

# Collaborative Adaptive Rangeland Management



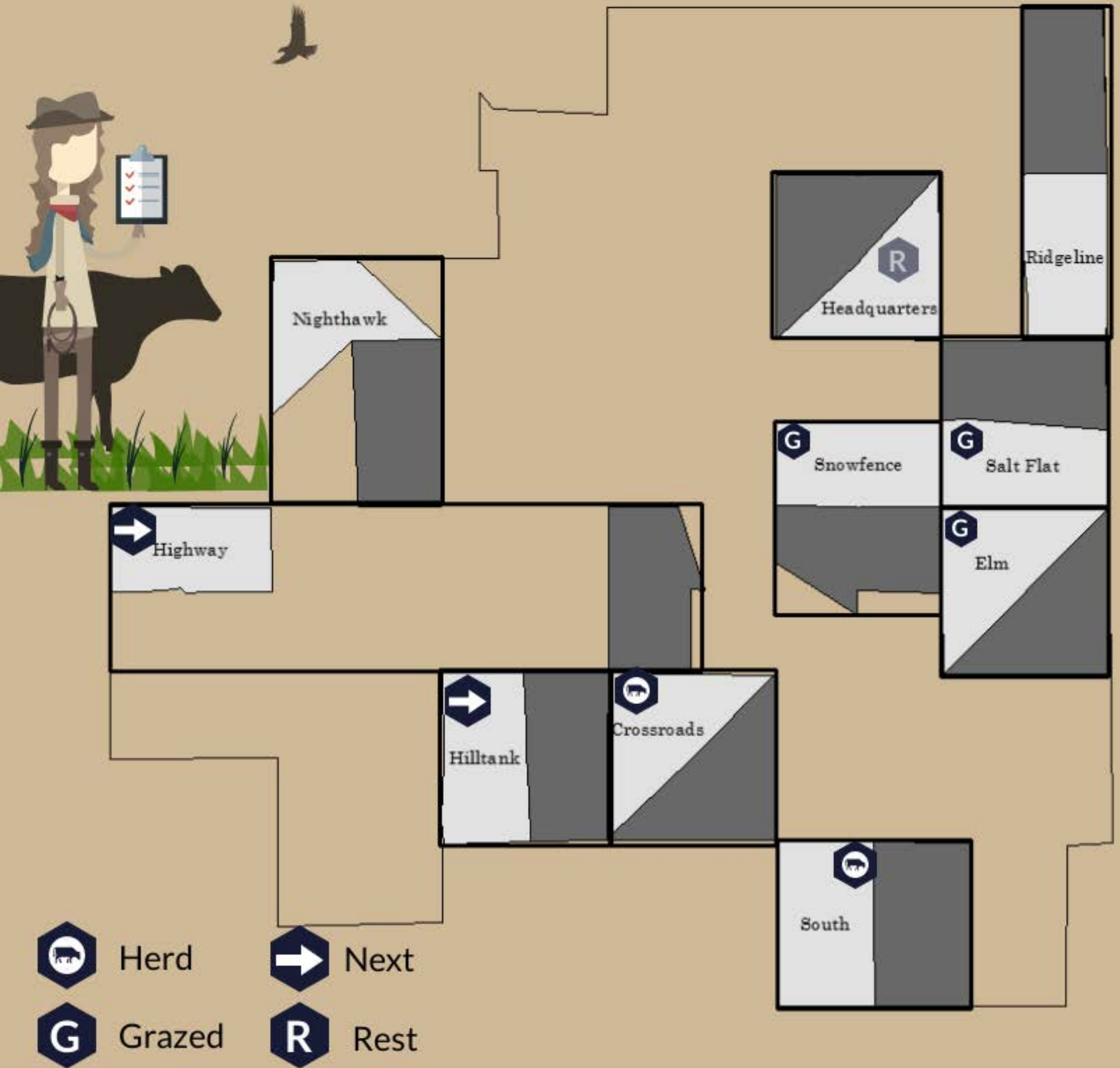
Where it all began





Dive into the details...

CARM was split into two herds & moved!



- Herd
- Next
- Grazed
- Rest

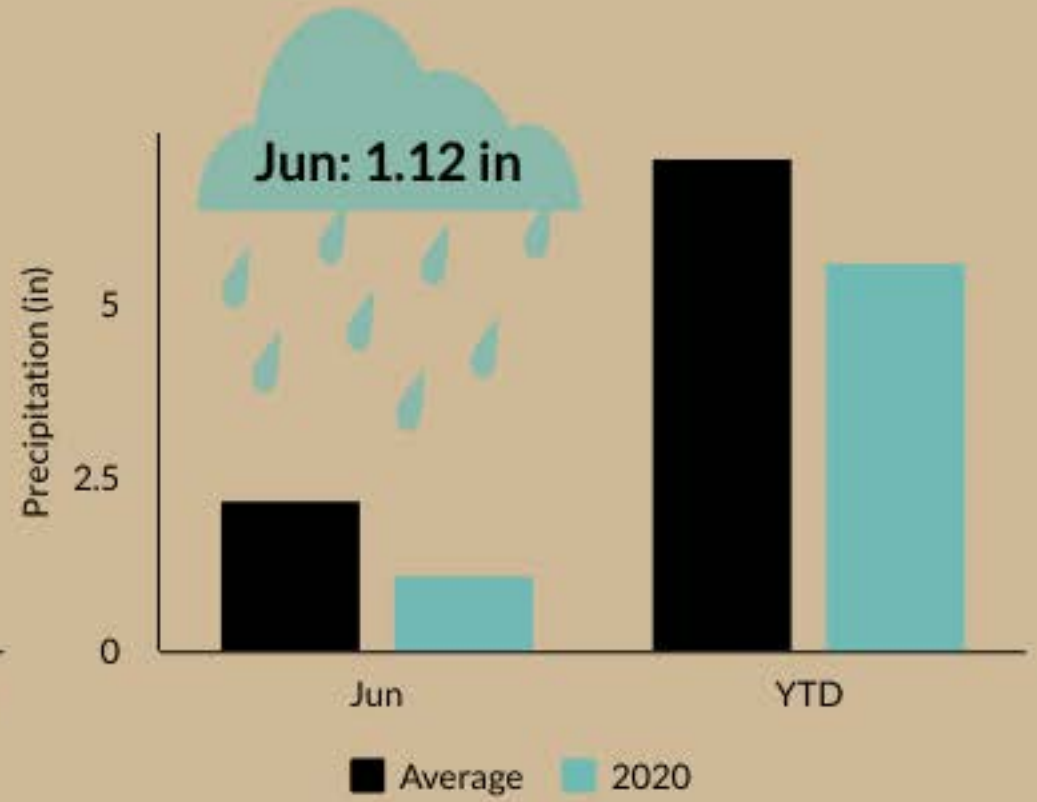
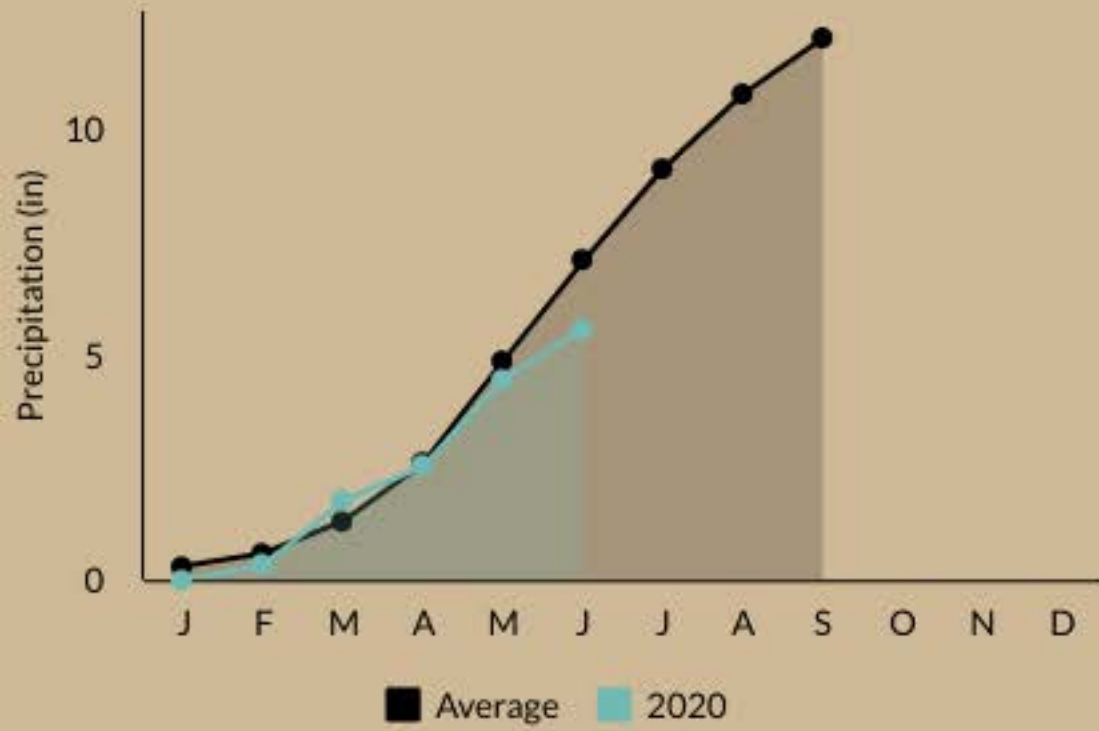
**South | Crossroads**

- Mixed Soils
- Warm & Cool Season Grasses
- Vegetation Threshold 500 pounds/acre

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# Highlights of Happenings

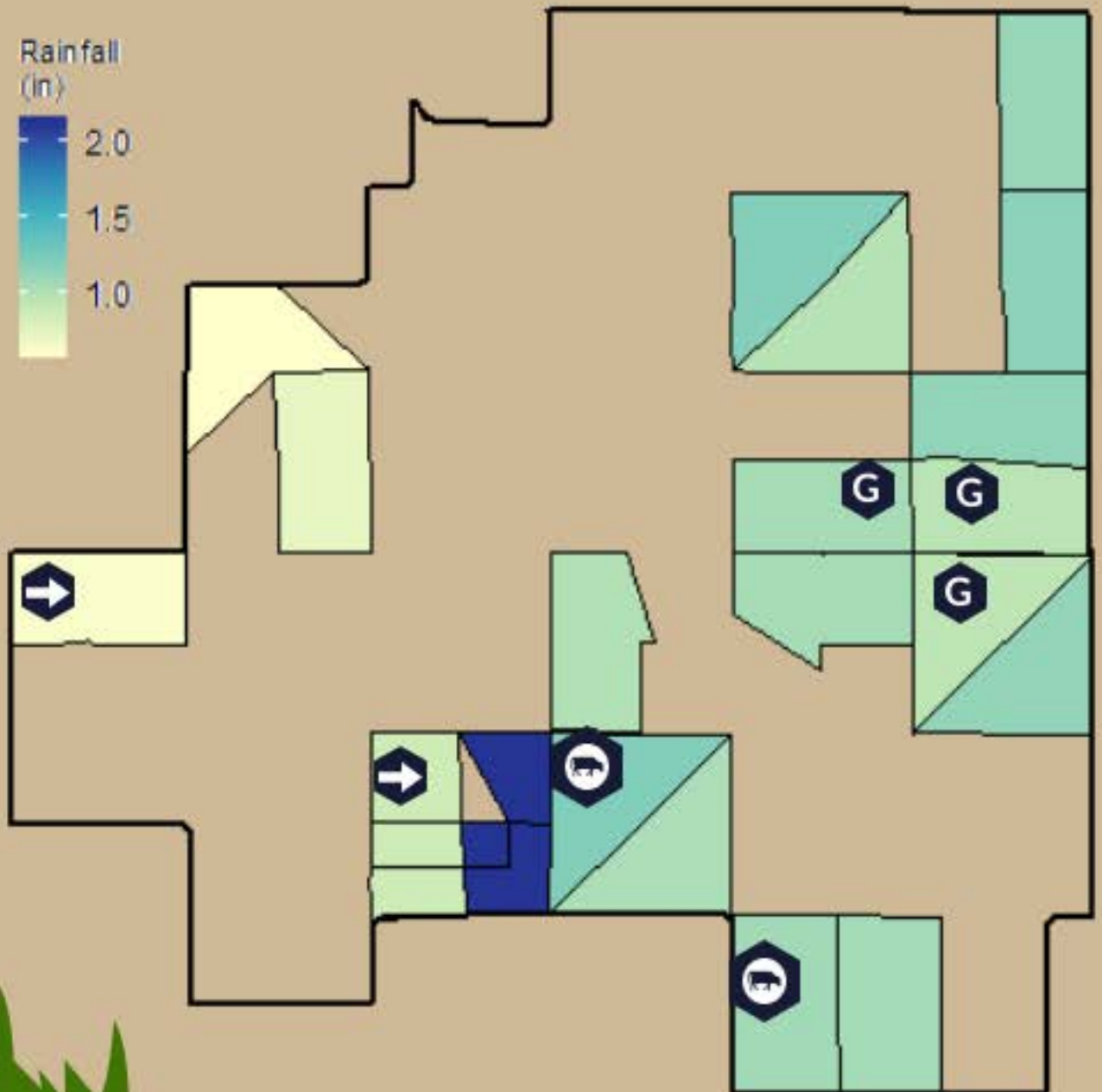
## Rainfall Totals



## Total Rainfall

2020-06-07 to 2020-06-14

## Rainfall Distribution



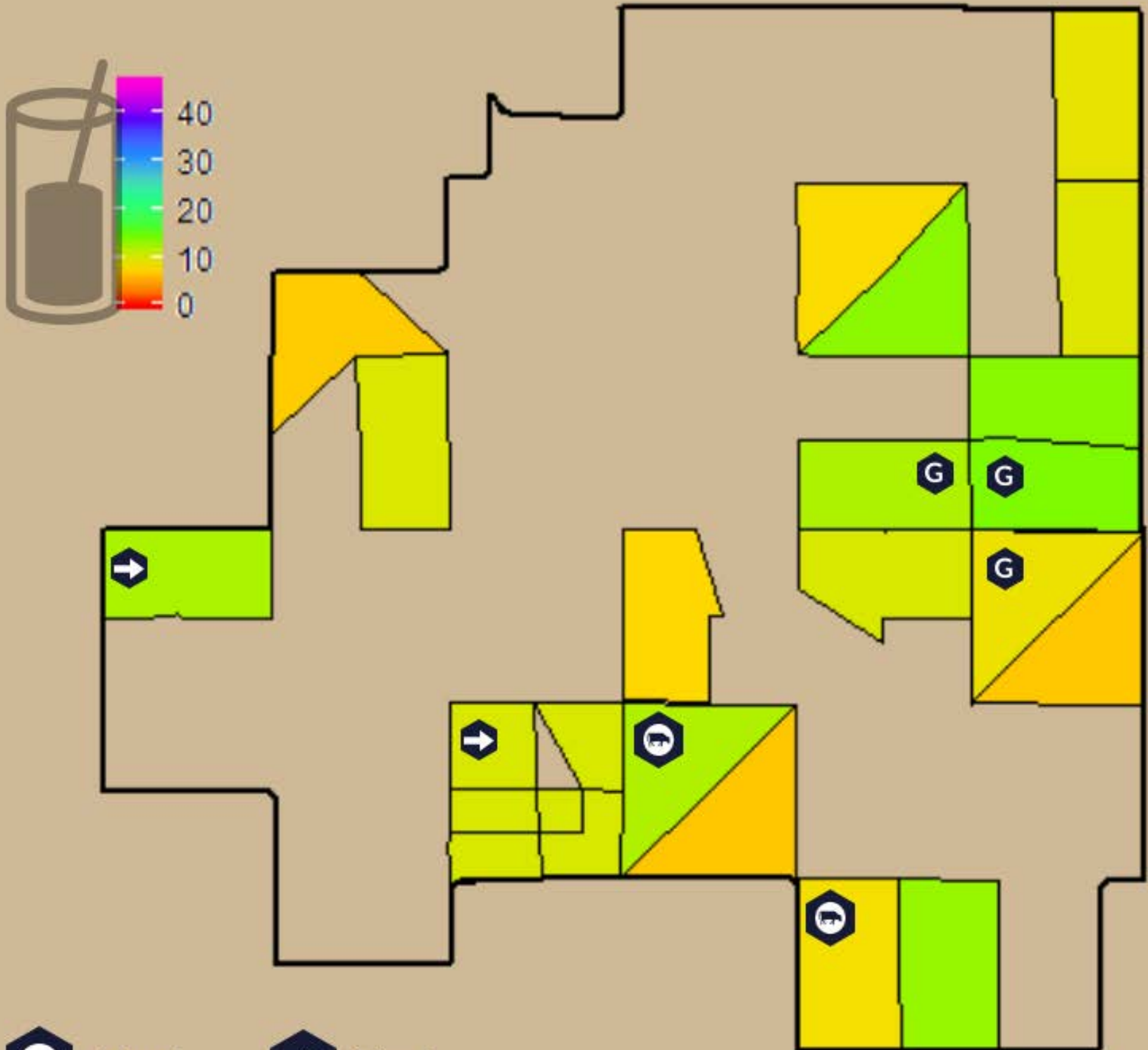
# Soil Moisture Distribution

## What's in our cup?

*It has been worse, but it could be better.*

### Current Soil Moisture

2020-06-14

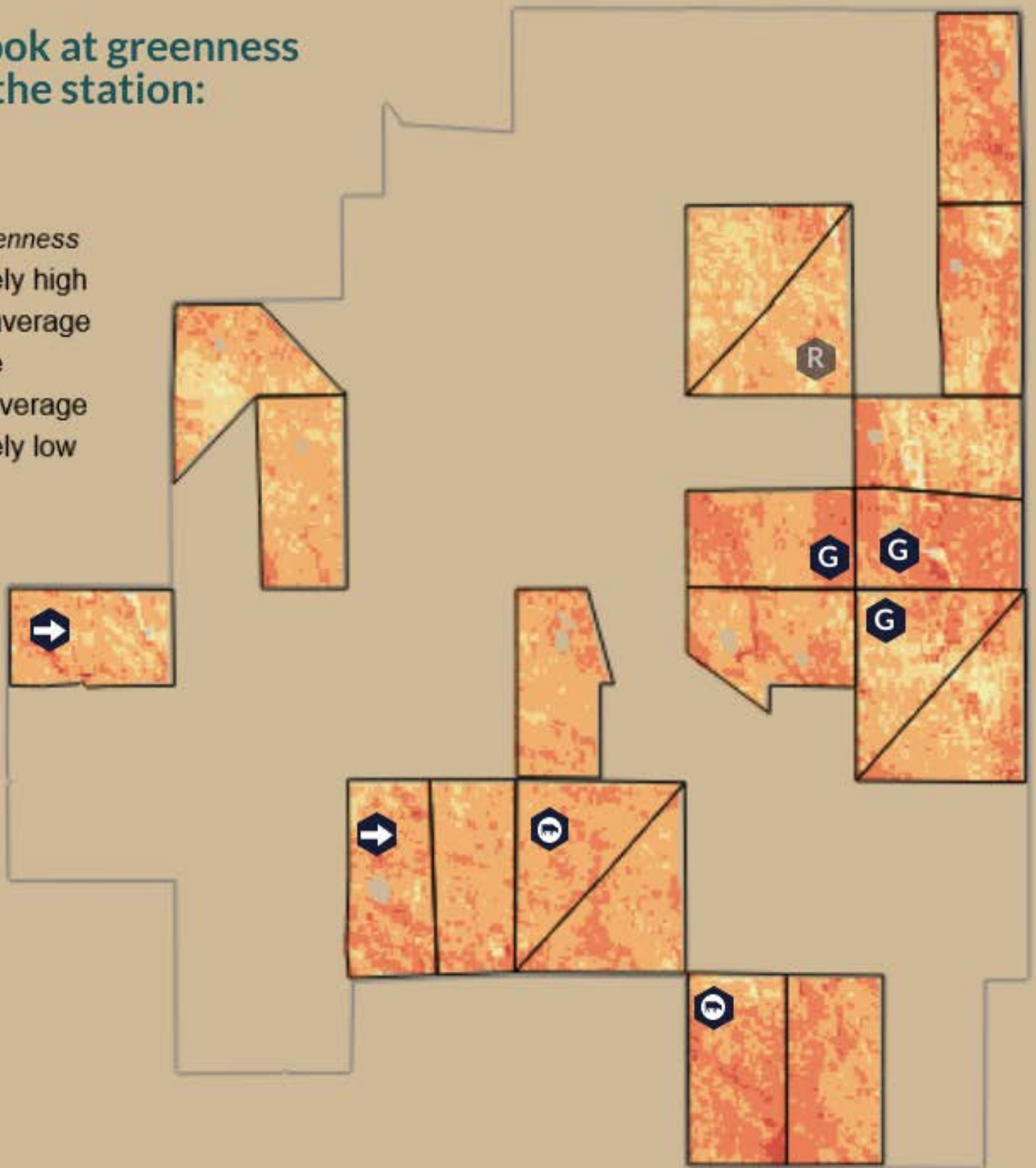


- Herd
- Next
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A detailed look at greenness across the station:



- Relative greenness*
- Extremely high
  - Above average
  - Average
  - Below average
  - Extremely low



- Herd
- Next
- Grazed
- Rest



*Elm*



*last week*



South

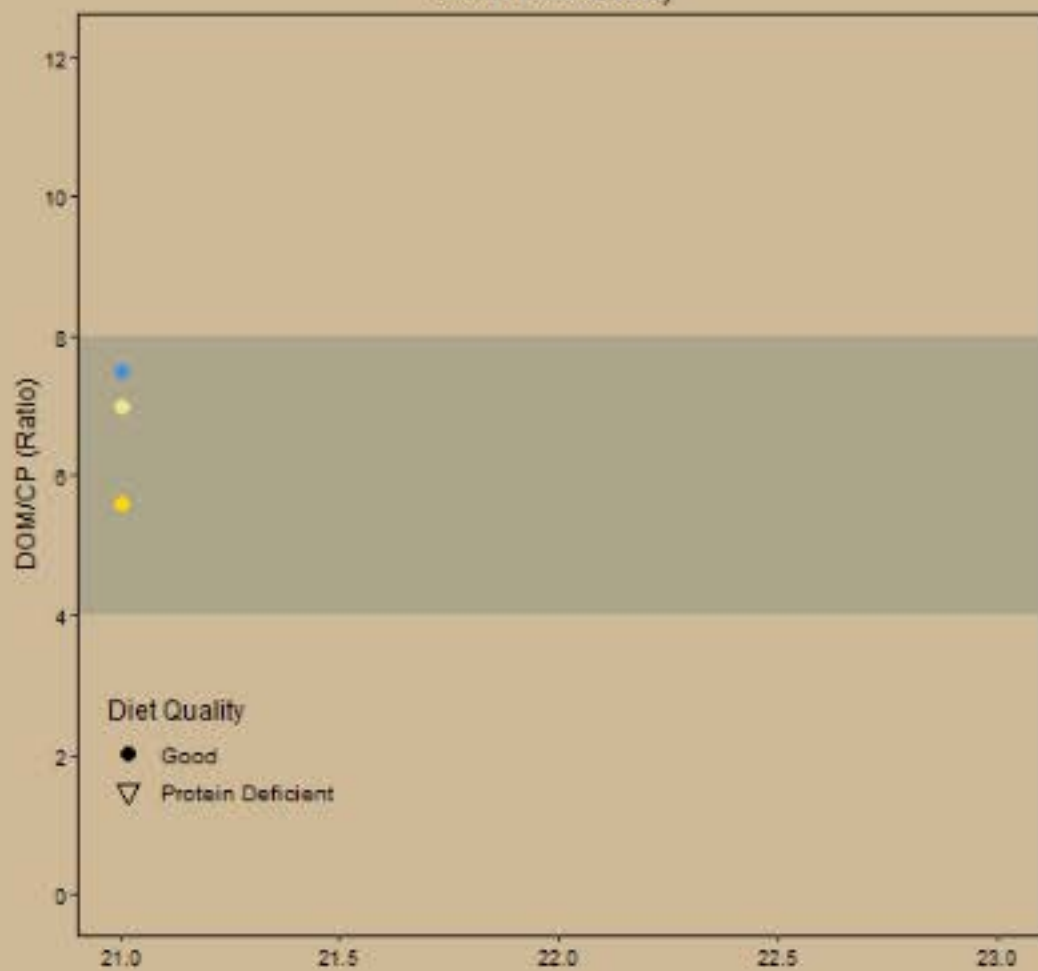




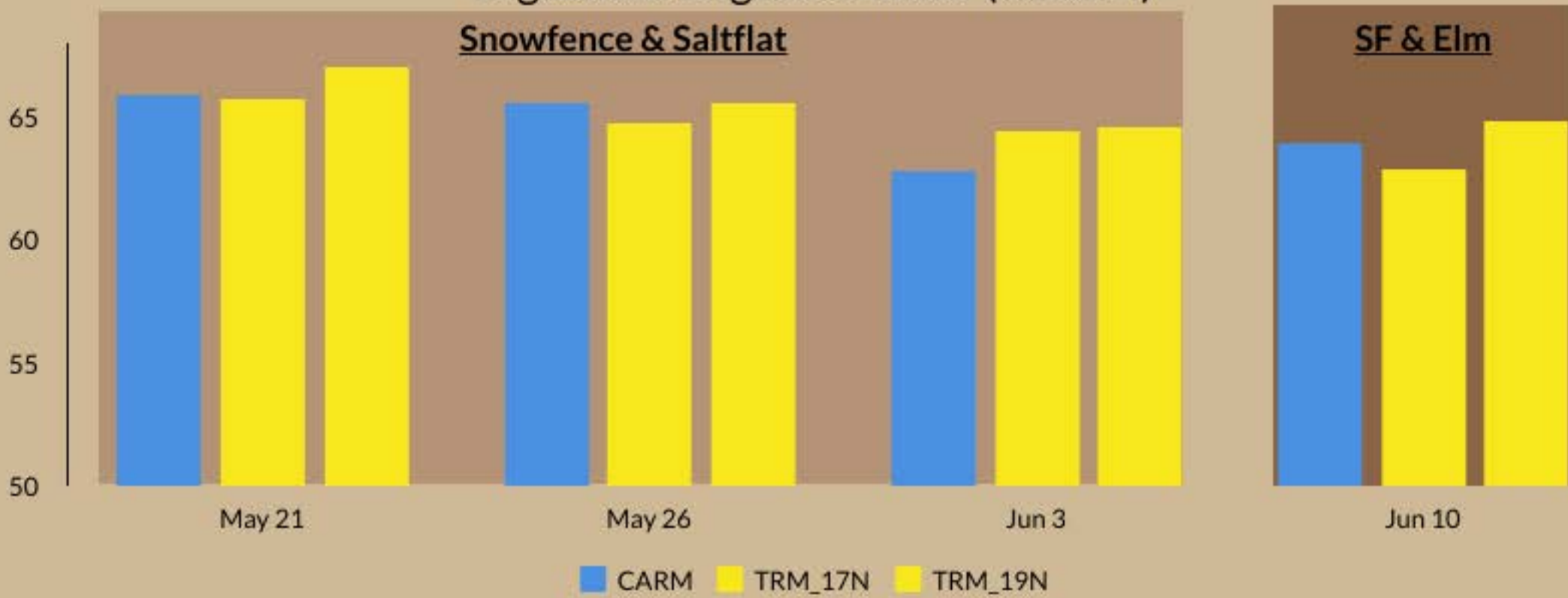
**Cross-roads**



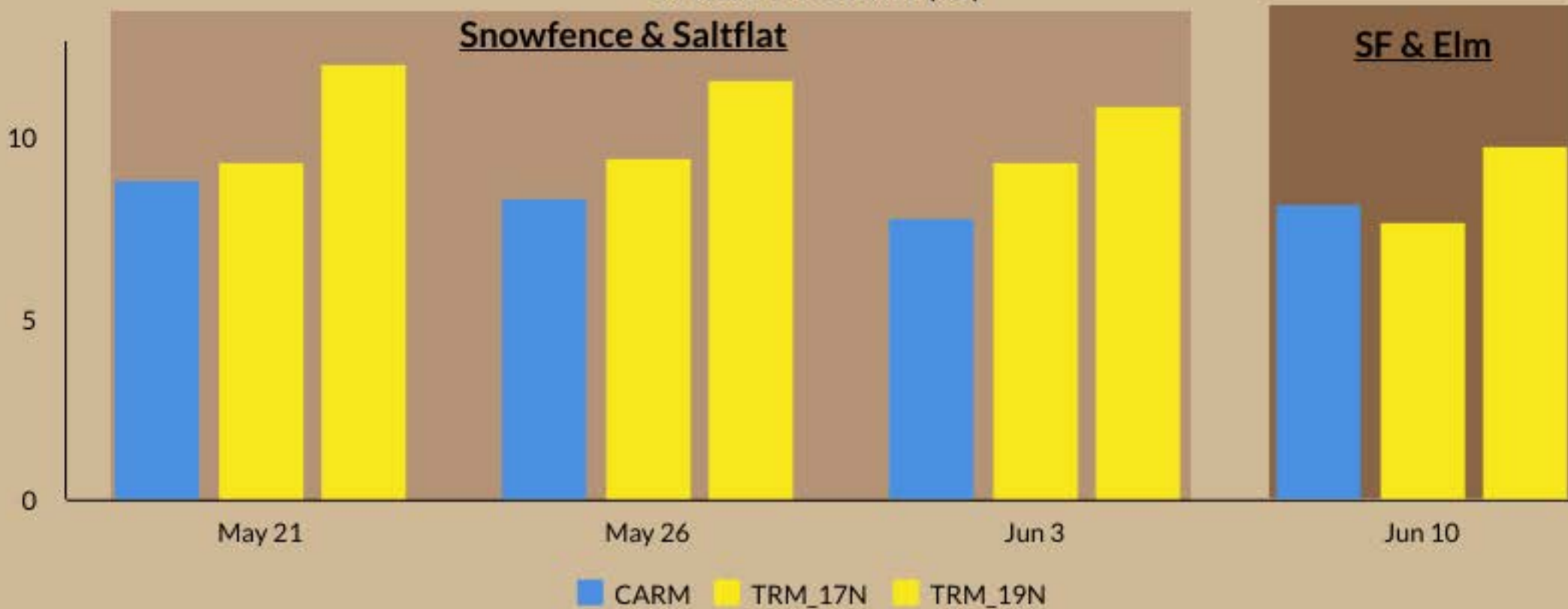
2020 Diet Quality



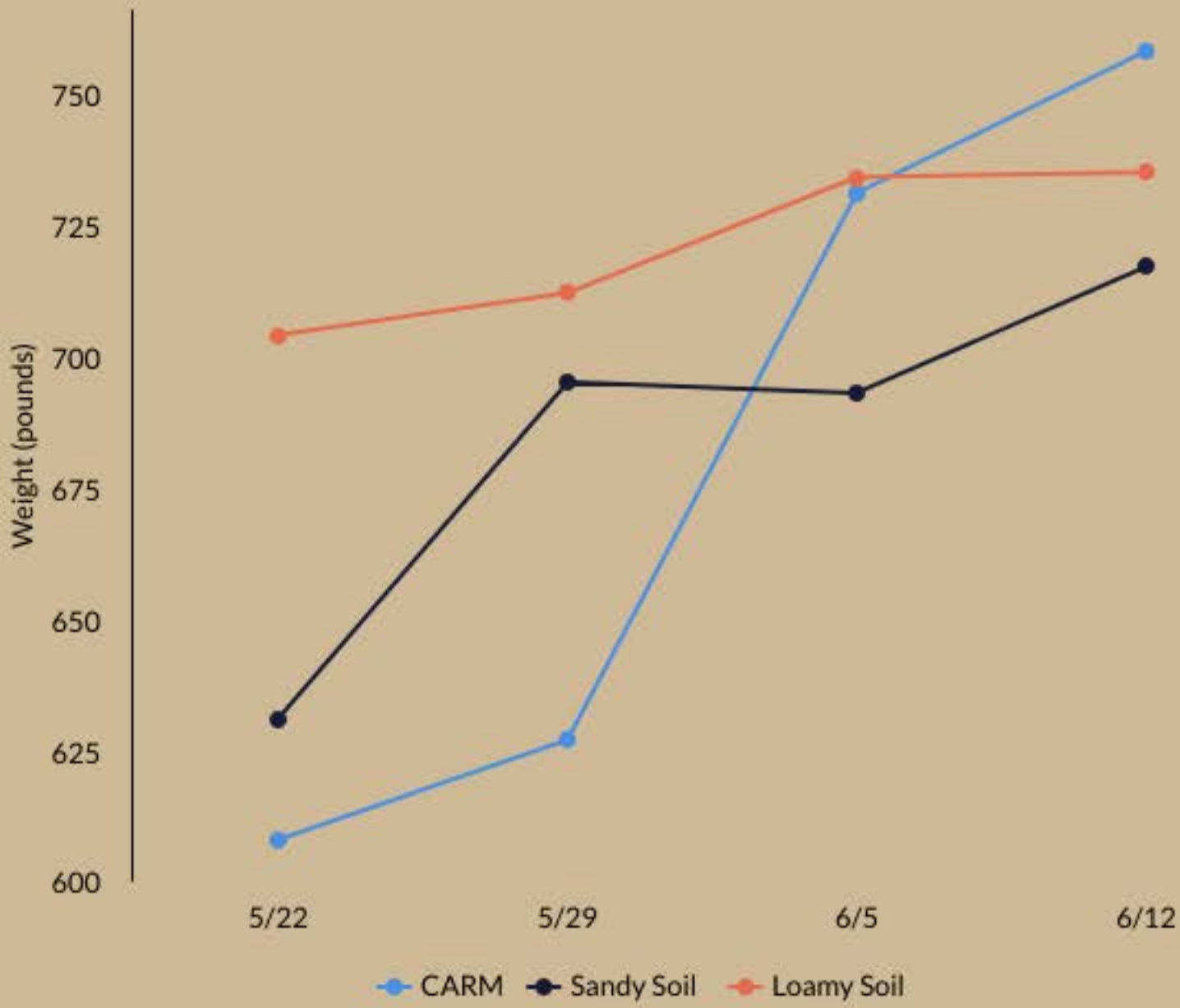
Digestible Organic Matter (%DOM)



Crude Protein (%)



## Walk-over Weigh Scale Data



- CARM
- Sandy
- Loamy





# Decision Recap

Stakeholders voted on some big changes this April!

Rotation 3:  
 Start Date: June 30  
 Max Days: 42  
 VOR trigger: Same  
 Split herd into two herds; CARM1 in Crossroads and CARM2 in South. Help reach shortgrass goals in South. Reminder: Continue to monitor and evaluate costs of this approach.  
**Each pasture will get 122 steers.**

Pasture	What we wanted to happen	What actually happened			
	Notes from April	Date In	Date Out	Trigger Used	Notes
1) Snowfence & Saltflat	Gates open between, Shoot for 21-24 days, measure VOR separate & use average to gauge veg trigger, cattle gains, 5/15 - 6/8	15-May	4-Jun	Max Days	
2) Saltflat & Elm	Gates open between, Shoot for 21-24 days, measure VOR separate & use average to gauge veg trigger, cattle gains, 6/8 - 6/29	4-Jun	18-Jun	VOR Threshold	
3.1) Crossroads	Reduce VO for MCLO (< 5cm) 6/29-8/10	18-Jun			
3.2) South	Reduce VO for MCLO (< 5cm) 6/29-8/10	18-Jun			
4.1) Highway	Reduce VO for MCLO (< 5cm) 8/10 - 9/21				
4.2) Hilltank	MCLO 8/10 - 9/21				
5.1) Nighthawk	9/21 - end of easeon				
5.2) Ridgeline	9/21 - end of easeon				
6) Headquarters	Rest				



## Up & Coming

- Forage in-take monitoring
- Veg monitoring, completed.
- Collar battery & SD card swap.

On behalf of the USDA-ARS  
Rangeland Resources & Systems Research Unit,  
I thank you all  
for your continued participation  
in this project.

Happy Trails!



For detailed precipitation  
data, maps, last year's  
updates, Scientist bios, and  
CARM documents, see our  
website:



ALL access data!