

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

Month	January-18		CY 2018	Total	SWP
	Table A	WSO SWP	Budget	Off Aqueduct	Unit Net
	Project	Delv.	Water	Power	Variable
	Water	Planning%**	Receipts**	Charges**	Rate**
	AF		AF	\$	\$/AF
O'Neill					
Central Valley					
Mojave Valley					
East Branch			541,808		165.67
West Branch			518,538		177.39
Total	1,911,500		1,060,346	2,410,390	

\*\* Variable input for calculations - subject to regular revision

Notes
2018 SWP Delivery Schedule -- 50% allocation Assumes total 1,060,346 AF pays power.
Variable Rates from estimates.
Total OAPF Charges from budget (bond cover paid off in June 2016).

**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	-
Mojave Valley	-	4,549	-
East Branch	541,808	4,549	2,464,684,592
West Branch	518,538	4,126	2,139,487,788
Total	1,060,346		4,604,172,380

**2. Off Aqueduct Power Facilities Rate/kWh**

Total Costs (DWR CY 2017 SOC)	\$ 2,410,390
Total Power Required for SWP Receipts -kWh	4,604,172,380
Rate \$/kWh	0.000523523

**3. Off Aqueduct Power Facilities Rate for Planned SWP Receipts**

	kWh/AF	Rate \$/kWh	\$/AF
East Branch	4,549	0.000523523	2.38
West Branch	4,126	0.000523523	2.16

**4. Power Rate for Planned SWP Receipts\*\***

	Variable \$/AF	Off-Aqueduct \$/AF	Total \$/AF
East Branch	165.67	2.38	168.05
West Branch	177.39	2.16	179.55

\*\* 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

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