

HOTSPOT AG

► Hotspotag Farming in the SGMA Era

James Nichols

Farming in the SGMA Era

SGMA has changed how we farm

- The cost of groundwater can be up to \$500/acre-ft
- Additional costs include:
 - Electricity for groundwater pumping
 - Labor
 - Burden of technology adoption



Farming in the SGMA Era

SGMA compliance poses many challenges

PLANNING

Developing an organizational water plan is difficult



EXECUTION

Water mismanagement can lead to costly yield and quality impacts for years



REPORTING

Water Accounting is tedious and time consuming





Pre-SGMA Era

- HotSpot AG began as a Nichols Farms project in 2013
- Originally scoped to monitor water applications
- Evolved into a tool to help growers plan, execute, and report irrigation and fertilizer applications





Challenges

- Lacked knowledge of crop water usage
- Weekly Target Irrigation Amounts Missed Due to:
 - System Complexity
 - High Labor Requirement
 - Delayed reporting





Solutions

- Confidence in irrigation plan
- Precise Irrigation Applications
 - Simplified Operations
 - High Labor Requirement
 - Realtime Reporting



Measures daily actual crop water usage (ETa), water stress, irrigation applied, and provides irrigation suggestions



Solutions

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 - Simplified Operations
 - Efficient Labor Utilization
 - Realtime Reporting and Record Keeping





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Remote Irrigation Management



Accessible in UTVs, pickups, tractors and during a morning cup of coffee



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Þ				Irrigation Summar	У			
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Date	H North				J North			
	Actual (in)	Plan (in)		Difference	Actual (in)	Plan (in)		Difference
2023-06-05	0.00				0.00			
2023-06-06	0.30	0.31	-3%		0.30	0.31	-3%	
2023-06-07	0.44	0.46	-5%		0.30	0.31	-3%	
2023-06-08	0.31	0.31	1%		0.31	0.31	0%	
2023-06-09	0.31	0.31	0%		0.31	0.31	0%	
2023-06-10	0.00				0.15	0.15	0%	
2023-06-11	0.00				0.00			
week 23 summary	1.36	1.38	-2%		1.36	1.38	-1%	
2023-06-12	0.00				0.00			
2023-06-13	0.28	0.31	-8%		0.30	0.31	-3%	
2023-06-14	0.59	0.61	-3%		0.30	0.31	-3%	
2023-06-15	0.30	0.31	-3%		0.29	0.31	-6%	
2023-06-16	0.30	0.31	-3%		0.59	0.61	-3%	
2023-06-17	0.45	0.46	-3%		0.31	0.31	0%	
2023-06-18	0.31	0.31	0%		0.31	0.31	0%	
week 24 summary	2.22	2.30	-3%		2.09	2.14	-2%	
2022 00 40	0.07	0.00	00/		0.04	0.04	007	



Funding Opportunity

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Testimonials



AG Irrigation Professor College of the Sequoias

"HotSpot AG is an automation and monitoring system developed by a farmer for farmers. The system gives you key pieces of information that are useful to you as a grower to help you make informed decisions that affect your bottom line."



Blake Mauritson

Partner ANB Ranches

"Being able to monitor our total system remotely, gives me and our employees more time to focus on other ranch needs. I feel more comfortable now that our fields are receiving the water they need." Larry Dotson

Senior Engineer Kaweah Delta Water Conservation District

Water

"The products and services supplied by HotSpot AG are timely and relevant solutions to acquiring remote data for productive improvements in operations and maintaining records."

Contact Steven Soares To Schedule Your Demo!

STEVEN SOARES

Senior Customer Success Manager



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