



Pasadena Water and Power

**IMPLEMENT
LEVEL 2 WATER SUPPLY SHORTAGE
AND ESTABLISH 15% WATER
REDUCTION GOAL**

City Council

August 10, 2021 - Item 17





Recommendation

Pasadena Water and Power

- **California Environmental Quality Act (“CEQA”) Exemption**
 - > Protection of Natural Resources
- **Pursuant to Pasadena Water Waste Prohibitions and Water Supply Shortage Plans Ordinance (PMC 13.10)**
 - > Implement Level 2 Water Supply Shortage; and
 - > Establish a voluntary water use reduction target of 15 percent from current (FY2021) water sales levels



Prior City Council Actions

Pasadena Water and Power

- **June 1, 2015**
 - > City Council adopted Level 2 Water Shortage
 - > Adopted a 28 percent conservation target
 - *Compared to CY2013 water demand*
 - > Implemented additional water shortage measures
- **March 27, 2017**
 - > City Council adopted Level 1 Water Supply Shortage
 - > Adopted a 20 percent conservation target









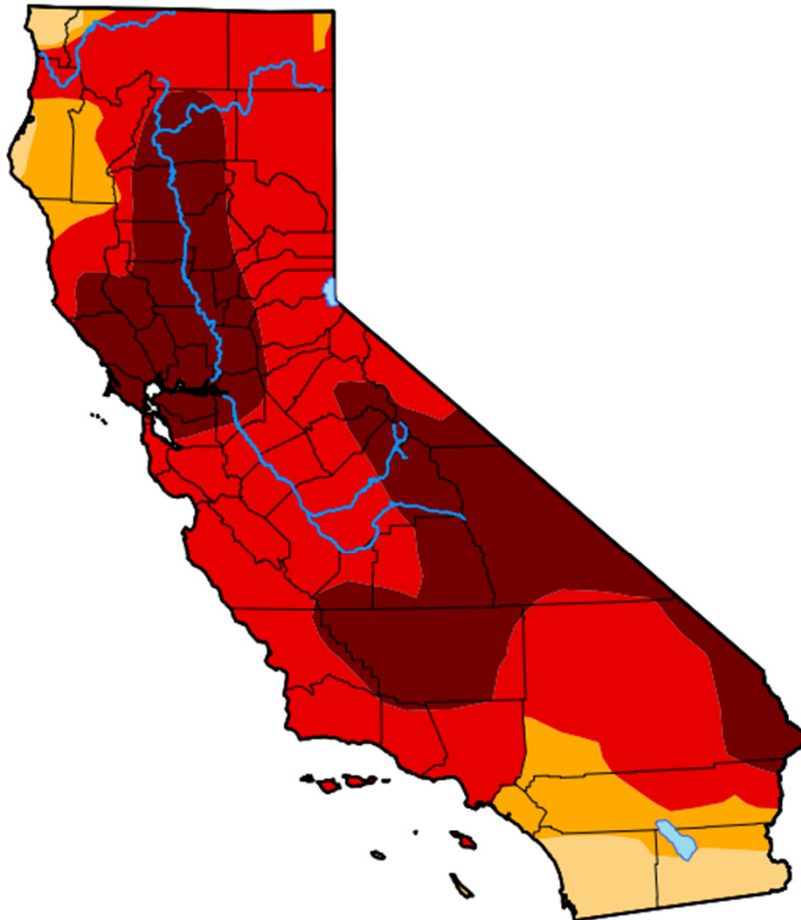
California Drought Conditions

U.S. Drought Monitor California

July 13, 2021
(Released Thursday, Jul. 15, 2021)
Valid 8 a.m. EDT

Intensity:

-  None
-  D0 Abnormally Dry
-  D1 Moderate Drought
-  D2 Severe Drought
-  D3 Extreme Drought
-  D4 Exceptional Drought



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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State Actions

Pasadena Water and Power

- **July 8, 2021, Governor Gavin Newsom**
 - > Expanded the drought emergency to 50 counties across California
 - > Signed an executive order encouraging residents to reduce water use by 15 percent from current consumption levels



Pasadena's Water Supply

Pasadena Water and Power

- 30-40% local groundwater from the Raymond Basin
 - > Pumping rights plus spreading credits
 - > Spreading credit augmentation has been minimal due to lack of precipitation and damage to intake and diversion facilities
 - > California Code compels Pasadena to seek local supplies
- Remainder imported from Metropolitan Water District (“MWD”)
 - > MWD reserves sufficient for 2021
 - > Lake Mead has reached record low levels and might trigger allocations for Southern California in 2022

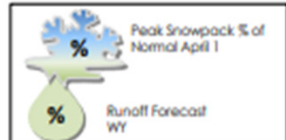
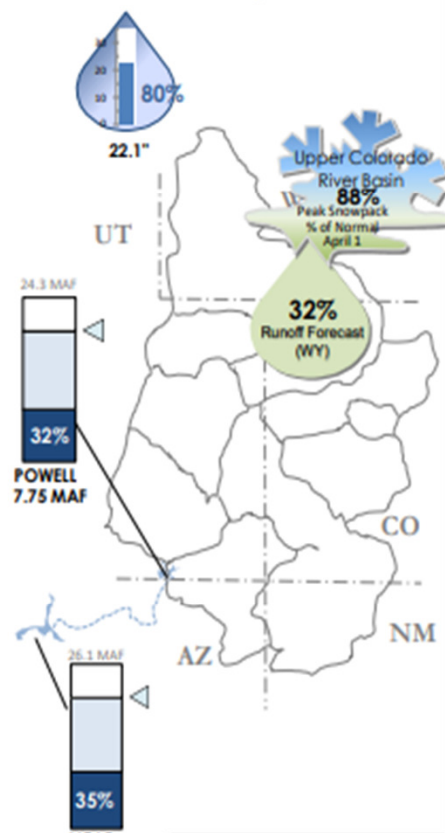


Regional Supply Conditions

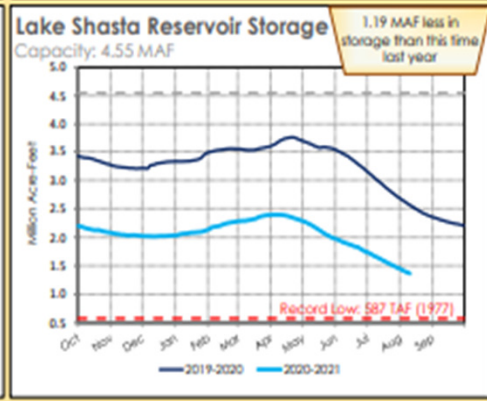
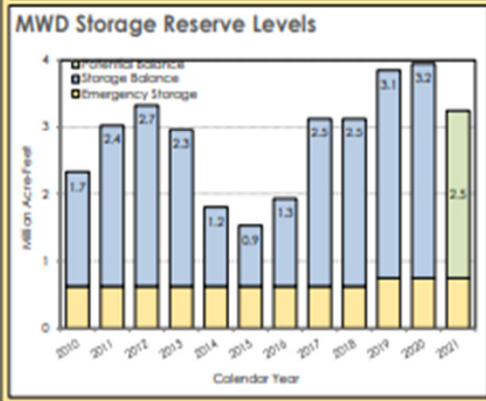
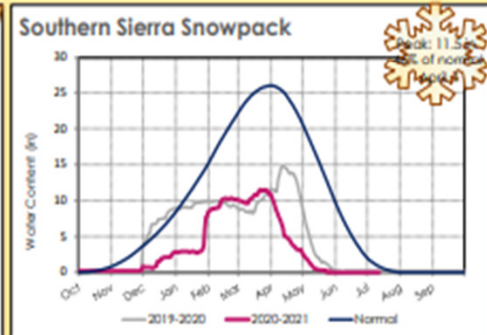
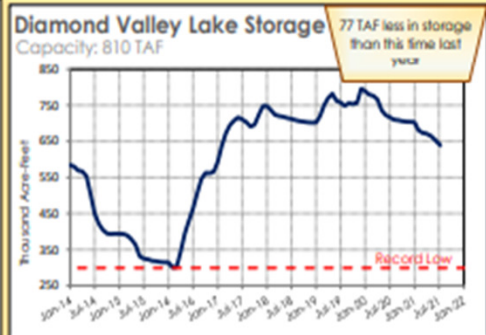
Water Supply Conditions Report

As of: 08/10/2021

2021 Colorado River
1,082,000 AF
Projected CRA Diversions



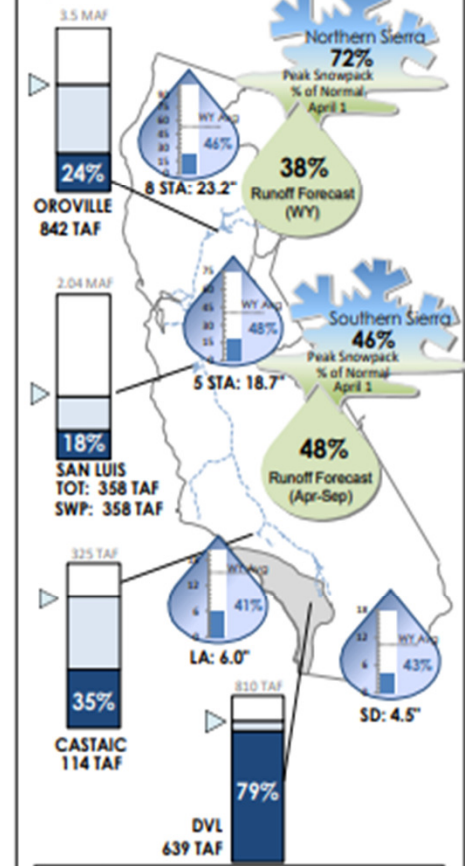
- ### Highlights
- ◆ Precipitation at the 8 Station Index is at 46% of normal
 - ◆ Water Year runoff forecast for the Sacramento River is at 38% of normal
 - ◆ Precipitation in the Upper Colorado is at 80% of normal
 - ◆ Water Year runoff forecast for Lake Powell is forecasted at 32% of normal



Water Supply Conditions Report

As of: 08/10/2021

2021 SWP Allocation
95,575 AF
5% of Table A



This report is produced by the Water Resource Management Group and contains information from various federal, state, and local agencies. The Metropolitan Water District of Southern California and its member agencies do not warrant the accuracy or completeness of this information. Readers should refer to the relevant state, federal, and local agency websites for the most up to date water supply information. Reservoirs, lakes, aqueducts, maps, water flows on this report are not drawn to scale.

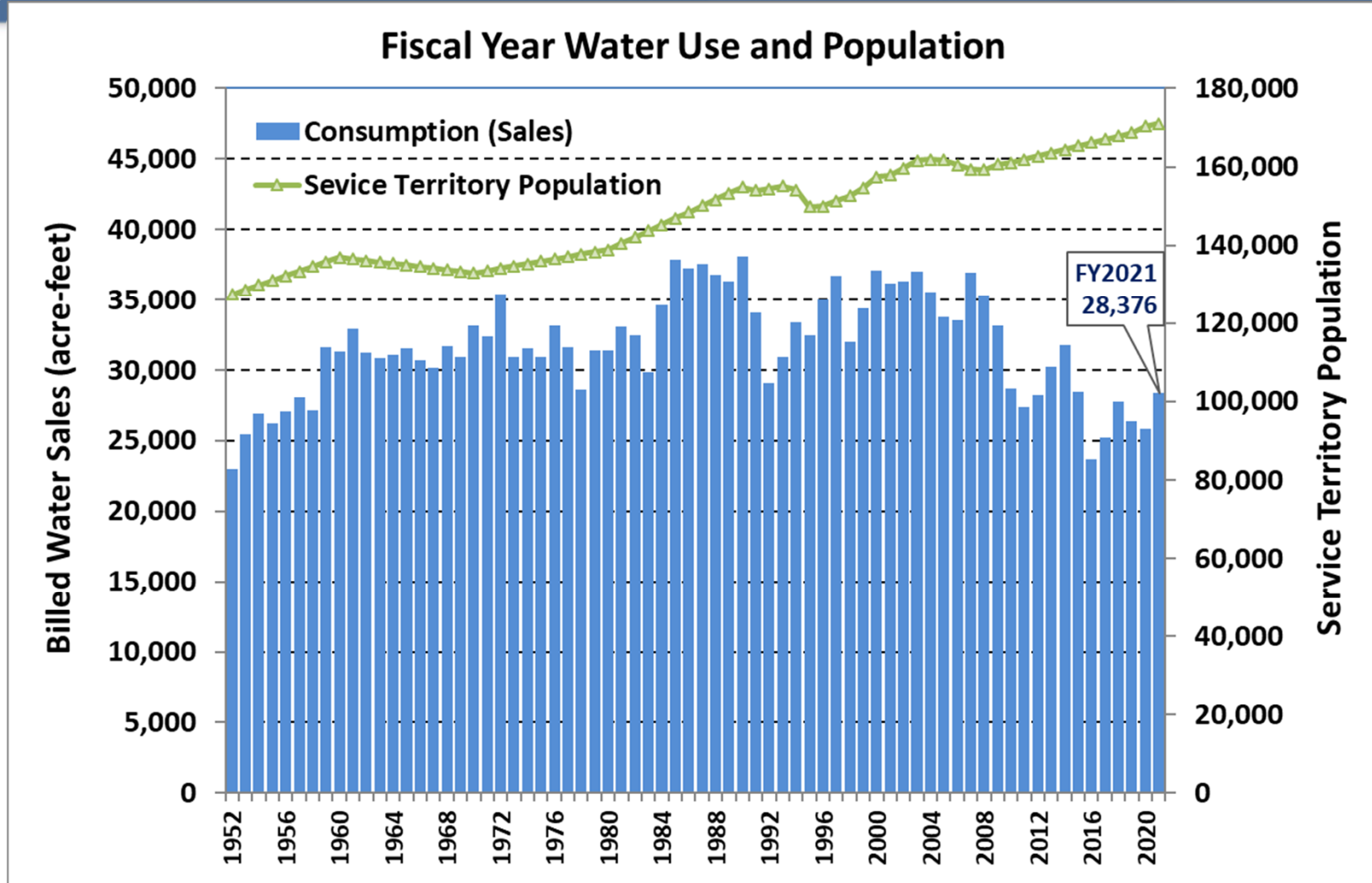
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Pasadena's Water Use

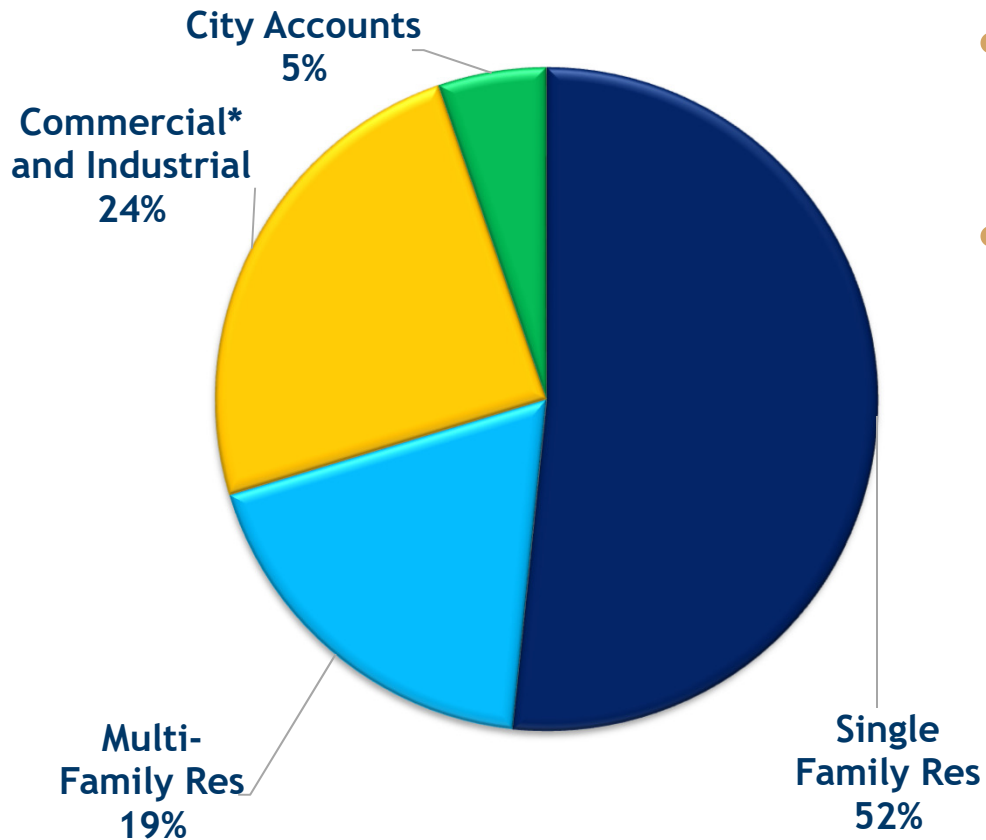
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FY2021 Water Sales (HCF)

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- 28,376 AF total sales
 > 7% less than CY2013
- Residential >70% of total



Recommended Water Conservation Target

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- Voluntary 15 percent reduction from current (FY2021) consumption levels
 - > Consistent with State reductions
- PWP to assist customers with:
 - > Implementing water conservation measures
 - > Tracking progress against 15% goal
 - > Developing alternative efficient water use plans (for large commercial)



Recommended Level 2 Water Shortage Plan

Pasadena Water and Power

- Restricts outdoor watering to **two days per week** April 1 through October 31
 - > Level 1 allows three days per week from April through October
 - > Both allow one day per week from November through March
- Level 2 proposed watering schedule

| Season | Odd-numbered street addresses | Even-numbered street addresses |
|------------------------|-------------------------------|--------------------------------|
| April 1 to October 31 | Tuesdays and Fridays | Monday and Thursday |
| November 1 to March 31 | Tuesdays only | Monday only |



Water Shortage Plan Levels

Pasadena Water and Power

| | Level 1 | Level 2 | Level 3 | Level 4 |
|---|------------------------------------|---|---|---|
| Watering Days Per Week | 3 summer 1 winter | 2 summer 1 winter | 1 summer 1 winter | No watering or irrigating |
| Obligation to Repair Leaks, Breaks | 72 hours after notification | 48 hours after notification | 36 hours after notification | 24 hours after notification |
| Additional Prohibitions | N/A | Filling ornamental lakes and ponds | Filling ornamental lakes and ponds | Filling ornamental lakes, ponds, residential pools or spas No new potable water service provided |

*Summer: April 1 - October 31
 **Winter: November 1 - March 31



Efficient Water Use Plans

Pasadena Water and Power

- PWP's largest non-residential customers may submit alternative efficient water use plans
 - > Identify best practices to reduce water use
 - > Schedule of implementation
 - > Plan approval by PWP General Manager



Outreach and Education

Pasadena Water and Power

- Build on recently launched “Shape Up Summer” campaign
- Develop infographic for new watering days to use across all outreach mediums
- Dashboard on webpage showing progress toward 15% goal
- Promote outreach through combination of venues:
 - > Website and Social Media
 - > Press Releases
 - > Citywide Direct Mailer
 - > News Articles through City/PWP Publications
 - > Direct Outreach: Field Reps, Large Customers, Community Groups
 - > Email customers through WaterSmart customer engagement
 - > Updates on the WaterSmart customer portal
- Boots on the Ground: PWP Team Water Savers
- Programs: Irrigation Checks-Ups; Spray-to-Drip Retrofits; Virtual Workshops; Rebates; Direct Install



Council Policy Consideration

Pasadena Water and Power

- The proposed actions are consistent with
 - > 2020 Water Systems and Resources Plan
 - > 2020 Urban Water Management Plan
 - > Urban Environmental Accords Goal to reduce potable water use
 - > City Council Strategic Planning Goals to increase conservation and sustainability



Fiscal Impact

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- 15% reduction in water sales
- Estimated \$7.4 million revenue reduction
- Estimated \$2.9 million reduction in net income
 - > May require 5% average rate increase



Recommended Actions

Pasadena Water and Power

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Pasadena Water and Power



Western Region Drought Conditions

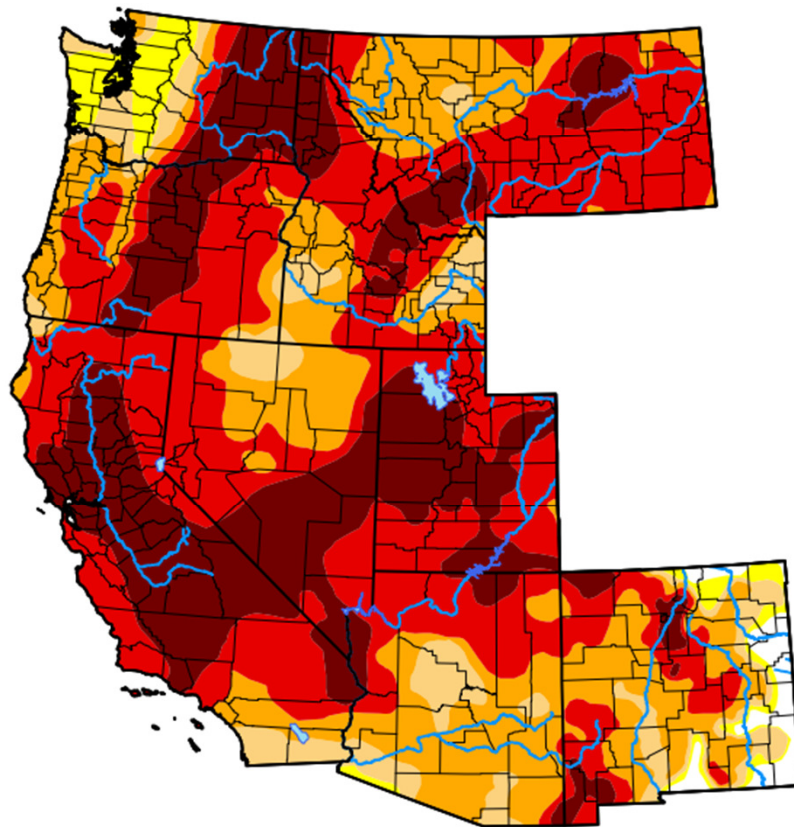
Pasadena Water and Power

U.S. Drought Monitor West

August 3, 2021

(Released Thursday, Aug. 5, 2021)

Valid 8 a.m. EDT



Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

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CPC/NOAA/NWS/NCEP



droughtmonitor.unl.edu





Fiscal Impact

Pasadena Water and Power

| Budget Item | Financial Impact Estimate (in millions) |
|-------------------------|--|
| Water Revenue Reduction | \$7.3 |
| Water Cost Reduction | \$4.4 |
| Net Income Reduction | \$2.9 |

Assumes 15% reduction in usage across all customer classes and reduced sales would be from Tier 2 billing rates. Reduced water cost assumes reduction of purchases of Tier 1 treated water from Metropolitan Water District



Enforcement & Penalties

Pasadena Water and Power

- Code Violations (*not criminal*)
- Enforcement
 - > Required for Grant Funding (*Best Management Practice*)
 - > Opportunity to Educate Customers, Conduct Audits
 - > PWP and/or Code Enforcement Staff
- Penalties
 - > Enforcement Tool to Achieve Conservation Goal
 - > Not A Revenue Source

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Penalty Schedule

Pasadena Water and Power

| Violation | All Residential Accounts <u>or</u> Meters < 1.5” | Non-Residential Meters 1.5” or Larger |
|-----------------------------|--|--|
| First | Written Notice | Written Notice |
| Second | \$100 | \$200 |
| Third | \$200 | \$400 |
| Fourth | \$350 | \$700 |
| Fifth and subsequent | \$500 | \$1,000 |

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Environmental Determination

Pasadena Water and Power

- The project has been determined to be exempt per Section 15307 of the CEQA Guidelines, Actions by Regulatory Agencies for Protection of Natural Resources. This exemption consists of actions by regulatory agencies as authorized by state law or local ordinance to assure maintenance of a natural resource (such as water) where the regulatory process involves procedures for protection of the resource. It has been determined that implementing a Level 2 Water Supply Shortage Plan will have no secondary environmental impacts.