



California Regulators – Creating Ag Tech Opportunities or Roadblocks?

Essential Elements 5

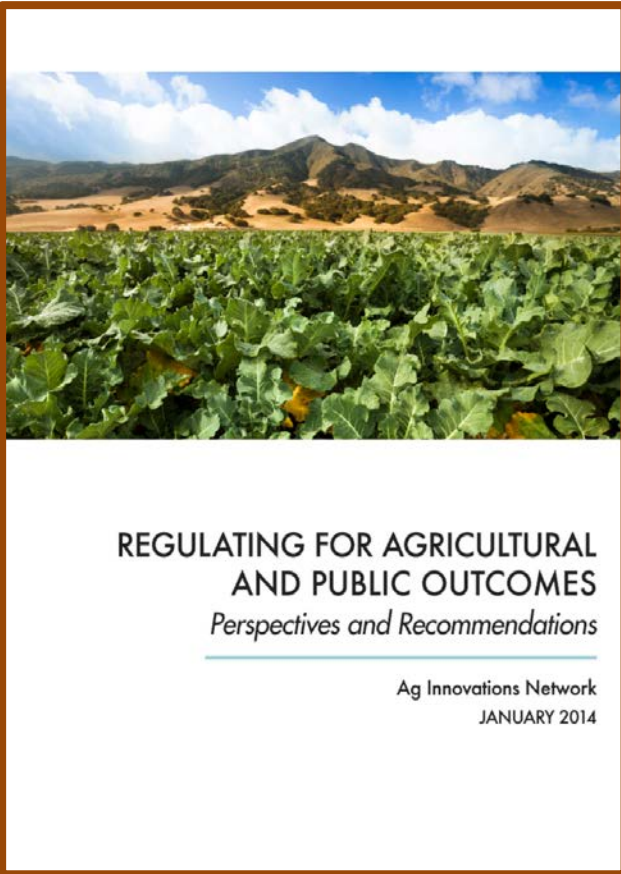
November 2, 2016

California Private Rangeland Water Quality Management Plan

Responsible Agencies and Authorities

2/22/94

AUTHORITIES	ACOE §404	F&W ESA	CAF&G §1603	CAF&G §2080	RWQC Permit	RWQC Abate	COAST Permit	OTHER Permits
Grazing Management		POSSIBLE		POSSIBLE				
3.1 Grazing on Uplands								
3.2 Grazing on Riparian		"		"				
3.3 Woodland Grazing		"		"				
3.4 Grazing Systems		"		"				
3.5 Deferred Grazing		"		"				
3.6 Livestock Exclusion		"		"				
3.7 Prescribed Grazing		"		"				
Structural								
4.1 Access Roads	YES IF CROSS WETLANDS		YES IF CROSS STREAM	"		YES IF BAD		GRADING PERMITS REGIONAL NGL STATE BOARD
4.2 Fencing	YES, PER WETLANDS			"			XIOAA	ANTELOPE - WILKE
4.4 Pipelines			YES, IF	"				PHILMINE
4.5 Ponds			YES, ON STREAM	"		MAYBE		DAM SAFETY
4.6 Sediment Basins	same as 4.5			"				WATER RIGHTS
4.7 Spring Development	MAYBE		POSSIBLE	POSSIBLY				WATER RIGHTS
4.8 Trails or Walkways	"		"	"				
4.9 Streambank Protection	"	"	"	"				POSSIBLY COUNTY
4.10 Troughs and Tanks				"				
4.11 Landslide Treatments				"				NPDES CERTIFIED GEOLOGIST
4.12 Well				"				COUNTY ?
4.13 Stream Crossing	YES		POTENTIALLY	"				



- ✓ Reduce conflict and increase innovation by building understanding among stakeholder groups.
- ✓ Reduce regulatory "friction" by improving interagency coordination.
- ✓ Reduce the cost of complying with regulations by creating vehicles to easily discover and navigate regulatory requirements.

www.aginnovations.org/result/2015-05-10/regulating-for-agricultural-and-public-outcomes-perspectives-and-recommendations

NEW CALIFORNIA LAW FORCING LOCAL DAIRY INDUSTRY TO DRASTICALLY REDUCE METHANE POLLUTION BY 2030

CALIFORNIA'S SACRAMENTO-SAN JOAQUIN DELTA

The Biggest California Water Decision You've Never Heard Of

By **Lauren Sommer**, KQED Science
AUGUST 19, 2016

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Agriculture reacts to California's new overtime law

by [Todd Fitchette](#) in Farm Press Blog

Sep 12, 2016

- Some California growers are beginning to look for an exit strategy to their business operations
- Dairymen decades ago began fleeing California because of its milk order that pays less than federal milk orders
- Fruit and vegetable growers will be forced to automate or leave the state as business costs escalate

Los Angeles Times

California proposes pesticide buffer zones around schools and day cares

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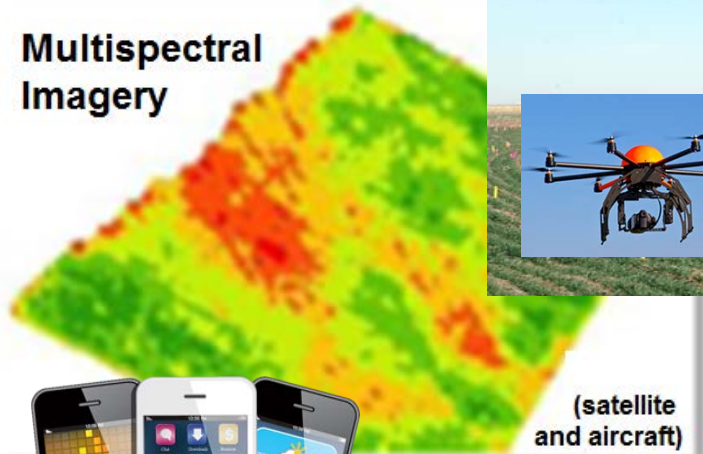
THE SACRAMENTO BEE

FULL MENU NEWS SPORTS ENTERTAINMENT CLASSIFIEDS MY FEED

WATER & DROUGHT OCTOBER 19, 2016 2:21 PM

Growth in Food, Fiber & Natural Resources' Sectors Require Innovation & New Tech

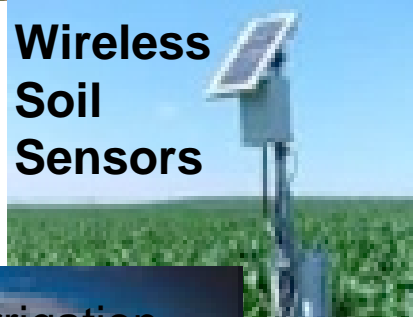
Multispectral Imagery



Ag Drones

(satellite and aircraft)

Wireless Soil Sensors



Test kit detects foodborne pathogens

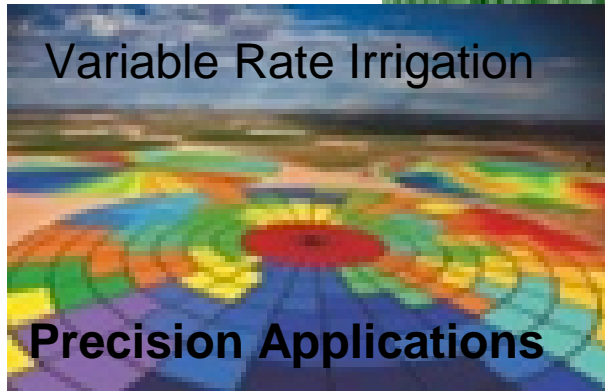
By Jenni Spinner, 09-Jul-2013



Food Safety

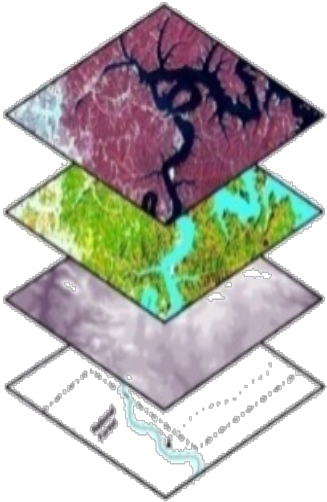
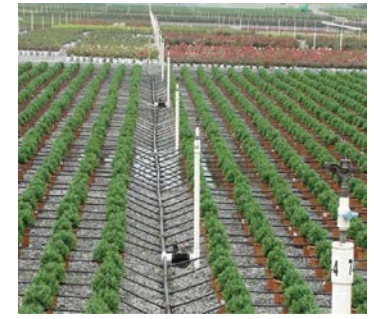


Variable Rate Irrigation



Precision Applications





Don Cameron, Member
California Board of Food & Agriculture

Brian Leahy, Director
CA Department of Pesticide Regulation

Darrin Polhemus, Deputy Director
State Water Resources Control Board

Thomas Tomich, Director
UC Agricultural Sustainability Institute