



Frost Mitigation in Clarksburg

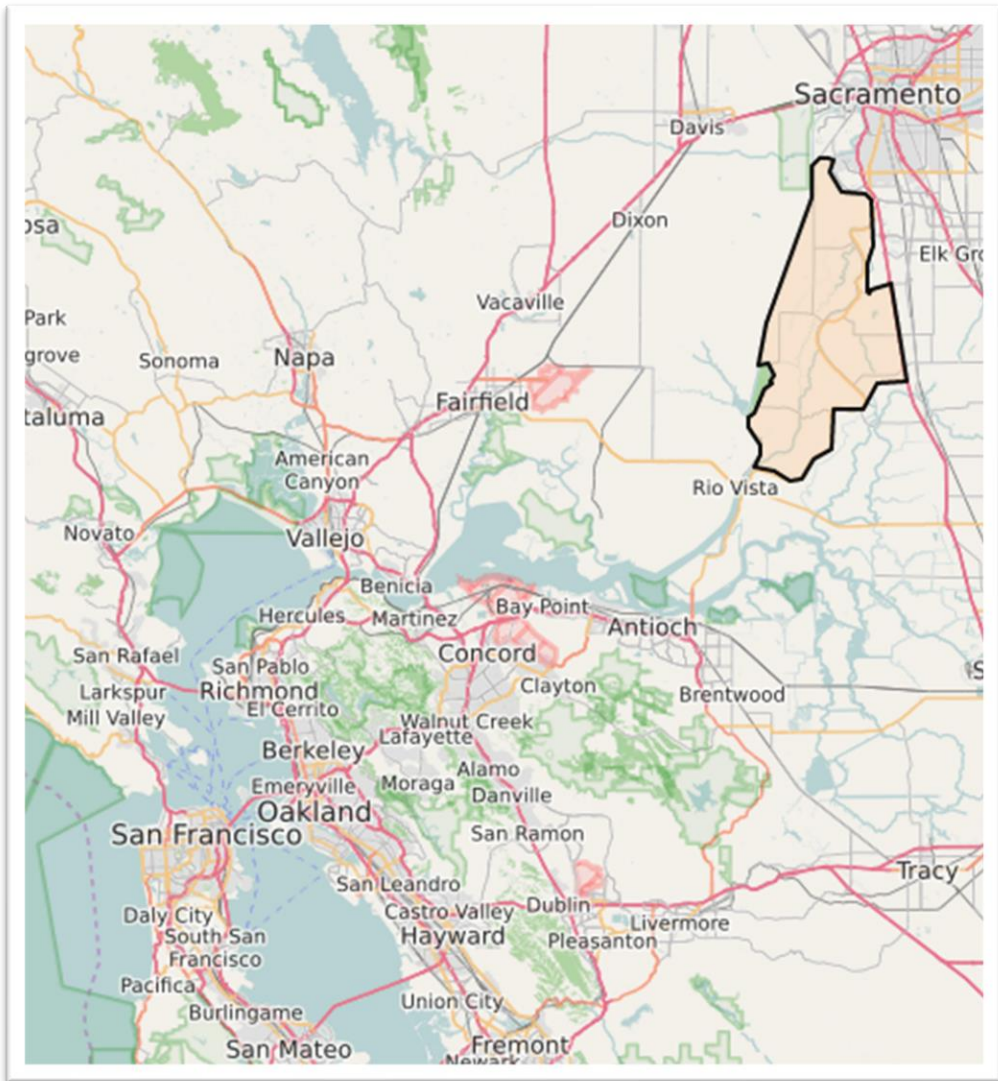
David Ogilvie

Wilson Farms

Ogilvie Merwin Vintners

The Clarksburg AVA

- Noted for the Delta Breeze
- Whites in 2021:
 - Chardonnay – 49k tons
 - Pinot Gris – 21k tons
 - Sauvignon Blanc - 19k tons
 - Chenin Blanc - 9k tons
- Reds in 2021:
 - Pinot Noir - 27k tons
 - Petite Sirah - 7k tons
 - Merlot – 5k tons



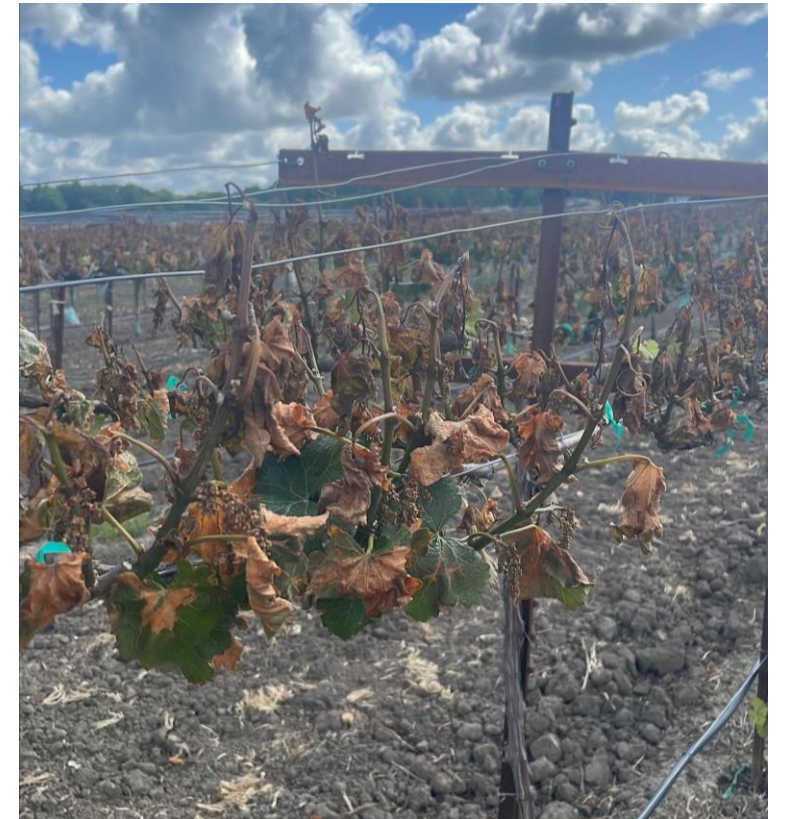
Spring Frost Situation in Clarksburg

Rarely happens and when it does it's not widespread

- 2008 was minor, 2001 more widespread

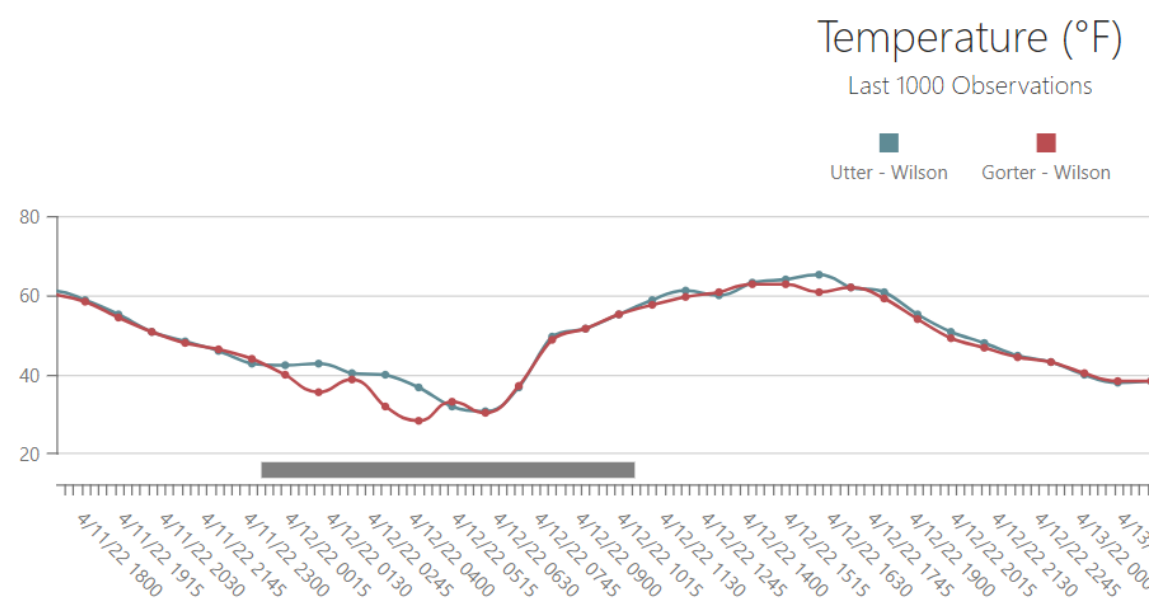
Frost Protection Infrastructure not looked at as a financially viable option due to rarity of events.

- This may change as prices for grapes and frequency of events increase.



The Frost Event - April 12th 2022

Temperatures forecasted to be in the upper 30s. From previous experience, we knew that there could be pockets of lower temperatures.



Utter - Wilson		Gorter - Wilson	
Current Conditions		Current Conditions	
4/12/22 7:30 AM (-07:00)		4/12/22 7:30 AM (-07:00)	
Updated Every 15 Minutes		Updated Every 15 Minutes	
Temp	37.0 °F ▼ 13.5	Temp	37.2 °F ▼ 12.7
RH	83 % ▲ 1	RH	78 % ▼ 3
Dew Pt	32.2 °F ▼ 12.7	Dew Pt	30.9 °F ▼ 13.4
Wind Spd	0.6 mph	Wind Spd	1.1 mph
Wind Dir	E 91 °	Wind Dir	W 271 °
Wind Gust	2.1 mph ▼ 10.5	Wind Gust	2.2 mph ▼ 11.6
Latest Rain	0.00 In	Latest Rain	0.00 In
Daily Rain	0.00 In	Daily Rain	0.00 In
Daily Min Temp	30.4 °F ▼ 18.0	Daily Min Temp	27.7 °F ▼ 20.4
Daily Max Temp	43.2 °F ▼ 7.6	Daily Max Temp	39.9 °F ▼ 10.2

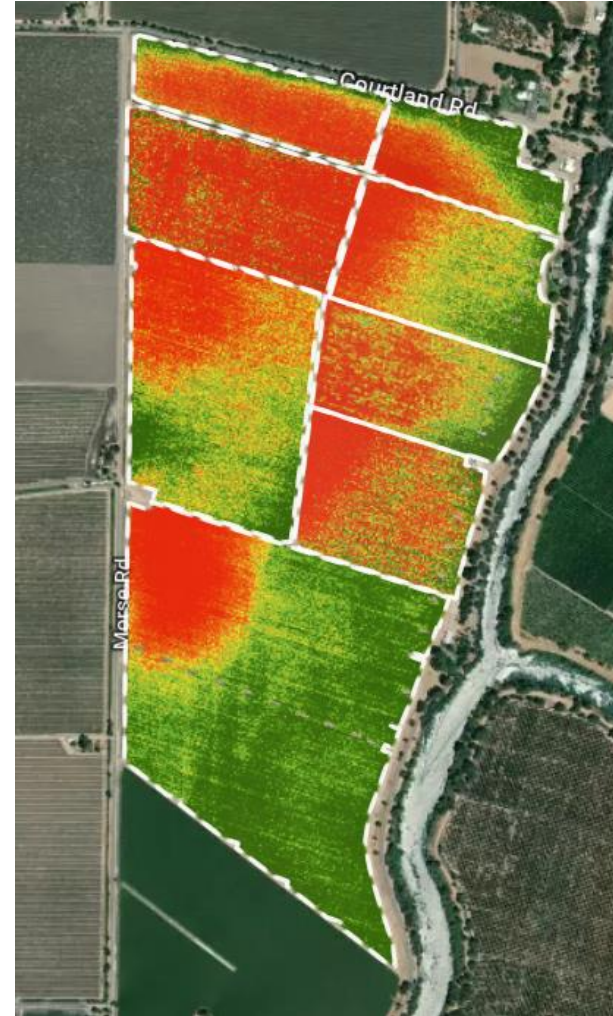


Cold Air Movement

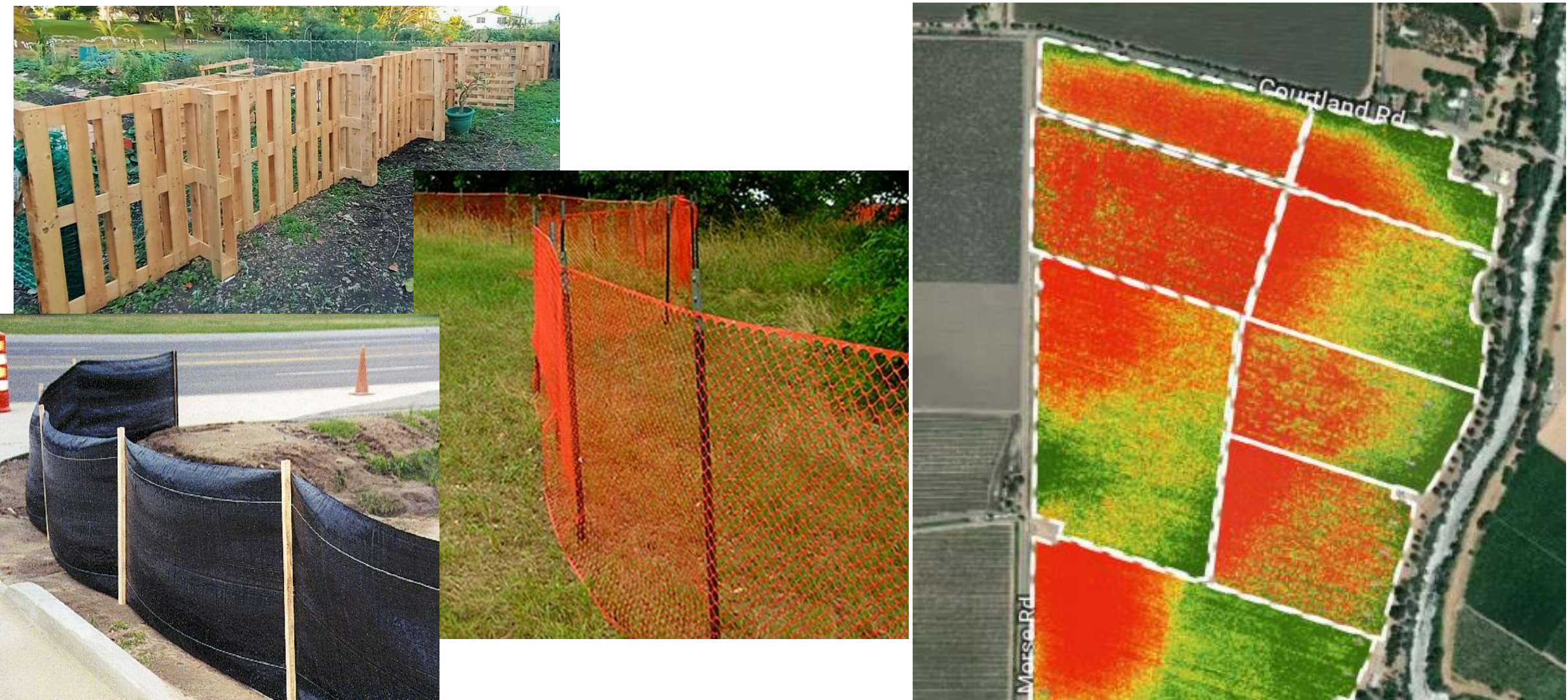
May 5th, 2021



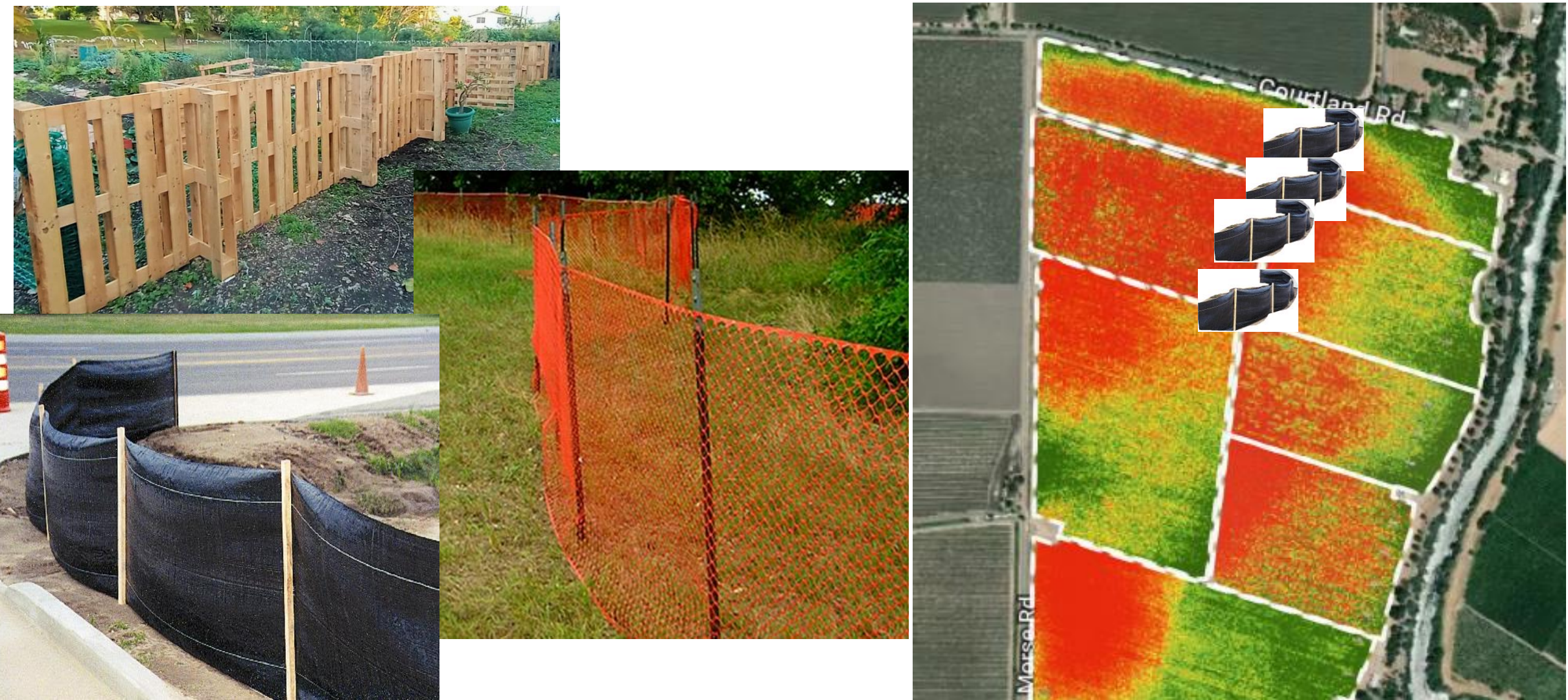
April 18th, 2022



Cold Air Movement – Slow it Down



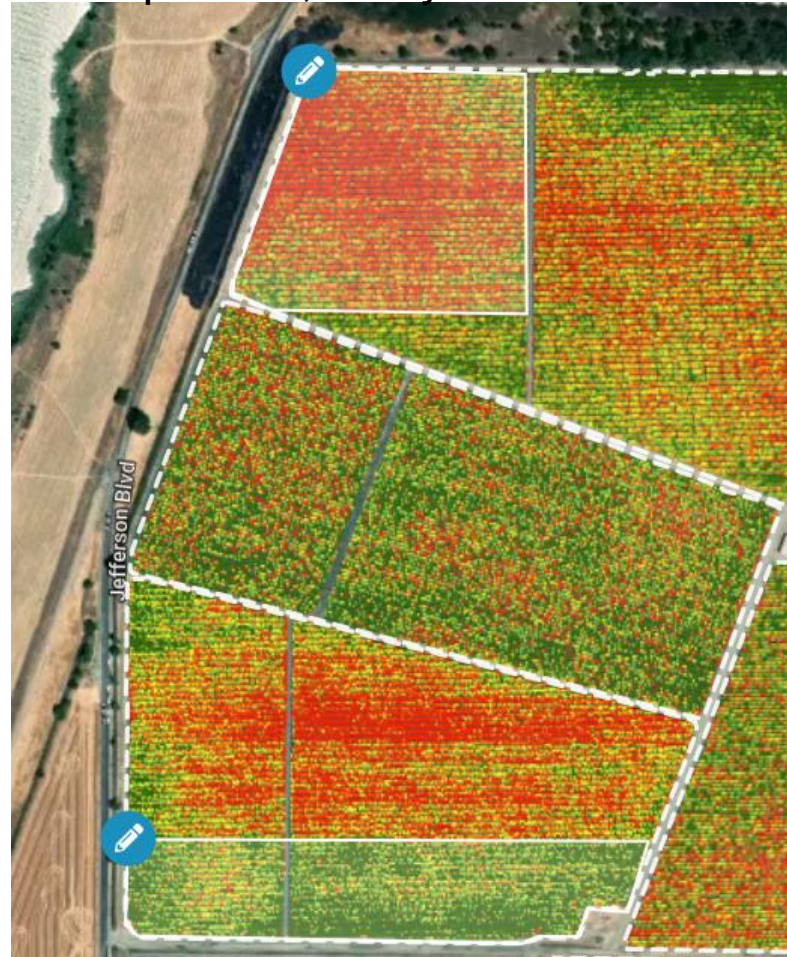
Cold Air Movement – Slow it Down



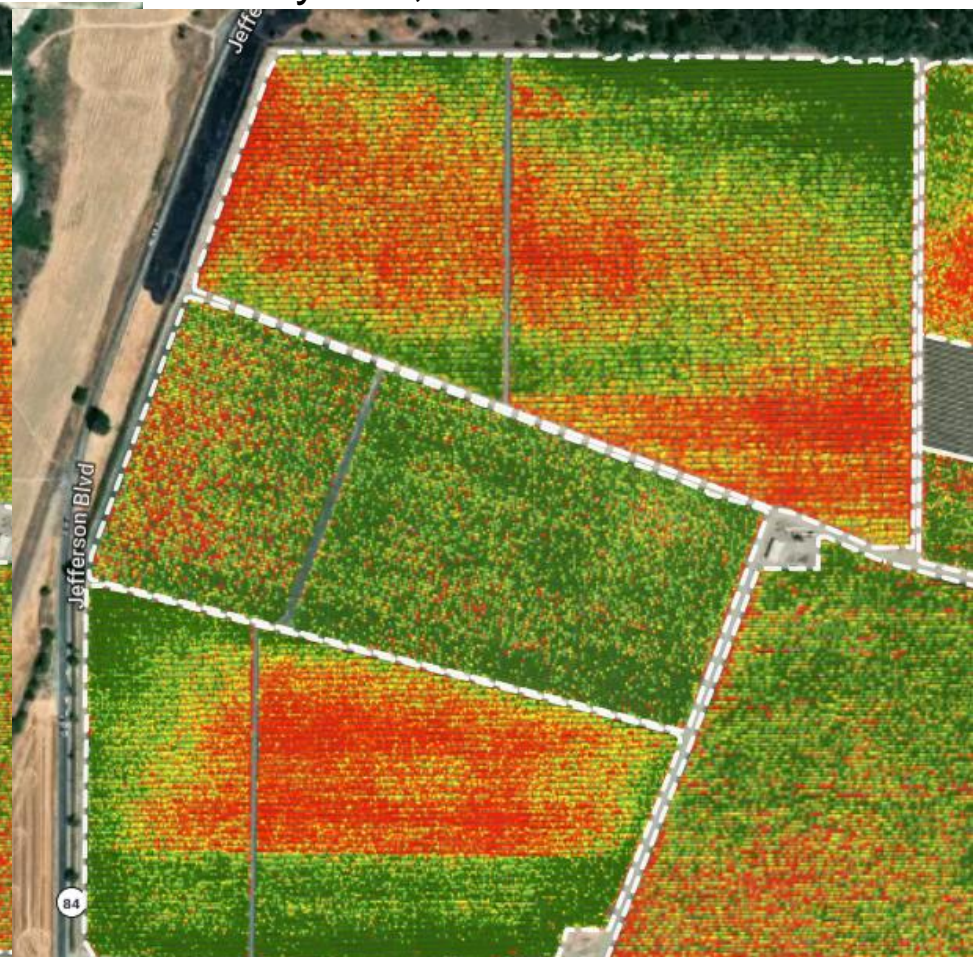
Furrow Irrigation

- Lots of water fast
- Increased heat holding capacity
- Discing or mowing cover crop may help as well but not in 2022.

April 18th, 6 days after frost



May 13th, 1 Month after frost





Thank You



The sun was warm but the wind was chill. You know how it is with an April day.
- Robert FROST

David Ogilvie

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