

January 13, 14 and 15, 2020

University of California Agriculture and Natural Resources

University of California Rice On-line

Home

GUIDELINES FOR GROWERS

- Varieties
- Water Use Management
- Harvest & Grain Quality
- Fertilizer
- Insects & Other Pests
- Diseases
- Weeds
- Straw Management
- Production Costs
- Delta Rice

Welcome

University of California Rice On-line is an interdisciplinary team consisting of UC Cooperative Extension specialists, faculty and farm advisors dedicated to providing rice growers with up-to-date guidelines and information on rice production in California.

Click to tell us!

What would you like to see on the UC Rice web site?

NEW!

Degree Day Model

Estimate rice growth stages for water control rice

UC Rice Blog

2016 Annual Rice Grower Meetings

Added January 6, 2016

WHERE & WHEN Richvale:
Tuesday, Jan. 19, 8:30 am
Evangelical Church, 5219 Church St., Richvale
Glenn: Tuesday, Jan. 19, 1:30 pm, Glenn...

2016 Rice Grower Winter Meetings - Save the Date

Added December 21, 2015

WHERE & WHEN Richvale:
Tuesday, Jan. 19, 8:30 am
Evangelical Church, 5219 Church St., Richvale
Glenn: Tuesday, Jan. 19, 1:30 pm, Glenn...

In The News

- California Calrose Wins 2015 World's Best Rice Award | See Sacramento Bee article
- Amyworms invade rice! Amyworm feeding can cause the panicle to turn white and fall.
- Debido a la sequía decline la producción de arroz (Long-term drought causing rice production decline)
- Rice disease-resistance discovery closes the loop for scientific integrity
- Why a "super Bt Niño" could still be a bust for California drought relief
- Rice production and water efficiency: Bruce Linquist reports

PRIMARY CONTACTS

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OTHER CONTACTS

Upcoming Rice Meetings and Events

Event Name	Date
2016 Rice Growers Winter Meetings	1/19/2016
36th Biennial Rice Technical Working Group	3/1/2016

County Cooperative Extension Newsletters

The following Cooperative Extension county offices distribute periodic Newsletters that contain useful information, announcements and resources about rice (and other crops). Click to subscribe!

Colusa, Butte and Sutter/Yuba County rice newsletters serve Sacramento Valley counties and may contain the same or similar content:

- [**Colusa County, RICE BRIEFS**](#)
- [**Butte County, RICE LEAF**](#)
- [**Sutter/Yuba Counties, RICE NOTES**](#)

• [**San Joaquin County, FIELD NOTES**](#)

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Noniscrimination Statement

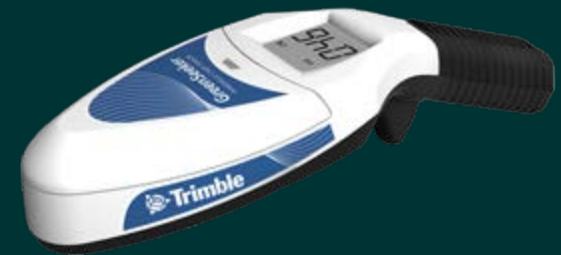
Accessibility

Three items

- Remote Sensing to determine crop status at PI
- What to do when you can't apply aqua-N
- Considerations when straw is bailed

Opportunities to use remote sensing to identify mid-season N status

- Objective
 - Determine if top-dress N is necessary
 - Should it be planned on?
 - Identify tools to determine it necessity.
 - Focus on remote sensing
 - GreenSeeker and drones



Methodology

- Site years
 - 3 in 2016
 - 3 in 2017
 - 4 in 2018
 - 4 in 2019
- Preplant N rates
 - -ranged from 0 to excessive
- Each N rate receives top-dress N at PI
 - 30 lb/ac in 2018 and 2019
- NDVI (and NDRE in 2018, '19) taken at PI before top-dress

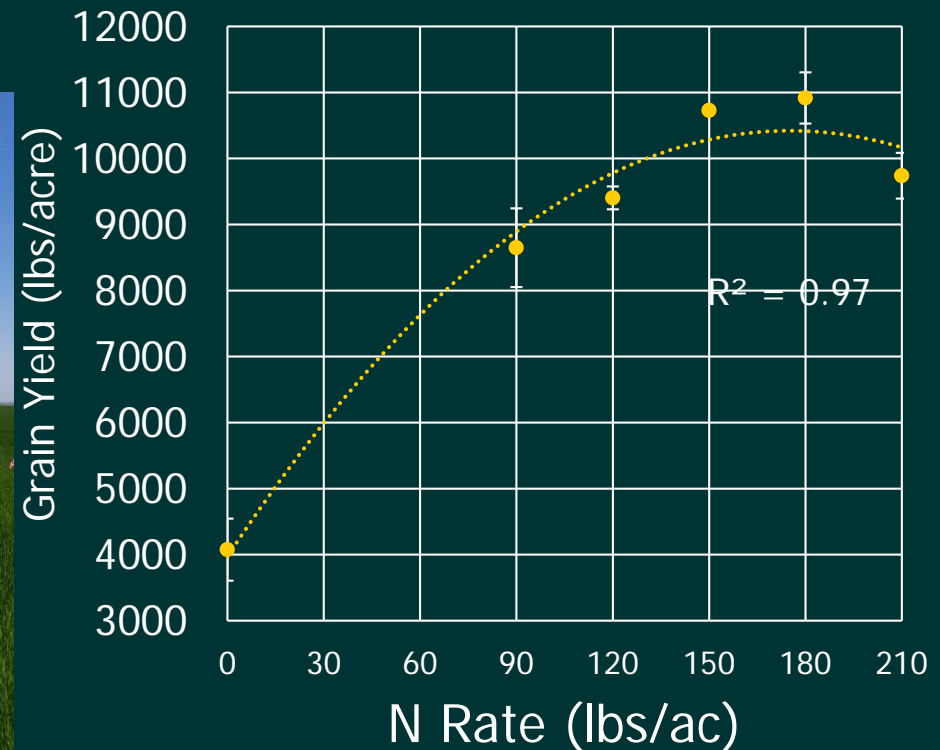


Response index

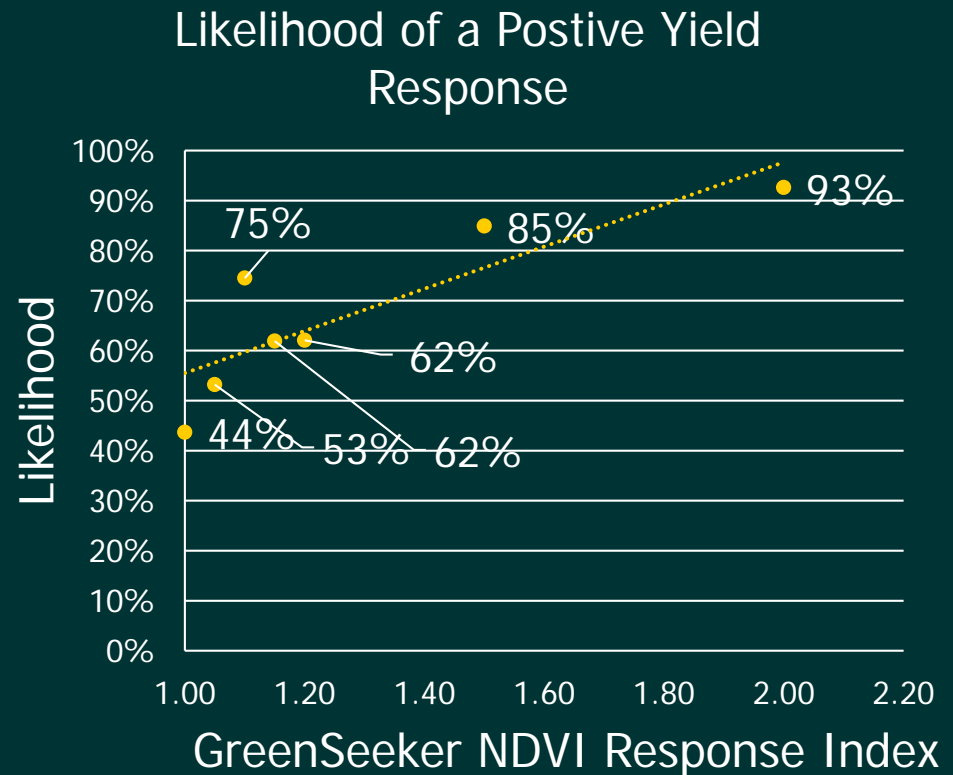
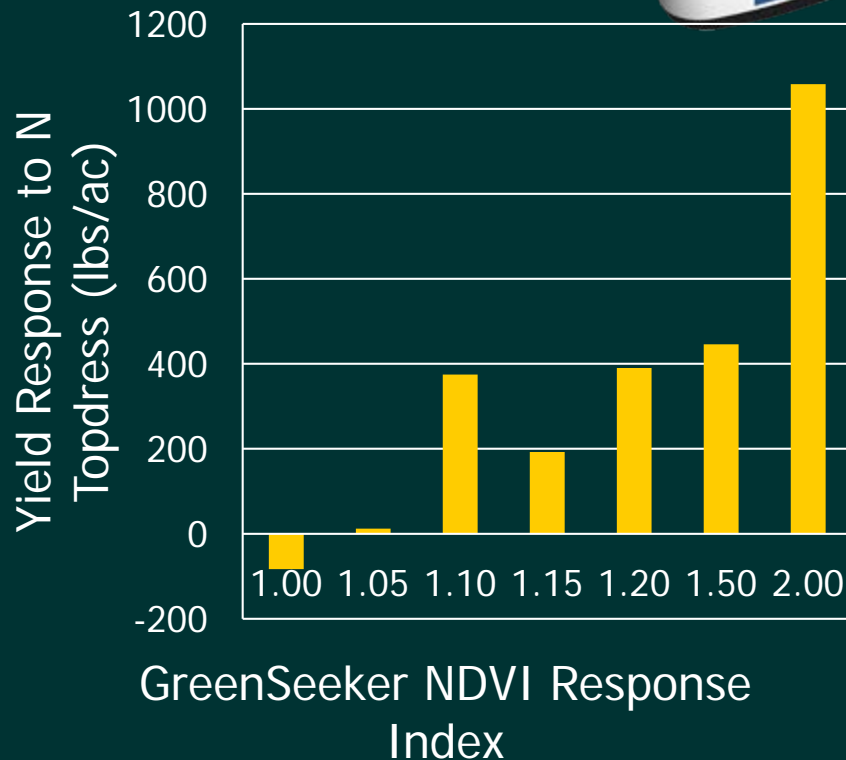
- Ratio of High N strip to test area
 - = NDVI High N / NDVI test
 - For example: $72/65 = 1.1$



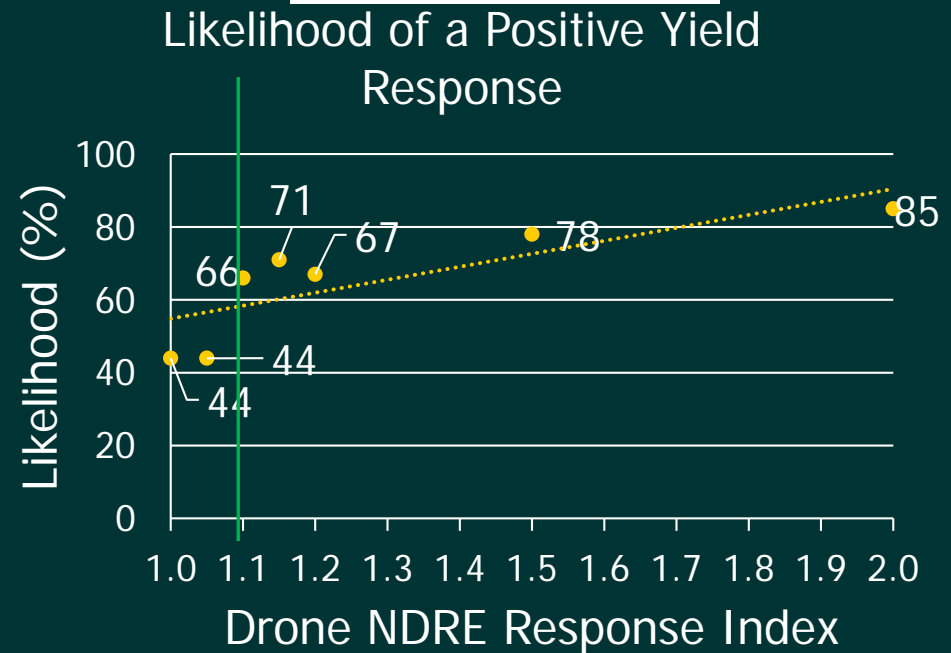
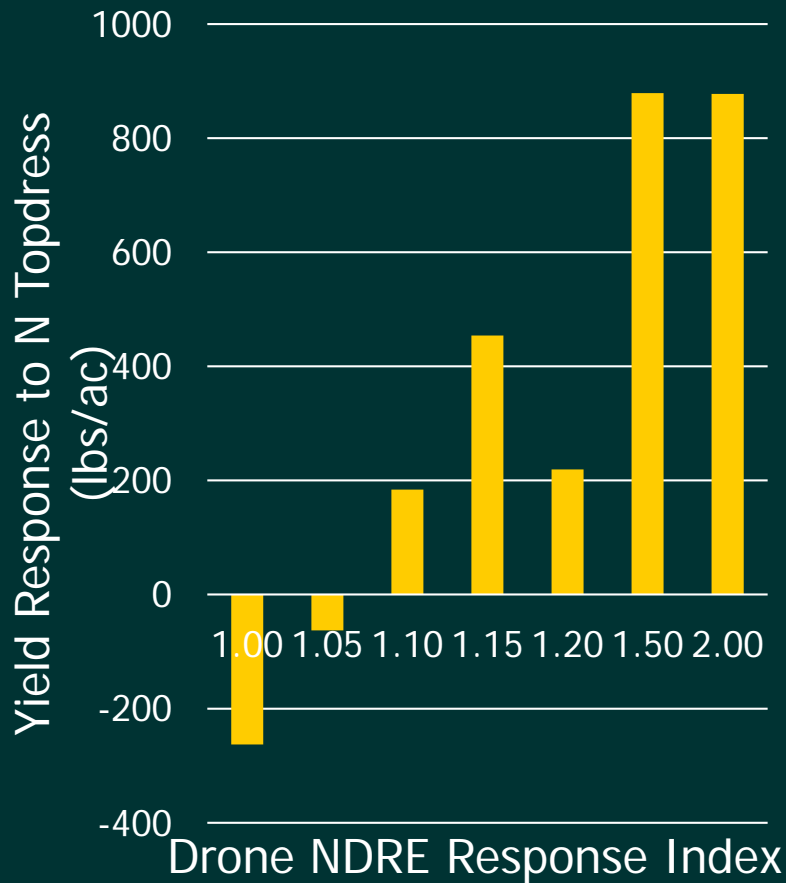
Arbuckle-19



Grain yield response in relation to Response Index (2016-2019)



Grain yield response in relation to Response Index (2016-2019)



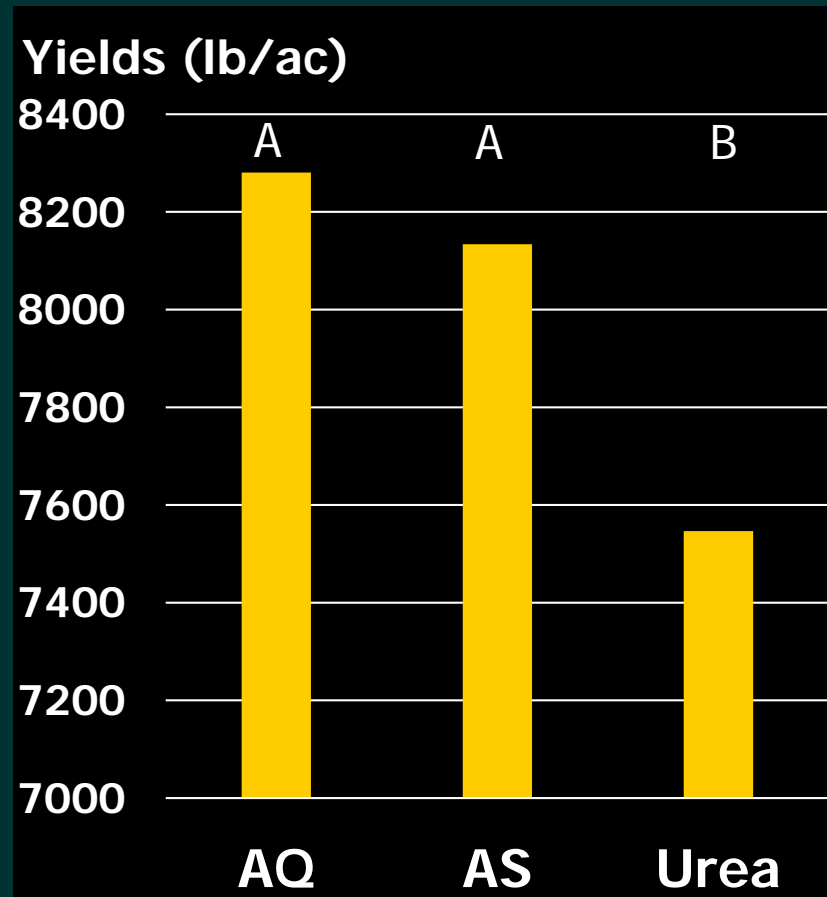
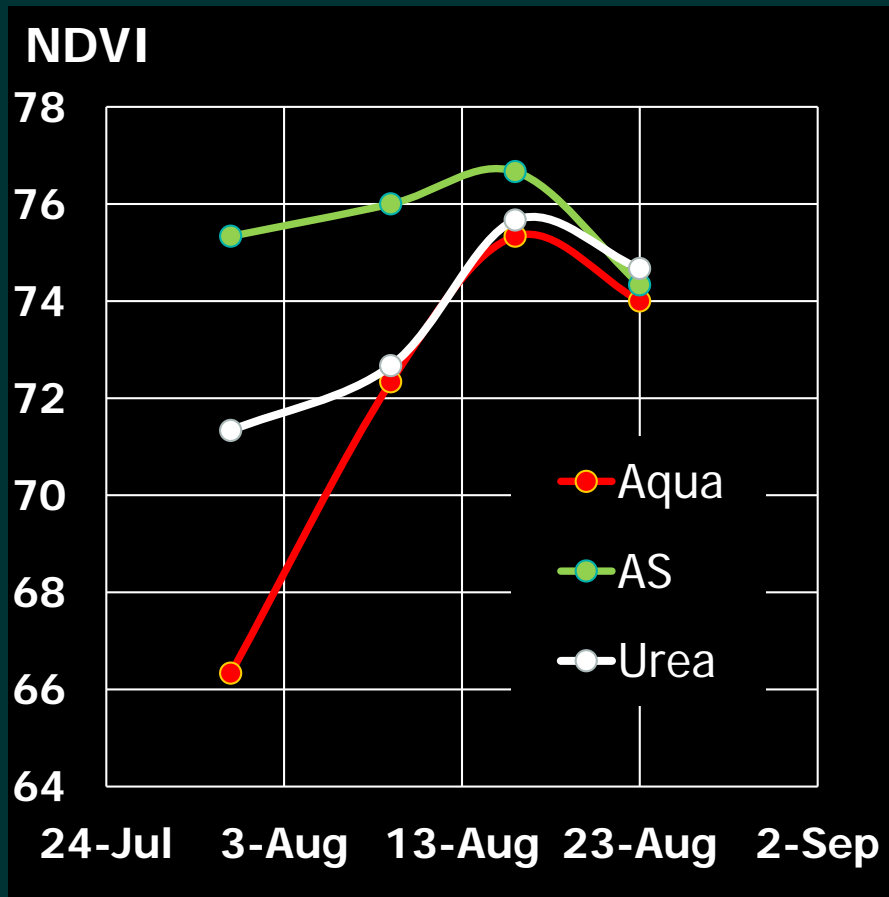
What do you do when you can't
apply aqua-ammonia?



Comparison of N sources

- If you do not apply aqua, needed N will need to be applied in granular form.
- These forms are more susceptible to losses
- Need to be applied in splits.
- 150 lb N/ac
- Aqua:
 - preplant to moist soil
- Urea and AS:
 - 4 splits
 - 2,4,6 and 7 wks
 - 20, 50, 50, 30 lb N/ac
- Planted June 14

Comparison of N sources



Rice straw bailing



Nutrients in rice grain and straw

Nutrient	Conc	Amount in 100 cwt/ac yield	Amou nt per ton	Conc	Amount in 100 cwt/ac yield	Amou nt per ton
		lb/ac	lb/ton		lb/ac	lb/ton
	Grain			Straw		
Nitrogen	1.1	110	22	0.65	65	13
Phosphorus	0.2	20	4	0.1	10	2
Potassium	0.29	29	5.8	1.4	140	28
Calcium	0.05	5	1	0.3	30	6
Magnesium	0.15	15	3	0.2	20	4
Sulfur	0.1	10	2	0.075	7.5	1.5
Silicon	2	200	40	5.5	550	110
Zinc	0.002	0.2	0.04	0.003	0.3	0.06
Iron	0.025	2.5	0.5	0.035	3.5	0.7
Manganese	0.005	0.5	0.1	0.045	4.5	0.9
Copper	0.001	0.1	0.02	0.0003	0.03	0.006
Boron	0.005	0.5	0.1	0.001	0.1	0.02

Thank you

