## Item 15 Irrigated Lands Regulatory Program

Summary of Program Compliance &

Water Quality Management Practices

**Central Coast Water Board** 

Chris Rose, ILRP Program Manager Elaine Sahl, Water Board Staff May 28, 2015

#### **Summary of Program Compliance**

- Updated and provided annually to the Board
- Levels of reporting compliance remain positive and continue to increase
- Staff continues to prioritize follow-up as past due requirements are evaluated

### **Summary of Program Compliance**

Agr	Agricultural Order - Summary of Compliance <sup>1</sup>															
TIER					2012 2				2013 <sup>3</sup>				2014 4			
1	2	3	Agricultural Order R3-2012-0011 Requirement	Reporting Level	(equired to Comply (#)	ailed to Comply (#)	າ Compliance (%)	Ion-Compliance (%)	tequired to Comply (#)	ailed to Comply (#)	າ Compliance (%)	lon-Compliance (%)	Required to Comply (#)	ailed to Comply (#)	າ Compliance (%)	lon-Compliance (%)
√	√	√	Enroll - Submit eNOI	Farm Acres	435,000	26,128	94%	6%	435,000	15,396	96% 4%		435,000	25,540	94%	6%
√	√	√	Develop/Update Farm Plan.	Operation	1,739	291	83%	17%	1,739	289	83%	17%	1,796	288	84%	16%
√	√	√	Install Backflow Prevention Device	Farm					2,263	120	95%	5%	3,093	104	97%	3%
√	√	√	Update electronic-Notice of Intent	Farm	4,196	1,010	76%	24%	4,277	1,987	54%	46%	4,322	993	77%	23%
√	1	√	Report surface receiving water monitoring (Cooperative)	Operation	1,695	0	100%	0%	1,693	196	88%	12%	1,775	147	92%	8%
√	1	√	Report surface receiving water monitoring (Individual)	Operation	44	44	0%	100%	46	46	0%	100%	21	21	0%	100%
√	1	√	Report groundwater monitoring (Cooperative)	Farm					1,519 0 100% 0%		0%	1,861	Pending Staff Evaluation			
2	al.	2	Report groundwater monitoring	Domestic Drinking Water Well					842	444	47%	53%	876	225	74%	26%
,	v .	٧	(Individual)	Agriculture Well					1,579	679	57%	43%	1,657	410	75%	25%
	√	√	Submit Annual Compliance Form.	Farm	1,810	460	75%	25%	1,824	428	77%	23%	2,168	245	89%	11%
	<b>V</b>	√	Calculate risk of loading nitrate to groundwater.	Farm									2,168	245	89%	11%
	√	√	Conduct photo-monitoring to	Farm	468	153	67%	33%								
	√	√	Record and report total nitrogen applied	Farm									467	0	100%	0%
		√	Report individual discharge monitoring.	Farm									14	0	100%	0%

<sup>&</sup>lt;sup>1</sup> Compliance evaluation is based on information reported by growers, results are approximate.

<sup>&</sup>lt;sup>2</sup> 1,739 total operations enrolled = 4,196 total farms enrolled (as of 12/04/2012)

<sup>&</sup>lt;sup>3</sup> 1,739 total operations enrolled = 4,277 total farms enrolled (as of 09/25/2013)

<sup>4 1,796</sup> total operations enrolled = 4,322 total farms enrolled (as of 12/01/2014)

# Annual Compliance Form Purpose

- Provide growers an opportunity to report out on practices they are implementing and assessing
- Provide Water Board staff up-to-date information to assist in evaluation of agricultural waste discharges
- Evaluate progress towards compliance

# Annual Compliance Form Sections

- Primary Source of Irrigation Water
- Groundwater Nitrate Loading Risk
- Discharge Characteristics
- Water Containment Characteristics
- Water Quality Improvement Projects
- Water Quality Management Practices

#### Water Quality Management Practices

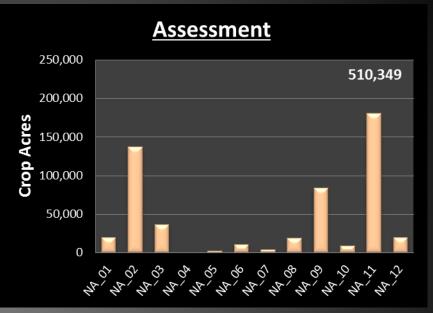
- Water Quality Management Practices Section has been available to growers since October 2013.
- Staff has one full year (October 2013 and October 2014) of data to assess and will use this data as a baseline in the years ahead.

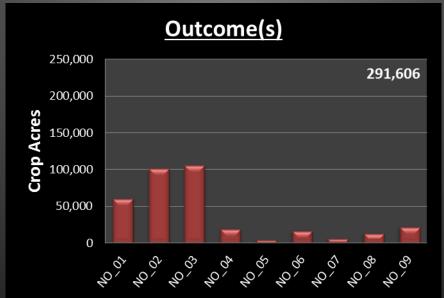
#### Water Quality Management Practices

Section H: Water Quali	Irrigation Manage	me Pestici	de Management	Sediment Management - Practice Implementation
Nutricut Management	Identify irrigation	mar Identif	y pesticide manag	
Nutrient Management - Identify nutrient manage				None None
None	Determin	ed a	None	Avaided dicturbance of calls adjacent to streams, creeks, and other surface water hadjac
Evaluated how r	Installed in the last of th		Certified Organic	Minima description of horses of hors
Scheduled fertili	Improved	irriq	Utilized Integrate	Minimized presence of bare soil in cropped areas.
Measured nitrog			Selected lower r	Minimized presence of bare soil in cropped areas.  Minimized tillage to protect soil structure and cover soil.
Measured soil n	Schedule		Followed specifi	Used soil amendments to protect soil structure.
Used precision t fertigation).			Avoided pesticid	✓ Planted cover crops.
Measured nitrog	Selected rates.		Avoided pesticid	Trained cover crops.
✓ Measured phosy			Avoided pesticid	This is the few proper drainings and to reduce election.
Measured nitrog			Eliminated or co	Enverted fulfor and concentrated nows to grassed areas.
Mixed and loade	Containe			— Controlled Concentrated drainage of roads by grading to reduce erosion of installing curvers, rolling dips, driderground outlet pipe(s).
Used urease int	Other, de	scri	Eliminated or co	and talled med stape, regetated treatment of other systems to remove seament and other polations from ration.
Modified crop ro	Irrigation Manage	me	Treated irrigation	
Used treatment	Identify methods	use	Used filter strips	
Other, describe	wastes from this		Mixed and loade	Other, describe in Farm Plan and submit upon request.
Nutrient Management - Identify methods used to	Not Asse		Other, describe	Sediment Management - Practice Assessment
wastes from this ranch /	Walked the Recorded	Doctici	ide Management -	Identify methods used to assess the effectiveness of the implemented management measure(s)/practice(s), to reduce or eliminate the discharge of wastes from this ranch / farm in the last 12 months.
Not Assessed		Identif	, manthada usaad ta	
Compared amou	Compare	wastes	from this ranch /	Not Assessed
Measured nitrate		u ai	Not Assessed	Walked the perimeter of the property to verify erosion controls and that sediment doesn't leave the ranch/farm during irrigation events and/or storm events.
Measured nitrate	Conducte		Conducted field	
Estimated/meas	Conducte		Conducted labor	Conducted laboratory analysis, field quick tests or used handheld meters to measure turbidity in irrigation runoff.
Measured nitrate	Modeled		Measured pestion	Estimated Seament load in infigation and stormwater randin.
<ul> <li>Estimated/meas</li> <li>Estimated/meas</li> </ul>	Conducte			
✓ Measured nitrate	Consulted	d wi	Measured pestion	
Modeled or stud	outer).		Modeled or stud	
Consulted with	Utilet, de		Conducted phot	a Marana
other).	Irrigation Manage Identify outcomes	th:	Consulted with a	other).
Other, describe	any.	oth	,	Other, describe in Farm Plan and submit upon request.
Nutrient Management - Identify outcomes that d	None		Other, describe	<u>Sediment Management - Practice Outcome(s)</u> Identify outcomes that demonstrate progress towards reducing or eliminating the discharge of wastes off this ranch / farm in the last 12 months, if
any.	Volume o	f wa <u>Pestici</u>	de Management -	any.
✓ None			y outcomes that d	None
Annual fertilizer	Number of			Soil coverage increased and amount of bare soil reduced.
Total nitrogen approximation			None	Reduction in turbidity or sediment load in irrigation runoff.
Reduction in nitr	☑ Eliminatio		Annual pesticide	Reduction in turbidity or sediment load in imgation funds.  Reduction in turbidity or sediment load in stormwater runoff.
Reduction in nitr	Reduction		Reduction in pes	
Reduction in niti	Reduction		Reduction in pes	Reduction in turbidity of sediment load in surface receiving water.
Reduction in nitr	Reduction		Water quality sta	Reduction in stormwater now and/or volume.
	Water qui Other, de			- Tratel quality standards definered.
Uther, describe	Uniel, de	out	Other, describe	Other, describe in Farm Plan and submit upon request.

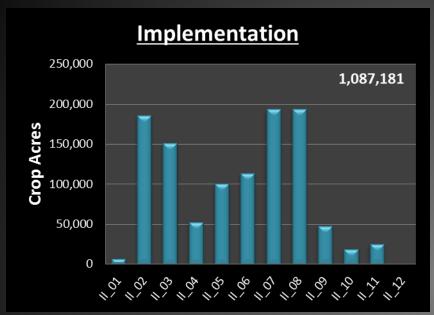
#### **Nutrient Management**

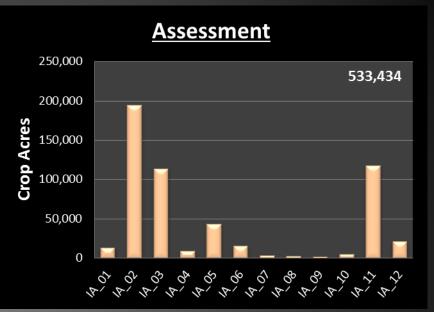


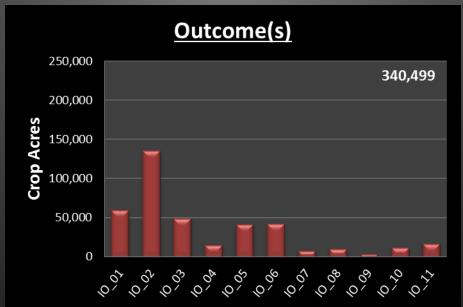




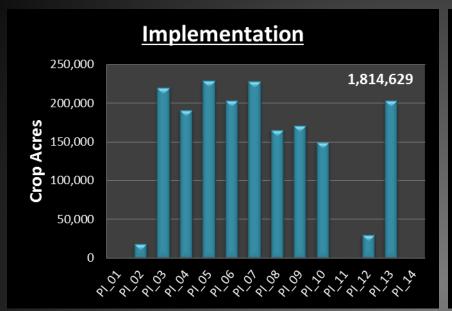
#### **Irrigation Management**

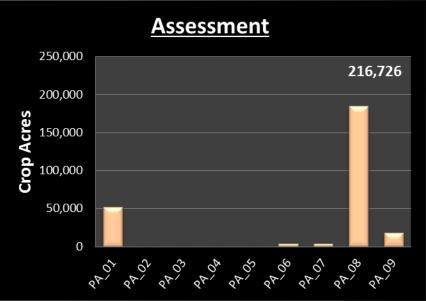


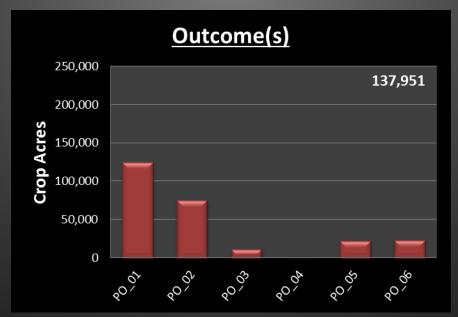




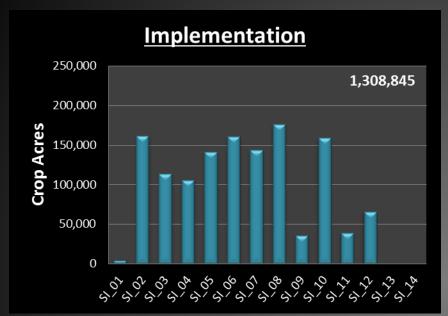
### **Pesticide Management**

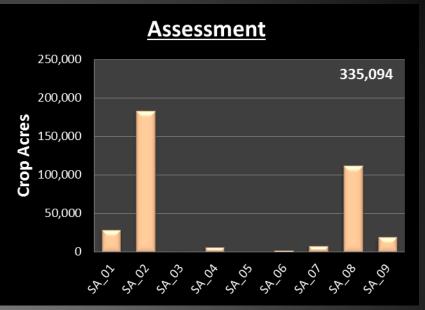


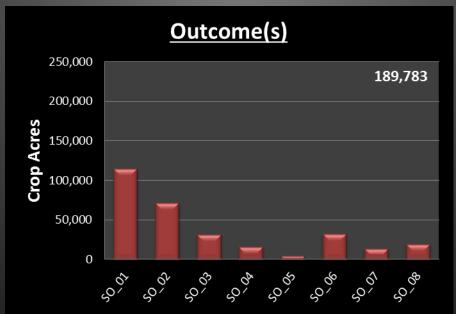




### **Sediment Management**







#### Conclusion

- Water quality management practice baseline has been established
- Annual Compliance Form is an important reporting tool

 Levels of Agricultural Order reporting remains positive and continues to increase

### Next Steps

Workshops

Prioritization

### Questions