

Water Resources Management - Imported Supply Unit
 Estimated Power Rate for Planned State Water Project Receipts
 2018

Month	February-18				Total	SWP
	Table A	WSO SWP	CY 2018 SOC	Off Aqueduct	Power	Unit Net
	Project	Delv.	Water	Charges**	Variable	Rate**
	Water	Planning%**	Receipts**			
	AF		AF	\$		\$/AF
O'Neill			-			22.76
Central Valley			5,000			30.91
Mojave Valley			-			260.06
East Branch			269,065			213.67
West Branch			283,757			215.02
Total	1,911,500		557,822	2,620,002		

** Variable input for calculations - subject to regular revision

Notes
Table A Project Water - DWR Bulletin 132 Table B-4
2018 SWP Delivery Schedule -- 20% allocation -- 2/5/2018 Update
Assumes total 702,665 AF to service area.
Assumes total 149,843 AF DWA/CVWD/VCWPD supplies to service area.
Variable Rates from DWR Plant Unit Rates table dated February 9, 2018.
Central Valley Unit Net Variable Rate at Dos Amigos (Reaches 4 through 13B)
Total OAPF Charges from DWR Invoice No. 18-013-O Jun. 30, 2017.

CALCULATIONS (based on source data)

1. Power Requirements for Planned SWP Receipts

	AF	Max Power Requirements kWh/AF	kWh
O'Neill	-	296	-
Central Valley	5,000	434	2,170,000
Mojave Valley	-	4,549	-
East Branch	269,065	4,549	1,223,976,685
West Branch	283,757	4,126	1,170,781,382
Total	557,822		2,396,928,067

2. Off Aqueduct Power Facilities Rate/kWh

Total Costs (DWR CY 2018 SOC)	\$ 2,620,002
Total Power Required for SWP Receipts -kWh	2,396,928,067
Rate \$/kWh	0.001093067

3. Off Aqueduct Power Facilities Rate for Planned SWP Receipts

	kWh/AF	Rate \$/kWh	\$/AF
East Branch	4,549	0.001093067	4.97
West Branch	4,126	0.001093067	4.51

4. Power Rate for Planned SWP Receipts**

	Variable \$/AF	Off-Aqueduct \$/AF	Total \$/AF
East Branch	213.67	4.97	218.64
West Branch	215.02	4.51	219.53

** Subject to regular revision

Power Requirements Calculation

In order to determine the charge per acre foot on the East Branch it is necessary to determine the rate per kWh
 Calculation 1 determines the total kWh required for the planned SWP receipts.

Rate per kWh is determined as Total Cost/Total kWh
 SWP receipts from 2/5/2018 SWP schedule update
 Power Requirements - State Water Project Analysis Office - fixed

OAPF Rate Calculation
 Calculation 2 the \$ Rate per kWh is total charges over total kWh

Calculation 3 determines the OAPF \$ rate per acre foot for planned receipts.

Rate/AF
 Calculation 4 combines the net variable rate and the Off-Aqueduct rate to provide a total rate

Water Resources Management - Imported Supply Unit
 Estimated Power Rate for Planned State Water Project Receipts
 2020

Month	February-20				Total Off Aqueduct Power Charges**	SWP Unit Net Variable Rate**
	Table A Project Water AF	WSO SWP Delv. Planning%**	CY 2020 SOC Water Receipts** AF		\$	\$/AF
O'Neill			-		-	
Central Valley			-			29.94
Antelope Valley			-			273.99
East Branch			108,270			225.40
West Branch			261,263			221.48
Total	1,911,500		369,533		4,705,508	

** Variable input for calculations - subject to regular revision

Notes
Table A Project Water - DWR Bulletin 132 Table B-4 Water Receipts from MWD's February 10, 2020 delivery schedule (assumes 15% Table A)
Variable Rates from DWR's January 27, 2020 Transportation Variable Plant Unit Rates
Total OAPF Charges from DWR Invoice No. 20-013-O Jun. 30, 2019.

CALCULATIONS (based on source data)

1. Power Requirements for Planned SWP Receipts

	AF	Max Power Requirements kWh/AF	kWh
O'Neill	-	296	-
Central Valley	-	434	-
Antelope Valley	-	4,549	-
East Branch	108,270	4,549	492,520,230
West Branch	261,263	4,126	1,077,971,138
Total	369,533		1,570,491,368

2. Off Aqueduct Power Facilities Rate/kWh

Total Costs (DWR CY 2020 SOC)	\$ 4,705,508
Total Power Required for SWP Receipts -kWh	1,570,491,368
Rate \$/kWh	0.002996201

3. Off Aqueduct Power Facilities Rate for Planned SWP Receipts

	kWh/AF	Rate \$/kWh	\$/AF
East Branch	4,549	0.002996201	13.63
West Branch	4,126	0.002996201	12.36

4. Power Rate for Planned SWP Receipts**

	Variable \$/AF	Off-Aqueduct \$/AF	Total \$/AF
East Branch	225.40	13.63	239.03
West Branch	221.48	12.36	233.84

** Subject to regular revision

Power Requirements Calculation

In order to determine the charge per acre foot on the East Branch it is necessary to determine the rate per kWh
 Calculation 1 determines the total kWh required for the planned SWP receipts.

Rate per kWh is determined as Total Cost/Total kWh
 SWP receipts from MWD's February 10, 2010 SWP schedule for a 15% Table A allocation
 Power Requirements - State Water Project Analysis Office - fixed

OAPF Rate Calculation
 Calculation 2 the \$ Rate per kWh is total charges over total kWh

Calculation 3 determines the OAPF \$ rate per acre foot for planned receipts.

Rate/AF
 Calculation 4 combines the net variable rate and the Off-Aqueduct rate to provide a total rate