	72%	1925	13	78%	51%
1986	23	0	23	92%	1976	11	79%	45%
1987	5	0	5	19%	1994	11	80%	45%
1988	7	0	7	27%	1933	11	81%	42%
1989	15	0	15	61%	1944	10	83%	40%
1990	5	0	5	19%	1955	10	84%	39%
1991	4	0	4	16%	1931	9	85%	37%
1992	6	0	6	26%	1930	8	86%	33%
1993	17	0	17	67%	1932	7	88%	27%
1994	11	0	11	45%	2001	7	89%	27%
1995	23	0	23	91%	1988	7	90%	27%
1996	19	0	19	77%	1992	6	91%	26%
1997	21	0	21	84%	1929	6	93%	24%
1998	23	0	23	93%	1924	5	94%	22%
1999	18	0	18	71%	1987	5	95%	19%
2000	18	0	18	72%	1990	5	96%	19%
2001	7	0	7	27%	1934	4	98%	18%
2002	14	0	14	55%	1991	4	99%	16%
2003	17	0	17	66%	1977	3	100%	12%
Average	16	0	16	63%		16		63%
Maximum	25	0	25	100%		25		100%
Minimum	3	0	3	12%		3		12%

Santa Barbara County FC&WCD: Existing Conditions

SWP Table A Deliveries for 2013 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	33	0	33	74%	1958	45	0%	100%
1923	27	0	27	60%	1982	45	1%	100%
1924	10	0	10	22%	1969	45	2%	100%
1925	23	0	23	51%	1980	45	4%	100%
1926	25	0	25	56%	1983	45	5%	100%
1927	32	0	32	70%	1938	45	6%	100%
1928	32	0	32	71%	1952	43	7%	94%
1929	11	0	11	24%	1998	42	9%	93%
1930	15	0	15	33%	1986	42	10%	92%
1931	17	0	17	37%	1943	41	11%	90%
1932	12	0	12	27%	1956	40	12%	89%
1933	19	0	19	42%	1937	39	14%	87%
1934	8	0	8	18%	1974	39	15%	86%
1935	32	0	32	70%	1997	38	16%	84%
1936	35	0	35	78%	1941	38	17%	83%
1937	39	0	39	87%	1995	38	19%	83%
1938	45	0	45	100%	1967	37	20%	82%
1939	16	0	16	35%	1978	37	21%	81%
1940	29	0	29	64%	1984	36	22%	79%
1941	38	0	38	83%	1951	36	23%	78%
1942	32	0	32	70%	1936	35	25%	78%
1943	41	0	41	90%	1970	35	26%	78%
1944	18	0	18	40%	1973	35	27%	78%
1945	34	0	34	75%	1996	35	28%	77%
1946	33	0	33	72%	1945	34	30%	75%
1947	31	0	31	68%	1922	33	31%	74%
1948	23	0	23	51%	1979	33	32%	72%
1949	26	0	26	56%	1985	33	33%	72%
1950	25	0	25	54%	1946	33	35%	72%
1951	36	0	36	78%	2000	33	36%	72%
1952	43	0	43	94%	1999	33	37%	71%
1953	26	0	26	56%	1975	32	38%	71%
1954	29	0	29	63%	1928	32	40%	71%
1955	18	0	18	39%	1942	32	41%	70%
1956	40	0	40	89%	1935	32	42%	70%
1957	25	0	25	55%	1927	32	43%	70%
1958	45	0	45	100%	1965	31	44%	69%
1959	24	0	24	53%	1964	31	46%	69%
1960	25	0	25	56%	2003	31	47%	69%
1961	17	0	17	37%	1947	31	48%	68%
1962	27	0	27	59%	1993	31	49%	67%
1963	31	0	31	67%	1963	31	51%	67%
1964	31	0	31	69%	1971	30	52%	66%

SWP Table A Deliveries for 2013 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
1965	31	0	31	69%	1940	29	53%	64%
1966	28	0	28	63%	1954	29	54%	63%
1967	37	0	37	82%	1966	28	56%	63%
1968	27	0	27	60%	1989	28	57%	61%
1969	45	0	45	100%	1968	27	58%	60%
1970	35	0	35	78%	1923	27	59%	60%
1971	30	0	30	66%	1962	27	60%	59%
1972	26	0	26	56%	1981	26	62%	58%
1973	35	0	35	78%	1972	26	63%	56%
1974	39	0	39	86%	1949	26	64%	56%
1975	32	0	32	71%	1953	26	65%	56%
1976	21	0	21	45%	1926	25	67%	56%
1977	5	0	5	12%	1960	25	68%	56%
1978	37	0	37	81%	1957	25	69%	55%
1979	33	0	33	72%	1950	25	70%	54%
1980	45	0	45	100%	1959	24	72%	53%
1981	26	0	26	58%	1948	23	73%	51%
1982	45	0	45	100%	1925	23	74%	51%
1983	45	0	45	100%	2002	23	75%	50%
1984	36	0	36	79%	1976	21	77%	45%
1985	33	0	33	72%	1994	21	78%	45%
1986	42	0	42	92%	1933	19	79%	42%
1987	9	0	9	19%	1944	18	80%	40%
1988	12	0	12	27%	1955	18	81%	39%
1989	28	0	28	61%	1961	17	83%	37%
1990	9	0	9	19%	1931	17	84%	37%
1991	7	0	7	16%	1939	16	85%	35%
1992	12	0	12	26%	1930	15	86%	33%
1993	31	0	31	67%	1932	12	88%	27%
1994	21	0	21	45%	2001	12	89%	27%
1995	38	0	38	83%	1988	12	90%	27%
1996	35	0	35	77%	1992	12	91%	26%
1997	38	0	38	84%	1929	11	93%	24%
1998	42	0	42	93%	1924	10	94%	22%
1999	33	0	33	71%	1987	9	95%	19%
2000	33	0	33	72%	1990	9	96%	19%
2001	12	0	12	27%	1934	8	98%	18%
2002	23	0	23	50%	1991	7	99%	16%
2003	31	0	31	69%	1977	5	100%	12%
Average	28	0	28	62%		28		62%
Maximum	45	0	45	100%		45		100%
Minimum	5	0	5	12%		5		12%

Santa Clara Valley WD: Existing Conditions

SWP Table A Deliveries for 2013 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	74	0	74	74%	1983	98	0%	98%
1923	60	0	60	60%	1982	97	1%	97%
1924	22	0	22	22%	1938	97	2%	97%
1925	51	0	51	51%	1969	96	4%	96%
1926	56	0	56	56%	1980	96	5%	96%
1927	70	0	70	70%	1958	95	6%	95%
1928	71	0	71	71%	1952	94	7%	94%
1929	24	0	24	24%	1998	93	9%	93%
1930	33	0	33	33%	1986	92	10%	92%
1931	37	0	37	37%	1995	91	11%	91%
1932	27	0	27	27%	1943	90	12%	90%
1933	42	0	42	42%	1956	89	14%	89%
1934	18	0	18	18%	1937	87	15%	87%
1935	70	0	70	70%	1974	86	16%	86%
1936	78	0	78	78%	1997	84	17%	84%
1937	87	0	87	87%	1941	83	19%	83%
1938	97	0	97	97%	1967	82	20%	82%
1939	61	0	61	61%	1978	81	21%	81%
1940	64	0	64	64%	1984	79	22%	79%
1941	83	0	83	83%	1951	78	23%	78%
1942	70	0	70	70%	1936	78	25%	78%
1943	90	0	90	90%	1970	78	26%	78%
1944	40	0	40	40%	1973	78	27%	78%
1945	75	0	75	75%	1996	77	28%	77%
1946	72	0	72	72%	2002	75	30%	75%
1947	68	0	68	68%	1945	75	31%	75%
1948	51	0	51	51%	1922	74	32%	74%
1949	56	0	56	56%	1979	72	33%	72%
1950	54	0	54	54%	1985	72	35%	72%
1951	78	0	78	78%	1946	72	36%	72%
1952	94	0	94	94%	2000	72	37%	72%
1953	56	0	56	56%	1999	71	38%	71%
1954	63	0	63	63%	1975	71	40%	71%
1955	39	0	39	39%	1928	71	41%	71%
1956	89	0	89	89%	1942	70	42%	70%
1957	55	0	55	55%	1935	70	43%	70%
1958	95	0	95	95%	1927	70	44%	70%
1959	53	0	53	53%	1965	69	46%	69%
1960	56	0	56	56%	1964	69	47%	69%
1961	53	0	53	53%	1947	68	48%	68%
1962	59	0	59	59%	1993	67	49%	67%
1963	67	0	67	67%	1963	67	51%	67%
1964	69	0	69	69%	1971	66	52%	66%

SWP Table A Deliveries for 2013 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
1965	69	0	69	69%	2003	65	53%	65%
1966	63	0	63	63%	1940	64	54%	64%
1967	82	0	82	82%	1954	63	56%	63%
1968	60	0	60	60%	1966	63	57%	63%
1969	96	0	96	96%	1939	61	58%	61%
1970	78	0	78	78%	1989	61	59%	61%
1971	66	0	66	66%	1968	60	60%	60%
1972	56	0	56	56%	1923	60	62%	60%
1973	78	0	78	78%	1962	59	63%	59%
1974	86	0	86	86%	1981	58	64%	58%
1975	71	0	71	71%	1972	56	65%	56%
1976	45	0	45	45%	1949	56	67%	56%
1977	12	0	12	12%	1953	56	68%	56%
1978	81	0	81	81%	1926	56	69%	56%
1979	72	0	72	72%	1960	56	70%	56%
1980	96	0	96	96%	1957	55	72%	55%
1981	58	0	58	58%	1950	54	73%	54%
1982	97	0	97	97%	1959	53	74%	53%
1983	98	0	98	98%	1961	53	75%	53%
1984	79	0	79	79%	1948	51	77%	51%
1985	72	0	72	72%	1925	51	78%	51%
1986	92	0	92	92%	1976	45	79%	45%
1987	19	0	19	19%	1994	45	80%	45%
1988	27	0	27	27%	1933	42	81%	42%
1989	61	0	61	61%	1944	40	83%	40%
1990	19	0	19	19%	1955	39	84%	39%
1991	16	0	16	16%	1931	37	85%	37%
1992	26	0	26	26%	1930	33	86%	33%
1993	67	0	67	67%	1932	27	88%	27%
1994	45	0	45	45%	2001	27	89%	27%
1995	91	0	91	91%	1988	27	90%	27%
1996	77	0	77	77%	1992	26	91%	26%
1997	84	0	84	84%	1929	24	93%	24%
1998	93	0	93	93%	1924	22	94%	22%
1999	71	0	71	71%	1987	19	95%	19%
2000	72	0	72	72%	1990	19	96%	19%
2001	27	0	27	27%	1934	18	98%	18%
2002	75	0	75	75%	1991	16	99%	16%
2003	65	0	65	65%	1977	12	100%	12%
Average	63	0	63	63%		63		63%
Maximum	98	0	98	98%		98		98%
Minimum	12	0	12	12%		12		12%

Solano County WA: Existing Conditions

SWP Table A Deliveries for 2013 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	35	0	35	74%	1938	48	0%	100%
1923	28	0	28	60%	1958	48	1%	100%
1924	10	0	10	22%	1969	48	2%	100%
1925	24	0	24	51%	1980	48	4%	100%
1926	27	0	27	56%	1983	48	5%	100%
1927	33	0	33	70%	1982	48	6%	100%
1928	34	0	34	71%	1952	45	7%	94%
1929	12	0	12	24%	1998	44	9%	93%
1930	16	0	16	33%	1986	44	10%	92%
1931	17	0	17	37%	1995	43	11%	91%
1932	13	0	13	27%	1943	43	12%	90%
1933	20	0	20	42%	1956	42	14%	89%
1934	8	0	8	18%	1937	41	15%	87%
1935	33	0	33	70%	1974	41	16%	86%
1936	37	0	37	78%	1997	40	17%	84%
1937	41	0	41	87%	1941	40	19%	83%
1938	48	0	48	100%	1967	39	20%	82%
1939	29	0	29	61%	1978	39	21%	81%
1940	30	0	30	64%	1984	37	22%	79%
1941	40	0	40	83%	1951	37	23%	78%
1942	33	0	33	70%	1936	37	25%	78%
1943	43	0	43	90%	1970	37	26%	78%
1944	19	0	19	40%	1973	37	27%	78%
1945	35	0	35	75%	1996	37	28%	77%
1946	34	0	34	72%	2002	35	30%	75%
1947	32	0	32	68%	1945	35	31%	75%
1948	24	0	24	51%	1922	35	32%	74%
1949	27	0	27	56%	1979	34	33%	72%
1950	26	0	26	54%	1985	34	35%	72%
1951	37	0	37	78%	1946	34	36%	72%
1952	45	0	45	94%	2000	34	37%	72%
1953	27	0	27	56%	1999	34	38%	71%
1954	30	0	30	63%	1975	34	40%	71%
1955	19	0	19	39%	1928	34	41%	71%
1956	42	0	42	89%	1942	33	42%	70%
1957	26	0	26	55%	1935	33	43%	70%
1958	48	0	48	100%	1927	33	44%	70%
1959	25	0	25	53%	1965	33	46%	69%
1960	26	0	26	56%	1964	33	47%	69%
1961	25	0	25	53%	1947	32	48%	68%
1962	28	0	28	59%	1993	32	49%	67%
1963	32	0	32	67%	1963	32	51%	67%
1964	33	0	33	69%	1971	31	52%	66%

SWP Table A Deliveries for 2013 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
1965	33	0	33	69%	1940	30	53%	64%
1966	30	0	30	63%	1954	30	54%	63%
1967	39	0	39	82%	1966	30	56%	63%
1968	29	0	29	60%	1939	29	57%	61%
1969	48	0	48	100%	1989	29	58%	61%
1970	37	0	37	78%	1968	29	59%	60%
1971	31	0	31	66%	1923	28	60%	60%
1972	27	0	27	56%	1962	28	62%	59%
1973	37	0	37	78%	2003	28	63%	58%
1974	41	0	41	86%	1981	27	64%	58%
1975	34	0	34	71%	1972	27	65%	56%
1976	22	0	22	45%	1949	27	67%	56%
1977	6	0	6	12%	1953	27	68%	56%
1978	39	0	39	81%	1926	27	69%	56%
1979	34	0	34	72%	1960	26	70%	56%
1980	48	0	48	100%	1957	26	72%	55%
1981	27	0	27	58%	1950	26	73%	54%
1982	48	0	48	100%	1959	25	74%	53%
1983	48	0	48	100%	1961	25	75%	53%
1984	37	0	37	79%	1948	24	77%	51%
1985	34	0	34	72%	1925	24	78%	51%
1986	44	0	44	92%	1976	22	79%	45%
1987	9	0	9	19%	1994	21	80%	45%
1988	13	0	13	27%	1933	20	81%	42%
1989	29	0	29	61%	1944	19	83%	40%
1990	9	0	9	19%	1955	19	84%	39%
1991	8	0	8	16%	1931	17	85%	37%
1992	12	0	12	26%	1930	16	86%	33%
1993	32	0	32	67%	1932	13	88%	27%
1994	21	0	21	45%	2001	13	89%	27%
1995	43	0	43	91%	1988	13	90%	27%
1996	37	0	37	77%	1992	12	91%	26%
1997	40	0	40	84%	1929	12	93%	24%
1998	44	0	44	93%	1924	10	94%	22%
1999	34	0	34	71%	1987	9	95%	19%
2000	34	0	34	72%	1990	9	96%	19%
2001	13	0	13	27%	1934	8	98%	18%
2002	35	0	35	75%	1991	8	99%	16%
2003	28	0	28	58%	1977	6	100%	12%
Average	30	0	30	63%		30		63%
Maximum	48	0	48	100%		48		100%
Minimum	6	0	6	12%		6		12%

Tulare Lake Basin WSD: Existing Conditions

SWP Table A Deliveries for 2013 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	65	0	65	74%	1958	89	0%	100%
1923	53	0	53	60%	1983	89	1%	100%
1924	19	0	19	22%	1980	89	2%	100%
1925	45	0	45	51%	1982	89	4%	100%
1926	50	0	50	56%	1969	89	5%	100%
1927	62	0	62	70%	1938	89	6%	100%
1928	63	0	63	71%	1952	83	7%	94%
1929	22	0	22	24%	1998	82	9%	93%
1930	29	0	29	33%	1986	82	10%	92%
1931	33	0	33	37%	1943	80	11%	90%
1932	24	0	24	27%	1956	79	12%	89%
1933	38	0	38	42%	1937	77	14%	87%
1934	16	0	16	18%	1974	77	15%	86%
1935	63	0	63	70%	1997	75	16%	84%
1936	69	0	69	78%	1941	74	17%	83%
1937	77	0	77	87%	1967	73	19%	82%
1938	89	0	89	100%	1978	72	20%	81%
1939	21	0	21	24%	1984	70	21%	79%
1940	57	0	57	64%	1951	70	22%	78%
1941	74	0	74	83%	1936	69	23%	78%
1942	63	0	63	70%	1970	69	25%	78%
1943	80	0	80	90%	1973	69	26%	78%
1944	35	0	35	40%	1996	69	27%	77%
1945	66	0	66	75%	1945	66	28%	75%
1946	64	0	64	72%	1995	66	30%	74%
1947	61	0	61	68%	1922	65	31%	74%
1948	46	0	46	51%	1979	64	32%	72%
1949	50	0	50	56%	1985	64	33%	72%
1950	48	0	48	54%	1946	64	35%	72%
1951	70	0	70	78%	2000	64	36%	72%
1952	83	0	83	94%	1999	64	37%	71%
1953	50	0	50	56%	1975	63	38%	71%
1954	56	0	56	63%	1928	63	40%	71%
1955	35	0	35	39%	1942	63	41%	70%
1956	79	0	79	89%	1935	63	42%	70%
1957	49	0	49	55%	1927	62	43%	70%
1958	89	0	89	100%	1965	62	44%	69%
1959	47	0	47	53%	1964	61	46%	69%
1960	49	0	49	56%	1947	61	47%	68%
1961	34	0	34	39%	1993	60	48%	67%
1962	52	0	52	59%	2003	60	49%	67%
1963	60	0	60	67%	1963	60	51%	67%
1964	61	0	61	69%	1971	59	52%	66%

SWP Table A Deliveries for 2013 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
1965	62	0	62	69%	1940	57	53%	64%
1966	56	0	56	63%	1954	56	54%	63%
1967	73	0	73	82%	1966	56	56%	63%
1968	54	0	54	60%	1989	54	57%	61%
1969	89	0	89	100%	1968	54	58%	60%
1970	69	0	69	78%	1923	53	59%	60%
1971	59	0	59	66%	1962	52	60%	59%
1972	50	0	50	56%	1981	51	62%	58%
1973	69	0	69	78%	1972	50	63%	56%
1974	77	0	77	86%	1949	50	64%	56%
1975	63	0	63	71%	1953	50	65%	56%
1976	40	0	40	45%	1926	50	67%	56%
1977	11	0	11	12%	1960	49	68%	56%
1978	72	0	72	81%	1957	49	69%	55%
1979	64	0	64	72%	1950	48	70%	54%
1980	89	0	89	100%	1959	47	72%	53%
1981	51	0	51	58%	1948	46	73%	51%
1982	89	0	89	100%	1925	45	74%	51%
1983	89	0	89	100%	2002	42	75%	48%
1984	70	0	70	79%	1976	40	77%	45%
1985	64	0	64	72%	1994	40	78%	45%
1986	82	0	82	92%	1933	38	79%	42%
1987	17	0	17	19%	1944	35	80%	40%
1988	24	0	24	27%	1955	35	81%	39%
1989	54	0	54	61%	1961	34	83%	39%
1990	17	0	17	19%	1931	33	84%	37%
1991	15	0	15	16%	1930	29	85%	33%
1992	23	0	23	26%	1932	24	86%	27%
1993	60	0	60	67%	2001	24	88%	27%
1994	40	0	40	45%	1988	24	89%	27%
1995	66	0	66	74%	1992	23	90%	26%
1996	69	0	69	77%	1929	22	91%	24%
1997	75	0	75	84%	1939	21	93%	24%
1998	82	0	82	93%	1924	19	94%	22%
1999	64	0	64	71%	1987	17	95%	19%
2000	64	0	64	72%	1990	17	96%	19%
2001	24	0	24	27%	1934	16	98%	18%
2002	42	0	42	48%	1991	15	99%	16%
2003	60	0	60	67%	1977	11	100%	12%
Average	55	0	55	62%		55		62%
Maximum	89	0	89	100%		89		100%
Minimum	11	0	11	12%		11		12%

Ventura County WPD: Existing Conditions

SWP Table A Deliveries for 2013 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	15	0	15	74%	1969	20	0%	100%
1923	12	0	12	60%	1983	20	1%	100%
1924	4	0	4	22%	1982	20	2%	100%
1925	10	0	10	51%	1938	20	4%	100%
1926	11	0	11	56%	1952	19	5%	94%
1927	14	0	14	70%	1980	19	6%	93%
1928	14	0	14	71%	1958	19	7%	93%
1929	5	0	5	24%	1998	19	9%	93%
1930	7	0	7	33%	1986	18	10%	92%
1931	6	0	6	31%	1995	18	11%	91%
1932	5	0	5	27%	1956	18	12%	89%
1933	7	0	7	36%	1937	17	14%	87%
1934	4	0	4	18%	1974	17	15%	86%
1935	14	0	14	70%	1997	17	16%	84%
1936	16	0	16	78%	1943	17	17%	84%
1937	17	0	17	87%	1941	17	19%	83%
1938	20	0	20	100%	1967	16	20%	82%
1939	6	0	6	28%	1978	16	21%	81%
1940	13	0	13	64%	1984	16	22%	79%
1941	17	0	17	83%	1951	16	23%	78%
1942	14	0	14	70%	1936	16	25%	78%
1943	17	0	17	84%	1970	16	26%	78%
1944	8	0	8	40%	1973	16	27%	78%
1945	15	0	15	75%	1996	15	28%	77%
1946	14	0	14	72%	1945	15	30%	75%
1947	14	0	14	68%	1922	15	31%	74%
1948	10	0	10	51%	1979	14	32%	72%
1949	11	0	11	56%	1985	14	33%	72%
1950	11	0	11	54%	1946	14	35%	72%
1951	16	0	16	78%	2000	14	36%	72%
1952	19	0	19	94%	1999	14	37%	71%
1953	11	0	11	56%	1975	14	38%	71%
1954	13	0	13	63%	2003	14	40%	71%
1955	8	0	8	39%	1928	14	41%	71%
1956	18	0	18	89%	1942	14	42%	70%
1957	11	0	11	55%	1935	14	43%	70%
1958	19	0	19	93%	1927	14	44%	70%
1959	11	0	11	53%	1965	14	46%	69%
1960	11	0	11	56%	1964	14	47%	69%
1961	3	0	3	13%	1947	14	48%	68%
1962	12	0	12	59%	1993	13	49%	67%
1963	13	0	13	67%	1963	13	51%	67%
1964	14	0	14	69%	1971	13	52%	66%

SWP Table A Deliveries for 2013 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
1965	14	0	14	69%	1940	13	53%	64%
1966	13	0	13	63%	1954	13	54%	63%
1967	16	0	16	82%	1966	13	56%	63%
1968	12	0	12	60%	1989	12	57%	61%
1969	20	0	20	100%	1968	12	58%	60%
1970	16	0	16	78%	1923	12	59%	60%
1971	13	0	13	66%	1962	12	60%	59%
1972	11	0	11	56%	1981	12	62%	58%
1973	16	0	16	78%	2002	11	63%	57%
1974	17	0	17	86%	1972	11	64%	56%
1975	14	0	14	71%	1949	11	65%	56%
1976	9	0	9	45%	1953	11	67%	56%
1977	2	0	2	12%	1926	11	68%	56%
1978	16	0	16	81%	1960	11	69%	56%
1979	14	0	14	72%	1957	11	70%	55%
1980	19	0	19	93%	1950	11	72%	54%
1981	12	0	12	58%	1959	11	73%	53%
1982	20	0	20	100%	1948	10	74%	51%
1983	20	0	20	100%	1925	10	75%	51%
1984	16	0	16	79%	1976	9	77%	45%
1985	14	0	14	72%	1944	8	78%	40%
1986	18	0	18	92%	1955	8	79%	39%
1987	4	0	4	19%	1994	8	80%	38%
1988	5	0	5	27%	1933	7	81%	36%
1989	12	0	12	61%	1930	7	83%	33%
1990	4	0	4	19%	1931	6	84%	31%
1991	3	0	3	16%	1939	6	85%	28%
1992	4	0	4	22%	1932	5	86%	27%
1993	13	0	13	67%	2001	5	88%	27%
1994	8	0	8	38%	1988	5	89%	27%
1995	18	0	18	91%	1929	5	90%	24%
1996	15	0	15	77%	1924	4	91%	22%
1997	17	0	17	84%	1992	4	93%	22%
1998	19	0	19	93%	1987	4	94%	19%
1999	14	0	14	71%	1990	4	95%	19%
2000	14	0	14	72%	1934	4	96%	18%
2001	5	0	5	27%	1991	3	98%	16%
2002	11	0	11	57%	1961	3	99%	13%
2003	14	0	14	71%	1977	2	100%	12%
Average	12	0	12	62%		12		62%
Maximum	20	0	20	100%		20		100%
Minimum	2	0	2	12%		2		12%

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Individual Contractor Table A Deliveries - Future Conditions

The tables on the following pages show the Table A deliveries for each State Water Contractor for the Future Conditions scenario (interpolated to 2033).

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Alameda County FC&WCD-Zone 7: Future Conditions

SWP Table A Deliveries for 2013 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	57	0	57	71%	1983	80	0%	100%
1923	45	1	46	57%	1938	80	1%	99%
1924	11	1	12	15%	1969	79	2%	98%
1925	33	0	33	41%	1982	79	4%	98%
1926	36	0	36	44%	1958	78	5%	97%
1927	58	0	59	73%	1980	77	6%	95%
1928	53	2	55	68%	1952	73	7%	91%
1929	19	1	21	26%	1995	71	9%	88%
1930	26	0	26	33%	1998	71	10%	88%
1931	26	0	26	32%	1943	69	11%	85%
1932	28	0	28	35%	1978	67	12%	83%
1933	25	0	25	31%	1997	66	14%	82%
1934	19	0	19	24%	1956	66	15%	81%
1935	55	0	55	68%	1967	65	16%	81%
1936	58	2	59	74%	1941	65	17%	81%
1937	62	2	63	79%	1986	65	19%	80%
1938	78	2	80	99%	1937	63	20%	79%
1939	27	2	29	36%	1951	63	21%	78%
1940	55	0	55	69%	1984	63	22%	78%
1941	64	1	65	81%	1974	62	23%	77%
1942	53	1	54	67%	1973	62	25%	76%
1943	67	2	69	85%	1970	60	26%	74%
1944	24	2	26	33%	1936	59	27%	74%
1945	59	0	59	73%	1927	59	28%	73%
1946	53	2	55	68%	1945	59	30%	73%
1947	42	2	44	54%	1996	59	31%	73%
1948	46	0	46	57%	1985	57	32%	71%
1949	29	0	30	37%	1975	57	33%	71%
1950	51	0	51	63%	1922	57	35%	71%
1951	62	1	63	78%	1999	56	36%	70%
1952	72	2	73	91%	2000	56	37%	69%
1953	43	2	45	56%	1965	56	38%	69%
1954	49	1	50	62%	1940	55	40%	69%
1955	25	1	26	33%	1946	55	41%	68%
1956	66	0	66	81%	1935	55	42%	68%
1957	36	2	38	47%	1928	55	43%	68%
1958	78	0	78	97%	1942	54	44%	67%
1959	34	2	36	44%	1963	54	46%	67%
1960	35	0	35	44%	1993	53	47%	66%
1961	34	0	35	43%	1950	51	48%	63%
1962	48	1	49	61%	2002	50	49%	63%
1963	53	1	54	67%	1954	50	51%	62%
1964	46	2	47	59%	2003	49	52%	61%

SWP Table A Deliveries for 2013 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
1965	55	0	56	69%	1971	49	53%	61%
1966	45	2	46	57%	1962	49	54%	61%
1967	65	1	65	81%	1964	47	56%	59%
1968	45	2	46	58%	1979	47	57%	58%
1969	78	1	79	98%	1968	46	58%	58%
1970	57	2	60	74%	1948	46	59%	57%
1971	48	2	49	61%	1966	46	60%	57%
1972	34	1	36	44%	1923	46	62%	57%
1973	61	0	62	76%	1953	45	63%	56%
1974	60	2	62	77%	1989	44	64%	55%
1975	55	2	57	71%	1947	44	65%	54%
1976	26	2	27	34%	1957	38	67%	47%
1977	9	0	9	11%	1926	36	68%	44%
1978	67	0	67	83%	1959	36	69%	44%
1979	45	2	47	58%	1972	36	70%	44%
1980	76	1	77	95%	1960	35	72%	44%
1981	31	2	33	41%	1961	35	73%	43%
1982	78	0	79	98%	1981	33	74%	41%
1983	78	2	80	100%	1925	33	75%	41%
1984	62	1	63	78%	1994	32	77%	39%
1985	55	2	57	71%	1949	30	78%	37%
1986	63	2	65	80%	1939	29	79%	36%
1987	12	2	14	18%	1932	28	80%	35%
1988	21	0	21	26%	1976	27	81%	34%
1989	44	0	44	55%	1955	26	83%	33%
1990	12	1	13	16%	1944	26	84%	33%
1991	14	0	14	18%	1930	26	85%	33%
1992	17	0	17	21%	1931	26	86%	32%
1993	53	0	53	66%	1933	25	88%	31%
1994	30	2	32	39%	1988	21	89%	26%
1995	71	0	71	88%	1929	21	90%	26%
1996	57	1	59	73%	2001	20	91%	24%
1997	65	2	66	82%	1934	19	93%	24%
1998	69	2	71	88%	1992	17	94%	21%
1999	54	2	56	70%	1991	14	95%	18%
2000	54	2	56	69%	1987	14	96%	18%
2001	18	2	20	24%	1990	13	98%	16%
2002	50	0	50	63%	1924	12	99%	15%
2003	49	1	49	61%	1977	9	100%	11%
Average	47	1	48	59%		48		59%
Maximum	78	2	80	100%		80		100%
Minimum	9	0	9	11%		9		11%

Alameda County WD: Future Conditions

SWP Table A Deliveries for 2013 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	31	0	31	73%	1969	42	0%	100%
1923	24	0	24	57%	1982	42	1%	100%
1924	6	0	6	14%	1983	42	2%	100%
1925	17	0	17	41%	1938	42	4%	100%
1926	19	0	19	45%	1958	42	5%	100%
1927	31	0	31	75%	1980	41	6%	97%
1928	28	0	28	68%	1995	39	7%	93%
1929	10	0	10	24%	1952	38	9%	91%
1930	14	0	14	33%	1998	37	10%	88%
1931	14	0	14	32%	1978	36	11%	86%
1932	15	0	15	35%	1943	36	12%	86%
1933	13	0	13	32%	1956	35	14%	84%
1934	10	0	10	24%	1997	35	15%	83%
1935	29	0	29	70%	1967	35	16%	82%
1936	31	0	31	74%	1941	34	17%	82%
1937	33	0	33	79%	1986	34	19%	80%
1938	42	0	42	100%	1951	33	20%	79%
1939	15	0	15	36%	1984	33	21%	79%
1940	30	0	30	70%	1937	33	22%	79%
1941	34	0	34	82%	1973	33	23%	78%
1942	28	0	28	68%	1974	32	25%	77%
1943	36	0	36	86%	1945	31	26%	75%
1944	13	0	13	31%	1927	31	27%	75%
1945	31	0	31	75%	1936	31	28%	74%
1946	29	0	29	68%	1970	31	30%	73%
1947	23	0	23	54%	1996	31	31%	73%
1948	24	0	24	58%	1922	31	32%	73%
1949	15	0	15	37%	2003	30	33%	71%
1950	27	0	27	65%	1985	30	35%	71%
1951	33	0	33	79%	1975	30	36%	71%
1952	38	0	38	91%	1940	30	37%	70%
1953	23	0	23	55%	1965	30	38%	70%
1954	26	0	26	63%	1935	29	40%	70%
1955	13	0	13	31%	1999	29	41%	69%
1956	35	0	35	84%	2000	29	42%	69%
1957	19	0	19	45%	1946	29	43%	68%
1958	42	0	42	100%	1993	29	44%	68%
1959	18	0	18	43%	1942	28	46%	68%
1960	18	0	18	44%	1963	28	47%	68%
1961	18	0	18	44%	1928	28	48%	68%
1962	26	0	26	62%	2002	28	49%	66%
1963	28	0	28	68%	1950	27	51%	65%
1964	25	0	25	59%	1954	26	52%	63%

SWP Table A Deliveries for 2013 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
1965	30	0	30	70%	1962	26	53%	62%
1966	24	0	24	57%	1971	26	54%	61%
1967	35	0	35	82%	1964	25	56%	59%
1968	24	0	24	57%	1948	24	57%	58%
1969	42	0	42	100%	1979	24	58%	58%
1970	31	0	31	73%	1923	24	59%	57%
1971	26	0	26	61%	1968	24	60%	57%
1972	18	0	18	43%	1966	24	62%	57%
1973	33	0	33	78%	1989	24	63%	56%
1974	32	0	32	77%	1953	23	64%	55%
1975	30	0	30	71%	1947	23	65%	54%
1976	14	0	14	32%	1957	19	67%	45%
1977	5	0	5	11%	1926	19	68%	45%
1978	36	0	36	86%	1960	18	69%	44%
1979	24	0	24	58%	1961	18	70%	44%
1980	41	0	41	97%	1972	18	72%	43%
1981	16	0	16	39%	1959	18	73%	43%
1982	42	0	42	100%	1925	17	74%	41%
1983	42	0	42	100%	1981	16	75%	39%
1984	33	0	33	79%	1994	16	77%	38%
1985	30	0	30	71%	1949	15	78%	37%
1986	34	0	34	80%	1939	15	79%	36%
1987	6	0	6	15%	1932	15	80%	35%
1988	11	0	11	26%	1930	14	81%	33%
1989	24	0	24	56%	1976	14	83%	32%
1990	6	0	6	15%	1931	14	84%	32%
1991	7	0	7	18%	1933	13	85%	32%
1992	9	0	9	21%	1955	13	86%	31%
1993	29	0	29	68%	1944	13	88%	31%
1994	16	0	16	38%	1988	11	89%	26%
1995	39	0	39	93%	1929	10	90%	24%
1996	31	0	31	73%	1934	10	91%	24%
1997	35	0	35	83%	2001	9	93%	22%
1998	37	0	37	88%	1992	9	94%	21%
1999	29	0	29	69%	1991	7	95%	18%
2000	29	0	29	69%	1987	6	96%	15%
2001	9	0	9	22%	1990	6	98%	15%
2002	28	0	28	66%	1924	6	99%	14%
2003	30	0	30	71%	1977	5	100%	11%
Average	25	0	25	60%		25		60%
Maximum	42	0	42	100%		42		100%
Minimum	5	0	5	11%		5		11%

Antelope Valley-East Kern WA: Future Conditions

SWP Table A Deliveries for 2013 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	103	0	103	73%	1983	141	0%	100%
1923	81	0	81	57%	1982	141	1%	100%
1924	20	0	20	14%	1969	139	2%	99%
1925	58	0	58	41%	1938	136	4%	96%
1926	63	0	63	45%	1958	127	5%	90%
1927	105	0	105	75%	1980	125	6%	88%
1928	95	0	95	68%	1978	121	7%	86%
1929	34	0	34	24%	1952	120	9%	85%
1930	46	0	46	33%	1956	118	10%	84%
1931	46	0	46	32%	1997	117	11%	83%
1932	50	0	50	35%	1967	116	12%	82%
1933	45	0	45	32%	1998	113	14%	80%
1934	34	0	34	24%	1951	112	15%	79%
1935	99	0	99	70%	1984	111	16%	79%
1936	100	0	100	71%	1937	111	17%	79%
1937	111	0	111	79%	1973	111	19%	78%
1938	136	0	136	96%	1974	108	20%	77%
1939	37	0	37	26%	1945	106	21%	75%
1940	97	0	97	69%	1927	105	22%	75%
1941	94	0	94	66%	1986	104	23%	73%
1942	96	0	96	68%	1970	104	25%	73%
1943	103	0	103	73%	1996	103	26%	73%
1944	43	0	43	31%	1943	103	27%	73%
1945	106	0	106	75%	1922	103	28%	73%
1946	96	0	96	68%	1936	100	30%	71%
1947	71	0	71	50%	1975	100	31%	71%
1948	82	0	82	58%	1965	99	32%	70%
1949	52	0	52	37%	1935	99	33%	70%
1950	92	0	92	65%	1999	98	35%	69%
1951	112	0	112	79%	1940	97	36%	69%
1952	120	0	120	85%	1946	96	37%	68%
1953	78	0	78	55%	1993	96	38%	68%
1954	89	0	89	63%	1942	96	40%	68%
1955	44	0	44	31%	1963	96	41%	68%
1956	118	0	118	84%	1928	95	42%	68%
1957	64	0	64	45%	1941	94	43%	66%
1958	127	0	127	90%	1995	92	44%	65%
1959	60	0	60	43%	1950	92	46%	65%
1960	62	0	62	44%	2003	90	47%	63%
1961	62	0	62	44%	1954	89	48%	63%
1962	87	0	87	62%	2000	88	49%	62%
1963	96	0	96	68%	1962	87	51%	62%
1964	72	0	72	51%	1985	86	52%	61%

SWP Table A Deliveries for 2013 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
1965	99	0	99	70%	1971	86	53%	61%
1966	80	0	80	57%	1948	82	54%	58%
1967	116	0	116	82%	1979	82	56%	58%
1968	80	0	80	57%	1923	81	57%	57%
1969	139	0	139	99%	1968	80	58%	57%
1970	104	0	104	73%	1966	80	59%	57%
1971	86	0	86	61%	1953	78	60%	55%
1972	61	0	61	43%	1989	77	62%	54%
1973	111	0	111	78%	1964	72	63%	51%
1974	108	0	108	77%	1947	71	64%	50%
1975	100	0	100	71%	1957	64	65%	45%
1976	46	0	46	32%	2002	63	67%	45%
1977	16	0	16	11%	1926	63	68%	45%
1978	121	0	121	86%	1960	62	69%	44%
1979	82	0	82	58%	1961	62	70%	44%
1980	125	0	125	88%	1972	61	72%	43%
1981	55	0	55	39%	1959	60	73%	43%
1982	141	0	141	100%	1925	58	74%	41%
1983	141	0	141	100%	1981	55	75%	39%
1984	111	0	111	79%	1994	53	77%	38%
1985	86	0	86	61%	1949	52	78%	37%
1986	104	0	104	73%	1932	50	79%	35%
1987	22	0	22	15%	1930	46	80%	33%
1988	37	0	37	26%	1976	46	81%	32%
1989	77	0	77	54%	1931	46	83%	32%
1990	21	0	21	15%	1933	45	84%	32%
1991	25	0	25	18%	1955	44	85%	31%
1992	29	0	29	21%	1944	43	86%	31%
1993	96	0	96	68%	1988	37	88%	26%
1994	53	0	53	38%	1939	37	89%	26%
1995	92	0	92	65%	1929	34	90%	24%
1996	103	0	103	73%	1934	34	91%	24%
1997	117	0	117	83%	2001	32	93%	22%
1998	113	0	113	80%	1992	29	94%	21%
1999	98	0	98	69%	1991	25	95%	18%
2000	88	0	88	62%	1987	22	96%	15%
2001	32	0	32	22%	1990	21	98%	15%
2002	63	0	63	45%	1924	20	99%	14%
2003	90	0	90	63%	1977	16	100%	11%
Average	81	0	81	57%		81		57%
Maximum	141	0	141	100%		141		100%
Minimum	16	0	16	11%		16		11%

Castaic Lake WA: Future Conditions

SWP Table A Deliveries for 2013 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	69	0	69	73%	1969	95	0%	100%
1923	54	0	54	57%	1982	95	1%	100%
1924	14	0	14	14%	1938	95	2%	100%
1925	39	0	39	41%	1983	95	4%	100%
1926	43	0	43	45%	1980	88	5%	92%
1927	71	0	71	75%	1952	87	6%	91%
1928	64	0	64	68%	1958	85	7%	89%
1929	23	0	23	24%	1998	84	9%	88%
1930	31	0	31	33%	1995	82	10%	87%
1931	31	0	31	32%	1978	82	11%	86%
1932	33	0	33	35%	1956	80	12%	84%
1933	30	0	30	32%	1997	79	14%	83%
1934	23	0	23	24%	1967	78	15%	82%
1935	65	0	65	68%	1941	78	16%	82%
1936	69	0	69	72%	1951	75	17%	79%
1937	75	0	75	79%	1984	75	19%	79%
1938	95	0	95	100%	1937	75	20%	79%
1939	21	0	21	22%	1973	74	21%	78%
1940	66	0	66	69%	1974	73	22%	77%
1941	78	0	78	82%	1986	72	23%	76%
1942	64	0	64	68%	1945	71	25%	75%
1943	70	0	70	73%	1927	71	26%	75%
1944	29	0	29	31%	1943	70	27%	73%
1945	71	0	71	75%	1970	70	28%	73%
1946	65	0	65	68%	1996	69	30%	73%
1947	50	0	50	52%	1922	69	31%	73%
1948	53	0	53	56%	1936	69	32%	72%
1949	35	0	35	37%	1985	67	33%	71%
1950	62	0	62	65%	1975	67	35%	71%
1951	75	0	75	79%	1965	67	36%	70%
1952	87	0	87	91%	1940	66	37%	69%
1953	52	0	52	55%	1999	66	38%	69%
1954	60	0	60	63%	1935	65	40%	68%
1955	30	0	30	31%	1946	65	41%	68%
1956	80	0	80	84%	1993	65	42%	68%
1957	43	0	43	45%	1942	64	43%	68%
1958	85	0	85	89%	1963	64	44%	68%
1959	41	0	41	43%	1928	64	46%	68%
1960	42	0	42	44%	2000	62	47%	65%
1961	41	0	41	43%	1950	62	48%	65%
1962	59	0	59	62%	1954	60	49%	63%
1963	64	0	64	68%	1962	59	51%	62%
1964	56	0	56	59%	1971	58	52%	61%

SWP Table A Deliveries for 2013 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
1965	67	0	67	70%	2002	56	53%	59%
1966	54	0	54	57%	1964	56	54%	59%
1967	78	0	78	82%	1979	55	56%	58%
1968	54	0	54	57%	1923	54	57%	57%
1969	95	0	95	100%	1968	54	58%	57%
1970	70	0	70	73%	1966	54	59%	57%
1971	58	0	58	61%	2003	54	60%	57%
1972	41	0	41	43%	1948	53	62%	56%
1973	74	0	74	78%	1989	53	63%	56%
1974	73	0	73	77%	1953	52	64%	55%
1975	67	0	67	71%	1947	50	65%	52%
1976	31	0	31	32%	1957	43	67%	45%
1977	10	0	10	11%	1926	43	68%	45%
1978	82	0	82	86%	1960	42	69%	44%
1979	55	0	55	58%	1972	41	70%	43%
1980	88	0	88	92%	1961	41	72%	43%
1981	37	0	37	39%	1959	41	73%	43%
1982	95	0	95	100%	1925	39	74%	41%
1983	95	0	95	100%	1981	37	75%	39%
1984	75	0	75	79%	1949	35	77%	37%
1985	67	0	67	71%	1932	33	78%	35%
1986	72	0	72	76%	1994	33	79%	35%
1987	15	0	15	15%	1930	31	80%	33%
1988	25	0	25	26%	1976	31	81%	32%
1989	53	0	53	56%	1931	31	83%	32%
1990	14	0	14	15%	1933	30	84%	32%
1991	17	0	17	18%	1955	30	85%	31%
1992	20	0	20	21%	1944	29	86%	31%
1993	65	0	65	68%	1988	25	88%	26%
1994	33	0	33	35%	1929	23	89%	24%
1995	82	0	82	87%	1934	23	90%	24%
1996	69	0	69	73%	2001	21	91%	22%
1997	79	0	79	83%	1939	21	93%	22%
1998	84	0	84	88%	1992	20	94%	21%
1999	66	0	66	69%	1991	17	95%	18%
2000	62	0	62	65%	1987	15	96%	15%
2001	21	0	21	22%	1990	14	98%	15%
2002	56	0	56	59%	1924	14	99%	14%
2003	54	0	54	57%	1977	10	100%	11%
Average	56	0	56	58%		56		58%
Maximum	95	0	95	100%		95		100%
Minimum	10	0	10	11%		10		11%

Coachella Valley WD: Future Conditions

SWP Table A Deliveries for 2013 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	93	0	93	68%	1983	138	0%	100%
1923	78	4	83	60%	1938	136	1%	98%
1924	20	0	20	14%	1969	128	2%	93%
1925	57	0	57	41%	1982	126	4%	91%
1926	62	0	62	45%	1998	121	5%	88%
1927	96	0	96	69%	1952	118	6%	85%
1928	88	7	96	69%	1980	118	7%	85%
1929	33	5	39	28%	1997	113	9%	82%
1930	45	0	45	33%	1937	108	10%	78%
1931	34	0	34	25%	1956	107	11%	78%
1932	48	0	48	35%	1974	106	12%	77%
1933	44	0	44	32%	1984	106	14%	76%
1934	33	0	33	24%	1951	105	15%	76%
1935	91	0	91	66%	1970	104	16%	75%
1936	95	6	101	73%	2003	101	17%	73%
1937	101	7	108	78%	1936	101	19%	73%
1938	128	8	136	98%	1973	100	20%	73%
1939	49	10	59	43%	1999	100	21%	72%
1940	92	0	92	66%	1996	99	22%	72%
1941	91	4	95	69%	1985	99	23%	71%
1942	88	5	93	67%	1975	98	25%	71%
1943	68	5	74	53%	1946	97	26%	70%
1944	42	6	48	35%	1945	96	27%	69%
1945	96	0	96	69%	1927	96	28%	69%
1946	89	7	97	70%	1928	96	30%	69%
1947	71	5	76	55%	1941	95	31%	69%
1948	79	0	79	57%	1995	95	32%	68%
1949	51	0	51	37%	1922	93	33%	68%
1950	86	0	86	62%	2000	93	35%	68%
1951	102	3	105	76%	1942	93	36%	67%
1952	110	8	118	85%	1940	92	37%	66%
1953	76	7	83	60%	1965	91	38%	66%
1954	85	0	85	61%	1935	91	40%	66%
1955	43	2	45	33%	1963	90	41%	65%
1956	107	0	107	78%	1971	90	42%	65%
1957	62	8	71	51%	1986	89	43%	65%
1958	65	0	65	47%	1993	88	44%	64%
1959	59	7	65	47%	1950	86	46%	62%
1960	61	0	61	44%	1979	85	47%	61%
1961	61	0	61	44%	1954	85	48%	61%
1962	84	0	84	61%	1964	85	49%	61%
1963	88	2	90	65%	1968	84	51%	61%
1964	79	5	85	61%	1962	84	52%	61%

SWP Table A Deliveries for 2013 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
1965	91	0	91	66%	1966	84	53%	61%
1966	77	7	84	61%	1953	83	54%	60%
1967	67	1	68	49%	1923	83	56%	60%
1968	79	5	84	61%	1978	80	57%	58%
1969	128	0	128	93%	1948	79	58%	57%
1970	94	10	104	75%	1989	77	59%	56%
1971	82	7	90	65%	1947	76	60%	55%
1972	60	2	62	45%	1943	74	62%	53%
1973	100	0	100	73%	1957	71	63%	51%
1974	98	8	106	77%	2002	70	64%	50%
1975	91	8	98	71%	1967	68	65%	49%
1976	45	7	52	37%	1959	65	67%	47%
1977	15	0	15	11%	1958	65	68%	47%
1978	80	0	80	58%	1926	62	69%	45%
1979	77	9	85	61%	1972	62	70%	45%
1980	116	1	118	85%	1960	61	72%	44%
1981	54	7	61	44%	1981	61	73%	44%
1982	126	0	126	91%	1961	61	74%	44%
1983	128	9	138	100%	1939	59	75%	43%
1984	101	4	106	76%	1994	58	77%	42%
1985	91	8	99	71%	1925	57	78%	41%
1986	82	7	89	65%	1976	52	79%	37%
1987	21	6	27	20%	1949	51	80%	37%
1988	36	0	36	26%	1932	48	81%	35%
1989	77	0	77	56%	1944	48	83%	35%
1990	21	1	21	15%	1955	45	84%	33%
1991	25	0	25	18%	1930	45	85%	33%
1992	29	0	29	21%	1933	44	86%	32%
1993	88	0	88	64%	1929	39	88%	28%
1994	52	6	58	42%	2001	37	89%	27%
1995	95	0	95	68%	1988	36	90%	26%
1996	94	5	99	72%	1931	34	91%	25%
1997	106	7	113	82%	1934	33	93%	24%
1998	113	8	121	88%	1992	29	94%	21%
1999	92	9	100	72%	1987	27	95%	20%
2000	89	4	93	68%	1991	25	96%	18%
2001	31	6	37	27%	1990	21	98%	15%
2002	70	0	70	50%	1924	20	99%	14%
2003	101	0	101	73%	1977	15	100%	11%
Average	75	3	78	57%		78		57%
Maximum	128	10	138	100%		138		100%
Minimum	15	0	15	11%		15		11%

County of Kings: Future Conditions

SWP Table A Deliveries for 2013 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	7	0	7	73%	1938	9	0%	100%
1923	5	0	5	57%	1938	9	1%	100%
1924	1	0	1	14%	1938	9	2%	100%
1925	4	0	4	41%	1938	9	4%	100%
1926	4	0	4	45%	1958	9	5%	100%
1927	7	0	7	75%	1980	9	6%	97%
1928	6	0	6	68%	1952	8	7%	91%
1929	2	0	2	24%	1998	8	9%	88%
1930	3	0	3	33%	1978	8	10%	86%
1931	3	0	3	32%	1956	8	11%	84%
1932	3	0	3	35%	1997	8	12%	83%
1933	3	0	3	32%	1967	8	14%	82%
1934	2	0	2	24%	1943	7	15%	80%
1935	6	0	6	65%	1951	7	16%	79%
1936	7	0	7	74%	1984	7	17%	79%
1937	7	0	7	79%	1937	7	19%	79%
1938	9	0	9	100%	1973	7	20%	78%
1939	2	0	2	23%	1974	7	21%	77%
1940	6	0	6	65%	1941	7	22%	77%
1941	7	0	7	77%	1986	7	23%	76%
1942	6	0	6	68%	1945	7	25%	75%
1943	7	0	7	80%	1927	7	26%	75%
1944	3	0	3	31%	1936	7	27%	74%
1945	7	0	7	75%	1970	7	28%	73%
1946	6	0	6	68%	1996	7	30%	73%
1947	5	0	5	50%	1922	7	31%	73%
1948	5	0	5	58%	1985	7	32%	71%
1949	3	0	3	37%	1975	7	33%	71%
1950	6	0	6	65%	1965	7	35%	70%
1951	7	0	7	79%	1999	6	36%	69%
1952	8	0	8	91%	1946	6	37%	68%
1953	5	0	5	55%	1993	6	38%	68%
1954	6	0	6	63%	1942	6	40%	68%
1955	3	0	3	31%	1963	6	41%	68%
1956	8	0	8	84%	1928	6	42%	68%
1957	4	0	4	45%	2003	6	43%	67%
1958	9	0	9	100%	1940	6	44%	65%
1959	4	0	4	43%	1935	6	46%	65%
1960	4	0	4	44%	1950	6	47%	65%
1961	3	0	3	36%	2000	6	48%	65%
1962	6	0	6	62%	1995	6	49%	64%
1963	6	0	6	68%	1954	6	51%	63%
1964	5	0	5	59%	1962	6	52%	62%

SWP Table A Deliveries for 2013 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
1965	7	0	7	70%	1971	6	53%	61%
1966	5	0	5	57%	1964	5	54%	59%
1967	8	0	8	82%	1948	5	56%	58%
1968	5	0	5	57%	1979	5	57%	58%
1969	9	0	9	100%	1923	5	58%	57%
1970	7	0	7	73%	1968	5	59%	57%
1971	6	0	6	61%	1966	5	60%	57%
1972	4	0	4	43%	1953	5	62%	55%
1973	7	0	7	78%	1989	5	63%	53%
1974	7	0	7	77%	1947	5	64%	50%
1975	7	0	7	71%	1957	4	65%	45%
1976	3	0	3	32%	1926	4	67%	45%
1977	1	0	1	11%	1960	4	68%	44%
1978	8	0	8	86%	1972	4	69%	43%
1979	5	0	5	58%	1959	4	70%	43%
1980	9	0	9	97%	2002	4	72%	41%
1981	4	0	4	39%	1925	4	73%	41%
1982	9	0	9	100%	1981	4	74%	39%
1983	9	0	9	100%	1994	4	75%	38%
1984	7	0	7	79%	1949	3	77%	37%
1985	7	0	7	71%	1961	3	78%	36%
1986	7	0	7	76%	1932	3	79%	35%
1987	1	0	1	15%	1930	3	80%	33%
1988	2	0	2	26%	1976	3	81%	32%
1989	5	0	5	53%	1931	3	83%	32%
1990	1	0	1	15%	1933	3	84%	32%
1991	2	0	2	18%	1955	3	85%	31%
1992	2	0	2	21%	1944	3	86%	31%
1993	6	0	6	68%	1988	2	88%	26%
1994	4	0	4	38%	1929	2	89%	24%
1995	6	0	6	64%	1934	2	90%	24%
1996	7	0	7	73%	1939	2	91%	23%
1997	8	0	8	83%	2001	2	93%	22%
1998	8	0	8	88%	1992	2	94%	21%
1999	6	0	6	69%	1991	2	95%	18%
2000	6	0	6	65%	1987	1	96%	15%
2001	2	0	2	22%	1990	1	98%	15%
2002	4	0	4	41%	1924	1	99%	14%
2003	6	0	6	67%	1977	1	100%	11%
Average	5	0	5	58%		5		58%
Maximum	9	0	9	100%		9		100%
Minimum	1	0	1	11%		1		11%

Crestline-Lake Arrowhead WA: Future Conditions

SWP Table A Deliveries for 2013 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	4	0	4	73%	1938	6	0%	100%
1923	3	0	3	57%	1982	6	1%	100%
1924	1	0	1	14%	1969	6	2%	97%
1925	2	0	2	41%	1998	5	4%	88%
1926	3	0	3	45%	1978	5	5%	86%
1927	4	0	4	75%	1943	5	6%	86%
1928	4	0	4	68%	1956	5	7%	84%
1929	1	0	1	24%	1995	5	9%	82%
1930	2	0	2	33%	1986	5	10%	80%
1931	1	0	1	25%	1951	5	11%	79%
1932	2	0	2	35%	1984	5	12%	79%
1933	2	0	2	32%	1937	5	14%	79%
1934	1	0	1	24%	1973	5	15%	78%
1935	4	0	4	70%	1967	4	16%	77%
1936	4	0	4	70%	1974	4	17%	77%
1937	5	0	5	79%	1997	4	19%	76%
1938	6	0	6	100%	1945	4	20%	75%
1939	2	0	2	30%	1927	4	21%	75%
1940	4	0	4	70%	1970	4	22%	73%
1941	4	0	4	73%	1996	4	23%	73%
1942	4	0	4	68%	1941	4	25%	73%
1943	5	0	5	86%	1922	4	26%	73%
1944	2	0	2	31%	1958	4	27%	71%
1945	4	0	4	75%	1975	4	28%	71%
1946	4	0	4	68%	1940	4	30%	70%
1947	3	0	3	54%	1965	4	31%	70%
1948	3	0	3	58%	1935	4	32%	70%
1949	2	0	2	37%	1936	4	33%	70%
1950	4	0	4	65%	1980	4	35%	69%
1951	5	0	5	79%	1999	4	36%	69%
1952	4	0	4	65%	1946	4	37%	68%
1953	3	0	3	51%	1993	4	38%	68%
1954	4	0	4	63%	1983	4	40%	68%
1955	2	0	2	31%	1942	4	41%	68%
1956	5	0	5	84%	1963	4	42%	68%
1957	3	0	3	45%	1928	4	43%	68%
1958	4	0	4	71%	2002	4	44%	66%
1959	2	0	2	43%	1952	4	46%	65%
1960	3	0	3	44%	1950	4	47%	65%
1961	3	0	3	44%	1954	4	48%	63%
1962	4	0	4	62%	1962	4	49%	62%
1963	4	0	4	68%	2000	4	51%	61%
1964	3	0	3	59%	1985	4	52%	60%

SWP Table A Deliveries for 2013 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
1965	4	0	4	70%	1964	3	53%	59%
1966	3	0	3	57%	1948	3	54%	58%
1967	4	0	4	77%	1979	3	56%	58%
1968	3	0	3	57%	1923	3	57%	57%
1969	6	0	6	97%	1968	3	58%	57%
1970	4	0	4	73%	1966	3	59%	57%
1971	3	0	3	57%	1971	3	60%	57%
1972	3	0	3	43%	1989	3	62%	54%
1973	5	0	5	78%	1947	3	63%	54%
1974	4	0	4	77%	2003	3	64%	53%
1975	4	0	4	71%	1953	3	65%	51%
1976	2	0	2	32%	1957	3	67%	45%
1977	1	0	1	11%	1926	3	68%	45%
1978	5	0	5	86%	1960	3	69%	44%
1979	3	0	3	58%	1961	3	70%	44%
1980	4	0	4	69%	1972	3	72%	43%
1981	2	0	2	39%	1959	2	73%	43%
1982	6	0	6	100%	1925	2	74%	41%
1983	4	0	4	68%	1981	2	75%	39%
1984	5	0	5	79%	1994	2	77%	38%
1985	4	0	4	60%	1949	2	78%	37%
1986	5	0	5	80%	1932	2	79%	35%
1987	1	0	1	15%	1930	2	80%	33%
1988	2	0	2	26%	1976	2	81%	32%
1989	3	0	3	54%	1933	2	83%	32%
1990	1	0	1	15%	1955	2	84%	31%
1991	1	0	1	18%	1944	2	85%	31%
1992	1	0	1	21%	1939	2	86%	30%
1993	4	0	4	68%	1988	2	88%	26%
1994	2	0	2	38%	1931	1	89%	25%
1995	5	0	5	82%	1929	1	90%	24%
1996	4	0	4	73%	1934	1	91%	24%
1997	4	0	4	76%	2001	1	93%	22%
1998	5	0	5	88%	1992	1	94%	21%
1999	4	0	4	69%	1991	1	95%	18%
2000	4	0	4	61%	1987	1	96%	15%
2001	1	0	1	22%	1990	1	98%	15%
2002	4	0	4	66%	1924	1	99%	14%
2003	3	0	3	53%	1977	1	100%	11%
Average	3	0	3	57%		3		57%
Maximum	6	0	6	100%		6		100%
Minimum	1	0	1	11%		1		11%

Desert WA: Future Conditions

SWP Table A Deliveries for 2013 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	32	0	32	57%	1938	51	0%	91%
1923	31	4	35	63%	1983	49	1%	87%
1924	8	0	8	15%	1998	47	2%	84%
1925	23	0	23	41%	1969	44	4%	79%
1926	25	0	25	45%	1958	44	5%	78%
1927	33	0	33	59%	1952	43	6%	77%
1928	32	8	39	71%	1980	42	7%	75%
1929	13	5	19	33%	1937	42	9%	75%
1930	18	0	18	33%	1970	42	10%	75%
1931	18	0	18	32%	1986	42	11%	74%
1932	20	0	20	35%	1997	41	12%	74%
1933	18	0	18	32%	1995	41	14%	74%
1934	13	0	13	24%	1974	41	15%	73%
1935	32	0	32	57%	1999	40	16%	72%
1936	32	6	39	69%	1985	40	17%	71%
1937	34	7	42	75%	1928	39	19%	71%
1938	44	7	51	91%	1971	39	20%	70%
1939	10	11	20	36%	1975	39	21%	70%
1940	33	0	33	59%	1946	39	22%	69%
1941	36	2	38	68%	1936	39	23%	69%
1942	31	2	33	60%	1996	38	25%	69%
1943	25	3	28	50%	1941	38	26%	68%
1944	17	6	23	41%	1978	38	27%	68%
1945	33	0	33	59%	1951	38	28%	67%
1946	32	7	39	69%	1967	37	30%	67%
1947	26	5	31	56%	1968	37	31%	66%
1948	31	0	31	55%	1956	37	32%	66%
1949	21	0	21	37%	1964	36	33%	65%
1950	32	0	32	57%	1966	36	35%	65%
1951	35	3	38	67%	1923	35	36%	63%
1952	35	7	43	77%	2000	35	37%	63%
1953	22	6	27	49%	1984	35	38%	62%
1954	32	0	32	58%	1979	34	40%	62%
1955	17	2	20	35%	1973	34	41%	62%
1956	37	0	37	66%	1957	34	42%	61%
1957	25	9	34	61%	1942	33	43%	60%
1958	44	0	44	78%	1963	33	44%	59%
1959	24	7	31	55%	1945	33	46%	59%
1960	25	0	25	44%	1927	33	47%	59%
1961	24	0	24	44%	1940	33	48%	59%
1962	33	0	33	59%	1962	33	49%	59%
1963	31	2	33	59%	1954	32	51%	58%
1964	31	6	36	65%	1922	32	52%	57%

SWP Table A Deliveries for 2013 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
1965	31	0	31	56%	1950	32	53%	57%
1966	30	6	36	65%	1935	32	54%	57%
1967	36	1	37	67%	1965	31	56%	56%
1968	32	5	37	66%	1947	31	57%	56%
1969	44	0	44	79%	1993	31	58%	56%
1970	32	9	42	75%	1948	31	59%	55%
1971	32	8	39	70%	1959	31	60%	55%
1972	24	2	26	46%	1989	31	62%	55%
1973	34	0	34	62%	1982	30	63%	54%
1974	34	7	41	73%	1981	29	64%	51%
1975	31	8	39	70%	2002	28	65%	50%
1976	18	7	26	46%	1943	28	67%	50%
1977	6	0	6	11%	1953	27	68%	49%
1978	38	0	38	68%	1994	27	69%	48%
1979	28	6	34	62%	1972	26	70%	46%
1980	40	2	42	75%	1976	26	72%	46%
1981	22	7	29	51%	1926	25	73%	45%
1982	30	0	30	54%	1960	25	74%	44%
1983	42	7	49	87%	1961	24	75%	44%
1984	35	0	35	62%	1944	23	77%	41%
1985	31	8	40	71%	1925	23	78%	41%
1986	35	7	42	74%	2003	23	79%	41%
1987	9	5	14	25%	1949	21	80%	37%
1988	15	0	15	26%	1939	20	81%	36%
1989	31	0	31	55%	1955	20	83%	35%
1990	8	1	9	16%	1932	20	84%	35%
1991	10	0	10	18%	2001	19	85%	34%
1992	12	0	12	21%	1929	19	86%	33%
1993	31	0	31	56%	1930	18	88%	33%
1994	21	6	27	48%	1931	18	89%	32%
1995	41	0	41	74%	1933	18	90%	32%
1996	32	6	38	69%	1988	15	91%	26%
1997	36	5	41	74%	1987	14	93%	25%
1998	39	8	47	84%	1934	13	94%	24%
1999	34	6	40	72%	1992	12	95%	21%
2000	31	4	35	63%	1991	10	96%	18%
2001	12	7	19	34%	1990	9	98%	16%
2002	28	0	28	50%	1924	8	99%	15%
2003	23	0	23	41%	1977	6	100%	11%
Average	28	3	31	55%		31		55%
Maximum	44	11	51	91%		51		91%
Minimum	6	0	6	11%		6		11%

Dudley Ridge WD: Future Conditions

SWP Table A Deliveries for 2013 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	37	0	37	73%	1969	50	0%	100%
1923	29	0	29	57%	1983	50	1%	100%
1924	7	0	7	14%	1938	50	2%	100%
1925	21	0	21	41%	1982	50	4%	100%
1926	23	0	23	45%	1958	50	5%	100%
1927	38	0	38	75%	1980	49	6%	97%
1928	34	0	34	68%	1952	46	7%	91%
1929	12	0	12	24%	1978	43	9%	86%
1930	16	0	16	33%	1956	42	10%	84%
1931	16	0	16	32%	1997	42	11%	83%
1932	18	0	18	35%	1967	41	12%	82%
1933	16	0	16	32%	1998	41	14%	81%
1934	12	0	12	24%	1951	40	15%	79%
1935	35	0	35	70%	1984	40	16%	79%
1936	37	0	37	74%	1937	40	17%	79%
1937	40	0	40	79%	1943	39	19%	78%
1938	50	0	50	100%	1973	39	20%	78%
1939	18	0	18	36%	1974	39	21%	77%
1940	32	0	32	64%	1986	38	22%	75%
1941	34	0	34	68%	1945	38	23%	75%
1942	34	0	34	68%	1927	38	25%	75%
1943	39	0	39	78%	1995	37	26%	74%
1944	15	0	15	31%	1936	37	27%	74%
1945	38	0	38	75%	1970	37	28%	73%
1946	34	0	34	68%	1996	37	30%	73%
1947	25	0	25	49%	1922	37	31%	73%
1948	29	0	29	58%	1985	36	32%	71%
1949	19	0	19	37%	1975	36	33%	71%
1950	33	0	33	65%	1965	35	35%	70%
1951	40	0	40	79%	1935	35	36%	70%
1952	46	0	46	91%	1999	35	37%	69%
1953	28	0	28	55%	1941	34	38%	68%
1954	32	0	32	63%	1946	34	40%	68%
1955	16	0	16	31%	1993	34	41%	68%
1956	42	0	42	84%	1942	34	42%	68%
1957	23	0	23	45%	1963	34	43%	68%
1958	50	0	50	100%	1928	34	44%	68%
1959	21	0	21	43%	1950	33	46%	65%
1960	22	0	22	44%	2000	32	47%	65%
1961	22	0	22	44%	1940	32	48%	64%
1962	31	0	31	62%	1954	32	49%	63%
1963	34	0	34	68%	1962	31	51%	62%
1964	30	0	30	59%	1971	31	52%	61%

SWP Table A Deliveries for 2013 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
1965	35	0	35	70%	1964	30	53%	59%
1966	29	0	29	57%	1948	29	54%	58%
1967	41	0	41	82%	2002	29	56%	58%
1968	29	0	29	57%	1979	29	57%	58%
1969	50	0	50	100%	2003	29	58%	58%
1970	37	0	37	73%	1923	29	59%	57%
1971	31	0	31	61%	1968	29	60%	57%
1972	22	0	22	43%	1966	29	62%	57%
1973	39	0	39	78%	1989	28	63%	56%
1974	39	0	39	77%	1953	28	64%	55%
1975	36	0	36	71%	1947	25	65%	49%
1976	16	0	16	32%	1957	23	67%	45%
1977	6	0	6	11%	1926	23	68%	45%
1978	43	0	43	86%	1960	22	69%	44%
1979	29	0	29	58%	1961	22	70%	44%
1980	49	0	49	97%	1972	22	72%	43%
1981	20	0	20	39%	1959	21	73%	43%
1982	50	0	50	100%	1925	21	74%	41%
1983	50	0	50	100%	1981	20	75%	39%
1984	40	0	40	79%	1994	19	77%	38%
1985	36	0	36	71%	1949	19	78%	37%
1986	38	0	38	75%	1939	18	79%	36%
1987	8	0	8	15%	1932	18	80%	35%
1988	13	0	13	26%	1930	16	81%	33%
1989	28	0	28	56%	1976	16	83%	32%
1990	8	0	8	15%	1931	16	84%	32%
1991	9	0	9	18%	1933	16	85%	32%
1992	10	0	10	21%	1955	16	86%	31%
1993	34	0	34	68%	1944	15	88%	31%
1994	19	0	19	38%	1988	13	89%	26%
1995	37	0	37	74%	1929	12	90%	24%
1996	37	0	37	73%	1934	12	91%	24%
1997	42	0	42	83%	2001	11	93%	22%
1998	41	0	41	81%	1992	10	94%	21%
1999	35	0	35	69%	1991	9	95%	18%
2000	32	0	32	65%	1987	8	96%	15%
2001	11	0	11	22%	1990	8	98%	15%
2002	29	0	29	58%	1924	7	99%	14%
2003	29	0	29	58%	1977	6	100%	11%
Average	29	0	29	58%		29		58%
Maximum	50	0	50	100%		50		100%
Minimum	6	0	6	11%		6		11%

Empire West Side ID: Future Conditions

SWP Table A Deliveries for 2013 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	1	0	1	73%	1938	2	0%	100%
1923	1	0	1	57%	1938	2	1%	100%
1924	0	0	0	13%	1938	2	2%	100%
1925	1	0	1	41%	1938	2	4%	100%
1926	1	0	1	45%	1958	2	5%	100%
1927	1	0	1	75%	1980	2	6%	97%
1928	1	0	1	68%	1952	2	7%	91%
1929	0	0	0	20%	1995	2	9%	87%
1930	1	0	1	33%	1978	2	10%	86%
1931	1	0	1	30%	1998	2	11%	85%
1932	1	0	1	35%	1956	2	12%	84%
1933	1	0	1	29%	1943	2	14%	83%
1934	0	0	0	22%	1997	2	15%	83%
1935	1	0	1	67%	1967	2	16%	82%
1936	1	0	1	71%	1941	2	17%	79%
1937	2	0	2	79%	1951	2	19%	79%
1938	2	0	2	100%	1984	2	20%	79%
1939	1	0	1	31%	1937	2	21%	79%
1940	1	0	1	68%	1973	2	22%	78%
1941	2	0	2	79%	1986	2	23%	78%
1942	1	0	1	68%	1974	2	25%	77%
1943	2	0	2	83%	1945	1	26%	75%
1944	1	0	1	31%	1927	1	27%	75%
1945	1	0	1	75%	1970	1	28%	73%
1946	1	0	1	68%	1996	1	30%	73%
1947	1	0	1	51%	1922	1	31%	73%
1948	1	0	1	56%	1936	1	32%	71%
1949	1	0	1	37%	1975	1	33%	71%
1950	1	0	1	65%	1965	1	35%	70%
1951	2	0	2	79%	1999	1	36%	69%
1952	2	0	2	91%	1946	1	37%	68%
1953	1	0	1	55%	1993	1	38%	68%
1954	1	0	1	63%	1942	1	40%	68%
1955	1	0	1	31%	1963	1	41%	68%
1956	2	0	2	84%	1940	1	42%	68%
1957	1	0	1	45%	1928	1	43%	68%
1958	2	0	2	100%	1935	1	44%	67%
1959	1	0	1	43%	2000	1	46%	67%
1960	1	0	1	44%	1950	1	47%	65%
1961	1	0	1	43%	2002	1	48%	64%
1962	1	0	1	62%	1954	1	49%	63%
1963	1	0	1	68%	1962	1	51%	62%
1964	1	0	1	57%	1971	1	52%	61%

SWP Table A Deliveries for 2013 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
1965	1	0	1	70%	2003	1	53%	60%
1966	1	0	1	57%	1979	1	54%	58%
1967	2	0	2	82%	1923	1	56%	57%
1968	1	0	1	57%	1968	1	57%	57%
1969	2	0	2	100%	1966	1	58%	57%
1970	1	0	1	73%	1985	1	59%	57%
1971	1	0	1	61%	1964	1	60%	57%
1972	1	0	1	43%	1948	1	62%	56%
1973	2	0	2	78%	1953	1	63%	55%
1974	2	0	2	77%	1989	1	64%	55%
1975	1	0	1	71%	1947	1	65%	51%
1976	1	0	1	32%	1957	1	67%	45%
1977	0	0	0	10%	1926	1	68%	45%
1978	2	0	2	86%	1960	1	69%	44%
1979	1	0	1	58%	1972	1	70%	43%
1980	2	0	2	97%	1959	1	72%	43%
1981	1	0	1	39%	1961	1	73%	43%
1982	2	0	2	100%	1925	1	74%	41%
1983	2	0	2	100%	1981	1	75%	39%
1984	2	0	2	79%	1994	1	77%	38%
1985	1	0	1	57%	1949	1	78%	37%
1986	2	0	2	78%	1932	1	79%	35%
1987	0	0	0	15%	1930	1	80%	33%
1988	1	0	1	26%	1976	1	81%	32%
1989	1	0	1	55%	1955	1	83%	31%
1990	0	0	0	15%	1939	1	84%	31%
1991	0	0	0	18%	1944	1	85%	31%
1992	0	0	0	19%	1931	1	86%	30%
1993	1	0	1	68%	1933	1	88%	29%
1994	1	0	1	38%	1988	1	89%	26%
1995	2	0	2	87%	2001	0	90%	22%
1996	1	0	1	73%	1934	0	91%	22%
1997	2	0	2	83%	1929	0	93%	20%
1998	2	0	2	85%	1992	0	94%	19%
1999	1	0	1	69%	1991	0	95%	18%
2000	1	0	1	67%	1987	0	96%	15%
2001	0	0	0	22%	1990	0	98%	15%
2002	1	0	1	64%	1924	0	99%	13%
2003	1	0	1	60%	1977	0	100%	10%
Average	1	0	1	59%		1		59%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	10%		0		10%

Kern County WA-AG: Future Conditions

SWP Table A Deliveries for 2013 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	617	0	617	73%	1938	848	0%	100%
1923	483	0	483	57%	1983	848	1%	100%
1924	119	0	119	14%	1982	848	2%	100%
1925	350	0	350	41%	1969	848	4%	100%
1926	380	0	380	45%	1958	844	5%	100%
1927	632	0	632	75%	1980	823	6%	97%
1928	573	0	573	68%	1952	774	7%	91%
1929	198	0	198	23%	1998	748	9%	88%
1930	276	0	276	33%	1978	728	10%	86%
1931	270	0	270	32%	1956	710	11%	84%
1932	297	0	297	35%	1997	700	12%	83%
1933	269	0	269	32%	1967	698	14%	82%
1934	198	0	198	23%	1943	698	15%	82%
1935	579	0	579	68%	1941	693	16%	82%
1936	625	0	625	74%	1995	687	17%	81%
1937	667	0	667	79%	1951	672	19%	79%
1938	848	0	848	100%	1984	669	20%	79%
1939	247	0	247	29%	1937	667	21%	79%
1940	596	0	596	70%	1986	667	22%	79%
1941	693	0	693	82%	1973	663	23%	78%
1942	574	0	574	68%	1974	650	25%	77%
1943	698	0	698	82%	1945	633	26%	75%
1944	260	0	260	31%	1927	632	27%	75%
1945	633	0	633	75%	1936	625	28%	74%
1946	579	0	579	68%	1970	622	30%	73%
1947	440	0	440	52%	1996	619	31%	73%
1948	495	0	495	58%	1922	617	32%	73%
1949	312	0	312	37%	1975	599	33%	71%
1950	549	0	549	65%	1940	596	35%	70%
1951	672	0	672	79%	1965	596	36%	70%
1952	774	0	774	91%	1999	586	37%	69%
1953	467	0	467	55%	1935	579	38%	68%
1954	534	0	534	63%	1946	579	40%	68%
1955	265	0	265	31%	1993	577	41%	68%
1956	710	0	710	84%	1942	574	42%	68%
1957	383	0	383	45%	1963	574	43%	68%
1958	844	0	844	100%	1928	573	44%	68%
1959	360	0	360	42%	2000	572	46%	67%
1960	373	0	373	44%	1950	549	47%	65%
1961	349	0	349	41%	1954	534	48%	63%
1962	524	0	524	62%	1985	528	49%	62%
1963	574	0	574	68%	1962	524	51%	62%
1964	497	0	497	59%	2003	520	52%	61%

SWP Table A Deliveries for 2013 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
1965	596	0	596	70%	1971	517	53%	61%
1966	479	0	479	56%	1964	497	54%	59%
1967	698	0	698	82%	1948	495	56%	58%
1968	483	0	483	57%	1979	489	57%	58%
1969	848	0	848	100%	1923	483	58%	57%
1970	622	0	622	73%	1968	483	59%	57%
1971	517	0	517	61%	1966	479	60%	56%
1972	366	0	366	43%	2002	472	62%	56%
1973	663	0	663	78%	1989	467	63%	55%
1974	650	0	650	77%	1953	467	64%	55%
1975	599	0	599	71%	1947	440	65%	52%
1976	274	0	274	32%	1957	383	67%	45%
1977	93	0	93	11%	1926	380	68%	45%
1978	728	0	728	86%	1960	373	69%	44%
1979	489	0	489	58%	1972	366	70%	43%
1980	823	0	823	97%	1959	360	72%	42%
1981	331	0	331	39%	1925	350	73%	41%
1982	848	0	848	100%	1961	349	74%	41%
1983	848	0	848	100%	1981	331	75%	39%
1984	669	0	669	79%	1994	318	77%	37%
1985	528	0	528	62%	1949	312	78%	37%
1986	667	0	667	79%	1932	297	79%	35%
1987	131	0	131	15%	1930	276	80%	33%
1988	222	0	222	26%	1976	274	81%	32%
1989	467	0	467	55%	1931	270	83%	32%
1990	127	0	127	15%	1933	269	84%	32%
1991	151	0	151	18%	1955	265	85%	31%
1992	176	0	176	21%	1944	260	86%	31%
1993	577	0	577	68%	1939	247	88%	29%
1994	318	0	318	37%	1988	222	89%	26%
1995	687	0	687	81%	1929	198	90%	23%
1996	619	0	619	73%	1934	198	91%	23%
1997	700	0	700	83%	2001	190	93%	22%
1998	748	0	748	88%	1992	176	94%	21%
1999	586	0	586	69%	1991	151	95%	18%
2000	572	0	572	67%	1987	131	96%	15%
2001	190	0	190	22%	1990	127	98%	15%
2002	472	0	472	56%	1924	119	99%	14%
2003	520	0	520	61%	1977	93	100%	11%
Average	498	0	498	59%		498		59%
Maximum	848	0	848	100%		848		100%
Minimum	93	0	93	11%		93		11%

Kern County WA-MI: Future Conditions

SWP Table A Deliveries for 2013 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	98	0	98	73%	1983	135	0%	100%
1923	77	0	77	57%	1938	135	1%	100%
1924	19	0	19	14%	1982	135	2%	100%
1925	56	0	56	41%	1969	135	4%	100%
1926	60	0	60	45%	1958	134	5%	100%
1927	100	0	100	75%	1980	131	6%	97%
1928	91	0	91	68%	1952	123	7%	91%
1929	33	0	33	24%	1998	119	9%	88%
1930	44	0	44	33%	1978	116	10%	86%
1931	43	0	43	32%	1956	113	11%	84%
1932	47	0	47	35%	1997	111	12%	83%
1933	43	0	43	32%	1967	111	14%	82%
1934	32	0	32	24%	1986	108	15%	80%
1935	94	0	94	70%	1941	108	16%	80%
1936	99	0	99	74%	1951	107	17%	79%
1937	106	0	106	79%	1984	106	19%	79%
1938	135	0	135	100%	1937	106	20%	79%
1939	38	0	38	28%	1973	105	21%	78%
1940	95	0	95	70%	1995	103	22%	77%
1941	108	0	108	80%	1974	103	23%	77%
1942	91	0	91	68%	1943	101	25%	75%
1943	101	0	101	75%	1945	101	26%	75%
1944	41	0	41	31%	1927	100	27%	75%
1945	101	0	101	75%	1936	99	28%	74%
1946	92	0	92	68%	1970	99	30%	73%
1947	70	0	70	52%	1996	98	31%	73%
1948	78	0	78	58%	1922	98	32%	73%
1949	50	0	50	37%	1985	95	33%	71%
1950	87	0	87	65%	1975	95	35%	71%
1951	107	0	107	79%	1940	95	36%	70%
1952	123	0	123	91%	1965	95	37%	70%
1953	74	0	74	55%	1935	94	38%	70%
1954	85	0	85	63%	1999	93	40%	69%
1955	42	0	42	31%	1946	92	41%	68%
1956	113	0	113	84%	1993	92	42%	68%
1957	61	0	61	45%	1942	91	43%	68%
1958	134	0	134	100%	1963	91	44%	68%
1959	57	0	57	43%	2000	91	46%	68%
1960	59	0	59	44%	1928	91	47%	68%
1961	55	0	55	41%	1950	87	48%	65%
1962	83	0	83	62%	1954	85	49%	63%
1963	91	0	91	68%	1962	83	51%	62%
1964	71	0	71	53%	1971	82	52%	61%

SWP Table A Deliveries for 2013 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
1965	95	0	95	70%	2003	82	53%	61%
1966	77	0	77	57%	1948	78	54%	58%
1967	111	0	111	82%	1979	78	56%	58%
1968	77	0	77	57%	1923	77	57%	57%
1969	135	0	135	100%	1968	77	58%	57%
1970	99	0	99	73%	1966	77	59%	57%
1971	82	0	82	61%	1989	75	60%	56%
1972	58	0	58	43%	1953	74	62%	55%
1973	105	0	105	78%	2002	72	63%	54%
1974	103	0	103	77%	1964	71	64%	53%
1975	95	0	95	71%	1947	70	65%	52%
1976	44	0	44	32%	1957	61	67%	45%
1977	15	0	15	11%	1926	60	68%	45%
1978	116	0	116	86%	1960	59	69%	44%
1979	78	0	78	58%	1972	58	70%	43%
1980	131	0	131	97%	1959	57	72%	43%
1981	53	0	53	39%	1925	56	73%	41%
1982	135	0	135	100%	1961	55	74%	41%
1983	135	0	135	100%	1981	53	75%	39%
1984	106	0	106	79%	1994	51	77%	38%
1985	95	0	95	71%	1949	50	78%	37%
1986	108	0	108	80%	1932	47	79%	35%
1987	21	0	21	15%	1930	44	80%	33%
1988	35	0	35	26%	1976	44	81%	32%
1989	75	0	75	56%	1931	43	83%	32%
1990	20	0	20	15%	1933	43	84%	32%
1991	24	0	24	18%	1955	42	85%	31%
1992	28	0	28	21%	1944	41	86%	31%
1993	92	0	92	68%	1939	38	88%	28%
1994	51	0	51	38%	1988	35	89%	26%
1995	103	0	103	77%	1929	33	90%	24%
1996	98	0	98	73%	1934	32	91%	24%
1997	111	0	111	83%	2001	30	93%	22%
1998	119	0	119	88%	1992	28	94%	21%
1999	93	0	93	69%	1991	24	95%	18%
2000	91	0	91	68%	1987	21	96%	15%
2001	30	0	30	22%	1990	20	98%	15%
2002	72	0	72	54%	1924	19	99%	14%
2003	82	0	82	61%	1977	15	100%	11%
Average	79	0	79	59%		79		59%
Maximum	135	0	135	100%		135		100%
Minimum	15	0	15	11%		15		11%

Littlerock Creek ID: Future Conditions

SWP Table A Deliveries for 2013 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	2	0	2	73%	1982	2	0%	100%
1923	1	0	1	57%	1938	2	1%	100%
1924	0	0	0	14%	1969	2	2%	100%
1925	1	0	1	41%	1983	2	4%	100%
1926	1	0	1	45%	1958	2	5%	100%
1927	2	0	2	75%	1980	2	6%	97%
1928	2	0	2	68%	1998	2	7%	88%
1929	1	0	1	24%	1978	2	9%	86%
1930	1	0	1	33%	1952	2	10%	85%
1931	1	0	1	32%	1956	2	11%	84%
1932	1	0	1	35%	1997	2	12%	83%
1933	1	0	1	32%	1967	2	14%	82%
1934	1	0	1	24%	1941	2	15%	82%
1935	2	0	2	70%	1951	2	16%	79%
1936	2	0	2	71%	1995	2	17%	79%
1937	2	0	2	79%	1984	2	19%	79%
1938	2	0	2	100%	1937	2	20%	79%
1939	1	0	1	28%	1973	2	21%	78%
1940	2	0	2	70%	1974	2	22%	77%
1941	2	0	2	82%	1945	2	23%	75%
1942	2	0	2	68%	1927	2	25%	75%
1943	2	0	2	74%	1943	2	26%	74%
1944	1	0	1	31%	1970	2	27%	73%
1945	2	0	2	75%	1996	2	28%	73%
1946	2	0	2	68%	1922	2	30%	73%
1947	1	0	1	52%	1986	2	31%	72%
1948	1	0	1	53%	1936	2	32%	71%
1949	1	0	1	37%	1975	2	33%	71%
1950	1	0	1	65%	1940	2	35%	70%
1951	2	0	2	79%	1965	2	36%	70%
1952	2	0	2	85%	1935	2	37%	70%
1953	1	0	1	55%	1999	2	38%	69%
1954	1	0	1	63%	1946	2	40%	68%
1955	1	0	1	31%	1993	2	41%	68%
1956	2	0	2	84%	1942	2	42%	68%
1957	1	0	1	45%	1963	2	43%	68%
1958	2	0	2	100%	1928	2	44%	68%
1959	1	0	1	43%	2000	2	46%	67%
1960	1	0	1	44%	2003	2	47%	65%
1961	1	0	1	44%	1950	1	48%	65%
1962	1	0	1	62%	1954	1	49%	63%
1963	2	0	2	68%	1962	1	51%	62%
1964	1	0	1	59%	1971	1	52%	61%

SWP Table A Deliveries for 2013 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
1965	2	0	2	70%	1964	1	53%	59%
1966	1	0	1	57%	1979	1	54%	58%
1967	2	0	2	82%	1985	1	56%	58%
1968	1	0	1	57%	1923	1	57%	57%
1969	2	0	2	100%	1968	1	58%	57%
1970	2	0	2	73%	1966	1	59%	57%
1971	1	0	1	61%	1953	1	60%	55%
1972	1	0	1	43%	1989	1	62%	55%
1973	2	0	2	78%	1948	1	63%	53%
1974	2	0	2	77%	2002	1	64%	52%
1975	2	0	2	71%	1947	1	65%	52%
1976	1	0	1	32%	1957	1	67%	45%
1977	0	0	0	11%	1926	1	68%	45%
1978	2	0	2	86%	1960	1	69%	44%
1979	1	0	1	58%	1961	1	70%	44%
1980	2	0	2	97%	1972	1	72%	43%
1981	1	0	1	39%	1959	1	73%	43%
1982	2	0	2	100%	1925	1	74%	41%
1983	2	0	2	100%	1981	1	75%	39%
1984	2	0	2	79%	1994	1	77%	38%
1985	1	0	1	58%	1949	1	78%	37%
1986	2	0	2	72%	1932	1	79%	35%
1987	0	0	0	15%	1930	1	80%	33%
1988	1	0	1	26%	1976	1	81%	32%
1989	1	0	1	55%	1931	1	83%	32%
1990	0	0	0	15%	1933	1	84%	32%
1991	0	0	0	18%	1955	1	85%	31%
1992	0	0	0	21%	1944	1	86%	31%
1993	2	0	2	68%	1939	1	88%	28%
1994	1	0	1	38%	1988	1	89%	26%
1995	2	0	2	79%	1929	1	90%	24%
1996	2	0	2	73%	1934	1	91%	24%
1997	2	0	2	83%	2001	1	93%	22%
1998	2	0	2	88%	1992	0	94%	21%
1999	2	0	2	69%	1991	0	95%	18%
2000	2	0	2	67%	1987	0	96%	15%
2001	1	0	1	22%	1990	0	98%	15%
2002	1	0	1	52%	1924	0	99%	14%
2003	2	0	2	65%	1977	0	100%	11%
Average	1	0	1	58%		1		58%
Maximum	2	0	2	100%		2		100%
Minimum	0	0	0	11%		0		11%

Metropolitan WDSC: Future Conditions

SWP Table A Deliveries for 2013 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	1,245	0	1,245	65%	1983	1,877	0%	98%
1923	1,082	84	1,166	61%	1938	1,820	1%	95%
1924	272	5	277	15%	1982	1,703	2%	89%
1925	790	0	790	41%	1969	1,672	4%	87%
1926	857	0	857	45%	1998	1,666	5%	87%
1927	1,276	0	1,276	67%	1952	1,650	6%	86%
1928	1,188	148	1,337	70%	1980	1,624	7%	85%
1929	462	102	564	30%	1958	1,566	9%	82%
1930	622	0	622	33%	1997	1,553	10%	81%
1931	617	0	617	32%	1937	1,487	11%	78%
1932	669	0	669	35%	1986	1,487	12%	78%
1933	606	0	606	32%	1978	1,470	14%	77%
1934	454	0	454	24%	1974	1,466	15%	77%
1935	1,191	0	1,191	62%	1941	1,464	16%	77%
1936	1,224	123	1,347	70%	1970	1,454	17%	76%
1937	1,341	146	1,487	78%	1984	1,437	19%	75%
1938	1,664	156	1,820	95%	1956	1,432	20%	75%
1939	643	199	843	44%	1967	1,431	21%	75%
1940	1,229	0	1,229	64%	1951	1,417	22%	74%
1941	1,398	66	1,464	77%	1999	1,413	23%	74%
1942	1,188	71	1,259	66%	1995	1,410	25%	74%
1943	1,283	83	1,366	71%	1943	1,366	26%	71%
1944	585	112	697	36%	1975	1,361	27%	71%
1945	1,278	0	1,278	67%	1996	1,356	28%	71%
1946	1,201	148	1,348	71%	1946	1,348	30%	71%
1947	958	102	1,060	55%	1936	1,347	31%	70%
1948	1,052	4	1,057	55%	1973	1,339	32%	70%
1949	703	4	708	37%	1928	1,337	33%	70%
1950	1,165	0	1,165	61%	1985	1,299	35%	68%
1951	1,356	61	1,417	74%	1945	1,278	36%	67%
1952	1,492	158	1,650	86%	1927	1,276	37%	67%
1953	1,051	130	1,181	62%	2000	1,261	38%	66%
1954	1,159	0	1,159	61%	1942	1,259	40%	66%
1955	597	43	640	33%	1971	1,255	41%	66%
1956	1,432	0	1,432	75%	1922	1,245	42%	65%
1957	862	167	1,029	54%	1940	1,229	43%	64%
1958	1,566	0	1,566	82%	1963	1,213	44%	63%
1959	815	124	939	49%	1965	1,212	46%	63%
1960	841	0	841	44%	1979	1,205	47%	63%
1961	839	0	839	44%	1964	1,194	48%	62%
1962	1,151	0	1,151	60%	1966	1,193	49%	62%
1963	1,183	30	1,213	63%	1935	1,191	51%	62%
1964	1,084	110	1,194	62%	1968	1,186	52%	62%

SWP Table A Deliveries for 2013 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
1965	1,208	4	1,212	63%	1993	1,184	53%	62%
1966	1,058	135	1,193	62%	1953	1,181	54%	62%
1967	1,404	27	1,431	75%	2003	1,170	56%	61%
1968	1,088	98	1,186	62%	1923	1,166	57%	61%
1969	1,672	0	1,672	87%	1950	1,165	58%	61%
1970	1,255	199	1,454	76%	1954	1,159	59%	61%
1971	1,109	146	1,255	66%	1962	1,151	60%	60%
1972	826	40	866	45%	1947	1,060	62%	55%
1973	1,339	0	1,339	70%	1948	1,057	63%	55%
1974	1,311	155	1,466	77%	1989	1,041	64%	54%
1975	1,209	152	1,361	71%	2002	1,040	65%	54%
1976	619	141	760	40%	1957	1,029	67%	54%
1977	210	0	210	11%	1959	939	68%	49%
1978	1,470	0	1,470	77%	1981	872	69%	46%
1979	1,036	169	1,205	63%	1972	866	70%	45%
1980	1,594	30	1,624	85%	1926	857	72%	45%
1981	746	126	872	46%	1939	843	73%	44%
1982	1,703	0	1,703	89%	1960	841	74%	44%
1983	1,693	185	1,877	98%	1961	839	75%	44%
1984	1,349	88	1,437	75%	1994	811	77%	42%
1985	1,142	157	1,299	68%	1925	790	78%	41%
1986	1,351	136	1,487	78%	1976	760	79%	40%
1987	295	104	398	21%	1949	708	80%	37%
1988	500	0	500	26%	1944	697	81%	36%
1989	1,041	0	1,041	54%	1932	669	83%	35%
1990	285	12	298	16%	1955	640	84%	33%
1991	341	0	341	18%	1930	622	85%	33%
1992	397	0	397	21%	1931	617	86%	32%
1993	1,184	0	1,184	62%	1933	606	88%	32%
1994	696	115	811	42%	1929	564	89%	30%
1995	1,410	0	1,410	74%	2001	554	90%	29%
1996	1,249	107	1,356	71%	1988	500	91%	26%
1997	1,412	141	1,553	81%	1934	454	93%	24%
1998	1,502	164	1,666	87%	1987	398	94%	21%
1999	1,238	175	1,413	74%	1992	397	95%	21%
2000	1,179	82	1,261	66%	1991	341	96%	18%
2001	428	126	554	29%	1990	298	98%	16%
2002	1,040	0	1,040	54%	1924	277	99%	15%
2003	1,166	4	1,170	61%	1977	210	100%	11%
Average	1,042	66	1,108	58%		1,108		58%
Maximum	1,703	199	1,877	98%		1,877		98%
Minimum	210	0	210	11%		210		11%

Mojave WA: Future Conditions

SWP Table A Deliveries for 2013 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	60	0	60	73%	1995	77	0%	93%
1923	47	0	47	57%	1983	76	1%	92%
1924	12	0	12	14%	1938	75	2%	90%
1925	34	0	34	41%	1978	71	4%	86%
1926	37	0	37	45%	1956	69	5%	84%
1927	62	0	62	75%	1951	66	6%	79%
1928	56	0	56	68%	1984	65	7%	79%
1929	20	0	20	24%	1973	65	9%	78%
1930	27	0	27	33%	1943	64	10%	78%
1931	27	0	27	32%	1974	63	11%	77%
1932	29	0	29	35%	1967	63	12%	76%
1933	26	0	26	32%	1986	63	14%	76%
1934	20	0	20	24%	1952	62	15%	75%
1935	56	0	56	68%	1945	62	16%	75%
1936	61	0	61	74%	1927	62	17%	75%
1937	47	0	47	57%	1997	62	19%	74%
1938	75	0	75	90%	1936	61	20%	74%
1939	30	0	30	36%	1970	61	21%	73%
1940	55	0	55	67%	1941	61	22%	73%
1941	61	0	61	73%	1922	60	23%	73%
1942	56	0	56	68%	1975	58	25%	71%
1943	64	0	64	78%	1965	58	26%	70%
1944	25	0	25	31%	1982	58	27%	70%
1945	62	0	62	75%	1999	57	28%	69%
1946	56	0	56	68%	1946	56	30%	68%
1947	44	0	44	54%	1993	56	31%	68%
1948	48	0	48	58%	1942	56	32%	68%
1949	30	0	30	37%	1963	56	33%	68%
1950	54	0	54	65%	1928	56	35%	68%
1951	66	0	66	79%	1935	56	36%	68%
1952	62	0	62	75%	1940	55	37%	67%
1953	46	0	46	55%	2002	55	38%	66%
1954	51	0	51	61%	1980	54	40%	65%
1955	26	0	26	31%	1950	54	41%	65%
1956	69	0	69	84%	1969	53	42%	64%
1957	37	0	37	45%	1996	53	43%	63%
1958	30	0	30	37%	2000	51	44%	62%
1959	35	0	35	43%	1962	51	46%	62%
1960	36	0	36	44%	1954	51	47%	61%
1961	36	0	36	44%	1971	50	48%	61%
1962	51	0	51	62%	1985	49	49%	59%
1963	56	0	56	68%	1964	49	51%	59%
1964	49	0	49	59%	1948	48	52%	58%

SWP Table A Deliveries for 2013 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
1965	58	0	58	70%	1998	48	53%	58%
1966	47	0	47	57%	1979	48	54%	58%
1967	63	0	63	76%	1937	47	56%	57%
1968	47	0	47	57%	1923	47	57%	57%
1969	53	0	53	64%	1968	47	58%	57%
1970	61	0	61	73%	1966	47	59%	57%
1971	50	0	50	61%	1989	46	60%	56%
1972	36	0	36	43%	1953	46	62%	55%
1973	65	0	65	78%	1947	44	63%	54%
1974	63	0	63	77%	2003	44	64%	53%
1975	58	0	58	71%	1957	37	65%	45%
1976	27	0	27	32%	1926	37	67%	45%
1977	9	0	9	11%	1960	36	68%	44%
1978	71	0	71	86%	1961	36	69%	44%
1979	48	0	48	58%	1972	36	70%	43%
1980	54	0	54	65%	1959	35	72%	43%
1981	32	0	32	39%	1925	34	73%	41%
1982	58	0	58	70%	1981	32	74%	39%
1983	76	0	76	92%	1994	31	75%	38%
1984	65	0	65	79%	1949	30	77%	37%
1985	49	0	49	59%	1958	30	78%	37%
1986	63	0	63	76%	1939	30	79%	36%
1987	13	0	13	15%	1932	29	80%	35%
1988	22	0	22	26%	1930	27	81%	33%
1989	46	0	46	56%	1976	27	83%	32%
1990	12	0	12	15%	1931	27	84%	32%
1991	15	0	15	18%	1933	26	85%	32%
1992	17	0	17	21%	1955	26	86%	31%
1993	56	0	56	68%	1944	25	88%	31%
1994	31	0	31	38%	1988	22	89%	26%
1995	77	0	77	93%	1929	20	90%	24%
1996	53	0	53	63%	1934	20	91%	24%
1997	62	0	62	74%	2001	19	93%	22%
1998	48	0	48	58%	1992	17	94%	21%
1999	57	0	57	69%	1991	15	95%	18%
2000	51	0	51	62%	1987	13	96%	15%
2001	19	0	19	22%	1990	12	98%	15%
2002	55	0	55	66%	1924	12	99%	14%
2003	44	0	44	53%	1977	9	100%	11%
Average	46	0	46	55%		46		55%
Maximum	77	0	77	93%		77		93%
Minimum	9	0	9	11%		9		11%

Napa County FC&WCD: Future Conditions

SWP Table A Deliveries for 2013 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	21	0	21	73%	1938	29	0%	100%
1923	17	0	17	57%	1983	29	1%	100%
1924	4	0	4	14%	1969	29	2%	100%
1925	12	0	12	41%	1982	29	4%	100%
1926	13	0	13	45%	1958	29	5%	100%
1927	22	0	22	75%	1980	28	6%	97%
1928	20	0	20	68%	1995	27	7%	93%
1929	7	0	7	24%	1952	26	9%	91%
1930	9	0	9	33%	1998	26	10%	88%
1931	9	0	9	32%	1978	25	11%	86%
1932	10	0	10	35%	1943	25	12%	86%
1933	9	0	9	32%	1956	24	14%	84%
1934	7	0	7	24%	1997	24	15%	83%
1935	20	0	20	70%	1967	24	16%	82%
1936	21	0	21	74%	1941	24	17%	82%
1937	23	0	23	79%	1986	23	19%	80%
1938	29	0	29	100%	1951	23	20%	79%
1939	10	0	10	36%	1984	23	21%	79%
1940	20	0	20	70%	1937	23	22%	79%
1941	24	0	24	82%	2003	23	23%	79%
1942	20	0	20	68%	1973	23	25%	78%
1943	25	0	25	86%	1974	22	26%	77%
1944	9	0	9	31%	1945	22	27%	75%
1945	22	0	22	75%	1927	22	28%	75%
1946	20	0	20	68%	1936	21	30%	74%
1947	16	0	16	54%	1970	21	31%	73%
1948	17	0	17	58%	1996	21	32%	73%
1949	11	0	11	37%	1922	21	33%	73%
1950	19	0	19	65%	1985	21	35%	71%
1951	23	0	23	79%	1975	21	36%	71%
1952	26	0	26	91%	1940	20	37%	70%
1953	16	0	16	55%	1965	20	38%	70%
1954	18	0	18	63%	1935	20	40%	70%
1955	9	0	9	31%	1999	20	41%	69%
1956	24	0	24	84%	2000	20	42%	69%
1957	13	0	13	45%	1946	20	43%	68%
1958	29	0	29	100%	1993	20	44%	68%
1959	12	0	12	43%	1942	20	46%	68%
1960	13	0	13	44%	1963	20	47%	68%
1961	13	0	13	44%	1928	20	48%	68%
1962	18	0	18	62%	2002	19	49%	66%
1963	20	0	20	68%	1950	19	51%	65%
1964	17	0	17	59%	1954	18	52%	63%

SWP Table A Deliveries for 2013 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
1965	20	0	20	70%	1962	18	53%	62%
1966	17	0	17	57%	1971	18	54%	61%
1967	24	0	24	82%	1964	17	56%	59%
1968	17	0	17	57%	1948	17	57%	58%
1969	29	0	29	100%	1979	17	58%	58%
1970	21	0	21	73%	1923	17	59%	57%
1971	18	0	18	61%	1968	17	60%	57%
1972	13	0	13	43%	1966	17	62%	57%
1973	23	0	23	78%	1989	16	63%	56%
1974	22	0	22	77%	1953	16	64%	55%
1975	21	0	21	71%	1947	16	65%	54%
1976	9	0	9	32%	1957	13	67%	45%
1977	3	0	3	11%	1926	13	68%	45%
1978	25	0	25	86%	1960	13	69%	44%
1979	17	0	17	58%	1961	13	70%	44%
1980	28	0	28	97%	1972	13	72%	43%
1981	11	0	11	39%	1959	12	73%	43%
1982	29	0	29	100%	1925	12	74%	41%
1983	29	0	29	100%	1981	11	75%	39%
1984	23	0	23	79%	1994	11	77%	38%
1985	21	0	21	71%	1949	11	78%	37%
1986	23	0	23	80%	1939	10	79%	36%
1987	4	0	4	15%	1932	10	80%	35%
1988	8	0	8	26%	1930	9	81%	33%
1989	16	0	16	56%	1976	9	83%	32%
1990	4	0	4	15%	1931	9	84%	32%
1991	5	0	5	18%	1933	9	85%	32%
1992	6	0	6	21%	1955	9	86%	31%
1993	20	0	20	68%	1944	9	88%	31%
1994	11	0	11	38%	1988	8	89%	26%
1995	27	0	27	93%	1929	7	90%	24%
1996	21	0	21	73%	1934	7	91%	24%
1997	24	0	24	83%	2001	7	93%	22%
1998	26	0	26	88%	1992	6	94%	21%
1999	20	0	20	69%	1991	5	95%	18%
2000	20	0	20	69%	1987	4	96%	15%
2001	7	0	7	22%	1990	4	98%	15%
2002	19	0	19	66%	1924	4	99%	14%
2003	23	0	23	79%	1977	3	100%	11%
Average	17	0	17	60%		17		60%
Maximum	29	0	29	100%		29		100%
Minimum	3	0	3	11%		3		11%

Oak Flat WD: Future Conditions

SWP Table A Deliveries for 2013 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	4	0	4	73%	1983	6	0%	100%
1923	3	0	3	57%	1938	6	1%	100%
1924	1	0	1	14%	1969	6	2%	100%
1925	2	0	2	41%	1982	6	4%	100%
1926	3	0	3	45%	1958	6	5%	100%
1927	4	0	4	75%	1980	6	6%	97%
1928	4	0	4	68%	1952	5	7%	91%
1929	1	0	1	20%	1995	5	9%	90%
1930	2	0	2	33%	1998	5	10%	88%
1931	2	0	2	29%	1978	5	11%	86%
1932	2	0	2	35%	1943	5	12%	84%
1933	2	0	2	30%	1956	5	14%	84%
1934	1	0	1	21%	1997	5	15%	83%
1935	4	0	4	70%	1967	5	16%	82%
1936	4	0	4	74%	1941	5	17%	81%
1937	4	0	4	79%	1986	5	19%	80%
1938	6	0	6	100%	1951	5	20%	79%
1939	2	0	2	31%	1984	4	21%	79%
1940	4	0	4	70%	1937	4	22%	79%
1941	5	0	5	81%	1973	4	23%	78%
1942	4	0	4	68%	1974	4	25%	77%
1943	5	0	5	84%	1945	4	26%	75%
1944	2	0	2	31%	1927	4	27%	75%
1945	4	0	4	75%	1936	4	28%	74%
1946	4	0	4	68%	1970	4	30%	73%
1947	3	0	3	53%	1996	4	31%	73%
1948	3	0	3	58%	1922	4	32%	73%
1949	2	0	2	37%	1975	4	33%	71%
1950	4	0	4	65%	1965	4	35%	70%
1951	5	0	5	79%	1935	4	36%	70%
1952	5	0	5	91%	1940	4	37%	70%
1953	3	0	3	55%	1999	4	38%	69%
1954	4	0	4	63%	2000	4	40%	69%
1955	2	0	2	31%	1946	4	41%	68%
1956	5	0	5	84%	1993	4	42%	68%
1957	3	0	3	45%	1942	4	43%	68%
1958	6	0	6	100%	1963	4	44%	68%
1959	2	0	2	43%	1928	4	46%	68%
1960	3	0	3	44%	1950	4	47%	65%
1961	2	0	2	40%	1954	4	48%	63%
1962	4	0	4	62%	1962	4	49%	62%
1963	4	0	4	68%	1971	3	51%	61%
1964	3	0	3	57%	2002	3	52%	61%

SWP Table A Deliveries for 2013 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
1965	4	0	4	70%	2003	3	53%	60%
1966	3	0	3	52%	1948	3	54%	58%
1967	5	0	5	82%	1979	3	56%	58%
1968	3	0	3	57%	1923	3	57%	57%
1969	6	0	6	100%	1968	3	58%	57%
1970	4	0	4	73%	1964	3	59%	57%
1971	3	0	3	61%	1989	3	60%	56%
1972	2	0	2	43%	1953	3	62%	55%
1973	4	0	4	78%	1947	3	63%	53%
1974	4	0	4	77%	1966	3	64%	52%
1975	4	0	4	71%	1985	3	65%	52%
1976	2	0	2	32%	1957	3	67%	45%
1977	1	0	1	9%	1926	3	68%	45%
1978	5	0	5	86%	1960	3	69%	44%
1979	3	0	3	58%	1972	2	70%	43%
1980	6	0	6	97%	1959	2	72%	43%
1981	2	0	2	39%	1925	2	73%	41%
1982	6	0	6	100%	1961	2	74%	40%
1983	6	0	6	100%	1981	2	75%	39%
1984	4	0	4	79%	1949	2	77%	37%
1985	3	0	3	52%	1932	2	78%	35%
1986	5	0	5	80%	1994	2	79%	34%
1987	1	0	1	15%	1930	2	80%	33%
1988	1	0	1	26%	1976	2	81%	32%
1989	3	0	3	56%	1939	2	83%	31%
1990	1	0	1	15%	1955	2	84%	31%
1991	1	0	1	18%	1944	2	85%	31%
1992	1	0	1	19%	1933	2	86%	30%
1993	4	0	4	68%	1931	2	88%	29%
1994	2	0	2	34%	1988	1	89%	26%
1995	5	0	5	90%	2001	1	90%	22%
1996	4	0	4	73%	1934	1	91%	21%
1997	5	0	5	83%	1929	1	93%	20%
1998	5	0	5	88%	1992	1	94%	19%
1999	4	0	4	69%	1991	1	95%	18%
2000	4	0	4	69%	1987	1	96%	15%
2001	1	0	1	22%	1990	1	98%	15%
2002	3	0	3	61%	1924	1	99%	14%
2003	3	0	3	60%	1977	1	100%	9%
Average	3	0	3	59%		3		59%
Maximum	6	0	6	100%		6		100%
Minimum	1	0	1	9%		1		9%

Palmdale WD: Future Conditions

SWP Table A Deliveries for 2013 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	15	0	15	73%	1982	21	0%	100%
1923	12	0	12	57%	1938	21	1%	100%
1924	3	0	3	14%	1983	21	2%	100%
1925	9	0	9	41%	1969	21	4%	100%
1926	10	0	10	45%	1958	21	5%	100%
1927	16	0	16	75%	1980	21	6%	97%
1928	14	0	14	68%	1952	19	7%	91%
1929	5	0	5	24%	1998	19	9%	88%
1930	7	0	7	33%	1978	18	10%	86%
1931	7	0	7	32%	1956	18	11%	84%
1932	7	0	7	35%	1997	18	12%	83%
1933	7	0	7	32%	1967	18	14%	82%
1934	5	0	5	24%	1941	17	15%	82%
1935	14	0	14	67%	1951	17	16%	79%
1936	16	0	16	74%	1984	17	17%	79%
1937	17	0	17	79%	1937	17	19%	79%
1938	21	0	21	100%	1973	17	20%	78%
1939	6	0	6	27%	1986	17	21%	78%
1940	14	0	14	68%	1943	16	22%	77%
1941	17	0	17	82%	1974	16	23%	77%
1942	14	0	14	68%	1995	16	25%	76%
1943	16	0	16	77%	1945	16	26%	75%
1944	7	0	7	31%	1927	16	27%	75%
1945	16	0	16	75%	1936	16	28%	74%
1946	15	0	15	68%	1970	16	30%	73%
1947	11	0	11	52%	1996	16	31%	73%
1948	12	0	12	58%	1922	15	32%	73%
1949	8	0	8	37%	1975	15	33%	71%
1950	14	0	14	65%	1965	15	35%	70%
1951	17	0	17	79%	1999	15	36%	69%
1952	19	0	19	91%	1946	15	37%	68%
1953	12	0	12	55%	1993	14	38%	68%
1954	13	0	13	63%	2003	14	40%	68%
1955	7	0	7	31%	1942	14	41%	68%
1956	18	0	18	84%	1940	14	42%	68%
1957	10	0	10	45%	1963	14	43%	68%
1958	21	0	21	100%	1928	14	44%	68%
1959	9	0	9	43%	1935	14	46%	67%
1960	9	0	9	44%	2000	14	47%	67%
1961	8	0	8	39%	1950	14	48%	65%
1962	13	0	13	62%	1954	13	49%	63%
1963	14	0	14	68%	1985	13	51%	62%
1964	12	0	12	59%	1962	13	52%	62%

SWP Table A Deliveries for 2013 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
1965	15	0	15	70%	1971	13	53%	61%
1966	12	0	12	57%	1964	12	54%	59%
1967	18	0	18	82%	1948	12	56%	58%
1968	12	0	12	57%	1979	12	57%	58%
1969	21	0	21	100%	1923	12	58%	57%
1970	16	0	16	73%	1968	12	59%	57%
1971	13	0	13	61%	1966	12	60%	57%
1972	9	0	9	43%	1953	12	62%	55%
1973	17	0	17	78%	1989	11	63%	54%
1974	16	0	16	77%	1947	11	64%	52%
1975	15	0	15	71%	2002	11	65%	50%
1976	7	0	7	32%	1957	10	67%	45%
1977	2	0	2	11%	1926	10	68%	45%
1978	18	0	18	86%	1960	9	69%	44%
1979	12	0	12	58%	1972	9	70%	43%
1980	21	0	21	97%	1959	9	72%	43%
1981	8	0	8	39%	1925	9	73%	41%
1982	21	0	21	100%	1981	8	74%	39%
1983	21	0	21	100%	1961	8	75%	39%
1984	17	0	17	79%	1994	8	77%	38%
1985	13	0	13	62%	1949	8	78%	37%
1986	17	0	17	78%	1932	7	79%	35%
1987	3	0	3	15%	1930	7	80%	33%
1988	6	0	6	26%	1976	7	81%	32%
1989	11	0	11	54%	1931	7	83%	32%
1990	3	0	3	15%	1933	7	84%	32%
1991	4	0	4	18%	1955	7	85%	31%
1992	4	0	4	21%	1944	7	86%	31%
1993	14	0	14	68%	1939	6	88%	27%
1994	8	0	8	38%	1988	6	89%	26%
1995	16	0	16	76%	1929	5	90%	24%
1996	16	0	16	73%	1934	5	91%	24%
1997	18	0	18	83%	2001	5	93%	22%
1998	19	0	19	88%	1992	4	94%	21%
1999	15	0	15	69%	1991	4	95%	18%
2000	14	0	14	67%	1987	3	96%	15%
2001	5	0	5	22%	1990	3	98%	15%
2002	11	0	11	50%	1924	3	99%	14%
2003	14	0	14	68%	1977	2	100%	11%
Average	12	0	12	59%		12		59%
Maximum	21	0	21	100%		21		100%
Minimum	2	0	2	11%		2		11%

San Bernardino Valley MWD: Future Conditions

SWP Table A Deliveries for 2013 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	66	0	66	65%	1938	100	0%	97%
1923	58	5	63	61%	1983	96	1%	94%
1924	15	0	15	15%	1969	91	2%	89%
1925	42	0	42	41%	1998	90	4%	87%
1926	46	0	46	45%	1980	86	5%	84%
1927	68	0	68	66%	1958	82	6%	80%
1928	63	8	72	70%	1937	80	7%	78%
1929	25	6	31	30%	1997	80	9%	78%
1930	33	0	33	33%	1952	79	10%	77%
1931	33	0	33	32%	1974	79	11%	77%
1932	36	0	36	35%	1978	78	12%	76%
1933	33	0	33	32%	1941	78	14%	76%
1934	24	0	24	24%	1970	78	15%	76%
1935	65	0	65	63%	1967	77	16%	75%
1936	67	7	74	72%	1956	76	17%	74%
1937	72	8	80	78%	1999	76	19%	74%
1938	91	9	100	97%	1951	76	20%	74%
1939	37	11	48	47%	1943	74	21%	72%
1940	66	0	66	64%	1936	74	22%	72%
1941	75	4	78	76%	1985	74	23%	72%
1942	63	4	67	65%	1975	73	25%	71%
1943	70	5	74	72%	1946	72	26%	71%
1944	31	6	38	37%	1984	72	27%	70%
1945	68	0	68	66%	1928	72	28%	70%
1946	64	8	72	71%	1973	71	30%	70%
1947	51	6	57	56%	1982	71	31%	69%
1948	58	0	58	57%	1971	68	32%	67%
1949	38	0	38	37%	2000	68	33%	67%
1950	62	0	62	61%	1945	68	35%	66%
1951	72	4	76	74%	1927	68	36%	66%
1952	70	9	79	77%	1942	67	37%	65%
1953	49	7	57	55%	1996	67	38%	65%
1954	62	0	62	60%	1922	66	40%	65%
1955	32	2	34	34%	1940	66	41%	64%
1956	76	0	76	74%	1963	65	42%	63%
1957	46	9	56	54%	1979	65	43%	63%
1958	82	0	82	80%	1935	65	44%	63%
1959	44	7	51	49%	1965	65	46%	63%
1960	45	0	45	44%	1966	64	47%	63%
1961	45	0	45	44%	1964	64	48%	63%
1962	62	0	62	60%	1968	64	49%	62%
1963	63	2	65	63%	1993	63	51%	62%
1964	58	6	64	63%	1923	63	52%	61%

SWP Table A Deliveries for 2013 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
1965	64	0	65	63%	1950	62	53%	61%
1966	57	8	64	63%	1954	62	54%	60%
1967	75	2	77	75%	1995	62	56%	60%
1968	58	6	64	62%	1962	62	57%	60%
1969	91	0	91	89%	2002	61	58%	59%
1970	67	11	78	76%	1948	58	59%	57%
1971	60	8	68	67%	1947	57	60%	56%
1972	44	2	47	45%	1989	57	62%	56%
1973	71	0	71	70%	1953	57	63%	55%
1974	70	9	79	77%	1957	56	64%	54%
1975	64	9	73	71%	1959	51	65%	49%
1976	33	8	41	40%	1986	48	67%	47%
1977	11	0	11	11%	1939	48	68%	47%
1978	78	0	78	76%	1981	47	69%	46%
1979	55	9	65	63%	1972	47	70%	45%
1980	85	2	86	84%	1926	46	72%	45%
1981	40	7	47	46%	1994	45	73%	44%
1982	71	0	71	69%	1960	45	74%	44%
1983	88	8	96	94%	1961	45	75%	44%
1984	72	0	72	70%	2003	45	77%	44%
1985	65	9	74	72%	1925	42	78%	41%
1986	40	8	48	47%	1976	41	79%	40%
1987	16	6	22	21%	1949	38	80%	37%
1988	27	0	27	26%	1944	38	81%	37%
1989	57	0	57	56%	1932	36	83%	35%
1990	15	1	16	16%	1955	34	84%	34%
1991	18	0	18	18%	1930	33	85%	33%
1992	21	0	21	21%	1931	33	86%	32%
1993	63	0	63	62%	1933	33	88%	32%
1994	39	6	45	44%	1929	31	89%	30%
1995	62	0	62	60%	2001	30	90%	29%
1996	61	6	67	65%	1988	27	91%	26%
1997	72	8	80	78%	1934	24	93%	24%
1998	80	9	90	87%	1987	22	94%	21%
1999	66	10	76	74%	1992	21	95%	21%
2000	64	5	68	67%	1991	18	96%	18%
2001	23	7	30	29%	1990	16	98%	16%
2002	61	0	61	59%	1924	15	99%	15%
2003	44	0	45	44%	1977	11	100%	11%
Average	55	4	58	57%		58		57%
Maximum	91	11	100	97%		100		97%
Minimum	11	0	11	11%		11		11%

San Gabriel Valley MWD: Future Conditions

SWP Table A Deliveries for 2013 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	21	0	21	73%	1983	29	0%	100%
1923	16	0	16	57%	1982	29	1%	100%
1924	4	0	4	14%	1938	29	2%	100%
1925	12	0	12	41%	1958	29	4%	100%
1926	13	0	13	45%	1980	28	5%	97%
1927	21	0	21	75%	1969	28	6%	96%
1928	19	0	19	68%	1952	26	7%	91%
1929	7	0	7	24%	1998	25	9%	88%
1930	9	0	9	33%	1978	25	10%	86%
1931	9	0	9	32%	1956	24	11%	84%
1932	10	0	10	35%	1997	24	12%	83%
1933	9	0	9	32%	1941	24	14%	82%
1934	7	0	7	24%	1951	23	15%	79%
1935	19	0	19	66%	1984	23	16%	79%
1936	21	0	21	74%	1967	23	17%	79%
1937	23	0	23	79%	1937	23	19%	79%
1938	29	0	29	100%	1973	23	20%	78%
1939	10	0	10	36%	1986	22	21%	77%
1940	20	0	20	70%	1943	22	22%	77%
1941	24	0	24	82%	1974	22	23%	77%
1942	20	0	20	68%	1945	22	25%	75%
1943	22	0	22	77%	1927	21	26%	75%
1944	9	0	9	31%	1936	21	27%	74%
1945	22	0	22	75%	1970	21	28%	73%
1946	20	0	20	68%	1996	21	30%	73%
1947	15	0	15	54%	1922	21	31%	73%
1948	17	0	17	58%	1985	20	32%	71%
1949	11	0	11	37%	1975	20	33%	71%
1950	19	0	19	65%	1940	20	35%	70%
1951	23	0	23	79%	1965	20	36%	70%
1952	26	0	26	91%	1995	20	37%	70%
1953	16	0	16	55%	1999	20	38%	69%
1954	18	0	18	63%	1946	20	40%	68%
1955	9	0	9	31%	1993	20	41%	68%
1956	24	0	24	84%	1942	20	42%	68%
1957	13	0	13	45%	1963	19	43%	68%
1958	29	0	29	100%	1928	19	44%	68%
1959	12	0	12	43%	1935	19	46%	66%
1960	13	0	13	44%	2000	19	47%	66%
1961	13	0	13	44%	1950	19	48%	65%
1962	18	0	18	62%	1954	18	49%	63%
1963	19	0	19	68%	1962	18	51%	62%
1964	15	0	15	54%	2002	18	52%	61%

SWP Table A Deliveries for 2013 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
1965	20	0	20	70%	1971	18	53%	61%
1966	15	0	15	53%	1948	17	54%	58%
1967	23	0	23	79%	1979	17	56%	58%
1968	16	0	16	57%	1923	16	57%	57%
1969	28	0	28	96%	1968	16	58%	57%
1970	21	0	21	73%	1989	16	59%	56%
1971	18	0	18	61%	1953	16	60%	55%
1972	12	0	12	43%	1947	15	62%	54%
1973	23	0	23	78%	1964	15	63%	54%
1974	22	0	22	77%	1966	15	64%	53%
1975	20	0	20	71%	2003	14	65%	49%
1976	9	0	9	32%	1957	13	67%	45%
1977	3	0	3	11%	1926	13	68%	45%
1978	25	0	25	86%	1960	13	69%	44%
1979	17	0	17	58%	1961	13	70%	44%
1980	28	0	28	97%	1972	12	72%	43%
1981	11	0	11	39%	1959	12	73%	43%
1982	29	0	29	100%	1925	12	74%	41%
1983	29	0	29	100%	1981	11	75%	39%
1984	23	0	23	79%	1949	11	77%	37%
1985	20	0	20	71%	1939	10	78%	36%
1986	22	0	22	77%	1932	10	79%	35%
1987	4	0	4	15%	1994	10	80%	35%
1988	8	0	8	26%	1930	9	81%	33%
1989	16	0	16	56%	1976	9	83%	32%
1990	4	0	4	15%	1931	9	84%	32%
1991	5	0	5	18%	1933	9	85%	32%
1992	6	0	6	21%	1955	9	86%	31%
1993	20	0	20	68%	1944	9	88%	31%
1994	10	0	10	35%	1988	8	89%	26%
1995	20	0	20	70%	1929	7	90%	24%
1996	21	0	21	73%	1934	7	91%	24%
1997	24	0	24	83%	2001	6	93%	22%
1998	25	0	25	88%	1992	6	94%	21%
1999	20	0	20	69%	1991	5	95%	18%
2000	19	0	19	66%	1987	4	96%	15%
2001	6	0	6	22%	1990	4	98%	15%
2002	18	0	18	61%	1924	4	99%	14%
2003	14	0	14	49%	1977	3	100%	11%
Average	17	0	17	58%		17		58%
Maximum	29	0	29	100%		29		100%
Minimum	3	0	3	11%		3		11%

San Geronio Pass WA: Future Conditions

SWP Table A Deliveries for 2013 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	13	0	13	73%	1938	17	0%	100%
1923	10	0	10	57%	1982	16	1%	95%
1924	2	0	2	14%	1998	15	2%	87%
1925	7	0	7	41%	1952	15	4%	87%
1926	8	0	8	45%	1978	15	5%	86%
1927	13	0	13	75%	1943	15	6%	86%
1928	12	0	12	68%	1956	14	7%	84%
1929	4	0	4	24%	1997	14	9%	83%
1930	6	0	6	33%	1941	14	10%	82%
1931	6	0	6	32%	1951	14	11%	79%
1932	6	0	6	35%	1984	14	12%	79%
1933	5	0	5	32%	1937	14	14%	79%
1934	4	0	4	24%	1973	14	15%	78%
1935	11	0	11	65%	1974	13	16%	77%
1936	12	0	12	72%	1945	13	17%	75%
1937	14	0	14	79%	1927	13	19%	75%
1938	17	0	17	100%	1970	13	20%	73%
1939	5	0	5	28%	1996	13	21%	73%
1940	12	0	12	70%	1922	13	22%	73%
1941	14	0	14	82%	1936	12	23%	72%
1942	12	0	12	68%	1985	12	25%	71%
1943	15	0	15	86%	1975	12	26%	71%
1944	5	0	5	31%	1940	12	27%	70%
1945	13	0	13	75%	1965	12	28%	70%
1946	12	0	12	68%	1983	12	30%	69%
1947	9	0	9	54%	1999	12	31%	69%
1948	10	0	10	58%	2000	12	32%	69%
1949	6	0	6	37%	1980	12	33%	68%
1950	11	0	11	65%	1946	12	35%	68%
1951	14	0	14	79%	1993	12	36%	68%
1952	15	0	15	87%	1942	12	37%	68%
1953	8	0	8	47%	1963	12	38%	68%
1954	11	0	11	63%	1928	12	40%	68%
1955	5	0	5	31%	2002	11	41%	66%
1956	14	0	14	84%	1995	11	42%	65%
1957	8	0	8	45%	1935	11	43%	65%
1958	10	0	10	55%	1969	11	44%	65%
1959	7	0	7	43%	1950	11	46%	65%
1960	8	0	8	44%	1954	11	47%	63%
1961	8	0	8	44%	1962	11	48%	62%
1962	11	0	11	62%	1971	11	49%	61%
1963	12	0	12	68%	1967	10	51%	61%
1964	10	0	10	59%	1964	10	52%	59%

SWP Table A Deliveries for 2013 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
1965	12	0	12	70%	1948	10	53%	58%
1966	10	0	10	57%	1979	10	54%	58%
1967	10	0	10	61%	1923	10	56%	57%
1968	10	0	10	57%	1968	10	57%	57%
1969	11	0	11	65%	1966	10	58%	57%
1970	13	0	13	73%	1958	10	59%	55%
1971	11	0	11	61%	1986	9	60%	54%
1972	7	0	7	43%	1947	9	62%	54%
1973	14	0	14	78%	1989	9	63%	53%
1974	13	0	13	77%	1953	8	64%	47%
1975	12	0	12	71%	1957	8	65%	45%
1976	6	0	6	32%	1926	8	67%	45%
1977	2	0	2	11%	1960	8	68%	44%
1978	15	0	15	86%	1961	8	69%	44%
1979	10	0	10	58%	1972	7	70%	43%
1980	12	0	12	68%	1959	7	72%	43%
1981	7	0	7	39%	1925	7	73%	41%
1982	16	0	16	95%	2003	7	74%	39%
1983	12	0	12	69%	1981	7	75%	39%
1984	14	0	14	79%	1994	7	77%	38%
1985	12	0	12	71%	1949	6	78%	37%
1986	9	0	9	54%	1932	6	79%	35%
1987	3	0	3	15%	1930	6	80%	33%
1988	5	0	5	26%	1976	6	81%	32%
1989	9	0	9	53%	1931	6	83%	32%
1990	3	0	3	15%	1933	5	84%	32%
1991	3	0	3	18%	1955	5	85%	31%
1992	4	0	4	21%	1944	5	86%	31%
1993	12	0	12	68%	1939	5	88%	28%
1994	7	0	7	38%	1988	5	89%	26%
1995	11	0	11	65%	1929	4	90%	24%
1996	13	0	13	73%	1934	4	91%	24%
1997	14	0	14	83%	2001	4	93%	22%
1998	15	0	15	87%	1992	4	94%	21%
1999	12	0	12	69%	1991	3	95%	18%
2000	12	0	12	69%	1987	3	96%	15%
2001	4	0	4	22%	1990	3	98%	15%
2002	11	0	11	66%	1924	2	99%	14%
2003	7	0	7	39%	1977	2	100%	11%
Average	10	0	10	56%		10		56%
Maximum	17	0	17	100%		17		100%
Minimum	2	0	2	11%		2		11%

San Luis Obispo County FC&WCD: Future Conditions

SWP Table A Deliveries for 2013 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	18	0	18	73%	1969	25	0%	100%
1923	14	0	14	57%	1982	25	1%	100%
1924	4	0	4	14%	1983	25	2%	100%
1925	10	0	10	41%	1938	25	4%	100%
1926	11	0	11	45%	1958	25	5%	100%
1927	19	0	19	75%	1980	24	6%	97%
1928	17	0	17	68%	1952	23	7%	91%
1929	6	0	6	24%	1998	22	9%	88%
1930	8	0	8	33%	1978	21	10%	86%
1931	8	0	8	32%	1943	21	11%	86%
1932	9	0	9	35%	1995	21	12%	85%
1933	8	0	8	32%	1956	21	14%	84%
1934	6	0	6	24%	1997	21	15%	83%
1935	17	0	17	70%	1967	21	16%	82%
1936	18	0	18	74%	1941	20	17%	82%
1937	20	0	20	79%	1986	20	19%	80%
1938	25	0	25	100%	1951	20	20%	79%
1939	9	0	9	36%	1984	20	21%	79%
1940	18	0	18	70%	1937	20	22%	79%
1941	20	0	20	82%	1973	20	23%	78%
1942	17	0	17	68%	1974	19	25%	77%
1943	21	0	21	86%	1945	19	26%	75%
1944	8	0	8	31%	1927	19	27%	75%
1945	19	0	19	75%	1936	18	28%	74%
1946	17	0	17	68%	1970	18	30%	73%
1947	13	0	13	54%	1996	18	31%	73%
1948	15	0	15	58%	1922	18	32%	73%
1949	9	0	9	37%	1985	18	33%	71%
1950	16	0	16	65%	1975	18	35%	71%
1951	20	0	20	79%	1940	18	36%	70%
1952	23	0	23	91%	1965	18	37%	70%
1953	14	0	14	55%	1935	17	38%	70%
1954	16	0	16	63%	1999	17	40%	69%
1955	8	0	8	31%	2000	17	41%	69%
1956	21	0	21	84%	1946	17	42%	68%
1957	11	0	11	45%	1993	17	43%	68%
1958	25	0	25	100%	1942	17	44%	68%
1959	11	0	11	43%	1963	17	46%	68%
1960	11	0	11	44%	2003	17	47%	68%
1961	11	0	11	44%	1928	17	48%	68%
1962	15	0	15	62%	1950	16	49%	65%
1963	17	0	17	68%	1954	16	51%	63%
1964	15	0	15	59%	1962	15	52%	62%

SWP Table A Deliveries for 2013 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
1965	18	0	18	70%	1971	15	53%	61%
1966	14	0	14	57%	1964	15	54%	59%
1967	21	0	21	82%	1948	15	56%	58%
1968	14	0	14	57%	1979	14	57%	58%
1969	25	0	25	100%	1923	14	58%	57%
1970	18	0	18	73%	1968	14	59%	57%
1971	15	0	15	61%	2002	14	60%	57%
1972	11	0	11	43%	1966	14	62%	57%
1973	20	0	20	78%	1953	14	63%	55%
1974	19	0	19	77%	1989	13	64%	54%
1975	18	0	18	71%	1947	13	65%	54%
1976	8	0	8	32%	1957	11	67%	45%
1977	3	0	3	11%	1926	11	68%	45%
1978	21	0	21	86%	1960	11	69%	44%
1979	14	0	14	58%	1961	11	70%	44%
1980	24	0	24	97%	1972	11	72%	43%
1981	10	0	10	39%	1959	11	73%	43%
1982	25	0	25	100%	1925	10	74%	41%
1983	25	0	25	100%	1981	10	75%	39%
1984	20	0	20	79%	1994	9	77%	38%
1985	18	0	18	71%	1949	9	78%	37%
1986	20	0	20	80%	1939	9	79%	36%
1987	4	0	4	15%	1932	9	80%	35%
1988	7	0	7	26%	1930	8	81%	33%
1989	13	0	13	54%	1976	8	83%	32%
1990	4	0	4	15%	1931	8	84%	32%
1991	4	0	4	18%	1933	8	85%	32%
1992	5	0	5	21%	1955	8	86%	31%
1993	17	0	17	68%	1944	8	88%	31%
1994	9	0	9	38%	1988	7	89%	26%
1995	21	0	21	85%	1929	6	90%	24%
1996	18	0	18	73%	1934	6	91%	24%
1997	21	0	21	83%	2001	6	93%	22%
1998	22	0	22	88%	1992	5	94%	21%
1999	17	0	17	69%	1991	4	95%	18%
2000	17	0	17	69%	1987	4	96%	15%
2001	6	0	6	22%	1990	4	98%	15%
2002	14	0	14	57%	1924	4	99%	14%
2003	17	0	17	68%	1977	3	100%	11%
Average	15	0	15	59%		15		59%
Maximum	25	0	25	100%		25		100%
Minimum	3	0	3	11%		3		11%

Santa Barbara County FC&WCD: Future Conditions

SWP Table A Deliveries for 2013 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	33	0	33	73%	1982	45	0%	100%
1923	26	0	26	57%	1983	45	1%	100%
1924	6	0	6	14%	1969	45	2%	100%
1925	19	0	19	41%	1938	45	4%	100%
1926	20	0	20	45%	1958	45	5%	100%
1927	34	0	34	75%	1980	44	6%	97%
1928	31	0	31	68%	1952	42	7%	91%
1929	11	0	11	24%	1978	39	9%	86%
1930	15	0	15	33%	1956	38	10%	84%
1931	15	0	15	32%	1998	38	11%	83%
1932	16	0	16	35%	1997	38	12%	83%
1933	14	0	14	32%	1967	37	14%	82%
1934	11	0	11	24%	1943	37	15%	81%
1935	32	0	32	70%	1951	36	16%	79%
1936	34	0	34	74%	1984	36	17%	79%
1937	36	0	36	79%	1937	36	19%	79%
1938	45	0	45	100%	1973	36	20%	78%
1939	12	0	12	25%	1986	35	21%	77%
1940	30	0	30	66%	1974	35	22%	77%
1941	34	0	34	74%	1945	34	23%	75%
1942	31	0	31	68%	1927	34	25%	75%
1943	37	0	37	81%	1941	34	26%	74%
1944	14	0	14	31%	1936	34	27%	74%
1945	34	0	34	75%	1970	33	28%	73%
1946	31	0	31	68%	1996	33	30%	73%
1947	23	0	23	50%	1922	33	31%	73%
1948	27	0	27	58%	1985	32	32%	71%
1949	17	0	17	37%	1975	32	33%	71%
1950	29	0	29	65%	1965	32	35%	70%
1951	36	0	36	79%	1935	32	36%	70%
1952	42	0	42	91%	1999	31	37%	69%
1953	25	0	25	55%	1946	31	38%	68%
1954	29	0	29	63%	1993	31	40%	68%
1955	14	0	14	31%	1995	31	41%	68%
1956	38	0	38	84%	1942	31	42%	68%
1957	21	0	21	45%	1963	31	43%	68%
1958	45	0	45	100%	1928	31	44%	68%
1959	19	0	19	43%	1940	30	46%	66%
1960	20	0	20	44%	2000	30	47%	65%
1961	20	0	20	44%	1950	29	48%	65%
1962	28	0	28	62%	2003	29	49%	64%
1963	31	0	31	68%	1954	29	51%	63%
1964	27	0	27	59%	1962	28	52%	62%

SWP Table A Deliveries for 2013 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
1965	32	0	32	70%	1971	28	53%	61%
1966	26	0	26	57%	1964	27	54%	59%
1967	37	0	37	82%	1948	27	56%	58%
1968	26	0	26	57%	1979	26	57%	58%
1969	45	0	45	100%	1923	26	58%	57%
1970	33	0	33	73%	1968	26	59%	57%
1971	28	0	28	61%	1966	26	60%	57%
1972	20	0	20	43%	1953	25	62%	55%
1973	36	0	36	78%	1989	25	63%	54%
1974	35	0	35	77%	2002	24	64%	53%
1975	32	0	32	71%	1947	23	65%	50%
1976	15	0	15	32%	1957	21	67%	45%
1977	5	0	5	11%	1926	20	68%	45%
1978	39	0	39	86%	1960	20	69%	44%
1979	26	0	26	58%	1961	20	70%	44%
1980	44	0	44	97%	1972	20	72%	43%
1981	18	0	18	39%	1959	19	73%	43%
1982	45	0	45	100%	1925	19	74%	41%
1983	45	0	45	100%	1981	18	75%	39%
1984	36	0	36	79%	1994	17	77%	38%
1985	32	0	32	71%	1949	17	78%	37%
1986	35	0	35	77%	1932	16	79%	35%
1987	7	0	7	15%	1930	15	80%	33%
1988	12	0	12	26%	1976	15	81%	32%
1989	25	0	25	54%	1931	15	83%	32%
1990	7	0	7	15%	1933	14	84%	32%
1991	8	0	8	18%	1955	14	85%	31%
1992	9	0	9	21%	1944	14	86%	31%
1993	31	0	31	68%	1988	12	88%	26%
1994	17	0	17	38%	1939	12	89%	25%
1995	31	0	31	68%	1929	11	90%	24%
1996	33	0	33	73%	1934	11	91%	24%
1997	38	0	38	83%	2001	10	93%	22%
1998	38	0	38	83%	1992	9	94%	21%
1999	31	0	31	69%	1991	8	95%	18%
2000	30	0	30	65%	1987	7	96%	15%
2001	10	0	10	22%	1990	7	98%	15%
2002	24	0	24	53%	1924	6	99%	14%
2003	29	0	29	64%	1977	5	100%	11%
Average	27	0	27	58%		27		58%
Maximum	45	0	45	100%		45		100%
Minimum	5	0	5	11%		5		11%

Santa Clara Valley WD: Future Conditions

SWP Table A Deliveries for 2013 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	73	0	73	73%	1983	99	0%	99%
1923	57	0	57	57%	1982	97	1%	97%
1924	14	0	14	14%	1969	97	2%	97%
1925	41	0	41	41%	1938	96	4%	96%
1926	45	0	45	45%	1980	95	5%	95%
1927	75	0	75	75%	1958	94	6%	94%
1928	68	0	68	68%	1995	93	7%	93%
1929	24	0	24	24%	1952	91	9%	91%
1930	33	0	33	33%	1998	88	10%	88%
1931	32	0	32	32%	1978	86	11%	86%
1932	35	0	35	35%	1943	86	12%	86%
1933	32	0	32	32%	1956	84	14%	84%
1934	24	0	24	24%	1997	83	15%	83%
1935	70	0	70	70%	1941	82	16%	82%
1936	74	0	74	74%	1967	82	17%	82%
1937	79	0	79	79%	1986	80	19%	80%
1938	96	0	96	96%	1951	79	20%	79%
1939	36	0	36	36%	1984	79	21%	79%
1940	70	0	70	70%	1937	79	22%	79%
1941	82	0	82	82%	1973	78	23%	78%
1942	68	0	68	68%	1974	77	25%	77%
1943	86	0	86	86%	1945	75	26%	75%
1944	31	0	31	31%	1927	75	27%	75%
1945	75	0	75	75%	1936	74	28%	74%
1946	68	0	68	68%	1970	73	30%	73%
1947	54	0	54	54%	1996	73	31%	73%
1948	58	0	58	58%	1922	73	32%	73%
1949	37	0	37	37%	1985	71	33%	71%
1950	65	0	65	65%	1975	71	35%	71%
1951	79	0	79	79%	1940	70	36%	70%
1952	91	0	91	91%	1965	70	37%	70%
1953	55	0	55	55%	1935	70	38%	70%
1954	63	0	63	63%	1999	69	40%	69%
1955	31	0	31	31%	2000	69	41%	69%
1956	84	0	84	84%	1946	68	42%	68%
1957	45	0	45	45%	1993	68	43%	68%
1958	94	0	94	94%	1942	68	44%	68%
1959	43	0	43	43%	1963	68	46%	68%
1960	44	0	44	44%	1928	68	47%	68%
1961	44	0	44	44%	2003	66	48%	66%
1962	62	0	62	62%	2002	66	49%	66%
1963	68	0	68	68%	1950	65	51%	65%
1964	59	0	59	59%	1954	63	52%	63%

SWP Table A Deliveries for 2013 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
1965	70	0	70	70%	1962	62	53%	62%
1966	57	0	57	57%	1971	61	54%	61%
1967	82	0	82	82%	1964	59	56%	59%
1968	57	0	57	57%	1948	58	57%	58%
1969	97	0	97	97%	1979	58	58%	58%
1970	73	0	73	73%	1923	57	59%	57%
1971	61	0	61	61%	1968	57	60%	57%
1972	43	0	43	43%	1966	57	62%	57%
1973	78	0	78	78%	1989	56	63%	56%
1974	77	0	77	77%	1953	55	64%	55%
1975	71	0	71	71%	1947	54	65%	54%
1976	32	0	32	32%	1957	45	67%	45%
1977	11	0	11	11%	1926	45	68%	45%
1978	86	0	86	86%	1960	44	69%	44%
1979	58	0	58	58%	1961	44	70%	44%
1980	95	0	95	95%	1972	43	72%	43%
1981	39	0	39	39%	1959	43	73%	43%
1982	97	0	97	97%	1925	41	74%	41%
1983	99	0	99	99%	1981	39	75%	39%
1984	79	0	79	79%	1994	38	77%	38%
1985	71	0	71	71%	1949	37	78%	37%
1986	80	0	80	80%	1939	36	79%	36%
1987	15	0	15	15%	1932	35	80%	35%
1988	26	0	26	26%	1930	33	81%	33%
1989	56	0	56	56%	1976	32	83%	32%
1990	15	0	15	15%	1931	32	84%	32%
1991	18	0	18	18%	1933	32	85%	32%
1992	21	0	21	21%	1955	31	86%	31%
1993	68	0	68	68%	1944	31	88%	31%
1994	38	0	38	38%	1988	26	89%	26%
1995	93	0	93	93%	1929	24	90%	24%
1996	73	0	73	73%	1934	24	91%	24%
1997	83	0	83	83%	2001	22	93%	22%
1998	88	0	88	88%	1992	21	94%	21%
1999	69	0	69	69%	1991	18	95%	18%
2000	69	0	69	69%	1987	15	96%	15%
2001	22	0	22	22%	1990	15	98%	15%
2002	66	0	66	66%	1924	14	99%	14%
2003	66	0	66	66%	1977	11	100%	11%
Average	59	0	59	59%		59		59%
Maximum	99	0	99	99%		99		99%
Minimum	11	0	11	11%		11		11%

Solano County WA: Future Conditions

SWP Table A Deliveries for 2013 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	35	0	35	73%	1983	48	0%	100%
1923	27	0	27	57%	1938	48	1%	100%
1924	7	0	7	14%	1969	48	2%	100%
1925	20	0	20	41%	1982	48	4%	100%
1926	21	0	21	45%	1958	47	5%	100%
1927	35	0	35	75%	1980	46	6%	97%
1928	32	0	32	68%	1995	44	7%	93%
1929	11	0	11	24%	1952	43	9%	91%
1930	15	0	15	33%	1998	42	10%	88%
1931	15	0	15	32%	1978	41	11%	86%
1932	17	0	17	35%	1943	41	12%	86%
1933	15	0	15	32%	1956	40	14%	84%
1934	11	0	11	24%	1997	39	15%	83%
1935	33	0	33	70%	1967	39	16%	82%
1936	35	0	35	74%	1941	39	17%	82%
1937	37	0	37	79%	1986	38	19%	80%
1938	48	0	48	100%	1951	38	20%	79%
1939	17	0	17	36%	1984	37	21%	79%
1940	33	0	33	70%	1937	37	22%	79%
1941	39	0	39	82%	1973	37	23%	78%
1942	32	0	32	68%	1974	36	25%	77%
1943	41	0	41	86%	1945	35	26%	75%
1944	15	0	15	31%	1927	35	27%	75%
1945	35	0	35	75%	1936	35	28%	74%
1946	32	0	32	68%	1970	35	30%	73%
1947	25	0	25	54%	1996	35	31%	73%
1948	28	0	28	58%	1922	35	32%	73%
1949	17	0	17	37%	1985	34	33%	71%
1950	31	0	31	65%	1975	34	35%	71%
1951	38	0	38	79%	1940	33	36%	70%
1952	43	0	43	91%	1965	33	37%	70%
1953	26	0	26	55%	1935	33	38%	70%
1954	30	0	30	63%	1999	33	40%	69%
1955	15	0	15	31%	2000	33	41%	69%
1956	40	0	40	84%	1946	32	42%	68%
1957	21	0	21	45%	1993	32	43%	68%
1958	47	0	47	100%	1942	32	44%	68%
1959	20	0	20	43%	1963	32	46%	68%
1960	21	0	21	44%	1928	32	47%	68%
1961	21	0	21	44%	2002	31	48%	66%
1962	29	0	29	62%	1950	31	49%	65%
1963	32	0	32	68%	1954	30	51%	63%
1964	28	0	28	59%	1962	29	52%	62%

SWP Table A Deliveries for 2013 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
1965	33	0	33	70%	1971	29	53%	61%
1966	27	0	27	57%	2003	28	54%	60%
1967	39	0	39	82%	1964	28	56%	59%
1968	27	0	27	57%	1948	28	57%	58%
1969	48	0	48	100%	1979	27	58%	58%
1970	35	0	35	73%	1923	27	59%	57%
1971	29	0	29	61%	1968	27	60%	57%
1972	21	0	21	43%	1966	27	62%	57%
1973	37	0	37	78%	1989	27	63%	56%
1974	36	0	36	77%	1953	26	64%	55%
1975	34	0	34	71%	1947	25	65%	54%
1976	15	0	15	32%	1957	21	67%	45%
1977	5	0	5	11%	1926	21	68%	45%
1978	41	0	41	86%	1960	21	69%	44%
1979	27	0	27	58%	1961	21	70%	44%
1980	46	0	46	97%	1972	21	72%	43%
1981	19	0	19	39%	1959	20	73%	43%
1982	48	0	48	100%	1925	20	74%	41%
1983	48	0	48	100%	1981	19	75%	39%
1984	37	0	37	79%	1994	18	77%	38%
1985	34	0	34	71%	1949	17	78%	37%
1986	38	0	38	80%	1939	17	79%	36%
1987	7	0	7	15%	1932	17	80%	35%
1988	12	0	12	26%	1930	15	81%	33%
1989	27	0	27	56%	1976	15	83%	32%
1990	7	0	7	15%	1931	15	84%	32%
1991	8	0	8	18%	1933	15	85%	32%
1992	10	0	10	21%	1955	15	86%	31%
1993	32	0	32	68%	1944	15	88%	31%
1994	18	0	18	38%	1988	12	89%	26%
1995	44	0	44	93%	1929	11	90%	24%
1996	35	0	35	73%	1934	11	91%	24%
1997	39	0	39	83%	2001	11	93%	22%
1998	42	0	42	88%	1992	10	94%	21%
1999	33	0	33	69%	1991	8	95%	18%
2000	33	0	33	69%	1987	7	96%	15%
2001	11	0	11	22%	1990	7	98%	15%
2002	31	0	31	66%	1924	7	99%	14%
2003	28	0	28	60%	1977	5	100%	11%
Average	28	0	28	59%		28		59%
Maximum	48	0	48	100%		48		100%
Minimum	5	0	5	11%		5		11%

Tulare Lake Basin WSD: Future Conditions

SWP Table A Deliveries for 2013 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	65	0	65	73%	1969	89	0%	100%
1923	51	0	51	57%	1938	89	1%	100%
1924	13	0	13	14%	1983	89	2%	100%
1925	37	0	37	41%	1982	89	4%	100%
1926	40	0	40	45%	1958	89	5%	100%
1927	66	0	66	75%	1980	86	6%	97%
1928	60	0	60	68%	1952	81	7%	91%
1929	21	0	21	24%	1978	76	9%	86%
1930	29	0	29	33%	1956	74	10%	84%
1931	29	0	29	32%	1997	73	11%	83%
1932	31	0	31	35%	1998	73	12%	82%
1933	28	0	28	32%	1967	73	14%	82%
1934	21	0	21	24%	1941	73	15%	82%
1935	56	0	56	63%	1951	70	16%	79%
1936	59	0	59	67%	1984	70	17%	79%
1937	70	0	70	79%	1937	70	19%	79%
1938	89	0	89	100%	1943	70	20%	79%
1939	25	0	25	29%	1973	70	21%	78%
1940	63	0	63	70%	1974	68	22%	77%
1941	73	0	73	82%	1945	66	23%	75%
1942	60	0	60	68%	1927	66	25%	75%
1943	70	0	70	79%	1970	65	26%	73%
1944	27	0	27	31%	1996	65	27%	73%
1945	66	0	66	75%	1922	65	28%	73%
1946	61	0	61	68%	1985	63	30%	71%
1947	42	0	42	48%	1975	63	31%	71%
1948	52	0	52	58%	1940	63	32%	70%
1949	33	0	33	37%	1965	63	33%	70%
1950	58	0	58	65%	1999	61	35%	69%
1951	70	0	70	79%	1986	61	36%	68%
1952	81	0	81	91%	1946	61	37%	68%
1953	49	0	49	55%	1993	60	38%	68%
1954	56	0	56	63%	1942	60	40%	68%
1955	28	0	28	31%	1963	60	41%	68%
1956	74	0	74	84%	1928	60	42%	68%
1957	40	0	40	45%	2003	60	43%	67%
1958	89	0	89	100%	1936	59	44%	67%
1959	38	0	38	43%	1950	58	46%	65%
1960	39	0	39	44%	1995	57	47%	64%
1961	39	0	39	44%	1954	56	48%	63%
1962	55	0	55	62%	1935	56	49%	63%
1963	60	0	60	68%	2000	55	51%	62%
1964	52	0	52	59%	1962	55	52%	62%

SWP Table A Deliveries for 2013 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
1965	63	0	63	70%	1971	54	53%	61%
1966	51	0	51	57%	1964	52	54%	59%
1967	73	0	73	82%	1948	52	56%	58%
1968	51	0	51	57%	1979	51	57%	58%
1969	89	0	89	100%	1923	51	58%	57%
1970	65	0	65	73%	1968	51	59%	57%
1971	54	0	54	61%	1966	51	60%	57%
1972	38	0	38	43%	1953	49	62%	55%
1973	70	0	70	78%	1989	45	63%	51%
1974	68	0	68	77%	1947	42	64%	48%
1975	63	0	63	71%	2002	40	65%	45%
1976	29	0	29	32%	1957	40	67%	45%
1977	10	0	10	11%	1926	40	68%	45%
1978	76	0	76	86%	1960	39	69%	44%
1979	51	0	51	58%	1961	39	70%	44%
1980	86	0	86	97%	1972	38	72%	43%
1981	35	0	35	39%	1959	38	73%	43%
1982	89	0	89	100%	1925	37	74%	41%
1983	89	0	89	100%	1981	35	75%	39%
1984	70	0	70	79%	1994	34	77%	38%
1985	63	0	63	71%	1949	33	78%	37%
1986	61	0	61	68%	1932	31	79%	35%
1987	14	0	14	15%	1930	29	80%	33%
1988	23	0	23	26%	1976	29	81%	32%
1989	45	0	45	51%	1931	29	83%	32%
1990	13	0	13	15%	1933	28	84%	32%
1991	16	0	16	18%	1955	28	85%	31%
1992	18	0	18	21%	1944	27	86%	31%
1993	60	0	60	68%	1939	25	88%	29%
1994	34	0	34	38%	1988	23	89%	26%
1995	57	0	57	64%	1929	21	90%	24%
1996	65	0	65	73%	1934	21	91%	24%
1997	73	0	73	83%	2001	20	93%	22%
1998	73	0	73	82%	1992	18	94%	21%
1999	61	0	61	69%	1991	16	95%	18%
2000	55	0	55	62%	1987	14	96%	15%
2001	20	0	20	22%	1990	13	98%	15%
2002	40	0	40	45%	1924	13	99%	14%
2003	60	0	60	67%	1977	10	100%	11%
Average	52	0	52	58%		52		58%
Maximum	89	0	89	100%		89		100%
Minimum	10	0	10	11%		10		11%

Ventura County WPD: Future Conditions

SWP Table A Deliveries for 2013 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	15	0	15	73%	1983	20	0%	100%
1923	11	0	11	57%	1969	20	1%	100%
1924	3	0	3	14%	1982	20	2%	100%
1925	8	0	8	41%	1938	19	4%	95%
1926	9	0	9	45%	1958	19	5%	93%
1927	15	0	15	75%	1980	18	6%	91%
1928	14	0	14	68%	1998	18	7%	88%
1929	4	0	4	22%	1995	17	9%	87%
1930	7	0	7	33%	1978	17	10%	86%
1931	6	0	6	29%	1956	17	11%	84%
1932	7	0	7	35%	1997	17	12%	83%
1933	6	0	6	29%	1967	16	14%	82%
1934	5	0	5	24%	1941	16	15%	82%
1935	13	0	13	65%	1952	16	16%	81%
1936	14	0	14	69%	1951	16	17%	79%
1937	16	0	16	79%	1984	16	19%	79%
1938	19	0	19	95%	1937	16	20%	79%
1939	6	0	6	32%	1973	16	21%	78%
1940	14	0	14	70%	1974	15	22%	77%
1941	16	0	16	82%	1943	15	23%	76%
1942	14	0	14	68%	1945	15	25%	75%
1943	15	0	15	76%	1927	15	26%	75%
1944	6	0	6	31%	1970	15	27%	73%
1945	15	0	15	75%	1996	15	28%	73%
1946	14	0	14	68%	1922	15	30%	73%
1947	10	0	10	51%	1975	14	31%	71%
1948	10	0	10	52%	1940	14	32%	70%
1949	7	0	7	37%	1965	14	33%	70%
1950	13	0	13	65%	1999	14	35%	69%
1951	16	0	16	79%	2000	14	36%	69%
1952	16	0	16	81%	1936	14	37%	69%
1953	9	0	9	46%	1946	14	38%	68%
1954	13	0	13	63%	1993	14	40%	68%
1955	6	0	6	31%	1942	14	41%	68%
1956	17	0	17	84%	1963	14	42%	68%
1957	9	0	9	45%	1928	14	43%	68%
1958	19	0	19	93%	1986	13	44%	67%
1959	8	0	8	40%	1985	13	46%	65%
1960	9	0	9	44%	1950	13	47%	65%
1961	9	0	9	44%	1935	13	48%	65%
1962	12	0	12	62%	1954	13	49%	63%
1963	14	0	14	68%	1962	12	51%	62%
1964	12	0	12	59%	1964	12	52%	59%

SWP Table A Deliveries for 2013 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
1965	14	0	14	70%	1979	12	53%	58%
1966	11	0	11	53%	1923	11	54%	57%
1967	16	0	16	82%	1968	11	56%	57%
1968	11	0	11	57%	2003	11	57%	57%
1969	20	0	20	100%	1989	11	58%	56%
1970	15	0	15	73%	1971	11	59%	56%
1971	11	0	11	56%	2002	11	60%	53%
1972	9	0	9	43%	1966	11	62%	53%
1973	16	0	16	78%	1948	10	63%	52%
1974	15	0	15	77%	1947	10	64%	51%
1975	14	0	14	71%	1953	9	65%	46%
1976	6	0	6	32%	1957	9	67%	45%
1977	2	0	2	11%	1926	9	68%	45%
1978	17	0	17	86%	1960	9	69%	44%
1979	12	0	12	58%	1961	9	70%	44%
1980	18	0	18	91%	1972	9	72%	43%
1981	8	0	8	39%	1925	8	73%	41%
1982	20	0	20	100%	1959	8	74%	40%
1983	20	0	20	100%	1981	8	75%	39%
1984	16	0	16	79%	1949	7	77%	37%
1985	13	0	13	65%	1932	7	78%	35%
1986	13	0	13	67%	1930	7	79%	33%
1987	3	0	3	15%	1976	6	80%	32%
1988	5	0	5	26%	1939	6	81%	32%
1989	11	0	11	56%	1994	6	83%	31%
1990	3	0	3	15%	1955	6	84%	31%
1991	4	0	4	18%	1944	6	85%	31%
1992	4	0	4	19%	1931	6	86%	29%
1993	14	0	14	68%	1933	6	88%	29%
1994	6	0	6	31%	1988	5	89%	26%
1995	17	0	17	87%	1934	5	90%	24%
1996	15	0	15	73%	2001	4	91%	22%
1997	17	0	17	83%	1929	4	93%	22%
1998	18	0	18	88%	1992	4	94%	19%
1999	14	0	14	69%	1991	4	95%	18%
2000	14	0	14	69%	1987	3	96%	15%
2001	4	0	4	22%	1990	3	98%	15%
2002	11	0	11	53%	1924	3	99%	14%
2003	11	0	11	57%	1977	2	100%	11%
Average	12	0	12	58%		12		58%
Maximum	20	0	20	100%		20		100%
Minimum	2	0	2	11%		2		11%