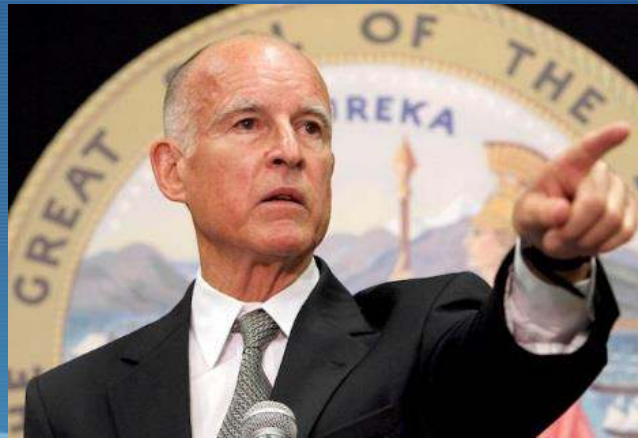


Long-Term Water Conservation Regulations



Background



- ◆ May 9, 2016, Governor Brown Issued Executive Order (EO) B-37-16 entitled **“Making Conservation A California Way of Life”**
- ◆ Four basic elements of the Order:
 1. *Use Water More Wisely*
 2. *Eliminate Water Waste*
 3. *Strengthen Local Drought Resilience*
 4. *Improve Agricultural Water Use Efficiency and Drought Planning*
- ◆ Tasked DWR, State Board and others to draft a proposal with a suite of recommendations to achieve the EO goals

Process Participation



In August 2016 the Urban Advisory Group (UAG) was formed to review and provide input on the draft proposal

- ◆ Approximately 35 water agencies and NGOs selected
- ◆ Dave Eggerton named to UAG to represent Sierra Nevada region
- ◆ ACWA comment letter submitted on October 18, 2016. Signed by 63 agencies.
- ◆ EO Agencies released a draft of proposal released on November 30, 2016
- ◆ CCWD and ACWA drafting group are finishing the second comment letter to be submitted on December 19. More than 100 agencies are expected to sign.



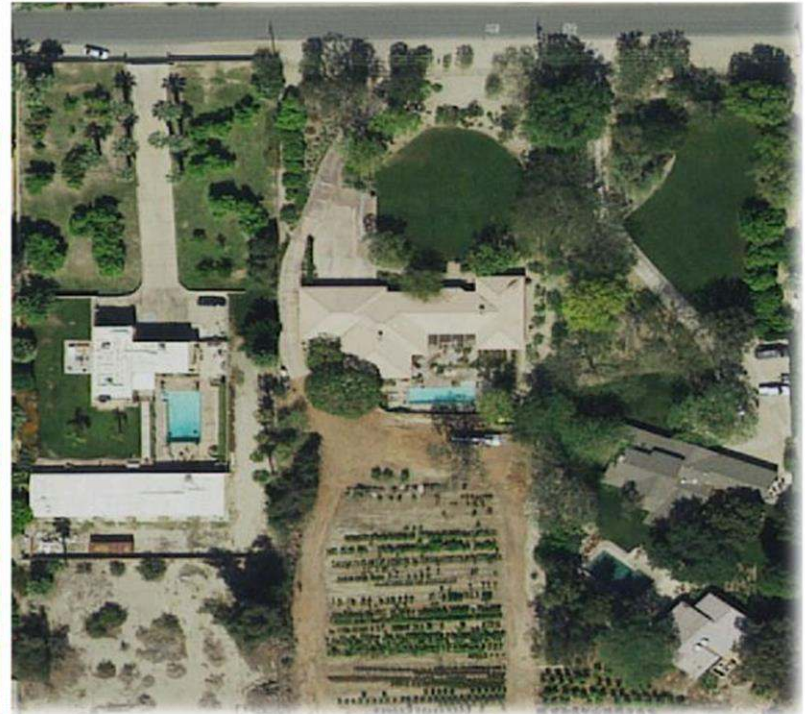
EO Directives 1-3

Use Water More Wisely

- ◆ Adjust emergency conservation regulations and develop proposal that builds off 25% conservation goal
- ◆ Establish long-term water use efficiency “targets” for agencies by establishing standards for indoor water use, outdoor water use and CII (commercial, industrial institutional) (Of primary concern for CCWD)
 - ◆ Indoor: 55 gallons per person per day (until 2025)
 - ◆ Outdoor: Determined using aerial imagery
- ◆ Permanently require monthly reporting: usage, conservation levels, enforcement

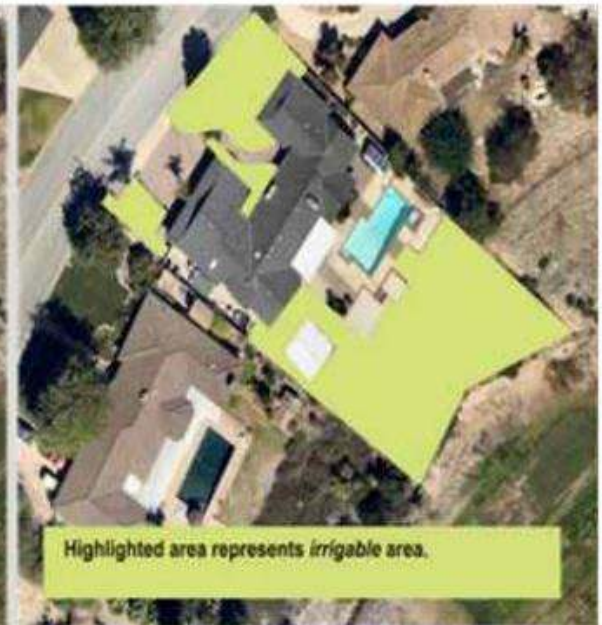
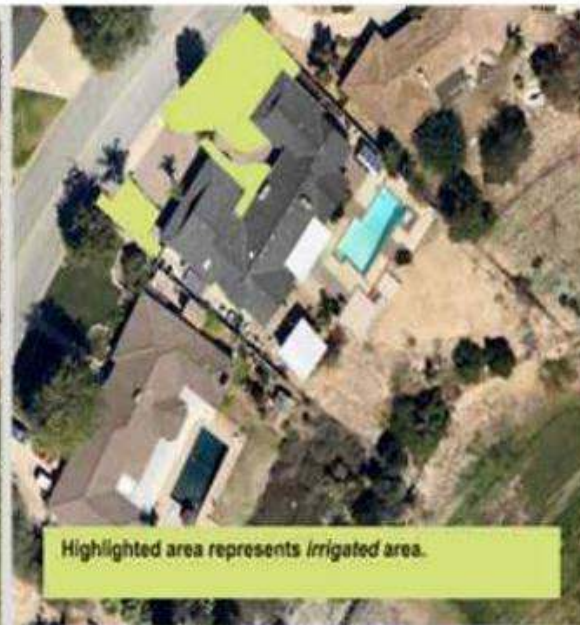
Example of Aerial Imagery

- Uses deep learning neural networks to classify land cover with accuracy exceeding 96%
- Distinguishes Irrigated, Manmade, Non-irrigated, Water bodies, Shrubs/Trees
- Separates building footprints and impervious surface measurements for storm water applications
- Provides both irrigated AND irrigable area calculations

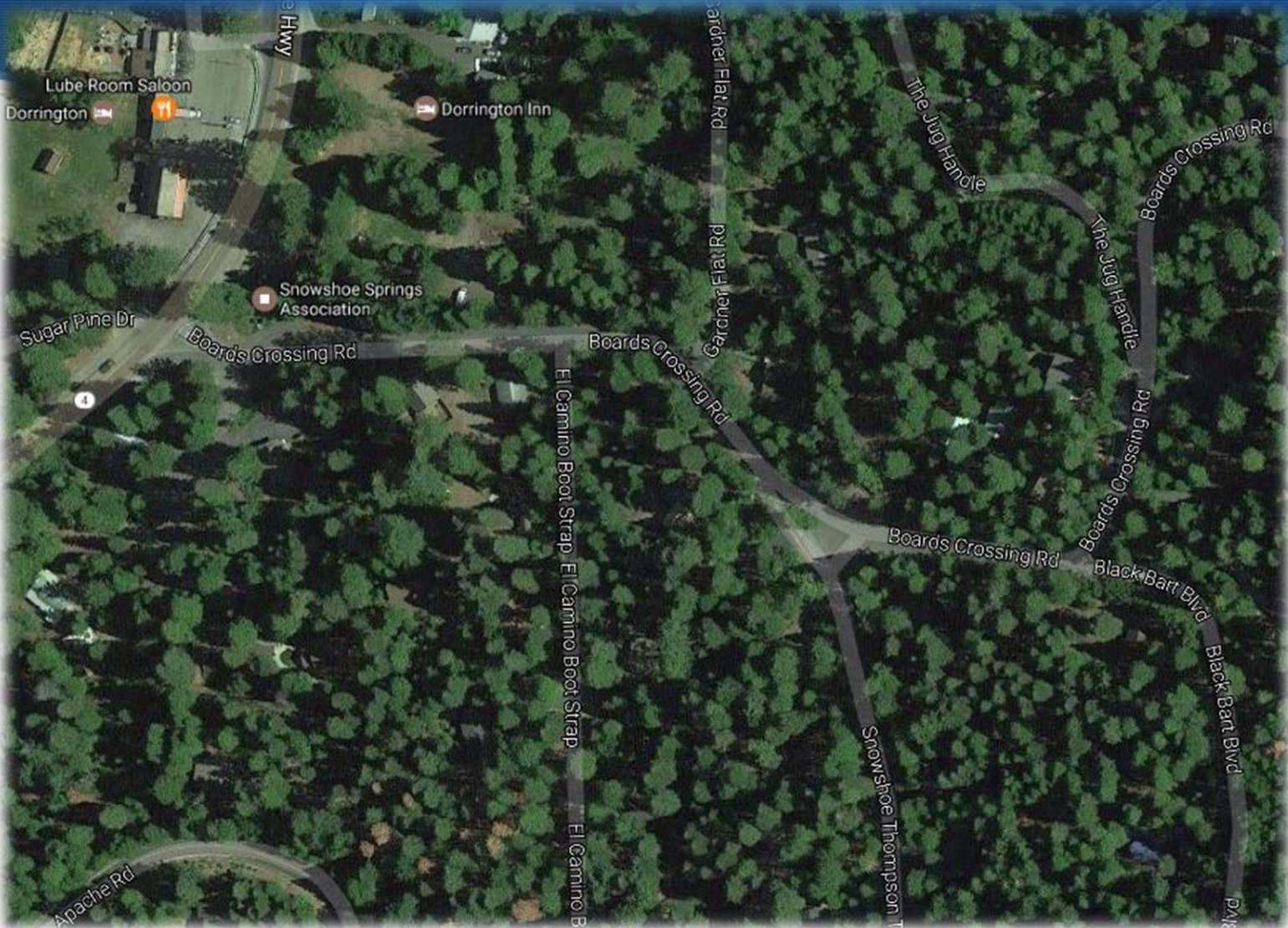


Irrigated vs. Irrigable

This enables agencies to compare these distinct landscape features and their corresponding water budgets, while providing a comprehensive picture of potential water demand.



Aerial Image of Dorrington



EO Directives 4-7

Eliminate Water Waste

- ◆ Permanently prohibit water waste practices
- ◆ Minimize system leaks
- ◆ Improve management and prioritize capital projects to reduce water waste
 - ◆ Capital R&R Program
- ◆ Certify innovative water conservation and water loss detection and control technologies



EO Directives 8-10

Strengthen Local Drought Resilience

- ◆ DWR to strengthen requirements for urban water shortage contingency plans
 - ◆ WSCP updated in 2016 as part of UWMP
- ◆ Create common standards and planning for at least five years of drought
- ◆ Facilitate improved drought planning for small water suppliers and rural communities



EO Directives 11-13

Improve Ag water Use Efficiency and Drought Planning

- DWR and California Department of Food and Agriculture to update existing requirements for Agricultural Water Management Plans (AWMP)
- Requirement for preparation of a permanent AWMP for suppliers with over 10,000 acres of land under irrigation



Implementation Authority

- ◆ **Within existing authority**
 - ◆ Emergency water conservation regulations 2017
 - ◆ Monthly reporting and permanent prohibitions of wasteful practices
 - ◆ Reduced water supplier leaks and water loss (SB 555)
 - ◆ Certification for water conservation energy efficiency
- ◆ **Need additional authority**
 - ◆ New water use targets based on strengthened standards
 - ◆ New water shortage contingency plan requirements
 - ◆ Drought planning for small systems and rural communities
 - ◆ Agricultural Water Management Plans





Concerns with the Current Proposal

- ◆ SB-x77 offered four methods of compliance for water conservation. The state has now chosen only one method of compliance. Only a few water agencies used this method under SB-x77. **No option for alternative compliance.**
- ◆ We are very concerned that the state agencies could determine future water use budgets, prohibitions and performance results without legislative approval
- ◆ Aerial landscape area measurement is unproven in foothills
- ◆ Disincentives for investments in new water supplies
- ◆ No express language protecting water rights
 - ◆ **Conserved water ownership**

Next Steps

- ◆ CCWD will continue working with ACWA to develop a second comment letter on the draft proposal. Comments are due by December 19, 2016
- ◆ The proposal will be submitted to the Governor on January 20, 2017. Final report released to the public by February 2017
- ◆ The Governor's Office will spearhead legislation to make the proposal into law
- ◆ CCWD will remain actively involved in the entire process

Figure 4-1. Anticipated Implementation Timeline for EO Directives

| Executive Order Items | Timeline for Actions and Implementation | | | | | |
|---|---|------|------|------|------|--------|
| | 2017 | 2018 | 2019 | 2020 | 2021 | Beyond |
|  Using Water More Wisely | | | | | | |
| Emergency Conservation Regulations (EO Item 1) | | | | | | |
| Conservation Requirements | █ | | | | | |
| New Water Use Targets (EO Items 2 and 6) | | | | | | |
| Data, Legislative Action, & Rulemaking | █ | | | | | |
| Targets Reporting | | █ | █ | █ | █ | |
| Full Compliance Achieved | | | | | | 2025 |
| Permanent Monthly Reporting (EO Item 3) | | | | | | |
| Rulemaking | █ | | | | | |
|  Eliminating Water Waste | | | | | | |
| Water Use Prohibitions (EO Item 4) | | | | | | |
| Rulemaking | █ | | | | | |
| Minimizing Water Loss (EO Items 5 and 6) | | | | | | |
| Annual Water Loss Audits | | █ | █ | █ | █ | █ |
| Water Loss Rulemaking | █ | | | █ | | |
| Innovative Water Loss & Control Technologies (EO Item 7) | | | | | | |
| Scope Development | █ | | | | | |
| Pre-rulemaking Activities & Rulemaking | | █ | █ | █ | | |
|  Strengthening Local Drought Resilience | | | | | | |
| Water Shortage Contingency Plans (EO Items 8, 9, and 6) | | | | | | |
| Legislative Action & Rulemaking | █ | █ | █ | █ | | |
| Requirements in Effect | | | | | █ | █ |
| Drought Contingency Planning for Small Water Suppliers & Rural Communities (EO Item 10) | | | | | | |
| Development schedule to be determined | █ | | | | | |
|  Improving Agricultural Efficiency and Drought Planning | | | | | | |
| Strengthened Agricultural Water Management Plan requirements (EO Items 11, 12, 13, 6) | | | | | | |
| Guidelines development, Legislative Action & Rulemaking | █ | █ | █ | | | |
| Reporting requirements | | | | █ | █ | █ |

Proposed Implementation Timeline

This Will be a Lengthy Process

End of Presentation

Are There Any Questions?

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