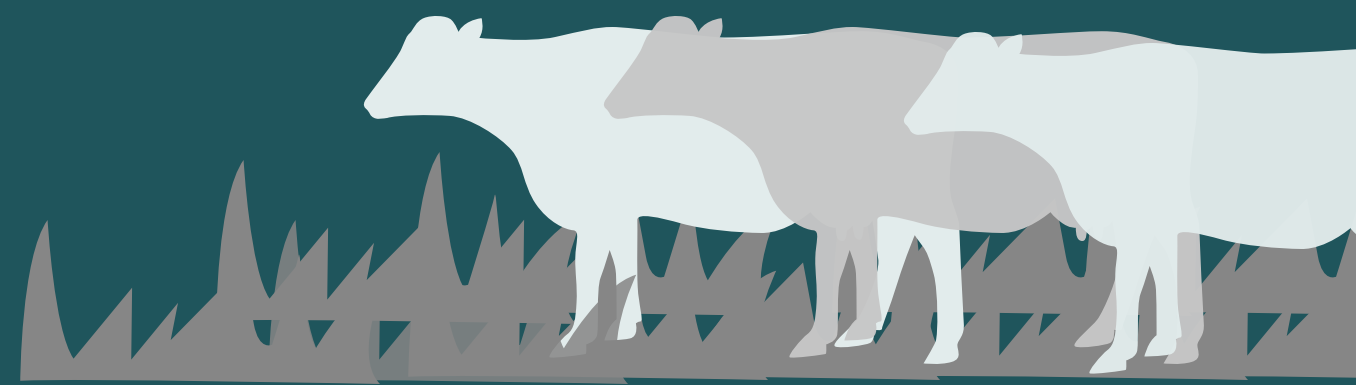
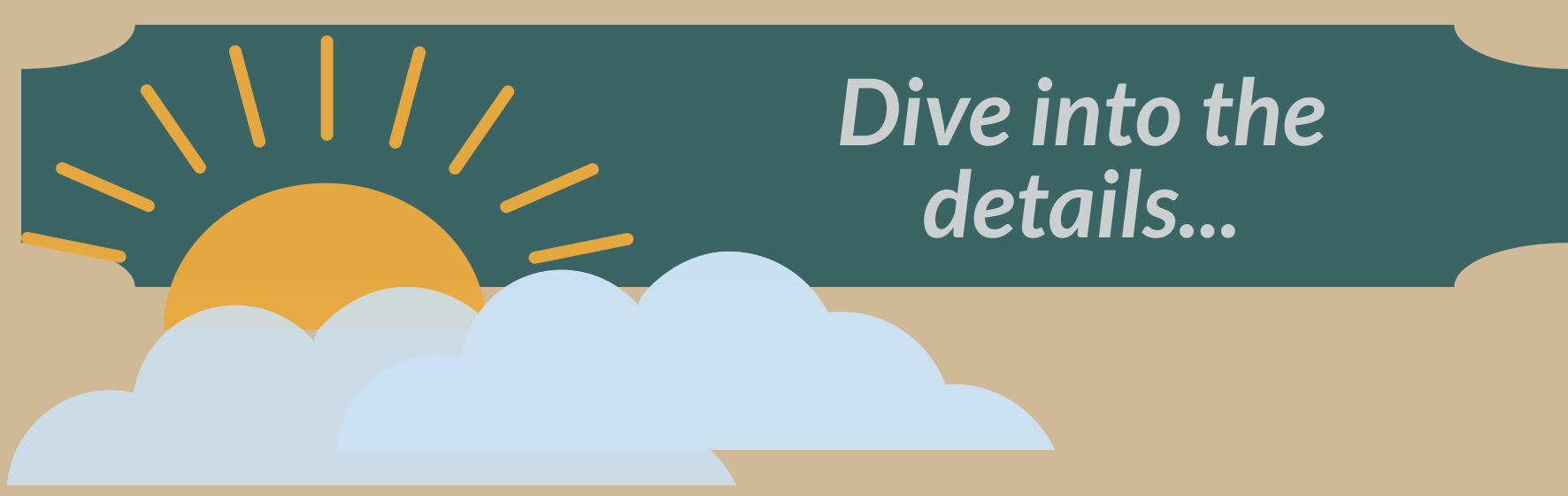


Collaborative Adaptive Rangeland Management



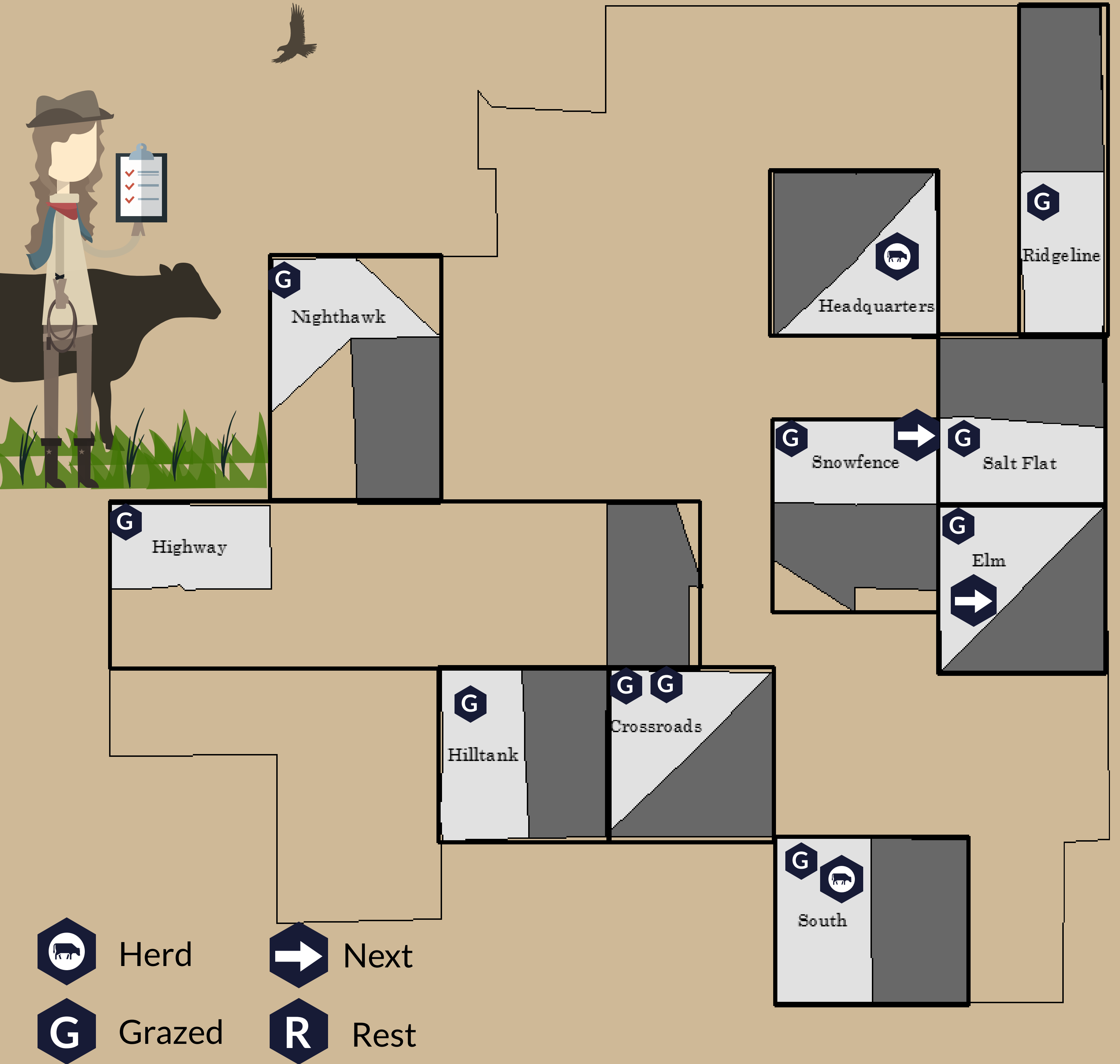
Review where it all began





Dive into the details...

And we're back online!



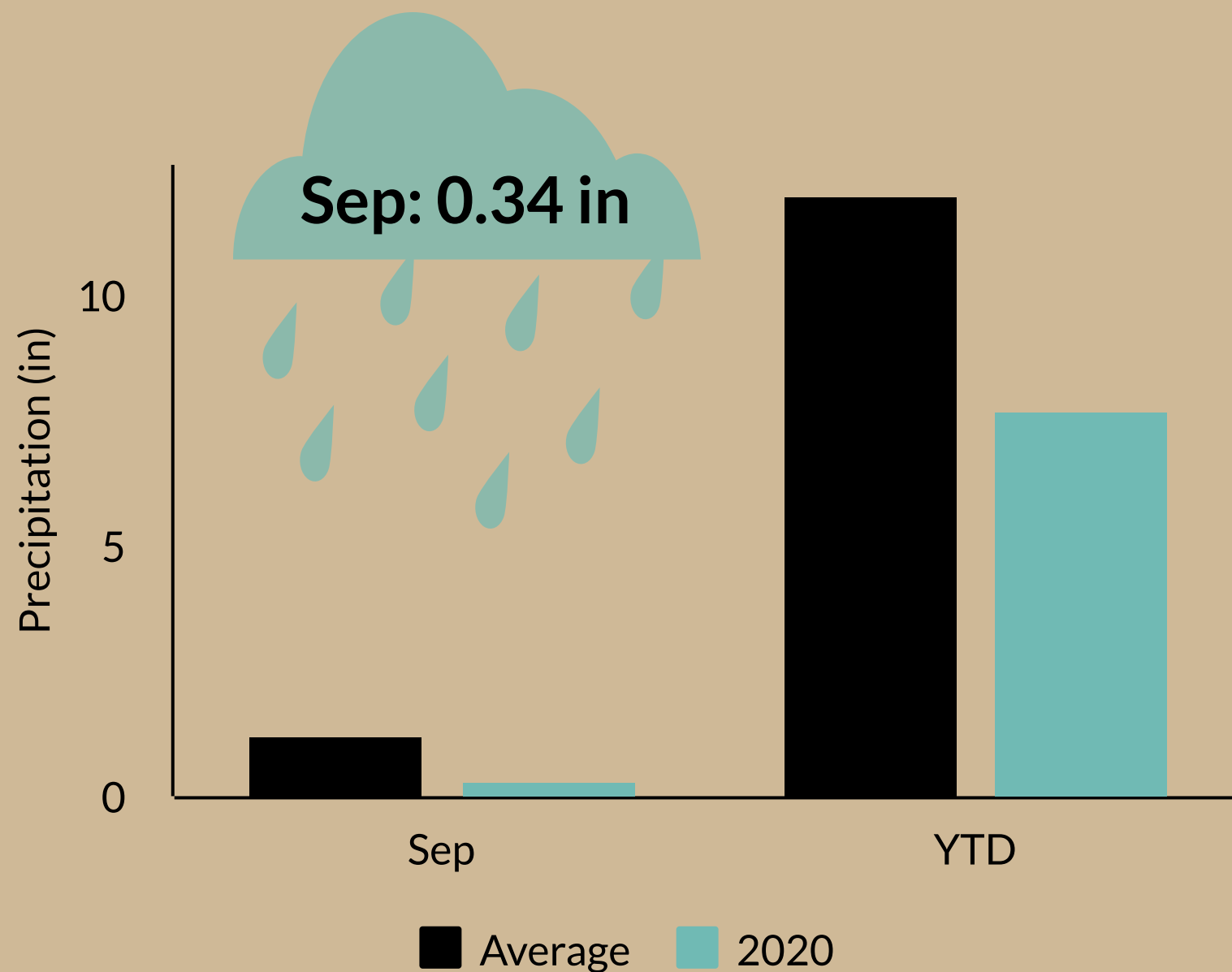
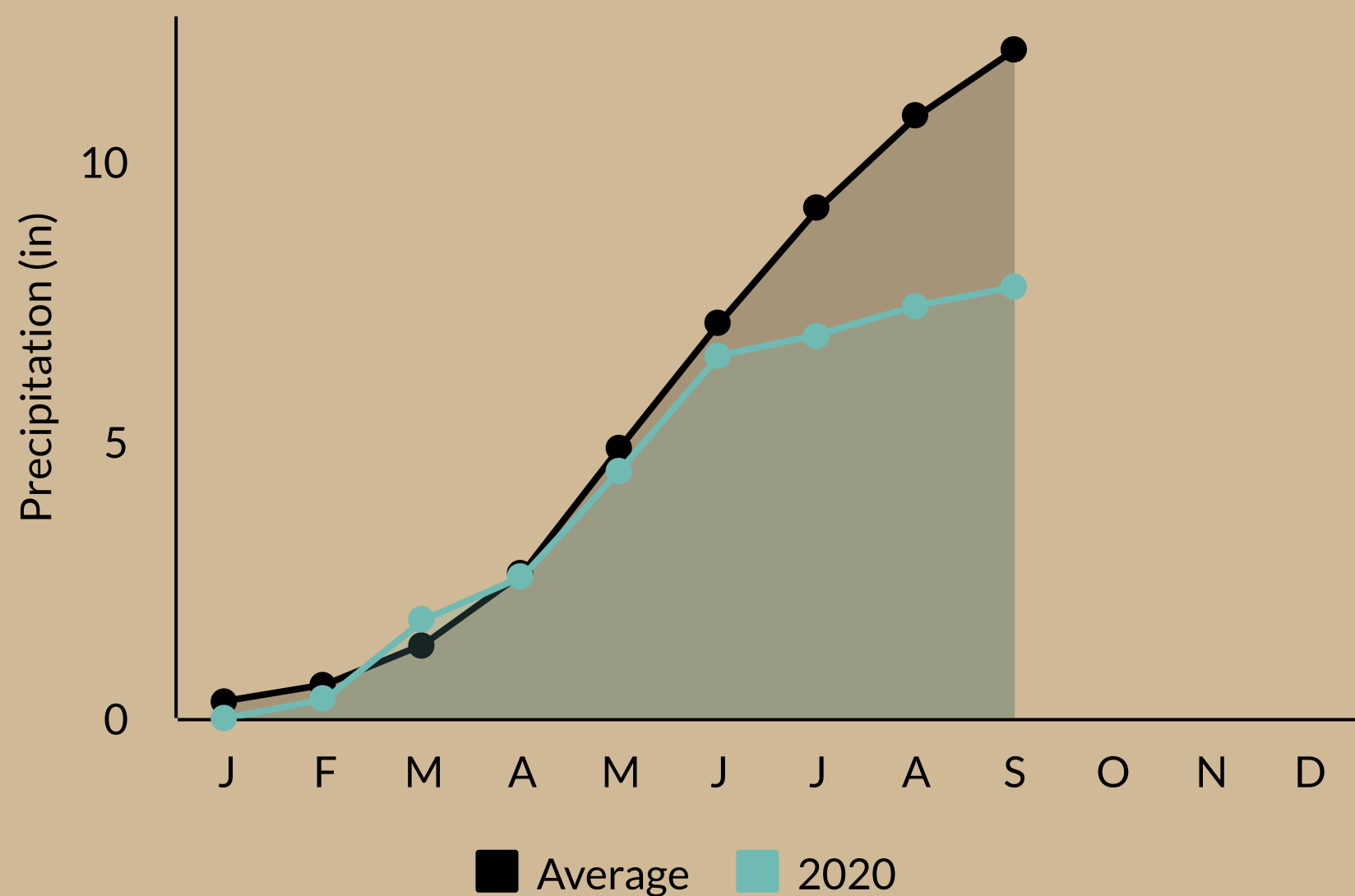
South | Headquarters

- Mixed Soils
- Warm Season Grasses
- Vegetation Threshold:
 - 400 pounds/acre
- Grazed 6/18 - 7/1, now regrazed

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

Highlights of Happenings

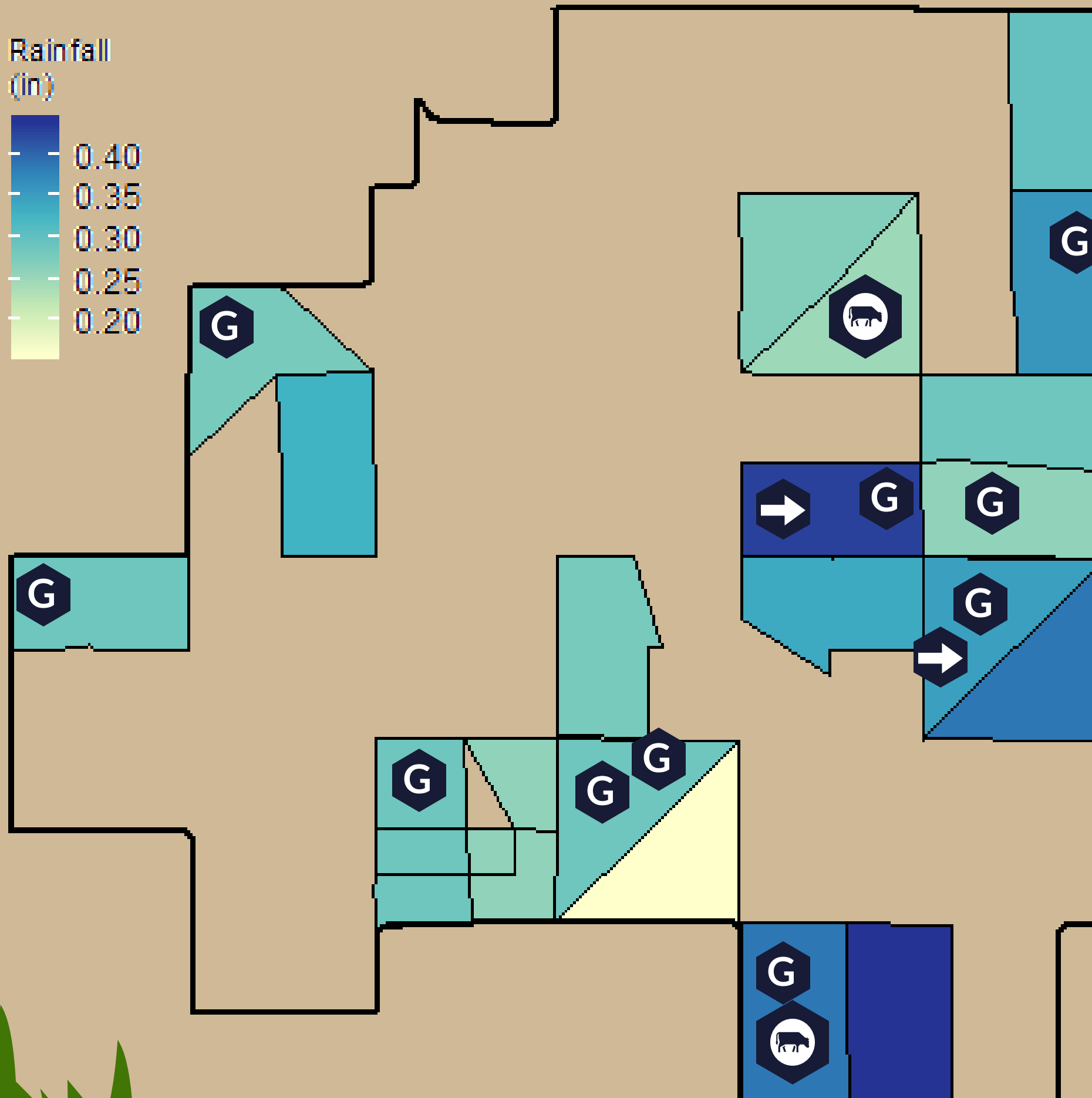
Rainfall Totals



Total Rainfall

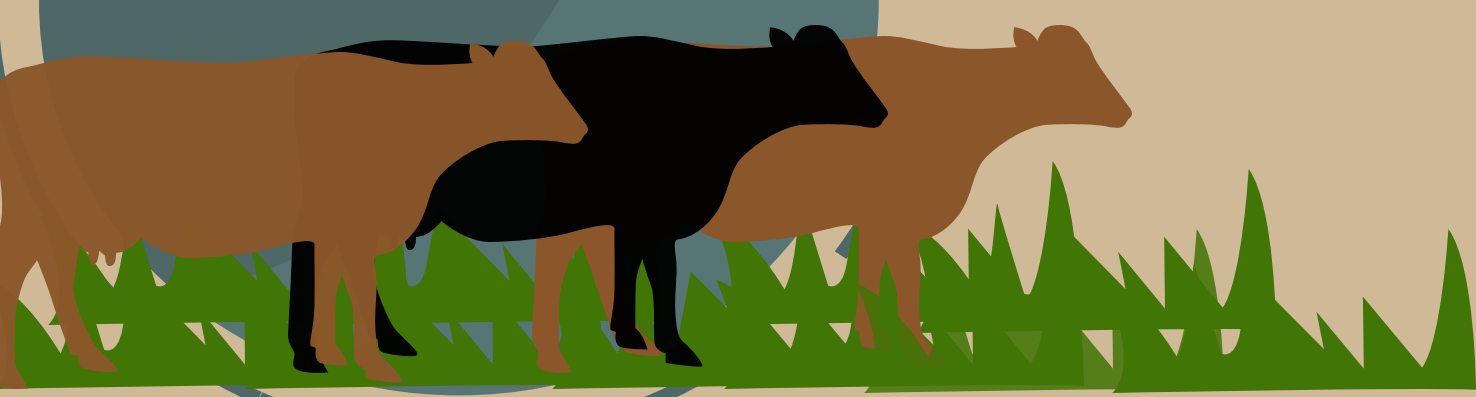
2020-09-06 to 2020-09-13

Rainfall Distribution



Drought Monitor

Grass-Cast



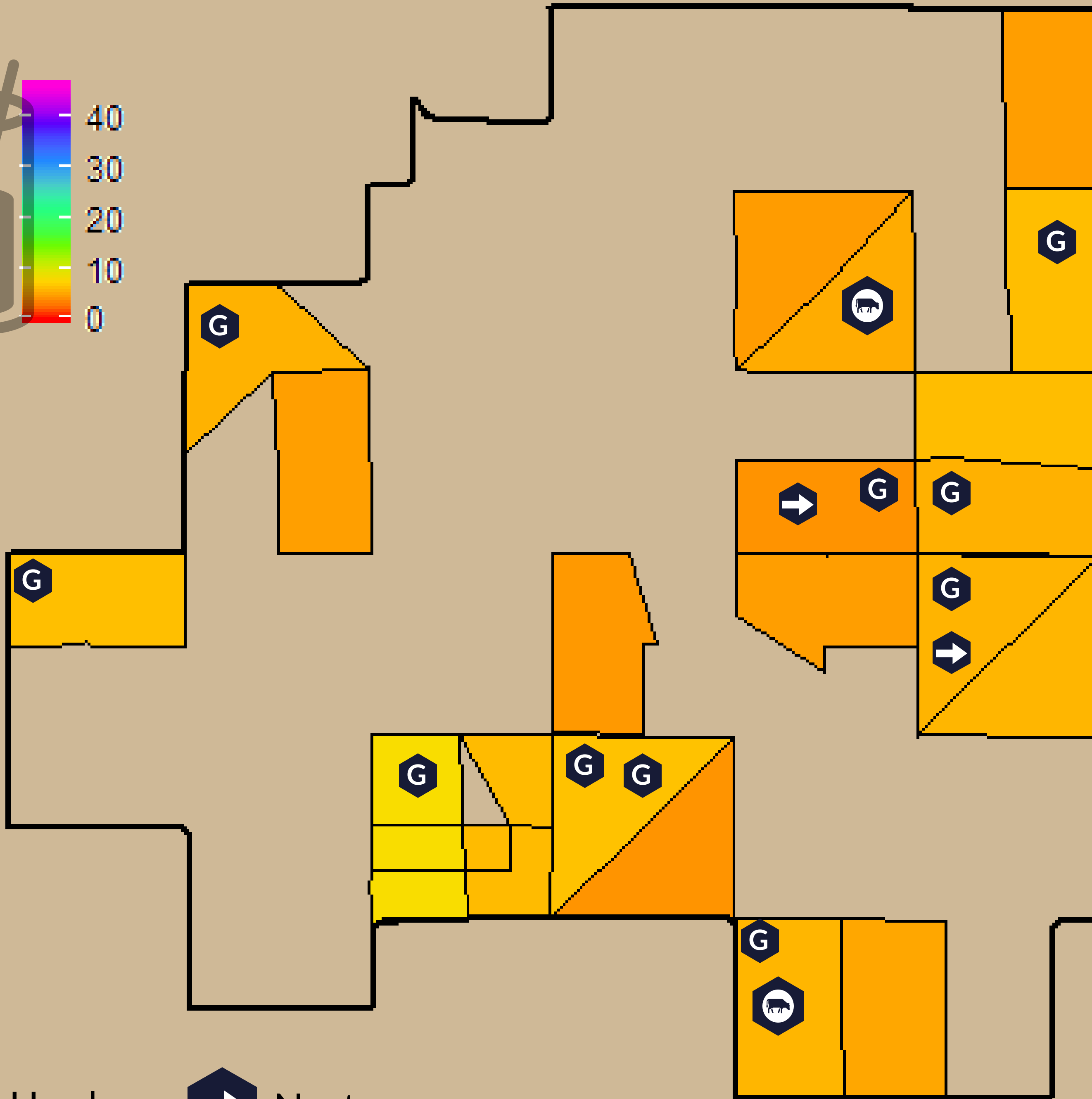
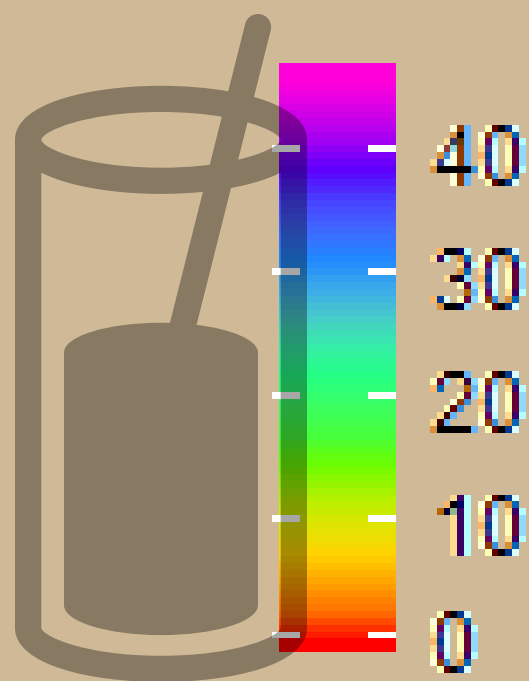
Soil Moisture Distribution

What's in our cup?

It will be interesting to see how much of this week's rain will end up in our cup.

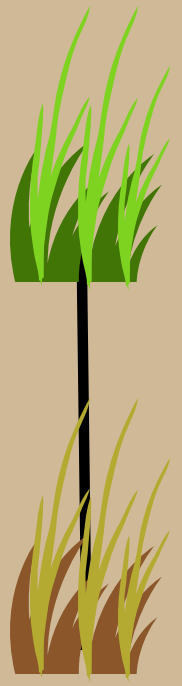
Current Soil Moisture

2020-09-13

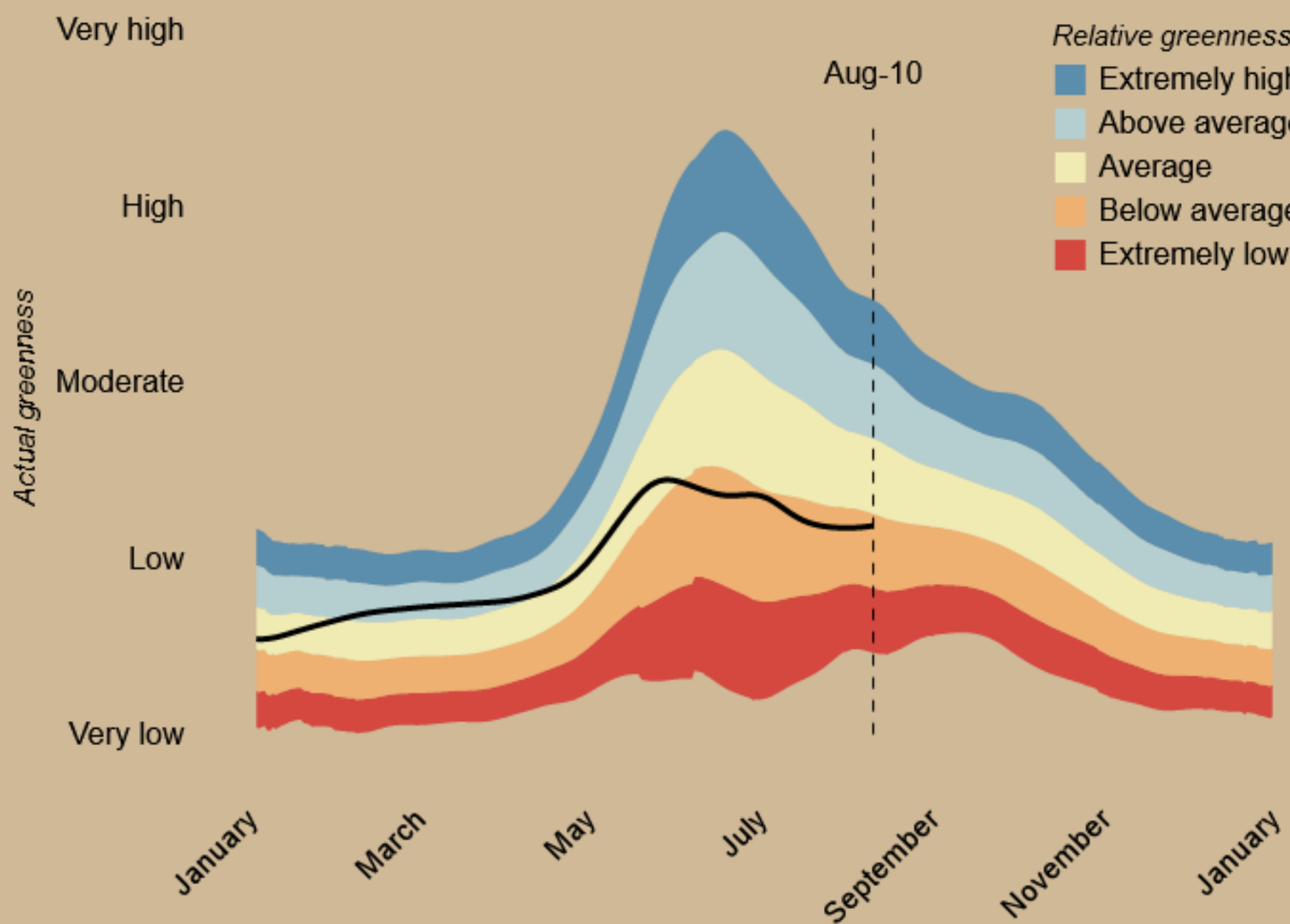
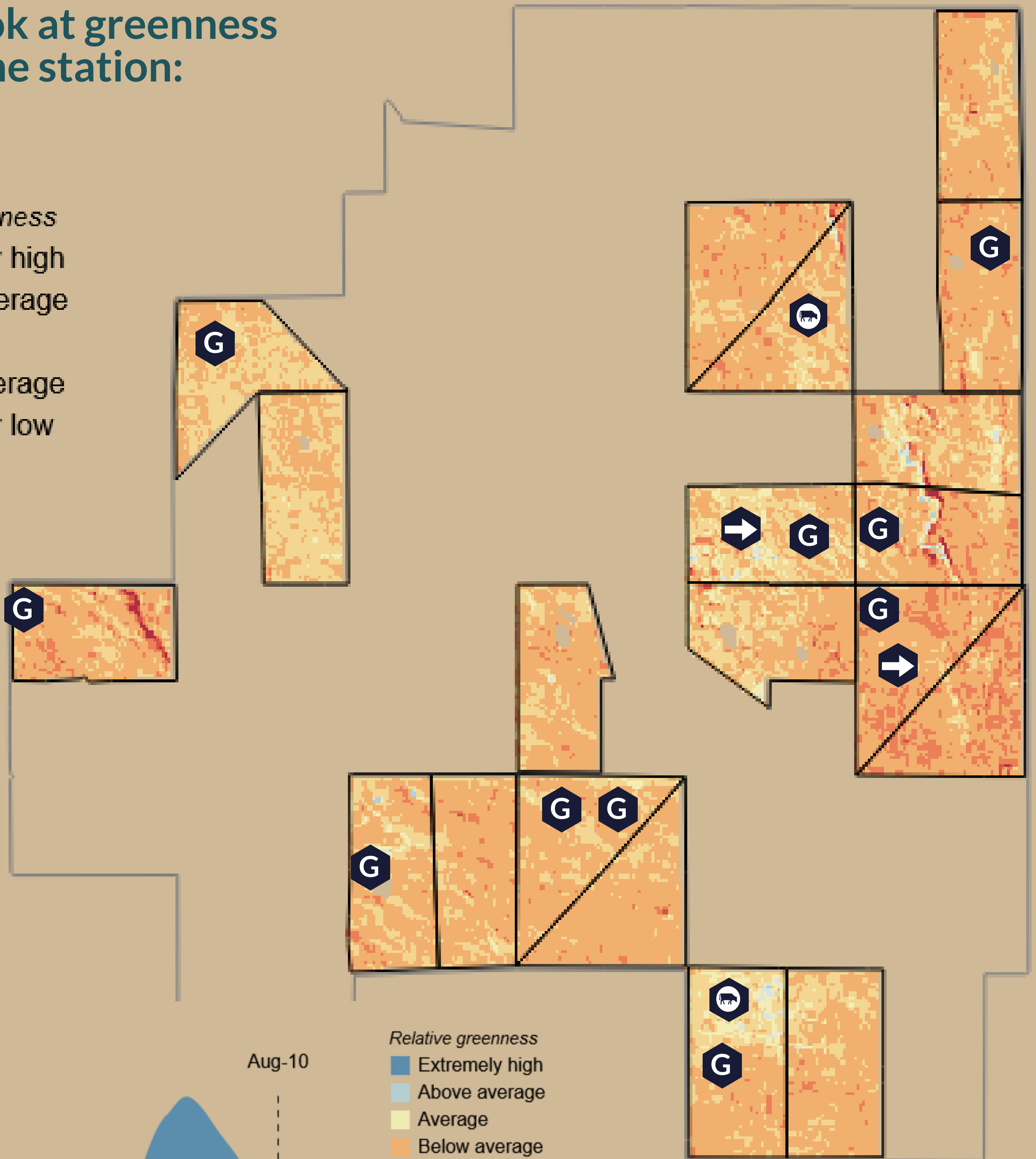






- Herd
- Next
- Grazed
- Rest

A detailed look at greenness across the station:



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



-  Herd
-  Next
-  Grazed
-  Rest

South - CARM1



Lots to keep track of here:

- 1) CARM 2 grazed South from Jun 18th - July 1st
- 2) CARM 1 moved into South: Sep 15th
- 3) Re-grazed Entry VOR: 376 lbs/acre

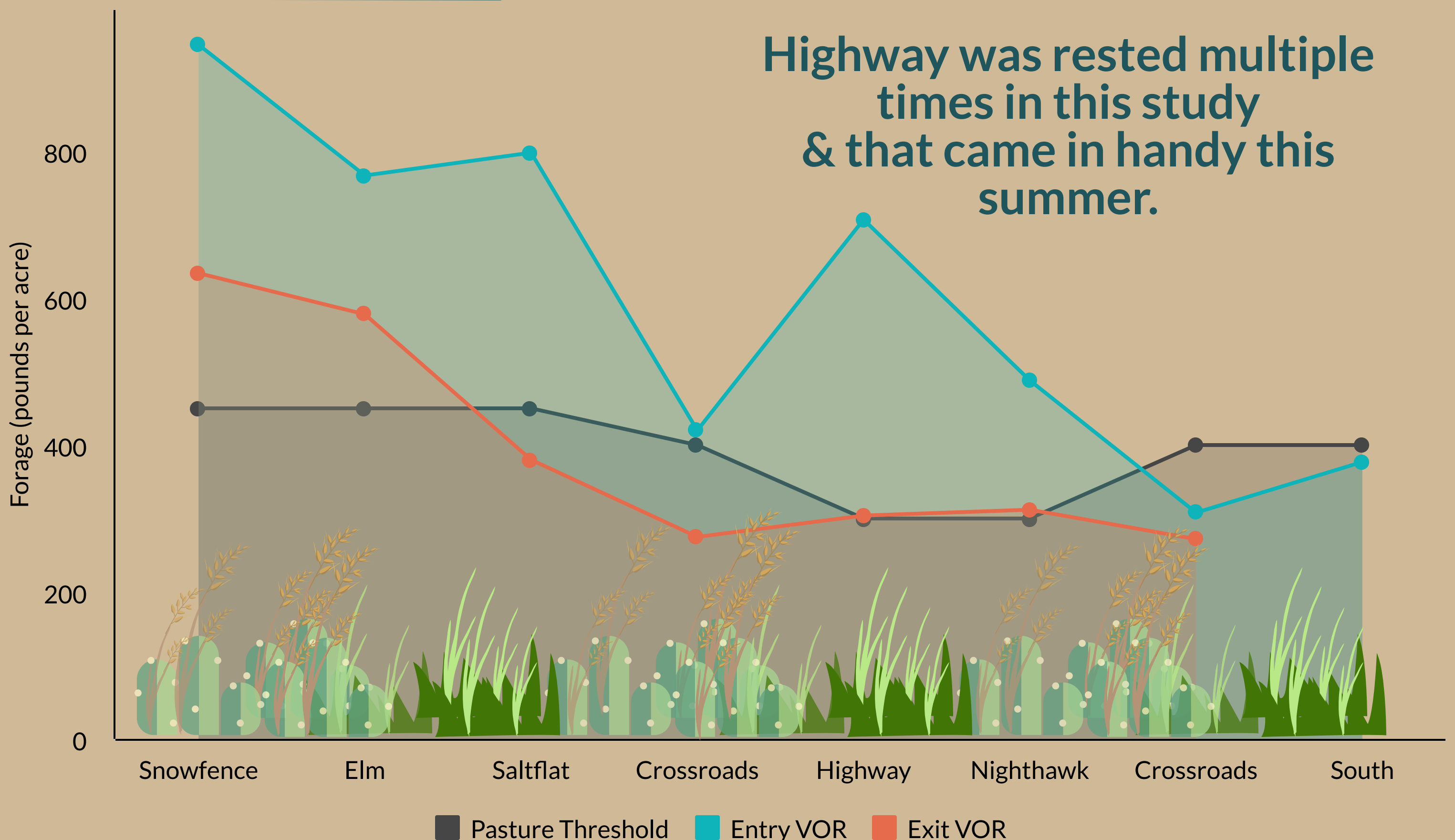
Note: Yes, it is below the drought threshold.

However! BOTH - the remote sensing & on-the-ground measurements indicated re-growth had occurred.

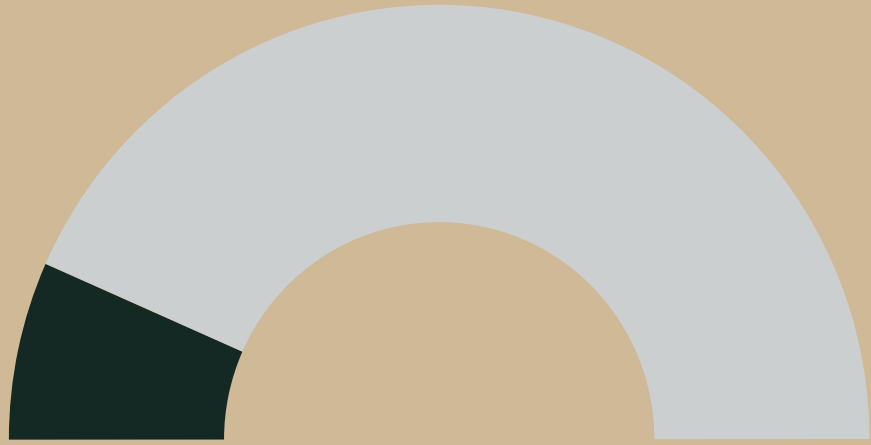
AND - Stakeholder's agreed that re-grazing pastures with short-structure grass requirements to meet Bird Objectives was an appropriate decision.

We're managing under Max-Days / Cattle-Observation triggers now.

Let's track CARM-1 VOR

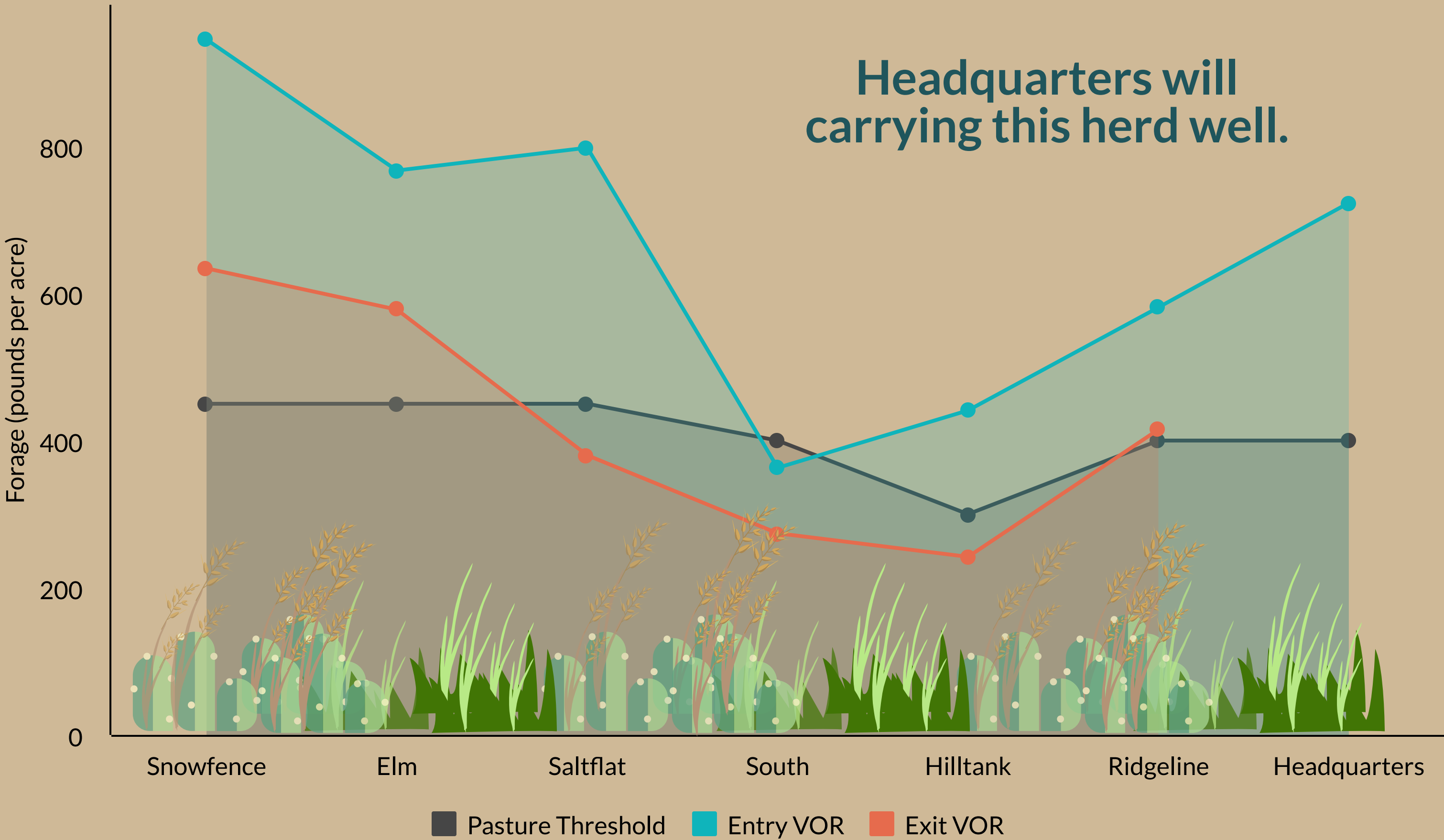


Headquarters - CARM 2



NOTE: Empty (E) is set at 400 lbs/acre

Let's track CARM-2 VOR

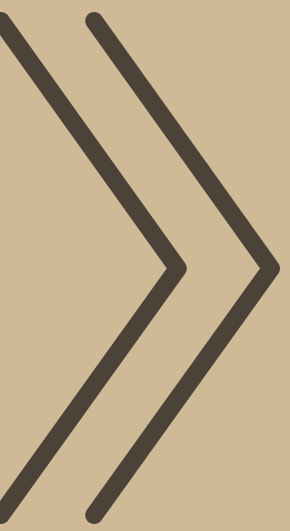




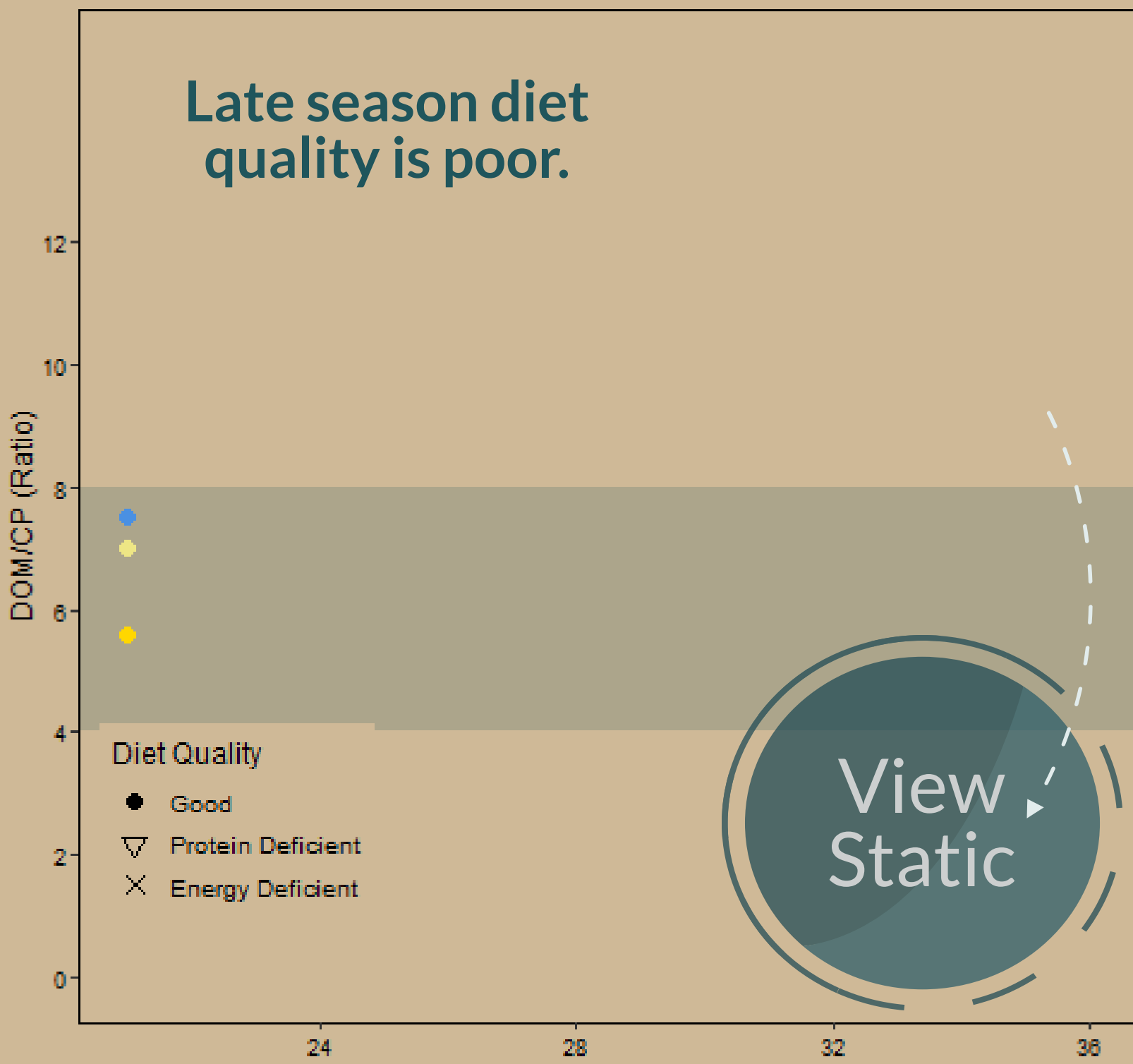
**HQ
Entry**



**this
week**

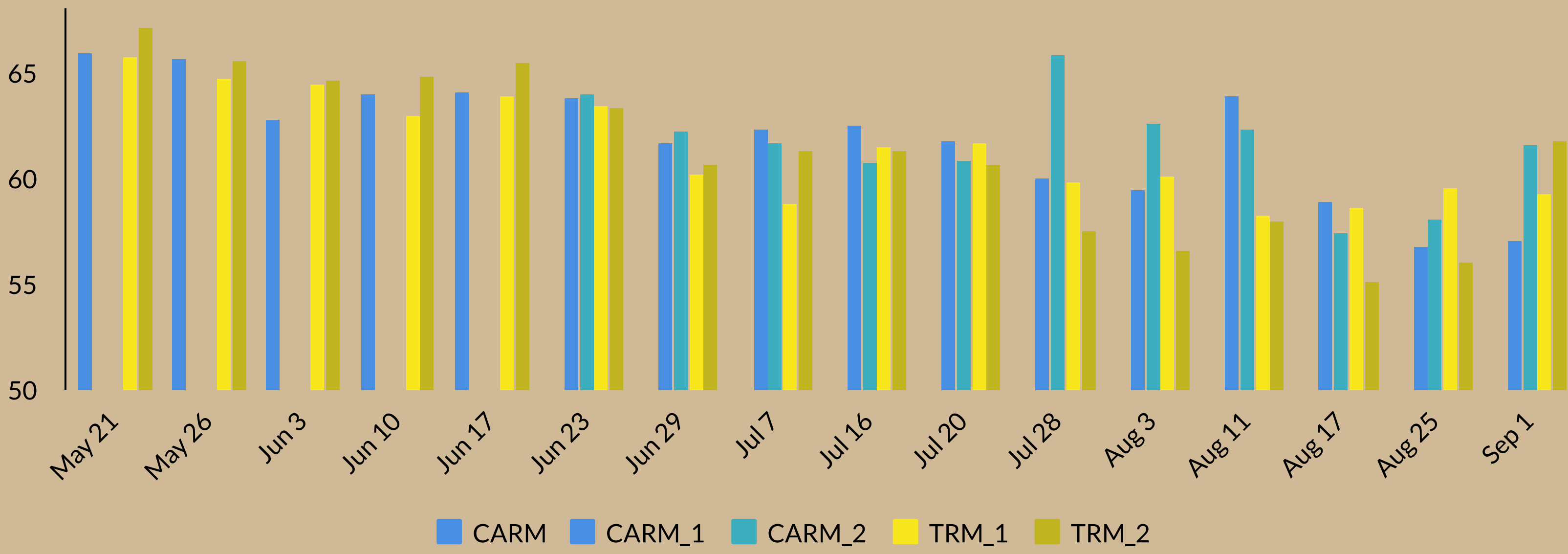


Late season diet quality is poor.

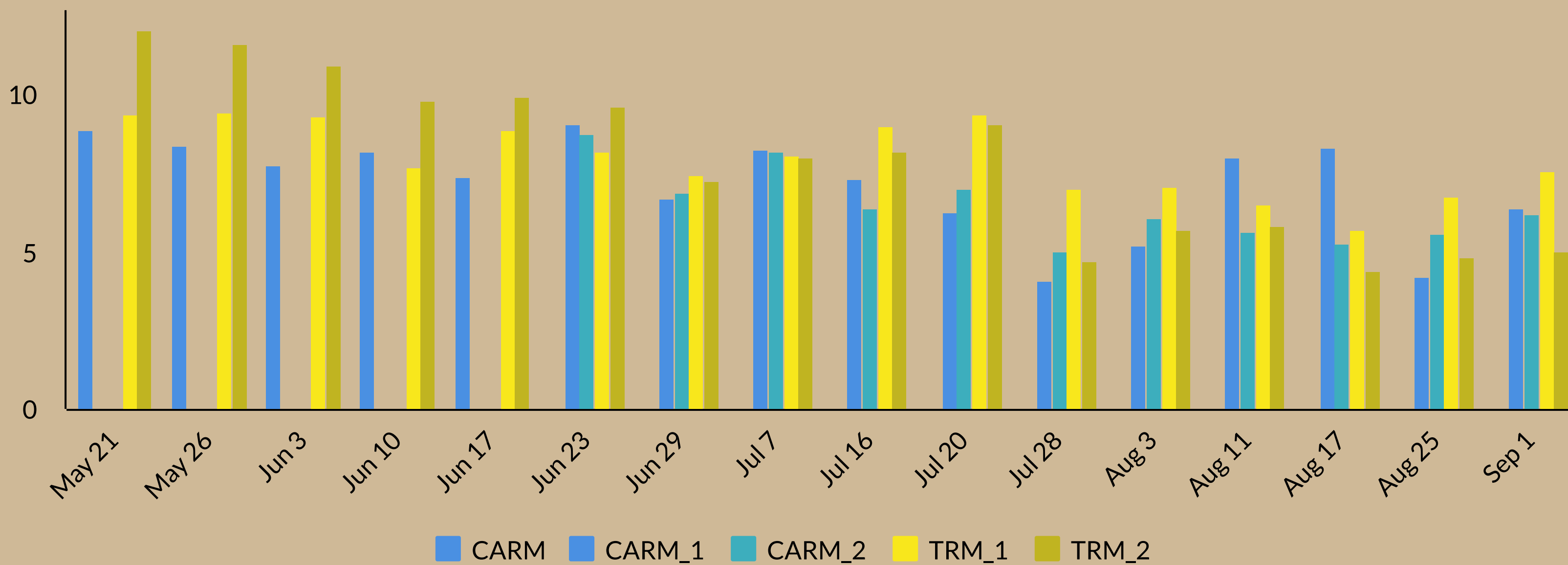


The Scoop on Poop

Digestible Organic Matter (%DOM)



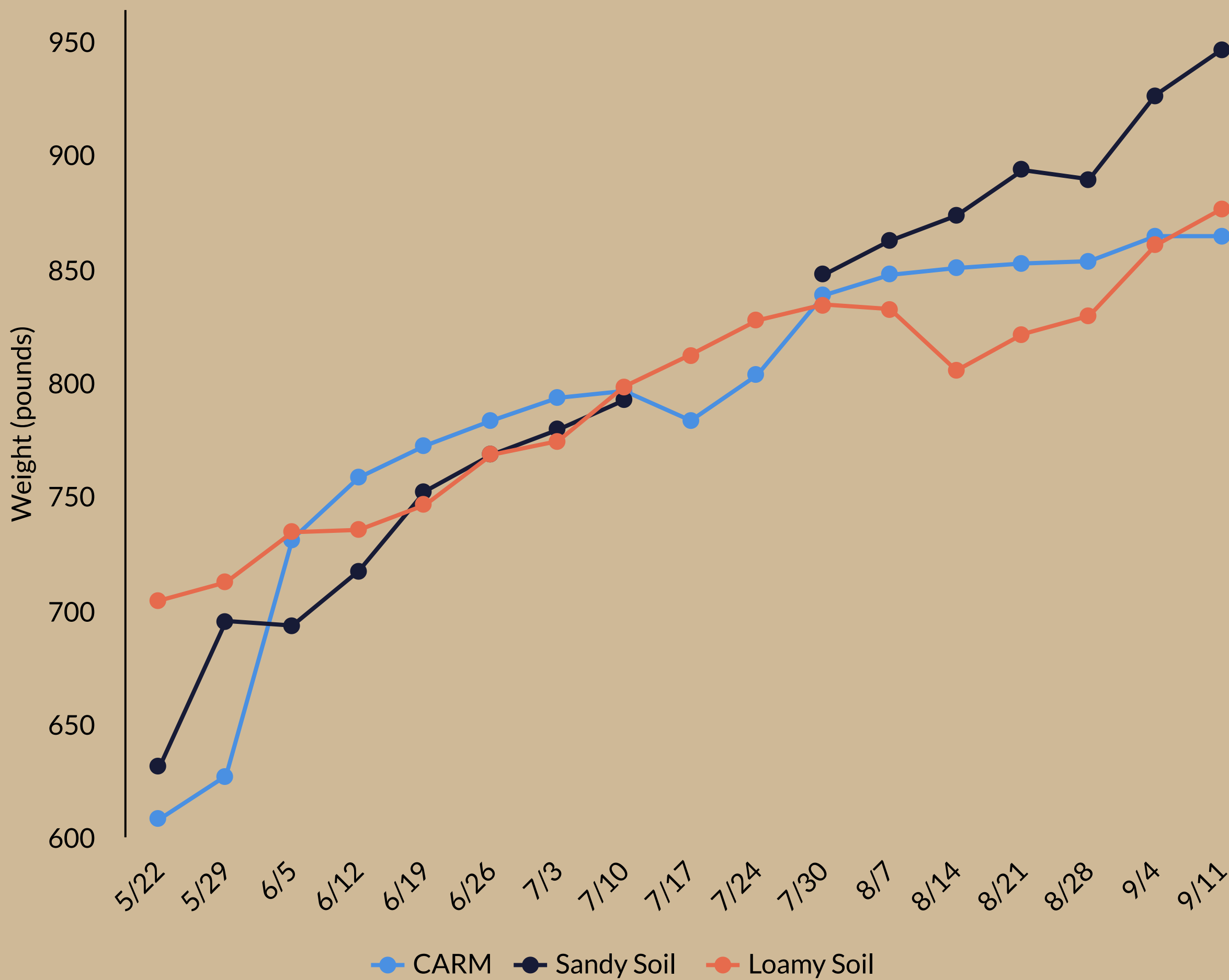
Crude Protein (%)



Remote WOW

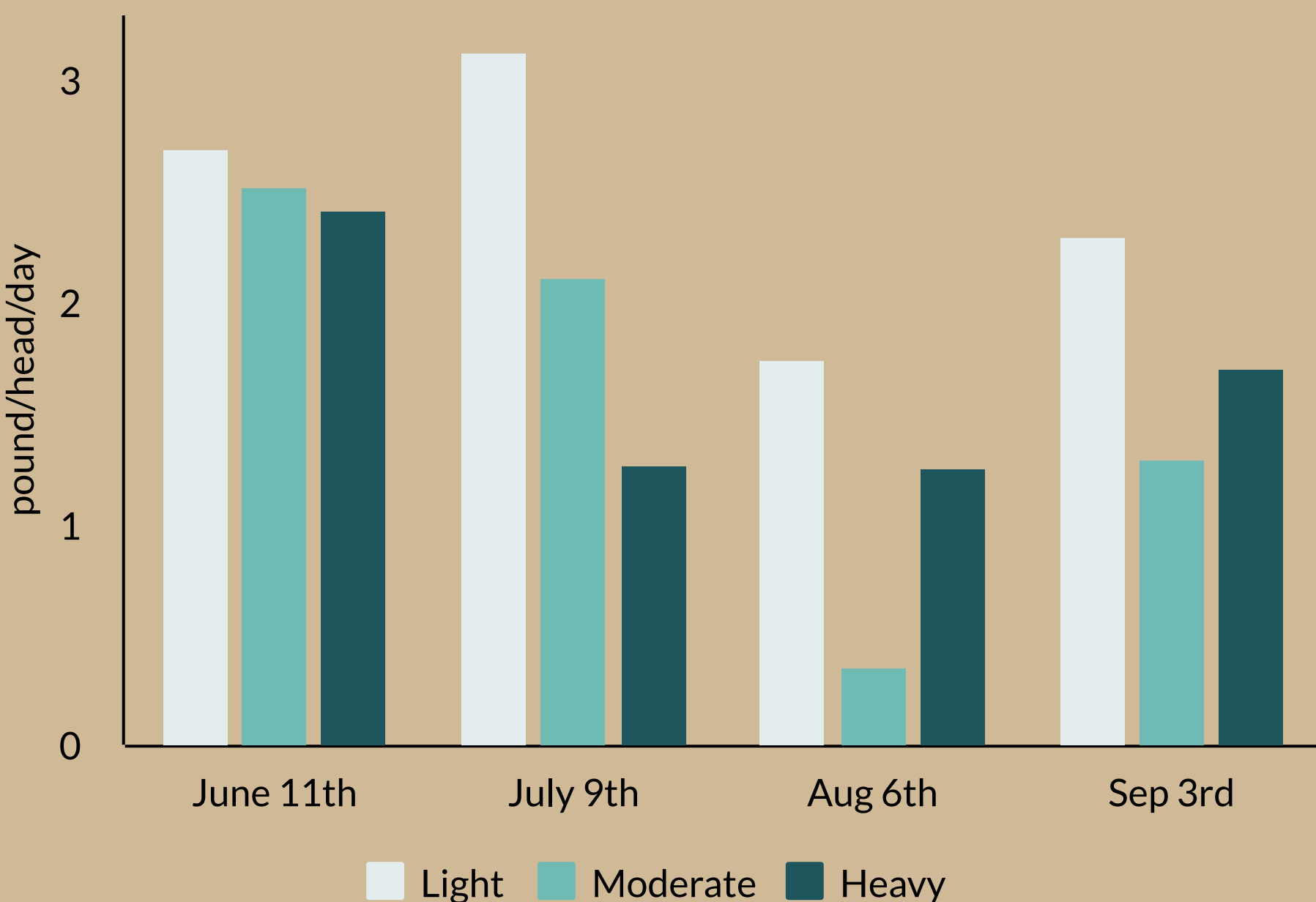


Walk-over Weigh Scale Data



Average Daily Gains

Average Daily Gains (28 Days)



Stocking Rate

Light: 17 head

Moderate: 23 head

Heavy: 34 head

Steers per 320 acres

Review 2019 vs 2020



Treatment	2019	2020
Light stocking: 1 st 28 days	4.3	3.2
Moderate stocking: 1 st 28 days	3.8	3.0
Heavy stocking: 1 st 28 days	3.7	2.8
Light stocking: 2 nd 28 days	3.8	3.1
Moderate stocking: 2 nd 28 days	3.4	2.1
Heavy stocking: 2 nd 28 days	3.9	1.3
Light stocking: 3 rd 28 days	1.0	1.7
Moderate stocking: 3 rd 28 days	2.2	0.4
Heavy stocking: 3 rd 28 days	1.3	1.3
Light stocking: 4 th 28 days	2.3	3.0
Moderate stocking: 4 th 28 days	1.3	2.2
Heavy stocking: 4 th 28 days	1.7	0.6

Treatment	2019	2020
CARM: first third of grazing season (about 45 days)	3.4	2.4
CARM: second third of grazing season (about 45 days)	1.7	1.9
Low-High-Low: Low-stock density gains (about 80 days)	2.8	2.1
Low-High-Low: High-stock density gains (about 30 days)	1.8	0.7





Decision Recap

Current Rotation ---->

ADAPTIVE!

Under current conditions we're now running on a plan determined by stakeholders in August.

CARM 1 - Will regraze Crossroads, South, & Elm

CARM 2 - Will graze planned rested pasture Headquarters & regraze Snowfence

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	Left almost two weeks earlier than planned.
3.1) Crossroads	Reduce VO for MCLO (< 5cm) 6/29-8/10	18-Jun	1-Jul	VOR Threshold	Used drought threshold
3.2) South	Reduce VO for MCLO (< 5cm) 6/29-8/10	18-Jun	1-Jul	VOR Threshold	Used drought threshold
4.1) Highway	Reduce VO for MCLO (< 5cm) 8/10 - 9/21	1-Jul	6-Aug	VOR Threshold	Used drought threshold
4.2) Hilltank	MCLO 8/10 - 9/21	1-Jul	20-Jul	VOR Threshold	Used drought threshold
5.1) Nighthawk	9/21 - end of season	6-Aug	3-Sep	VOR Threshold	Used drought threshold
5.2) Ridgeline	9/21 - end of season	20-Jul	26-Aug	VOR Threshold	Used drought threshold
6.1) Headquarters	Rest	26-Aug			CARM 2 herd
6.2) Crossroads	Regrazed	3-Sep	15-Sep	Days	
7.2) South	Regrazed	15-Sep			



Up & Coming

- Oct 3rd/4th - Station Gather
- Oct 5-7th - Final season weigh
- Oct 15th - CARM meeting

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!