## **Water Supply Update**

Board of Directors Meeting March 24, 2020

## Water Supply Briefing

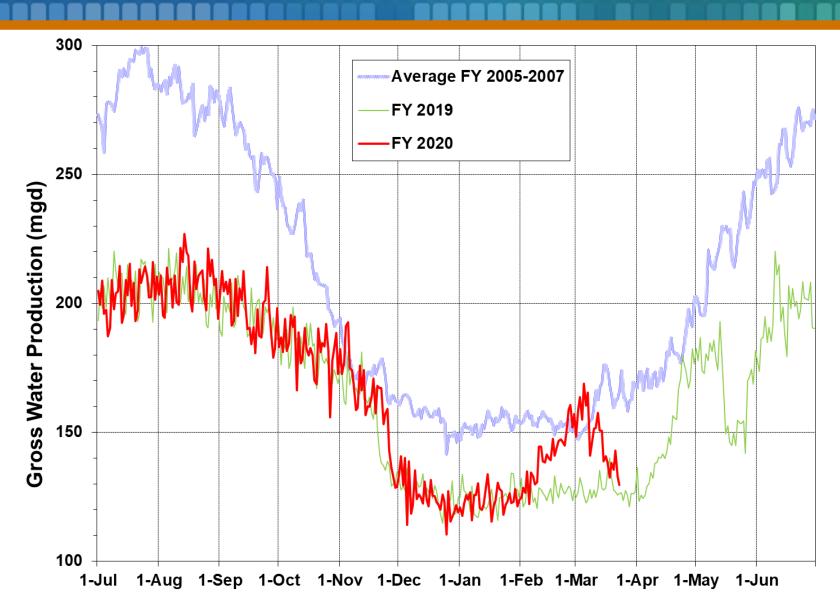


- Current Water Supply
- California Water Supply
- Water Supply Projections



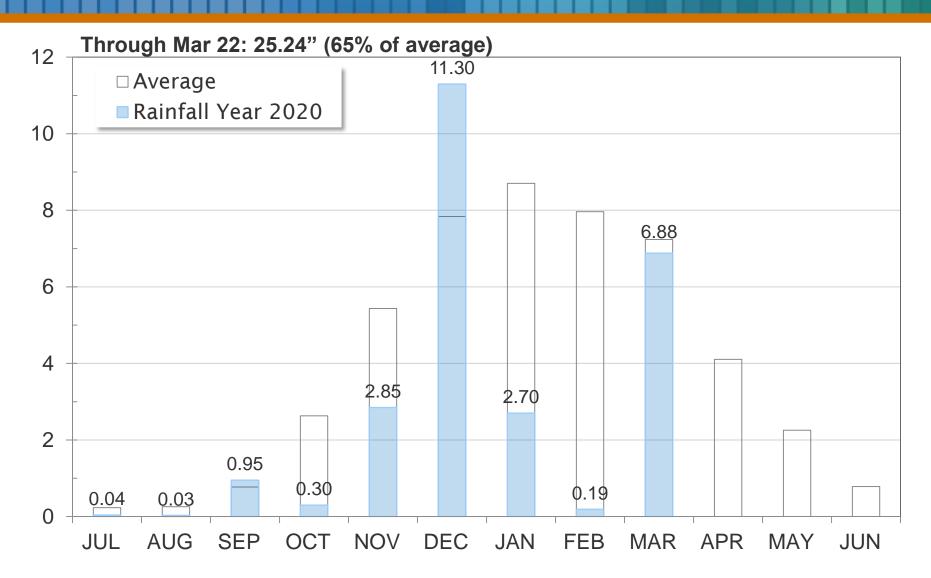


**Gross Water Production** 



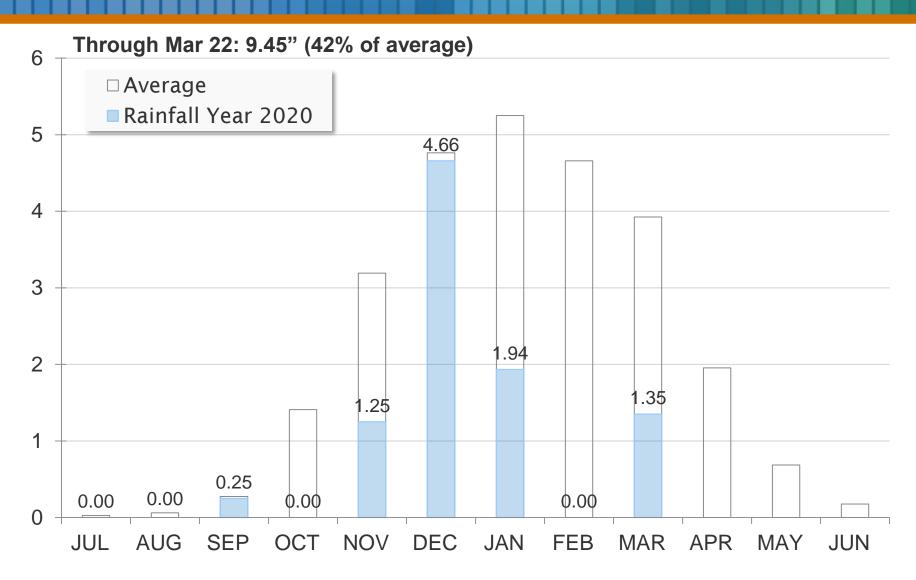
### **Mokelumne Precipitation**





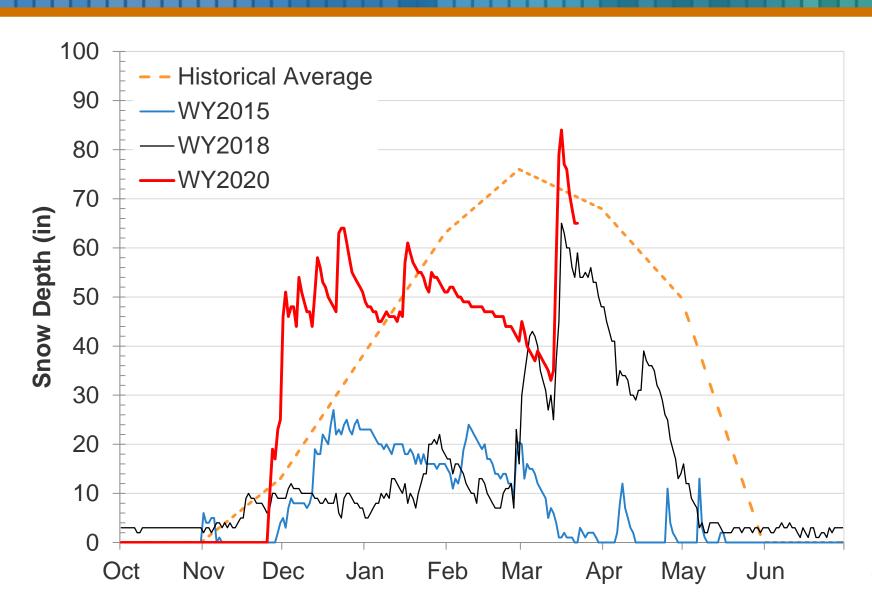
#### **East Bay Precipitation**





### Caples Lake Snow Depth











As of Mar. 22, 2020	Cumulative Precipitation	% of Average		
Caples Lake Snow Depth	65"	92%		
Caples Lake Snow Water Content	18.73"	68%		

### Reservoir Storage









As of 3/22/2020	Current Storage	Percent of Average	Percent of Capacity	
Pardee	187,610 AF	101%	92%	
Camanche	275,270 AF	94%	66%	
East Bay	130,580 AF	95%	87%	
Total System	593,460 AF	96%	77%	

## California Water Supply

## **Automated Sensor Snow Water Equivalents**



Data for: 23-Mar-2020

% Normal for this Date



#### **Caples Lake Snow Water Content**

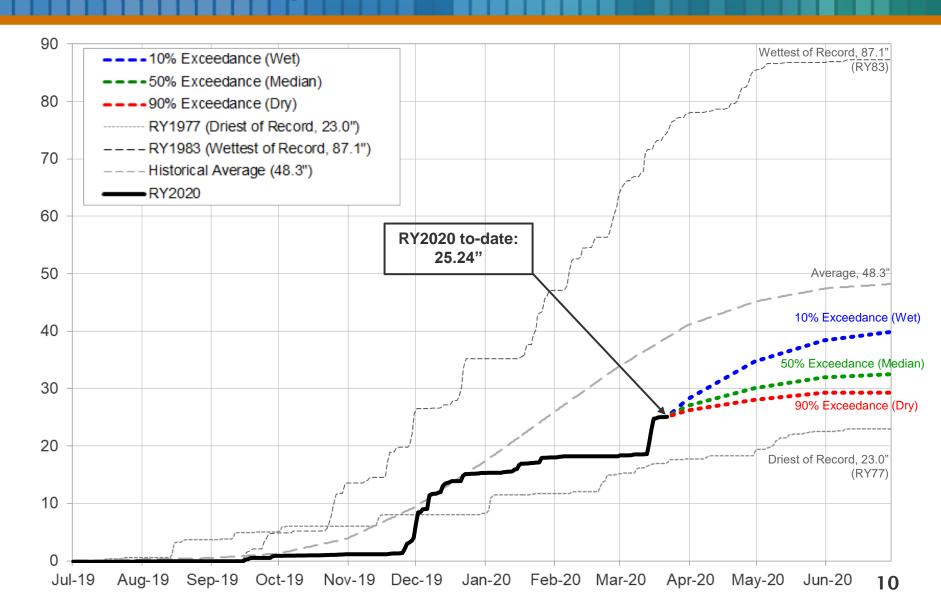
Year	% of Normal on March 22
2018	48%
2019	203%
2020	68%

Statewide Average: 49%

# Water Supply Projections



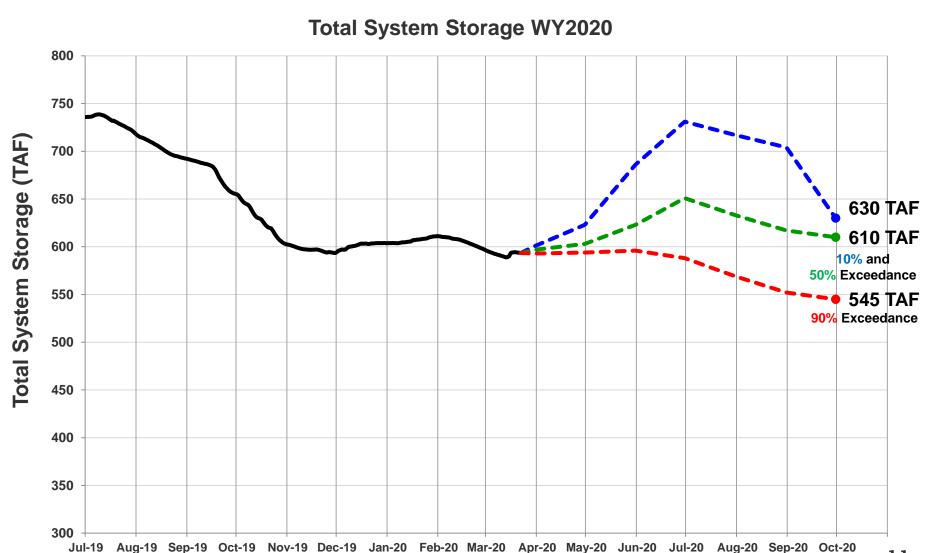




## Water Supply Projections



### Projected 2020 EBMUD Total System Storage



# Questions?





#### WATER SUPPLY ENGINEERING DAILY REPORT

Monday, March 23, 2020

#### RESERVOIR STORAGE AND ELEVATION

MATHEM SHEAT   STORK			KESEF	WOIK STOI	KAGE AN	DELEVATIO	N				
MOKELUMNE   Feat   Jose   J			<u>SURFACE</u>	<u>STORAGE</u>		MAXIMUM CAPACITY					
Parciac   Sept   1		ZIV (MIII)	+Gain		+Gain	Elevation	Storage		Release	Spill	
Particle   Solo, 17   O.03   187550   6-0   Sof-3.65   20.0795   2.39   0	MOKELUMNE			Ac-Ft			_			-	
Part BAY	<u> </u>										
Briones											
Section   Sec		214.00	-0.04	273020	-250	233.3	41/120		330	V	
Clabor	· · · · · · · · · · · · · · · · · · ·	570.72	-0.01	55210	-10	576 14	58960		0	0	
San Pablo											
San Pablo											
Total Essa Bav Res   130570   1-10   15008											
TOTAL SYSTEM STORAGE											
DISTRIBUTION RESERVOIRS				<u> </u>							
DISTRIBUTION SYSTEM   DISTRIBUTION RESERVOIRS	•	GE.		593140	-320						
Storage	-		STEM					JMNE SYS	STEM		
Storage											
Mode			Storage	Operating						ditions	
Total Previous Day			_			Line 1					
Total Previous Day	Today					Line 2	49.1				
TOTAL Change	-		316			Line 3	47.4				
WATER PRODUCTION AND DEMAND         Million Gallons         Capacity MGD         Mok 1 Mok 2         0         Image: Company to the											
AND DEMAND         Gallons         MGD         Mok 2         0         Control MTP         0         25         0 MG         MGD         0 MG         CES         0 MG         CES					FSCC to MOK AQUEDUCTS (Measured at Brandt), MC			andt), MG			
Lafayette WTP	WATER PRODUCTION		Million	Capacity		Mok 1	0				
Orinda WTP         107         190         RIVER FLOWS AND RELEASES         Cfs           San Pablo WTP         0         30         Mokelumne River Natural Flow         660           Sobrante WTP         0         50         Pardee Reservoir Inflow         420           Upper San Leandro WTP         0         45         Pardee Release to JVID         50           Upper San Leandro WTP         0         45         Pardee Release to JVID         50           Comanche Release to WTP         25.3         90         Pardee Release to JVID         50           TOTAL SURFACE PRODUCTION         132.3         430         Camanche Release to JVID         330           Change in Distribution System         1         430         PG&E CO. STORAGE (Are-feet)         Maximum           Wash Water from Distribution System         1         430         Old Reservoirs         5034         -55         26560           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         14653         177         22042           West-of-Hills Demand         102.9         Total         TISEEA         AVERAGE YEAR <t< td=""><td>AND DEMAND</td><td></td><td><u>Gallons</u></td><td><u>MGD</u></td><td></td><td>Mok 2</td><td><u>0</u></td><td></td><td></td><td></td></t<>	AND DEMAND		<u>Gallons</u>	<u>MGD</u>		Mok 2	<u>0</u>				
San Pablo WTP         0         30         Mokelumne River Natural Flow         660           Sobrante WTP         0         50         Pardec Reservoir Inflow         420           Upper San Leandro WTP         0         45         Pardec Release to Camanche Reservoir Inflow         239           Walnut Creek WTP         25.3         90         Pardec Release to JVIID         0         330           TOTAL SURFACE PRODUCTION         132.3         430         PG&E CO. STORAGE (Acre-feet)         Maximum         Maximum           TOTAL WATER PRODUCTION         132.7         Capacity         Maximum           Change in Distribution System         1         Old Reservoirs         5034         -35         26560           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         214623         1377         22025           REWWATER TRANSMISSION Ac-ft         PRECIPITATION (Ibrest)           INPUT DRAFT         TOTAL         STATION         Total         This Season         Season <td co<="" td=""><td>Lafayette WTP</td><td></td><td>0</td><td>25</td><td></td><td></td><td>0</td><td>MG</td><td></td><td></td></td>	<td>Lafayette WTP</td> <td></td> <td>0</td> <td>25</td> <td></td> <td></td> <td>0</td> <td>MG</td> <td></td> <td></td>	Lafayette WTP		0	25			0	MG		
Sobrante WTP         0         50         Pardee Reservoir Inflow         420           Upper San Leandro WTP         25.3         90         Pardee Release to Caman-the Res.         239           Walnut Creek WTP         25.3         90         Pardee Release to Mokel River         330           TOTAL SURFACE PRODUCTION         132.3         430         Maximum         Maximum           TOTAL WATER PRODUCTION         132.7         Maximum         Maximum           Change in Distribution System         1         Maximum           Wash Water from Distribution System         1         Old Reservoirs         Storage Change Capacity           West-of-Hills Demand         28.4         Lower Bear Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         14653         177         52025           TOTAL WATER TRANSMISSION Ac-ft         PRECIPITATION (Intersection of the properties of	Orinda WTP		107	190		RIVER FLOY	WS AND R	ELEASES		<u>Cfs</u>	
Upper San Leandro WTP Walnut Creek WTP         0         45         Pardee Release to Camanche Res. of Damper Res. of Da	San Pablo WTP		0	30		Mokelumne R	River Natura	al Flow		660	
Walnut Creek WTP         25.3         90         Pardee Release to JVID Camanche Release to Mokel. River         330           TOTAL SURFACE PRODUCTION Miscellaneous(Estimated)         10.4         PG&E CO. STORAGE (∆cre-feet)         Maximum           Change in Distribution System Wash Water from Distribution Sys.         0.4         Old Reservoirs         Storage Storage Storage Storage         Change Capacity Change Change Capacity         Maximum           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         14653         177         52025           West-of-Hills Demand         10.9         Total         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         0         STATION         This Season Month to-Date	Sobrante WTP		0	50		Pardee Reserv	oir Inflow			420	
Camanche Release to Mokelumne River below WID = 228 cfs   Camanche Release to Mokelumne Release to Maximum Rel	Upper San Leandro WTP		0	45		Pardee Releas	se to Caman	che Res.		239	
TOTAL SURFACE PRODUCTION Miscellaneous(Estimated)         132.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	Walnut Creek WTP		25.3	90		Pardee Releas	se to JVID			0	
Miscellaneous(Estimated)         0.4         PG&E CO. STORAGE (Acre-feet)         Maximum           TOTAL WATER PRODUCTION         132.7         Maximum           Change in Distribution System         1         Storage         Change         Capacity           Wash Water from Distribution System         1         Old Reservoirs         Storage         Change         Capacity           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         14653         177         52025           West-of-Hills Demand         102.9         Total         PRECIPITATION (Inters)           TOTAL         DRAFT         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         This         Season         Season         Season         Season         Season         Season         Season         Season         Season <t< td=""><td>TOTAL GUREL GERROR</td><td>HOTELON</td><td>122.2</td><td>420</td><td></td><td>Camanche Re</td><td>lease to Mo</td><td>kel. River</td><td></td><td>330</td></t<>	TOTAL GUREL GERROR	HOTELON	122.2	420		Camanche Re	lease to Mo	kel. River		330	
TOTAL WATER PRODUCTION   132.7   Change in Distribution System   1	<u></u>		430	DG &E CO STOD AGE (A gray foot)							
Change in Distribution System Wash Water from Distribution Sys.         1 0dd Reservoirs         Storage Sold Storage         Change Capacity           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4 Uower Bear Res.         14653         177         52025           West-of-Hills Demand         102.9         Total         41109         477         220442           RAW WATER TRANSMISSION Ac-ft West-of-Hills Demand         PRECIPITATION (IVEV)           Briones Res.         0         0         0         STATION         This YEAR         AVERAGE YEAR           Briones Res.         0         0         Total         This Season         Season         Season           San Pablo Res.         5         0         STATION         This Season         Season         Season           U. San Leandro Res.         0         0         Today         Month to-Date to-Dat						I G&E CO. 3	TORAGE (	Acre-reery	Maximum		
Wash Water from Distribution Sys.         0.4         Old Reservoirs         5034         -35         26560           SYSTEM DEMAND         131.3         Salt Springs Res.         21422         335         141857           East-of-Hills Demand         28.4         Lower Bear Res.         14653         177         52025           West-of-Hills Demand         102.9         Total         41109         477         220442           RAW WATER TRANSMISSION Ac-ft         PRECIPITATION (Interest)           Briones Res.         0         0           San Pablo Res.         5         0         STATION         This SEason         Season         Season           U. San Leandro Res.         0         0         STATION         This SEason         Season         Season           USL WTP         0         1.45         9.87         21.53         25.33           TOTAL         5         0         Orinda WTP         0         1.25         9.02         24.14         28.18           WID Canal Diversion = 42 cfs         Walnut Creek WTP         0         1.29         10.4         20.02         23.02           Mokelumne River below WID = 228 cfs         Camp Pardee         0         3.61							Storage	Change			
East-of-Hills Demand         28.4 West-of-Hills Demand         Lower Bear Res.         14653 41109         177 220442         52025 20442           RAW WATER TRANSMISSION Ac-ft         PRECIPITATION (Inches)           INPUT DRAFT         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         STATION         This Season Season Season Season U. Season Wonth to-Date	_	-			Old Re	eservoirs					
East-of-Hills Demand         28.4 West-of-Hills Demand         Lower Bear Res.         14653 41109         177 220442         52025 20442           RAW WATER TRANSMISSION Ac-ft         PRECIPITATION (Inches)           INPUT DRAFT         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         STATION         This Season Season Season Season U. Season Wonth to-Date	SYSTEM DEMAND		131.3		Salt Sr	orings Res.	21422	335	141857		
West-of-Hills Demand         102.9         Total         41109         477         220442           RAW WATER TRANSMISSION Ac-ft         PRECIPITATION (Inclusion)           INPUT         DRAFT         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         STATION         This YEAR         Season Season Season Volume         Season Volume         Total           U. San Leandro Res.         0         0         STATION         This This Season Volume         Season Volume         Season Total         Season Volume         Average Volume         Average Volume         All other data as of midnight.         Snow Depth         64 Inches         Average Volume         Average Volume         Average Volume         All other data as of midnight.         Snow Depth         64 Inches	·		28.4		-	-	14653				
RAW WATER TRANSMISSION Ac-ft         PRECIPITATION (In-thes)           INPUT         DRAFT         THIS YEAR         AVERAGE YEAR           Briones Res.         0         0         STATION         This         Season         Season         Season         Season         Season         Total         Total         Image: Total Normal Nor						Dear Tree.					
San Pablo Res.   O   O   O   San Leandro Res.   O   O   O   O   O   O   O   O   O		IISSION A	Ac-ft								
San Pablo Res.   0   0     STATION   This   Season   Season   Season   U. San Leandro Res.   0   0     USL WTP   0   1.45   9.87   21.53   25.33		INPUT	DRAFT				•	•	AVERAGI	E YEAR	
San Pablo Res.   5   0   0     Today   Month   to-Date   to-Date   Total   USL WTP   0   1.45   9.87   21.53   25.33	Briones Res.	•					<del></del>		II V DIGITO	3 1 21 111	
U. San Leandro Res. 0 0 USL WTP 0 1.45 9.87 21.53 25.33   TOTAL 5 0 Orinda WTP 0 2.14 13.14 27.3 32.06   REMARKS				STATION			This	Season	Season	Season	
USL WTP   0				SIMILON		Todav					
TOTAL         5         0         Orinda WTP         0         2.14         13.14         27.3         32.06           REMARKS         Lafayette Reservoir         0         1.25         9.02         24.14         28.18           WID Canal Diversion = 42 cfs         Walnut Creek WTP         0         1.29         10.4         20.02         23.02           Mokelumne River below WID = 228 cfs         Camp Pardee         0         3.61         12.89         17.56         21.56           Salt Springs P.H.         0.18         7.79         25.89         36.67         45.51           CAPLES LAKE (7,830 FT) DATA           PG&E data as of 4:00 pm previous date.           All other data as of midnight.         Today         Average           Snow Depth         64 Inches         70 Inches				USL WTP							
REMARKS         Lafayette Reservoir         0         1.25         9.02         24.14         28.18           WID Canal Diversion = 42 cfs         Walnut Creek WTP         0         1.29         10.4         20.02         23.02           Mokelumne River below WID = 228 cfs         Camp Pardee         0         3.61         12.89         17.56         21.56           Salt Springs P.H.         0.18         7.79         25.89         36.67         45.51           CAPLES LAKE (7.830 FT) DATA           PG&E data as of 4:00 pm previous date.           All other data as of midnight.         Snow Depth         64 Inches         70 Inches	TOTAL	5	0		φ						
WID Canal Diversion = 42 cfs       Walnut Creek WTP       0       1.29       10.4       20.02       23.02         Mokelumne River below WID = 228 cfs       Camp Pardee       0       3.61       12.89       17.56       21.56         Salt Springs P.H.       0.18       7.79       25.89       36.67       45.51         CAPLES LAKE (7.830 FT) DATA         PG&E data as of 4:00 pm previous date.         All other data as of midnight.       Today       Average         Snow Depth       64 Inches       70 Inches			-	-							
Camp Pardee   0   3.61   12.89   17.56   21.56     Salt Springs P.H.   0.18   7.79   25.89   36.67   45.51     CAPLES LAKE (7,830 FT) DATA     PG&E data as of 4:00 pm previous date.   Today   Average     All other data as of midnight.   Snow Depth   64 Inches   70 Inches			1								
Salt Springs P.H. 0.18 7.79 25.89 36.67 45.51  CAPLES LAKE (7,830 FT) DATA  PG&E data as of 4:00 pm previous date. All other data as of midnight.  Snow Depth 64 Inches 70 Inches			efs								
PG&E data as of 4:00 pm previous date.  All other data as of midnight.  CAPLES LAKE (7,830 FT) DATA  Today Average Snow Depth 64 Inches 70 Inches	Mokelumme River below v	VID 220 C	15	-							
PG&E data as of 4:00 pm previous date.  All other data as of midnight.  Today  Average  70 Inches				Suit Spring					20.07		
All other data as of midnight. Snow Depth 64 Inches 70 Inches	PG&E data as of 4:00										
			С.	Snow Dent	·h	•		_			
				•							