

Sustainable Agricultural Solutions to Climate Change



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Climate Change Impacts

Increased water scarcity

Crop yield reductions; shifting crop patterns

Increased /shifting pest & disease pressures

Reduced winter chill hours

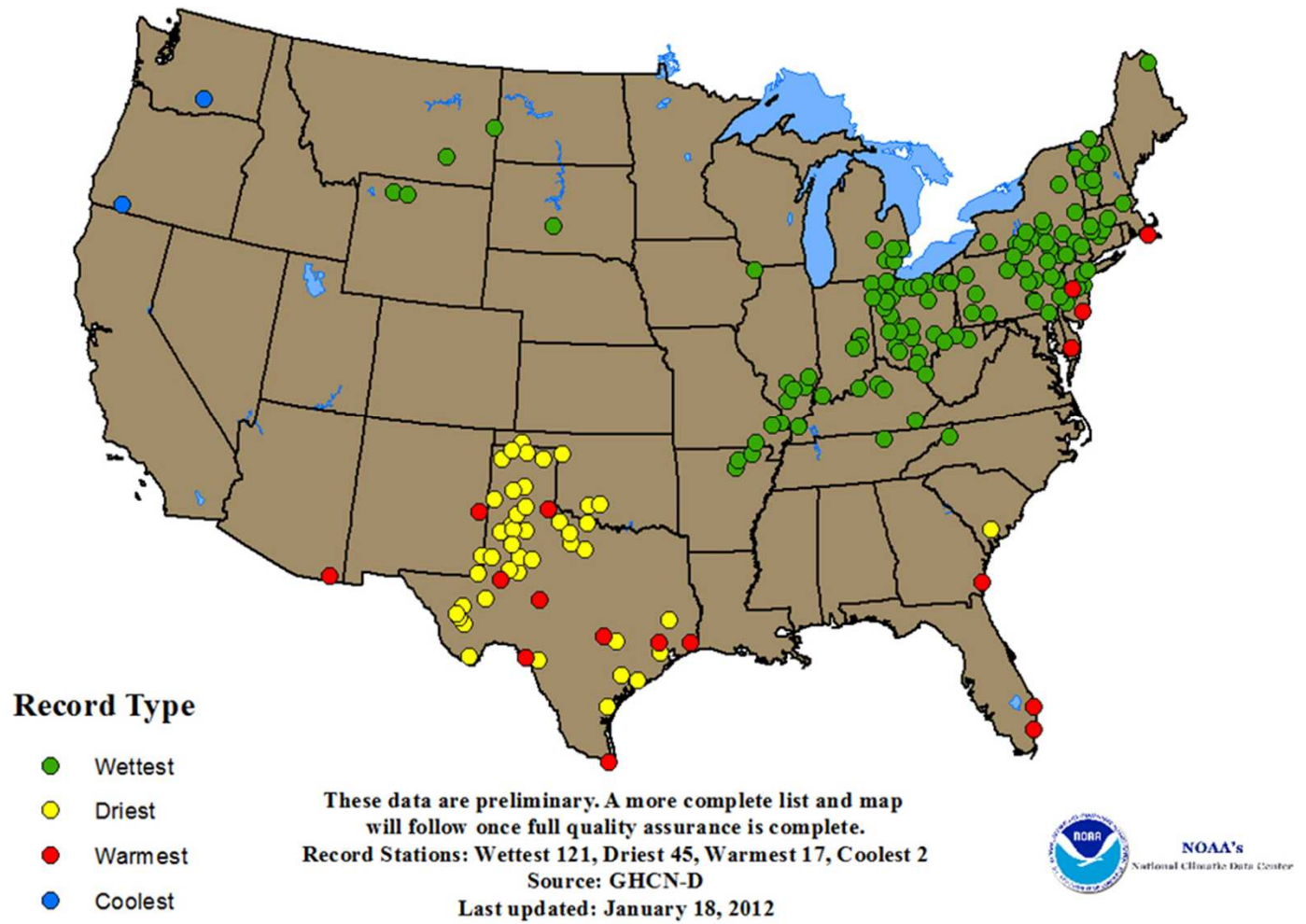
Heat stress for people and livestock

Erratic & extreme weather events



Increases in Extreme Weather: Economic Impacts on Agriculture

Selected Annual Climate Records for 2011



Sustainable Agricultural Solutions to a Changing Climate

- **Build Soil Health**
- **Increase Biodiversity**
- **Reduce Off-farm Inputs**
- **Water Use Efficiency**
- **Organic Farming**
- **Farmland Protection**



Ready...Or Not?

An assessment of California agriculture's readiness for climate change
(March 2011)

- **Research**

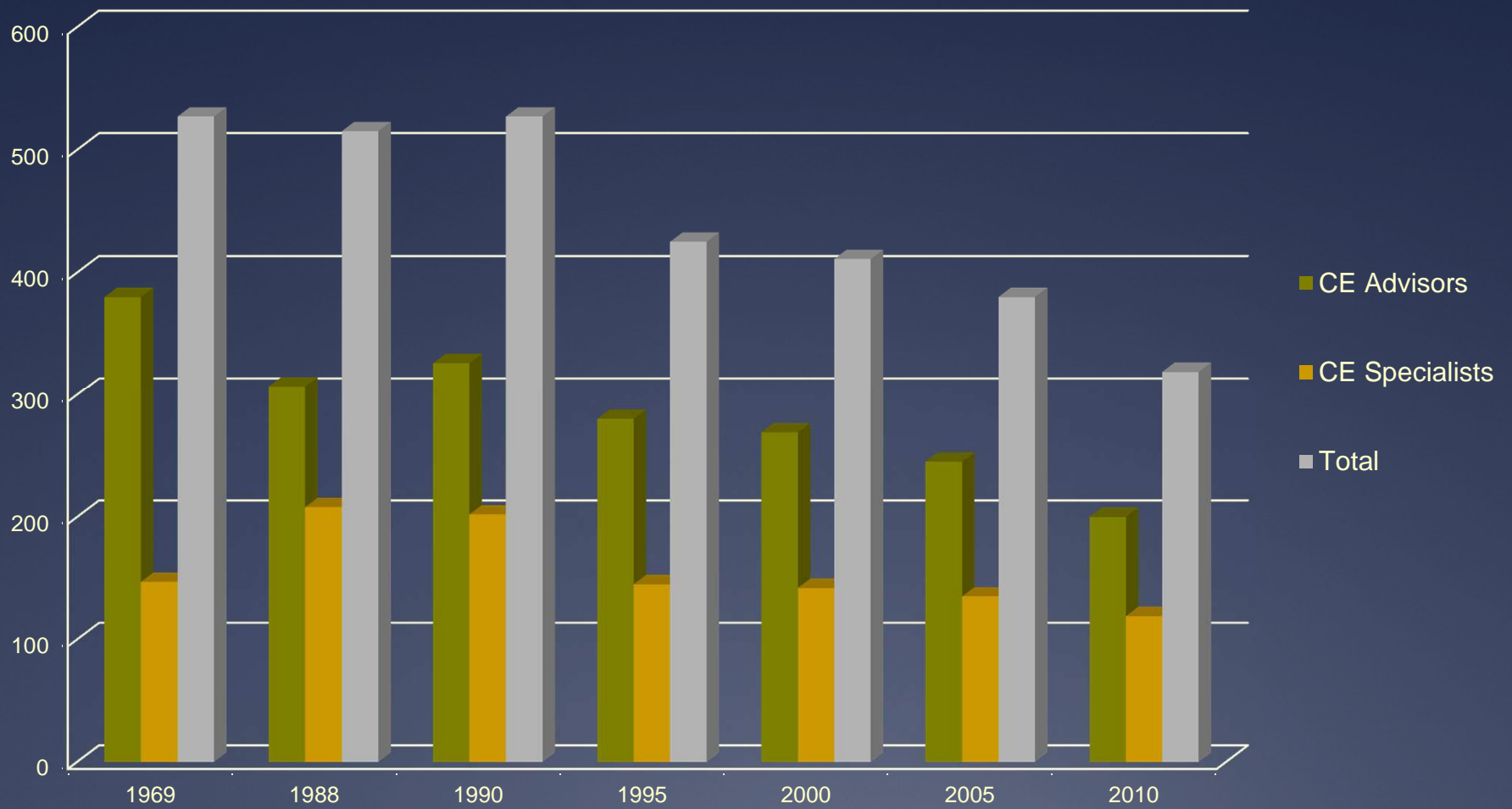
Since 2007, identified only 39 publicly funded research projects that focused on CA agriculture-specific climate mitigation and adaptation activities.

- **Direct Conservation Incentives**

Unlike other states, CA lacks direct incentive programs for producers to adopt on-farm conservation programs.

- Congressional cuts to USDA conservation programs

Technical Assistance



Supporting California Agriculture in Addressing Climate Change

- California-specific research on mitigation & adaptation solutions
- Technical assistance
 - Coop Extension
 - NRCS
 - RCD
 - Nonprofits
- On-farm conservation incentives: Whole farm approach
- Adequate, whole farm insurance



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