

Water and Bugs

Pitahaya Production Seminar

Eric Larson

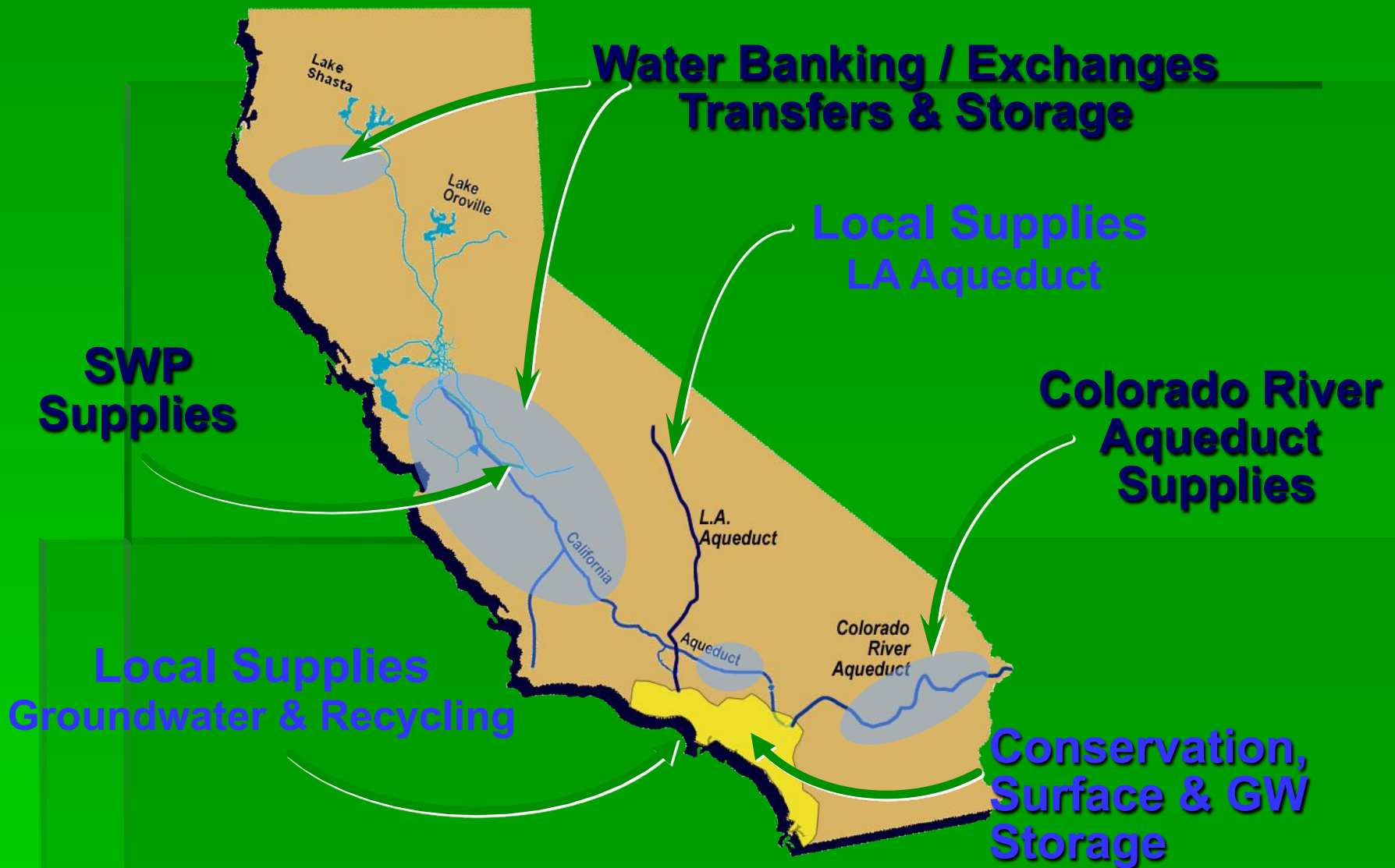
Executive Director

San Diego County Farm Bureau

Water Update Today

- Governor's April 1 emergency declaration for 25% reduction in urban water use
- Statewide conservation rules
- Every water district given a reduction percentage
- County Water Authority has cut TSAWR water users 15%

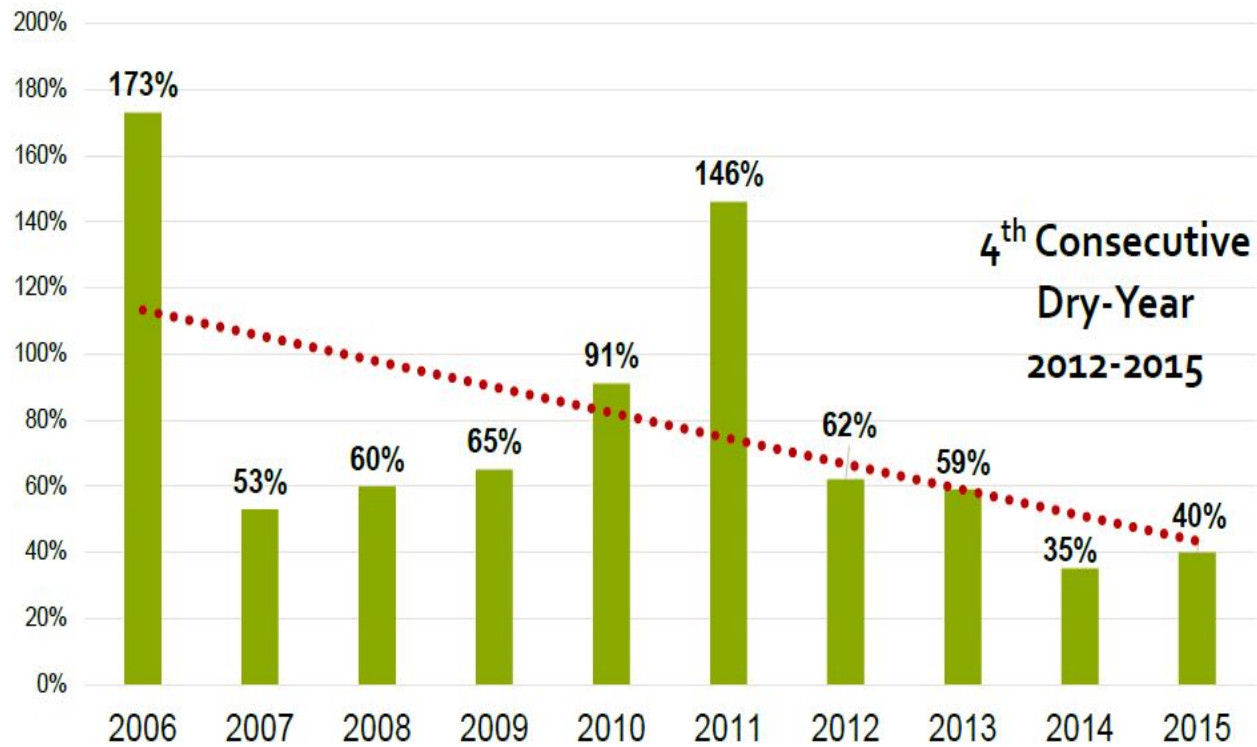
Where So. California Gets its Water





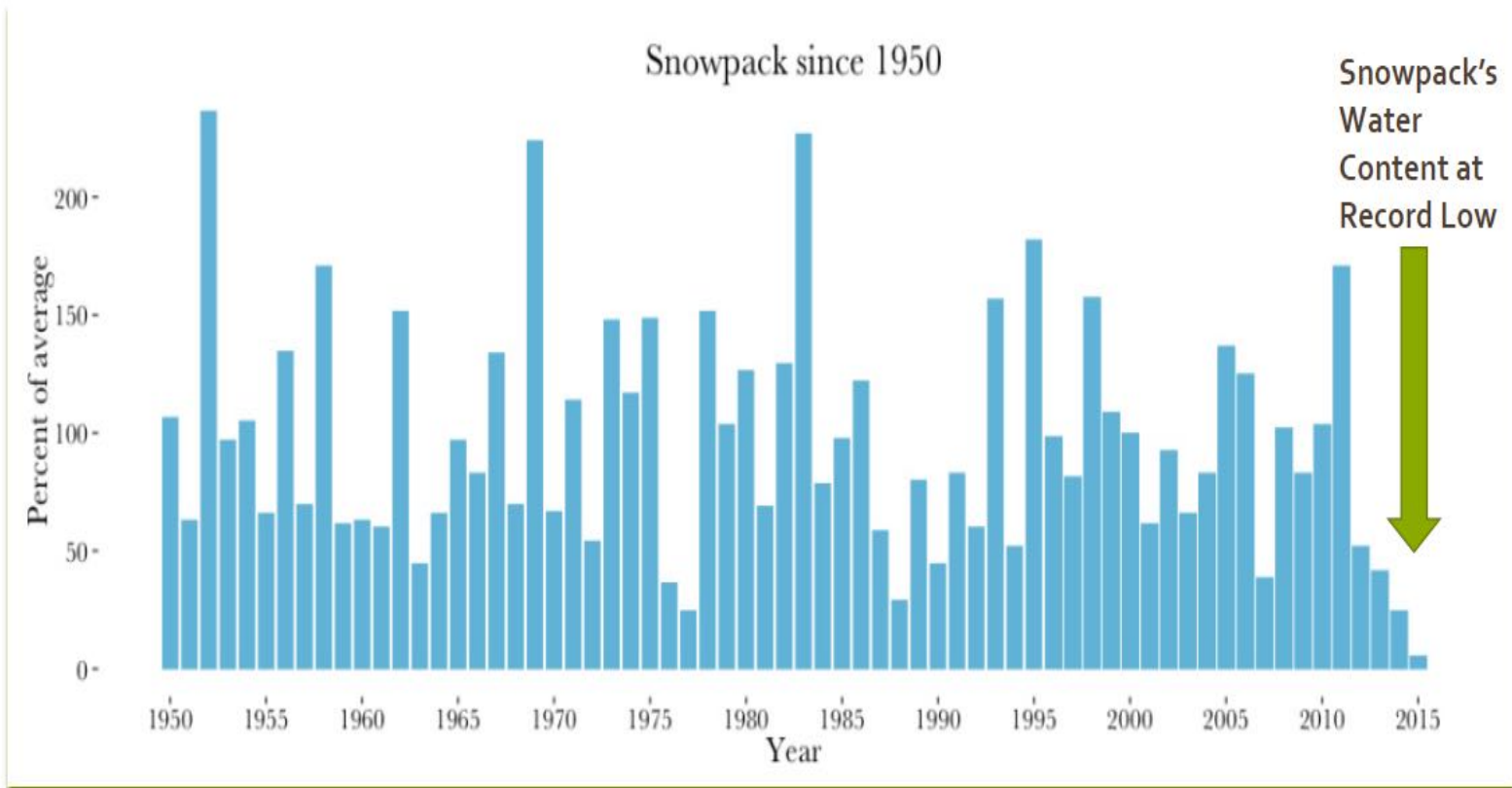


AVERAGE WATER YEAR STATEWIDE RUNOFF PERCENT OF AVERAGE (Water Year: Oct 1-Sept 30)



NORTHERN SIERRA SNOWPACK

 5% of Normal



Water Supply Issues

- Ongoing California drought
- Colorado River storage low
- Less precipitation in snow, melting earlier
- Insufficient storage statewide
- Multiple years of storage drawdowns
- Delta smelt and fragile levees
- 20 million fewer Californians when system completed







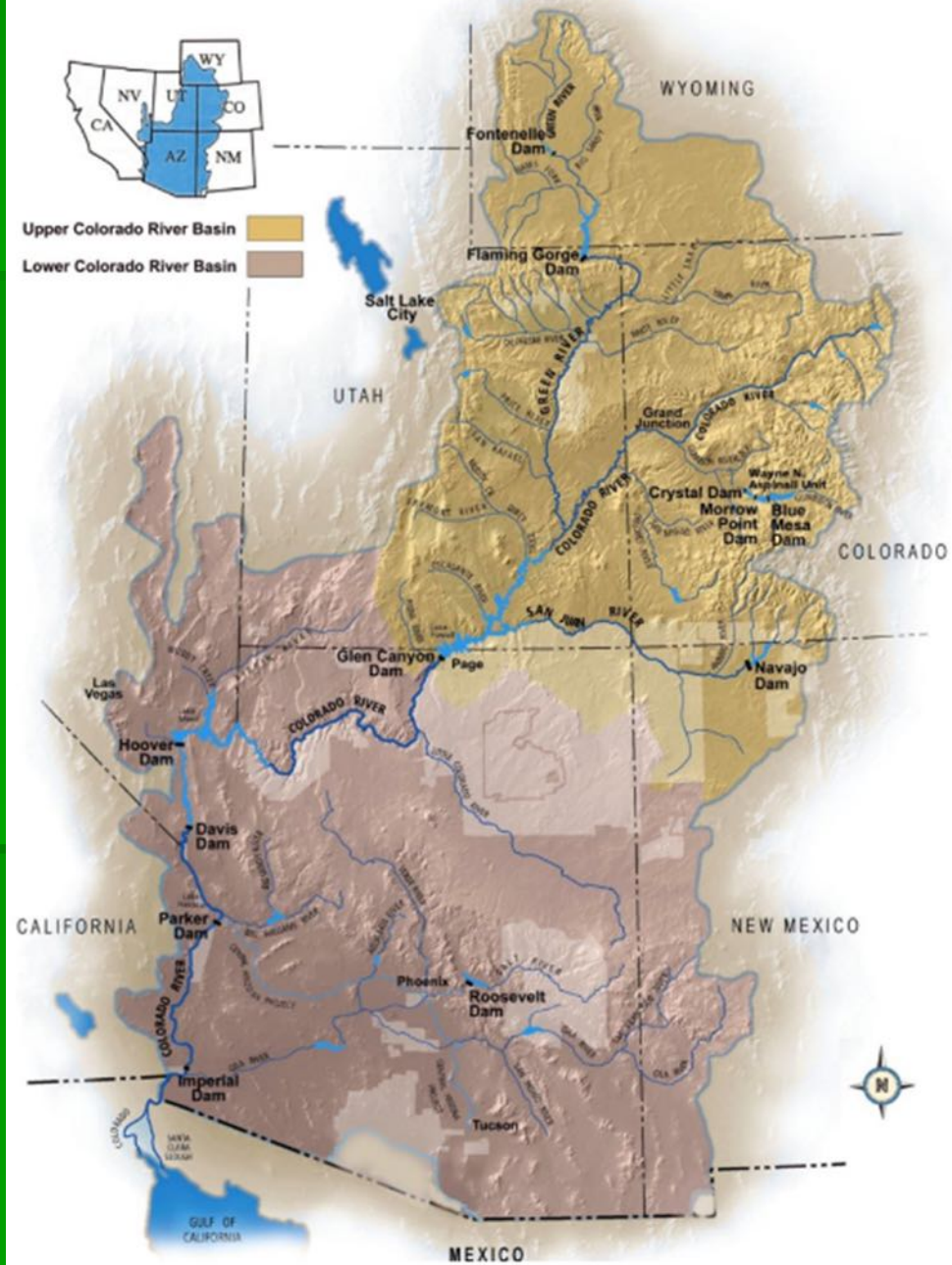
California Service Areas



Colorado River Basin



Upper Colorado River Basin 
Lower Colorado River Basin 



What Needs to Be Done

- Salton Sea Solution
- Diversified Sources
 - Desalination
 - Indirect and Direct Potable Reuse
- Fix the Delta
- Build More Storage
- Reduce Per Capita Consumption

Water Pricing

- New sources are expensive
 - Transfers
 - Desalination
 - Recycling
- Less water delivered by system means each gallon sold carries more costs
- Delta and storage fix will be expensive

2016?

- Colorado River Supplies secure
- No certainty for Sierra snow
- El Niño
 - Pacific conditions are increasing
 - “Godzilla” of El Niños
 - Above normal rain expected for SoCal
 - Will increase storage?
 - Not likely a “drought buster”

Pests and Pest Exclusion

- Exotic pests can't travel here on their own
- Traveling public introducing exotic pests
- Movement of plant material
- Volume of travelers and packages
- Border priorities have shifted
- Agency budgets becoming an issue
- Quarantines have become common

Fruit flies



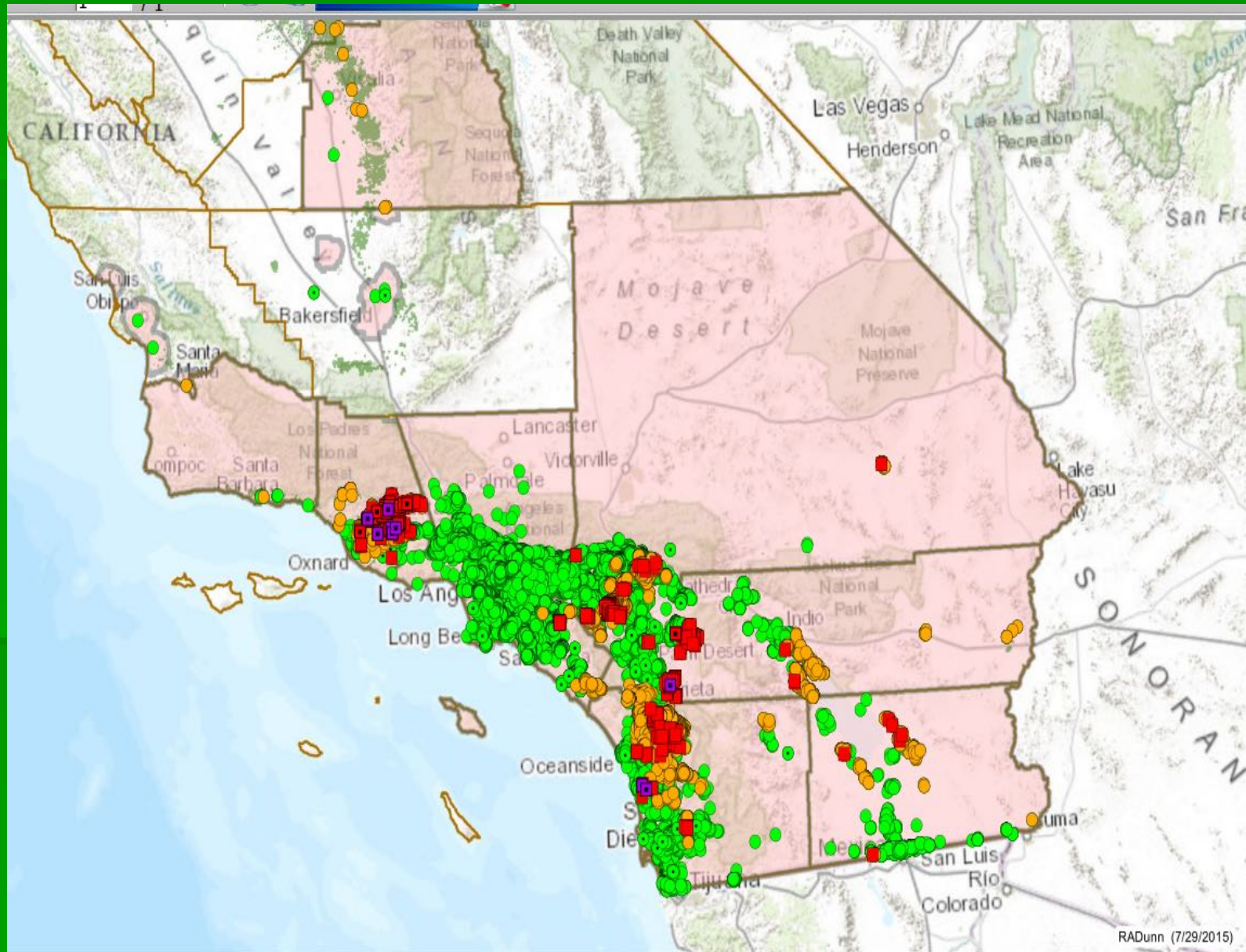
Light brown apple moth



Asian citrus psyllid



Polyphagous SHB



Impact from New Pests

- Shipping restrictions for growers
- Additional use of pesticides
- Extreme threat to organic growers

