

PESTS IN MY VINEYARD

- MEALYBUGS
- ANTS
- ON ROOTS (?)
- CALL GREG





PESTS IN MY VINEYARD

- SKELETONIZERS
- Local spray application
- Check every day
- Bacillus thuringiensis (Bt)
- Horticultural oil









WEEKLY IRRIGATION EMAIL

- Reference vineyard
- Cabernet Sauvignon
- 4.4 acres, Planted 2000
- 6 x 9 feet, 2 feet canopy
- ET0 from CIMIS 237
- This season: 100% ET

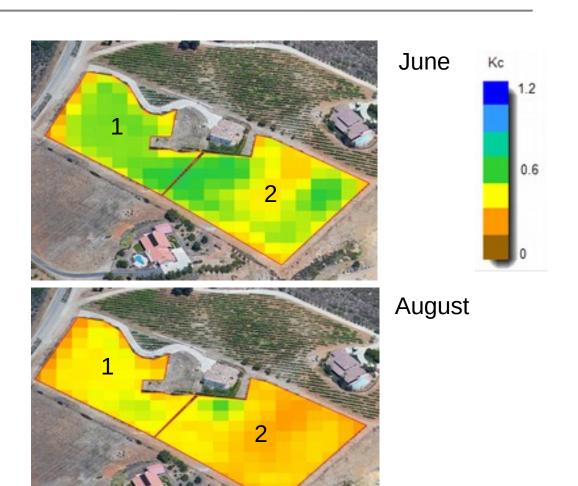
Date	Predicted ET0	Kc	E Tc	Gallon/Vine/Day	Irrigation time (minutes) 100% ET dail
08/19/19	0.27	0.378	0.103	3.50	105
08/18/19	0.26	0.378	0.097	3.29	99
08/19/19 08/18/19 08/17/19 08/16/19 08/15/19 08/14/19 08/13/19	0.26	0.378	0.097	3.29	99
08/16/19	0.31	0.378	0.116	3.95	119
08/15/19	0.33	0.378	0.126	4.31	129
08/14/19	0.36	0.378	0.135	4.61	138
08/13/19	0.32	0.378	0.119	4.06	122
08/12/19	0.28	0.378	0.106	2.60	108
		Weekly	total per vine	27	814
08/11/19	0.27	0.378	0.102	3.48	104
08/10/19	0.29	0.378	0.110	3.73	112
08/09/19	0.30	0.378	0.113	3.86	116
08/08/19	0.28	0.378	0.106	3.60	108
08/07/19	0.23	0.378	0.087	2.96	89
08/06/19	0.25	0.378	0.094	3.22	97
08/05/19	0.31	0.378	0.117	2.00	120
1.7793-7700		Weekly	total per vine	25	745
Growing Degree Days 2019 Growing Degree Days 2018		2103 2305			
Assumptions:					
Canopy width	2	Shaded area		12	square feet
Vine spacing	9 x 6 feet	Area per vine		54	square feet
% shade	22%	Kc		0.378	crop coefficien
2 x 1 gph drippe CIMIS station 2	ers/vine 37 Temecula East	: III			



CROP COEFFICIENT

- Varies with canopy density
- Canopy altering work
 (hedging, leaf pulling, etc)
 changes Kc

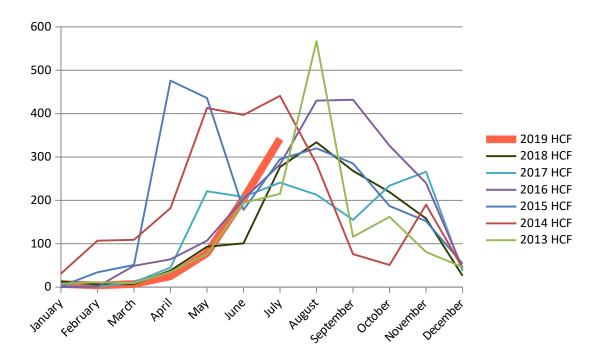
irrisat-cloud.appspot.com





REFERENCE VINEYARD WATER USE

- In line with 2016-2018
- >>50% less than 2014-2015





SOIL MOISTURE

- Block 1 August 1-12
- 11-14 kPa @ 2, 3 & 4 feet

- Block 2 August 1-12
- 42 kPa @ 3 & 4 feet
- Flat line = 100% ET





WHAT HAPPENS AT << 100% ET

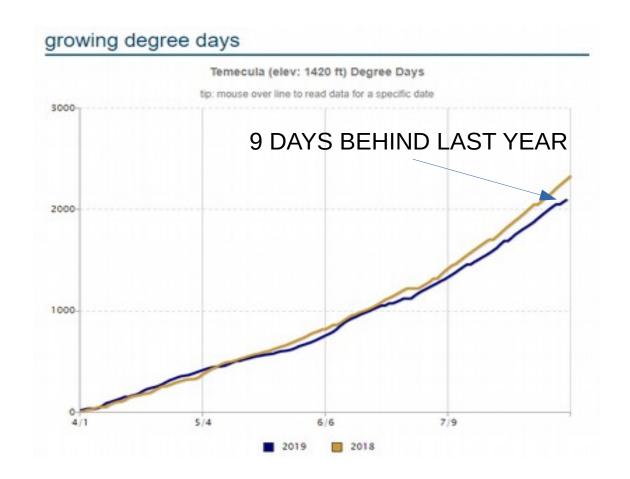
 When vines use more water than what gets replaced by irrigation





GROWING DEGREE DAYS SEASON 2019

- Also called Winkler scale
- Sum of degree days over
 50 °F from April 1 until
 October 31
- Temecula = Region III
 3,000 3,500 degree days
- Better to calculate from January 1





NRCS EQIP FUNDING 2019

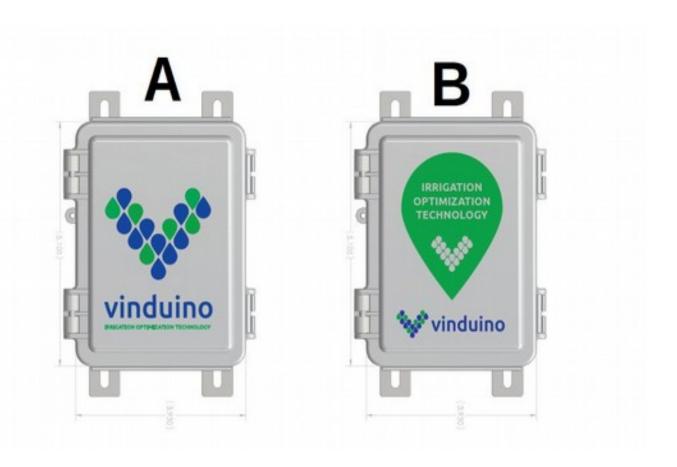
SEVERAL GROWERS GOT EQIP FUNDING

- Irrigation System Refurbish
- Irrigation Automation (!!)
- Irrigation Water Management
- Wood Chips
- > 100% cost coverage
- Priority for Veterans and new farmers (<10 years)
- 50% pre-payment option (3 months completion)



ENCLOSURE POLL RESULTS

- THANK YOU
- 208 EMAILS
- 1 UNSUBSCRIBED
- 63% OPENED
- 38 (86%) VOTED FOR A
- 6 (14%) VOTED FOR B





SWA MEMBERS PRE-ORDER

SOIL MOISTURE MONITORING KIT

- Vinduino R4 sensor station
- IoT gateway
- 2 x Watermark sensor
- 1 yr eVineyard software

Pre-order 25% off: \$ 595

Shipping Q4 2019









ON-LINE KNOWLEDGE BASE

https://vinduino.freshdesk.com/support/home

- Best practices
- Irrigation
- Pests
- •
- Add content

