Total Annual Runoff = 71 MAF

Precipitation (blue contours) vs Population (yellow icons)
20% Urban
80% Irrigation
# Endangered or Sensitive Delta Wildlife and Plants

## 11 Fish Species
- **Delta smelt**
- Longfin smelt
- Winter-run Chinook salmon
- Spring-run Chinook salmon
- Fall-run and late fall–run Chinook salmon
- Central Valley steelhead
- Green sturgeon
- White sturgeon
- **Sacramento splittail**
- River lamprey
- Pacific lamprey

## 31 Other Animal Species
- San Joaquin kit fox
- Riparian woodrat
- Salt marsh harvest mouse
- Riparian brush rabbit
- Townsend’s big-eared bat
- Suisun shrew
- Tricolored blackbird
- **Suisun song sparrow**

## 21 Plant Species
- Alkali milk-vetch
- San Joaquin spearscale
- Boggs Lake hedge-hyssop
- Heckard’s peppergrass
- Legenere
- Heartscale
- Brittle scale
- Slough thistle
- **Suisun thistle**
- Soft bird’s-beak
- Delta button-celery
- Dwarf downingia
- Contra Costa wallflower
- Carquinez goldenbush
- **Delta tule pea**
- **Suisun Marsh aster**
- Mason’s lilaeopsis
- Delta mudwort
- Antioch Dunes evening-primrose
- Side-flowering skullcap
- Caper-fruit ed tropidocarpum

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**Delta Endemics**

Other Delta endemics: Middlekauff’s shieldback katydid, Antioch andrenid bee

Dunes halictid bee, Antioch Dunes buckwheat
Chinook salmon
Delta smelt
Decreasing California Snowpack

- **Historical Average (1961–1990):** 100% remaining
- **2070–2099:**
  - Lower Warming Range: Drier Climate, 40% remaining
  - Medium Warming Range: Drier Climate, 20% remaining

April 1 snow water equivalent (inches):

<table>
<thead>
<tr>
<th>~0</th>
<th>15</th>
<th>30</th>
<th>45</th>
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</thead>
</table>

- Historical Average:
  - April 1 snow water equivalent ranges from 0 to 45 inches with a concentration in the central and northern parts of the state.
- 2070–2099:
  - Lower Warming Range: April 1 snow water equivalent ranges from 0 to 30 inches with a slight decrease compared to the historical average.
  - Medium Warming Range: April 1 snow water equivalent ranges from 0 to 25 inches, showing a significant decrease in snowpack compared to historical average.
Historical Supply and Use\textsuperscript{1} and Projected Future Colorado River Basin Water Supply and Demand

Water use and demand include Mexico’s allotment and losses such as those due to reservoir evaporation, native vegetation, and operational inefficiencies.
Per Capita Water Use in Metropolitan’s Region

Includes impacts of weather and economic factors

Historical GPCD potable water use
Why the Tunnels?
## Water Investment Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost</th>
<th>Population served</th>
<th>Per capita cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MWD Diamond Valley Lake / Inland Feeder</td>
<td>$3,100,000,000</td>
<td>18,000,000</td>
<td>$172</td>
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<tr>
<td>EBMUD Freeport Project</td>
<td>$517,000,000</td>
<td>1,300,000</td>
<td>$398</td>
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<td>BDCP Project</td>
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<tr>
<td>SDCWA Emergency Storage Project</td>
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<td>CCWD Los Vaqueros Project</td>
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<tr>
<td>SWP Coastal Aqueduct and CCWA Project</td>
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<td>SFPUC's Hetch Hetch Project</td>
<td>$4,600,000,000</td>
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<td>$1,840</td>
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