Modified Emergency Regulation
Emergency Regulation Goals

- Ensure California has an adequate water supply to support the population and economy, in balance with environmental needs
- Effectively prevent water waste
- Balance available supplies with projected demands
- Set demand reductions based on supply limitations
Modified Emergency Regulation

Three Components:

1. Basic requirements
2. Modified demand reduction targets based on availability of supplies to meet demands
3. Sustainability assessment for two additional years
1. Basic Requirements

- Mandate water waste restrictions and end user requirements that apply to all Californians
- Monthly reporting to the State Board
  - Total potable water production
  - Residential gpcd
  - Water Shortage Contingency Plan stage
  - Mechanisms to prevent water waste
- Water supplier demonstrates ability to implement mandatory use reductions, if necessary
Modified Emergency Regulation

Three Components:

1. Basic requirements
2. Modified demand reduction targets based on availability of supplies to meet demands
3. Sustainability assessment for two additional years
2. Modify Demand Reduction Targets

- Modify Conservation Standards for the period of the Emergency Regulation
- Supplier evaluates and self-certifies its availability of supplies to meet demands
- Implement demand reduction targets based on supply shortages identified by supplier
## Demand Reduction Targets

<table>
<thead>
<tr>
<th>Supply Deficiency</th>
<th>Target Demand Reduction</th>
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<tbody>
<tr>
<td>0–5%</td>
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<td>5–10%</td>
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<td>10–15%</td>
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<td>15–20%</td>
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<tr>
<td>20% or more</td>
<td>20% or more</td>
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</tbody>
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Modified Emergency Regulation

Three Components:

1. Basic requirements
2. Modified demand reduction targets based on availability of supplies to meet demands
3. Sustainability assessment for two additional years
3. Sustainability Assessment for Two Additional Years

- Evaluate supply condition under two additional years of dry conditions
- Demand can be met through:
  - Supply management
  - New supply augmentation
  - Conservation actions
Supply–Demand Evaluation Example

- **Retailer Supply Sources**
  - Wholesale supplies
  - Groundwater
  - Desalinated water
  - Recycled water

- **Retailer Demands**
  - Based on three–year average

- **Hydrologic Conditions**
  - Year 1: Dry
  - Year 2: Severely Dry
  - Year 3: Severely Dry

- **Projected New Sustainable Supplies**
  - Year 3 – new desalination plant on–line
Supply–Demand Evaluation Example

- Emergency Regulation Year
- Year 2
- Year 3

- Wholesale Supply
- Recycled Supply
- Groundwater Supply
- Desalinated Supply
- Conservation Required

- 5% Target Demand Reduction Required
- 20% Target Demand Reduction Required
- New sustainable supply on-line
- Wholesale supply reduction from 50% to 45%
- Wholesale supply reduction from 50% to 30%
- 0% Target Demand Reduction Required
Benefits of Supply–Demand Approach

- Reflects water supplier’s total integrated water resources planning portfolio
- Calibrates demand reductions to the severity of shortage for each supplier
- Provides strong incentive for local agencies’ continued investments into developing sustainable supplies and water efficiency
- Automatically incorporates and accounts for regional differences and previous investments
- Reduces water waste through implementation of water waste restrictions
- Easy to implement, eliminates the need for credits and adjustments
Emergency Regulation Considerations
Emergency Regulation Intent

- Requires an assessment of hydrologic conditions and impacts to water availability
- Target demand reductions based on availability of supplies to meet demands
- Incorporate mandatory measures to prevent water waste during a statewide emergency for all Californians
Need for Assessing All Water Supply Conditions

- Significant snowpack and precipitation
  - Above average in watersheds for major water supplies
- Reservoirs
  - Replenishment of storage
  - Releases for flood control in some regions
- State Water Project Allocation: 45%
- CVP: 55% Initial Allocation
- Colorado River: Full Apportionment
- Local sustainable supply investments
Summary

- Modified Emergency Regulation
  1. Basic requirements
  2. Modified demand reduction targets based on availability of supplies to meet demands
  3. Sustainability assessment for two additional years
- Emergency Regulation should consider all water supply conditions