Collaborative Adaptive Rangeland Management

Where it all began
What's in our cup?

This heat wave is forcing those grasses to drink that cup.
A detailed look at greenness across the station:

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

The pastures are drying out in this heat.
Highway

592 lbs/acre
2.8 cm

Hilltank

315 lbs/acre
1.2 cm

NOTE: Empty (E) is set at 300 lbs/acre
Tech Note:
- Starting to green back up.
CARM's moves can be seen in their DOM/CP ratio!

**Digestible Organic Matter (%DOM)**

- **Snowfence & Saltflat**
  - May 21: ~66%
  - May 26: ~65%
  - Jun 3: ~64%

- **SF & Elm**
  - Jun 10: ~65%
  - Jun 17: ~65%
  - Jun 23: ~65%

- **XR & South**
  - Jun 23: ~65%

**Crude Protein (%)**

- **Snowfence & Saltflat**
  - May 21: ~8%
  - May 26: ~9%
  - Jun 3: ~8%

- **SF & Elm**
  - Jun 10: ~9%
  - Jun 17: ~9%
  - Jun 17: ~9%

- **XR & South**
  - Jun 23: ~9%
Walk-over Weigh Scale Data

Wait, CARM is heavier than TRM pastures? Not necessarily...

Remember! Not every pass across the scale produces a good read, therefore not every animal is accounted for every day.

However - The WOW trend may hold value.

Here are the two methods side by side.
Note: If you recall the June update that had the Daily Gains, you’ll remember the June 11th ADG is very different from this graph here. This graph has ADG calculated across 28-days (not two 14-day periods).

Big change across stocking densities!

How is CARM standing up to the dry conditions?

2020 CARM is gaining about 1 pound/head/day LESS than in 2019. As are ALL other treatments. Low grass, Low gains.
Decision Recap

Stakeholders voted on some big changes this April!

Rotation 4:
Start Date: August 10
Max Days: 42
VOR trigger: same
CARM1 in Highway and CARM2 in Hilltank
This should not negatively impact Fourwing saltbush.
It should help reach shortgrass goals in Hilltank.

<table>
<thead>
<tr>
<th>Pasture</th>
<th>What we wanted to happen</th>
<th>What actually happened</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Notes from April</td>
<td>Date In</td>
</tr>
<tr>
<td>1) Snowfence &amp; Saltflat</td>
<td>Gates open between, Shoot for 21-24 days, measure VOR separate &amp; use average to gauge veg trigger, cattle gains, 5/15 - 6/8</td>
<td>15-May</td>
</tr>
<tr>
<td>2) Saltflat &amp; Elm</td>
<td>Gates open between, Shoot for 21-24 days, measure VOR separate &amp; use average to gauge veg trigger, cattle gains, 6/8 - 6/29</td>
<td>4-Jun</td>
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<tr>
<td>3.1) Crossroads</td>
<td>Reduce VO for MCLO (&lt; 5cm) 6/29 - 8/10</td>
<td>18-Jun</td>
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<tr>
<td>3.2) South</td>
<td>Reduce VO for MCLO (&lt; 5cm) 6/29 - 8/10</td>
<td>18-Jun</td>
</tr>
<tr>
<td>4.1) Highway</td>
<td>Reduce VO for MCLO (&lt; 5cm) 8/10 - 9/21</td>
<td>1-Jul</td>
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<tr>
<td>4.2) Hilltank</td>
<td>MCLO 8/10 - 9/21</td>
<td>1-Jul</td>
</tr>
<tr>
<td>5.1) Nighthawk</td>
<td>9/21 - end of easeon</td>
<td>1-Jul</td>
</tr>
<tr>
<td>5.2) Ridgeline</td>
<td>9/21 - end of easeon</td>
<td>1-Jul</td>
</tr>
<tr>
<td>6) Headquarters</td>
<td>Rest</td>
<td>1-Jul</td>
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Up & Coming

- Virtual Pasture Tour - July 30th
- CARM Data Day - Same day as the Virtual Tour!

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

For detailed precipitation data, maps, last year's updates, Scientist bios, and CARM documents, see our website:
[Email Button]
ALL access data!