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Crop Year Review 2025

ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS

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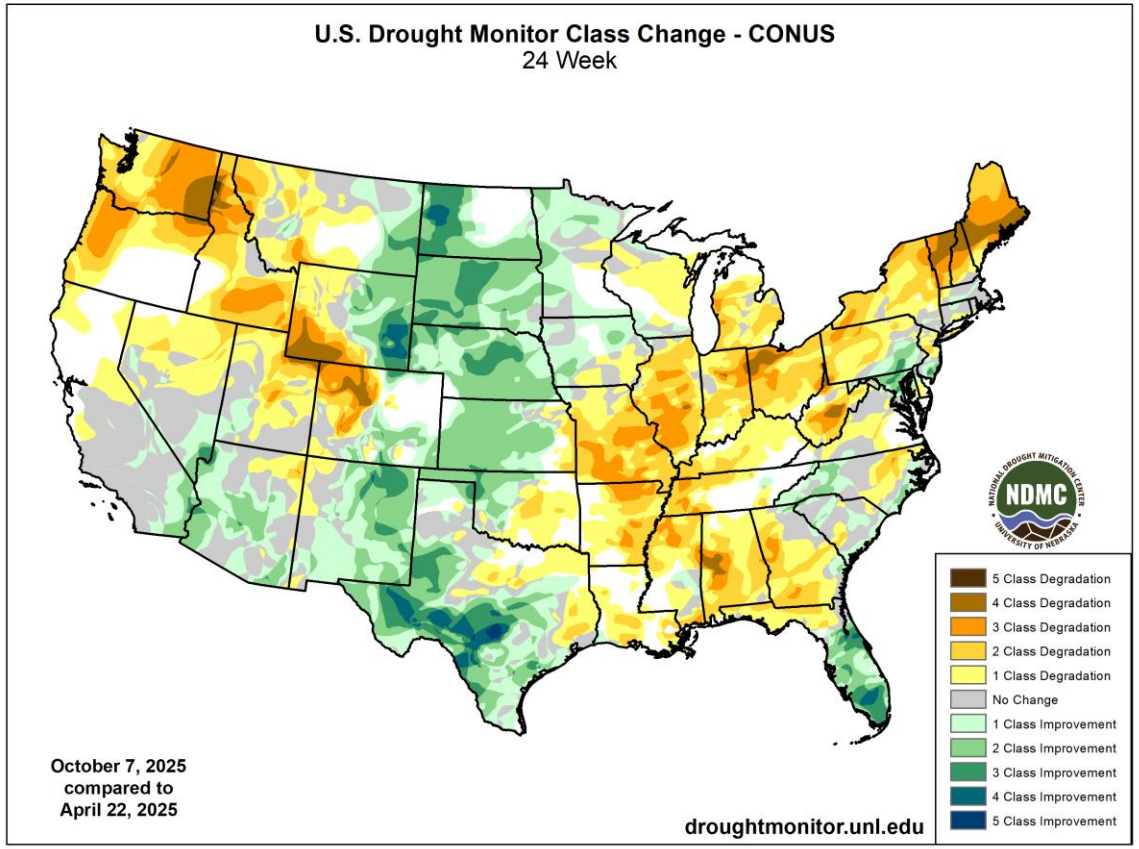
Year Setup

- Over the summer months much of the central plains saw improvements in drought conditions
- Spotty areas in NE WI saw drought conditions
- Fungal diseases such as tar spot and rust were prevalent for much of the Midwest/ into IA



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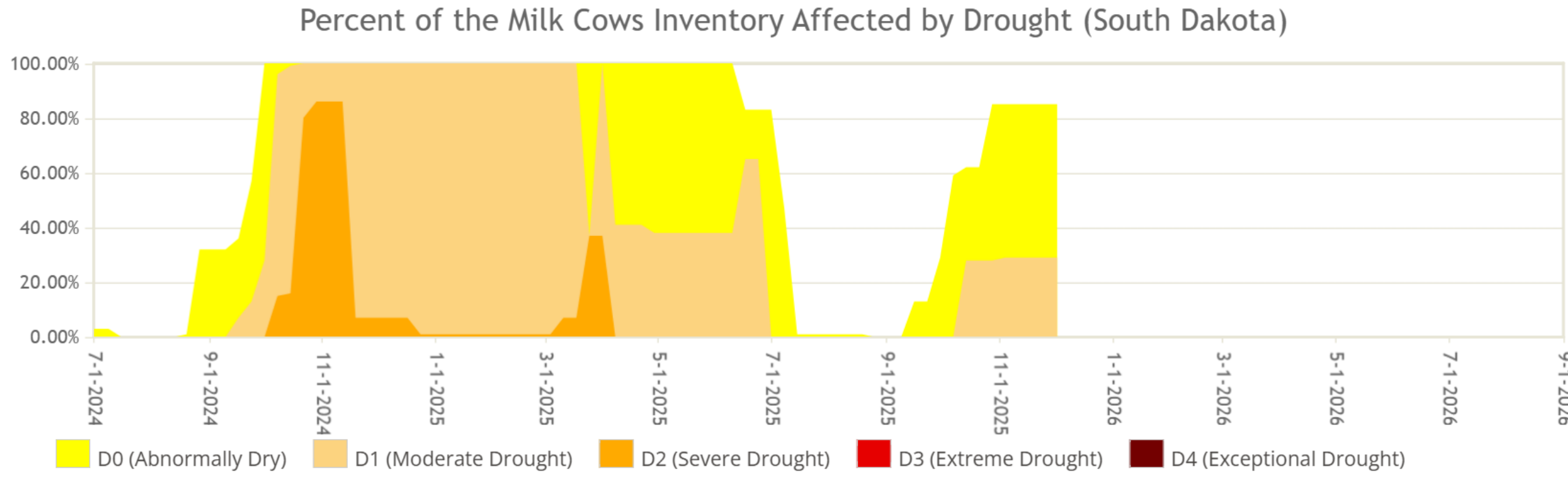
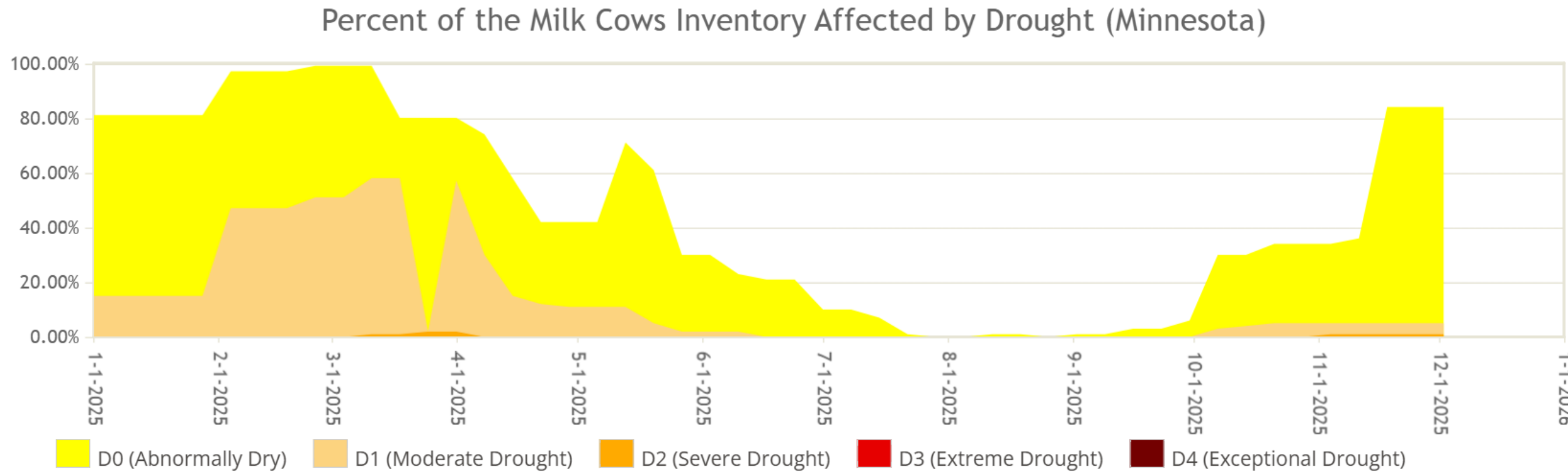
Year Setup- South Dakota



Year Setup- Minnesota



ROCK RIVER LABORATORY, INC.
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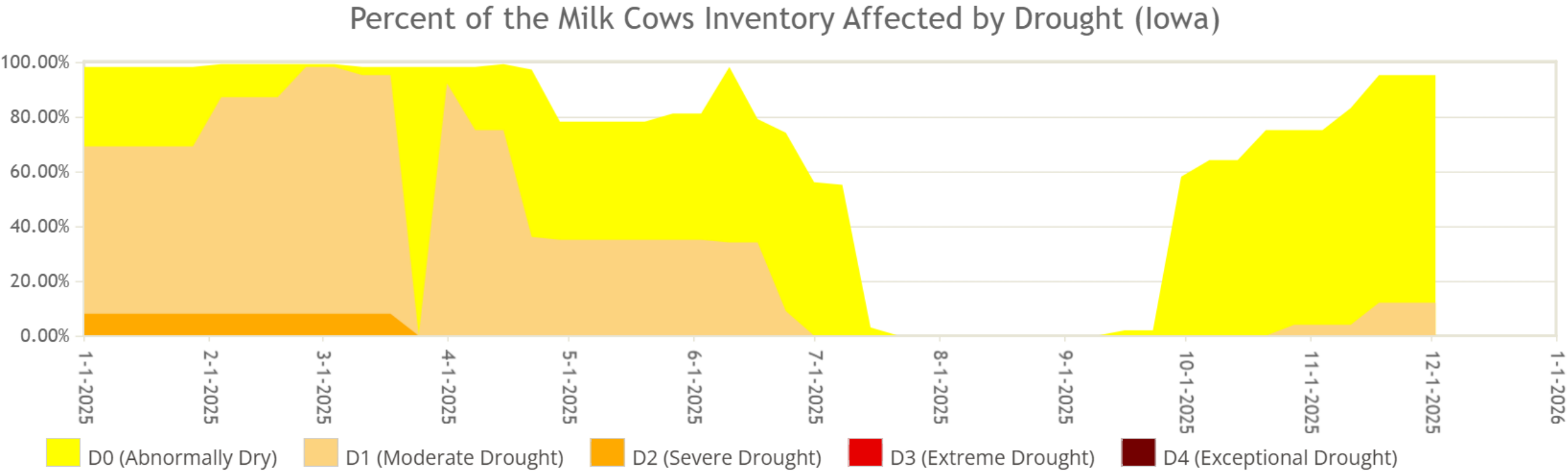
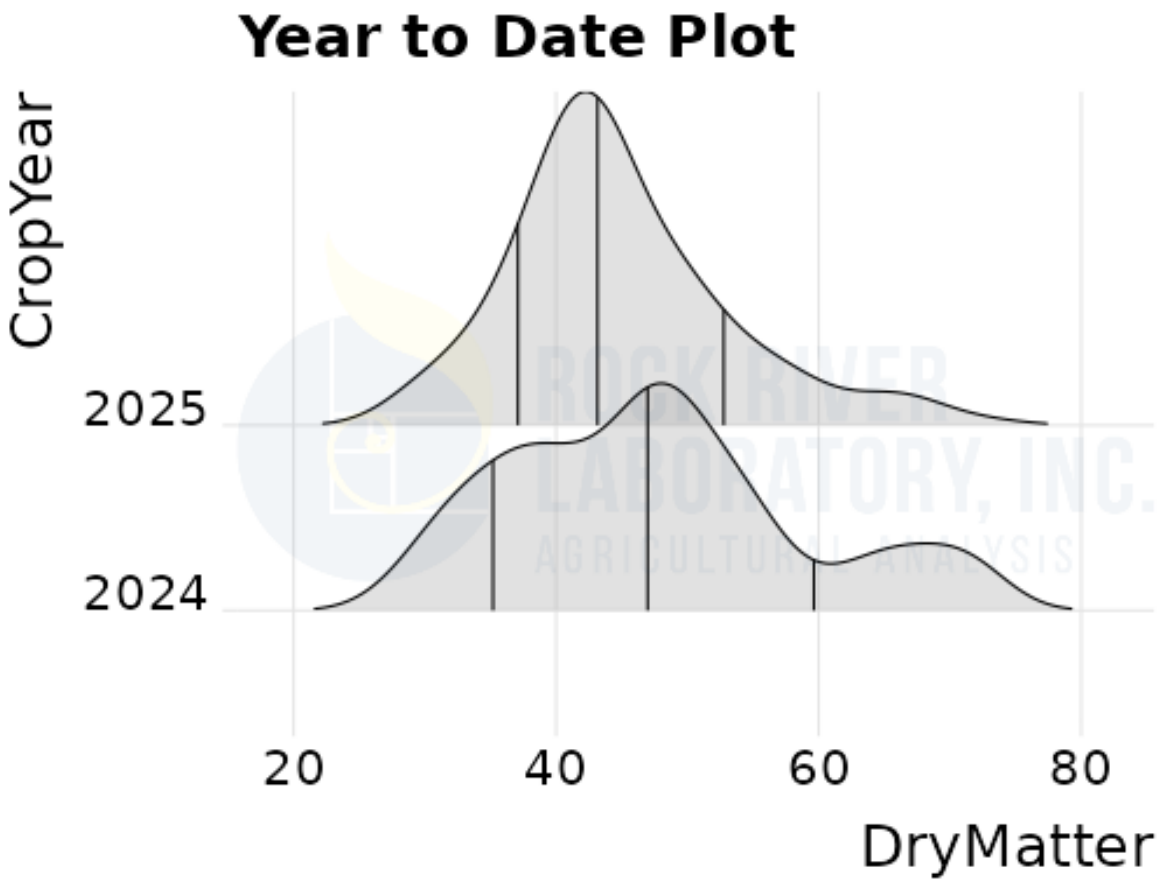
Year Setup- Iowa

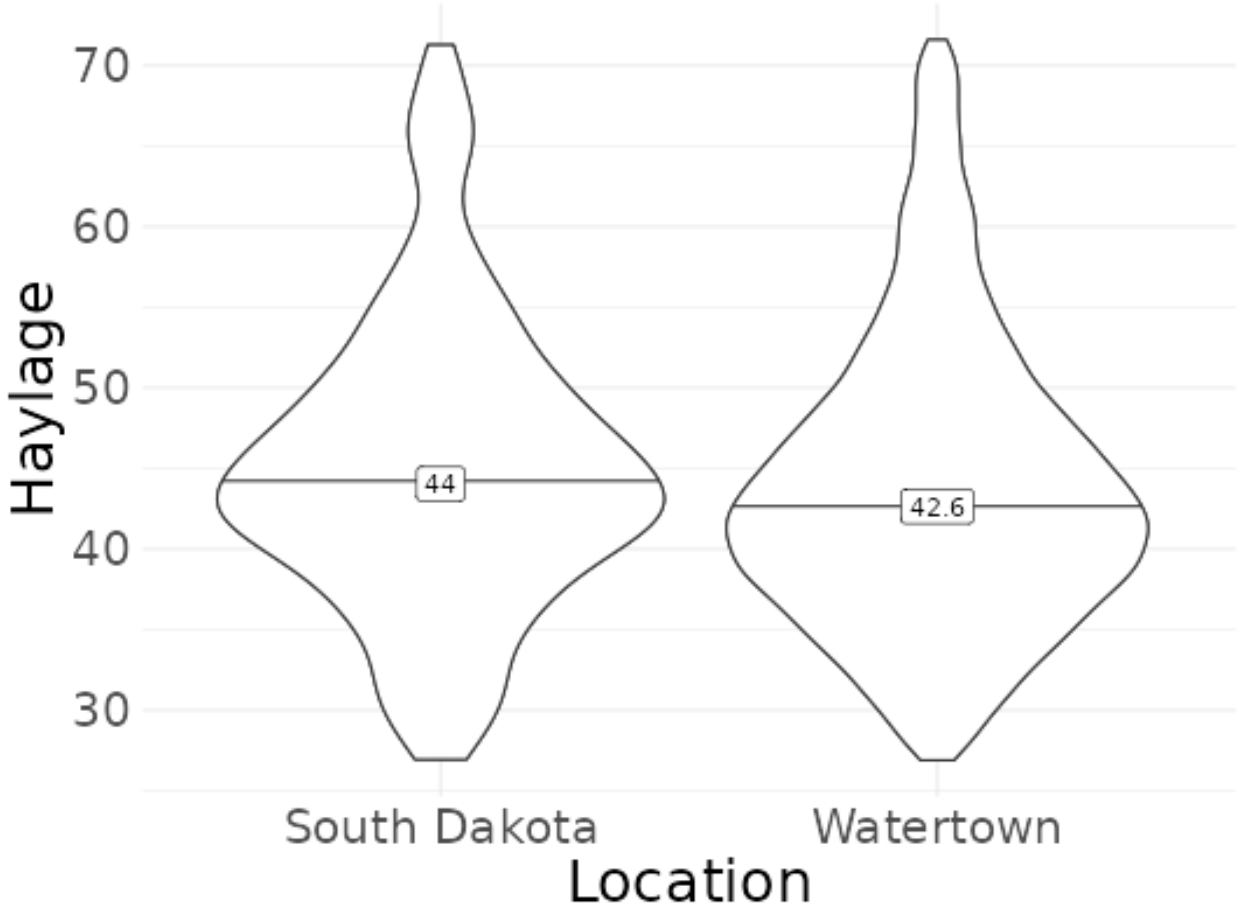


Methods Summary

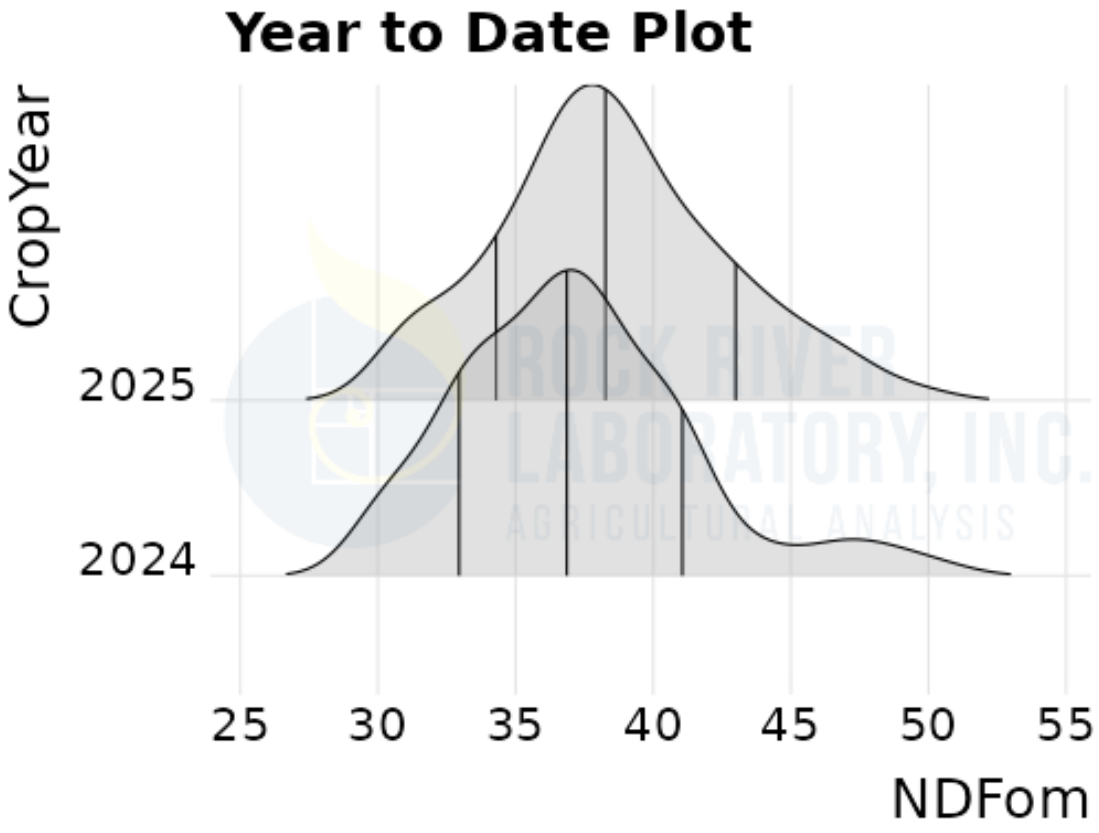
- Crop Year defined as samples submitted after September 1 for Corn Silage
- Crop Year defined as samples submitted after May 1 for Haylage & Small Grains Silage
- Outliers Omitted
- Year over year & comparison to WI presented

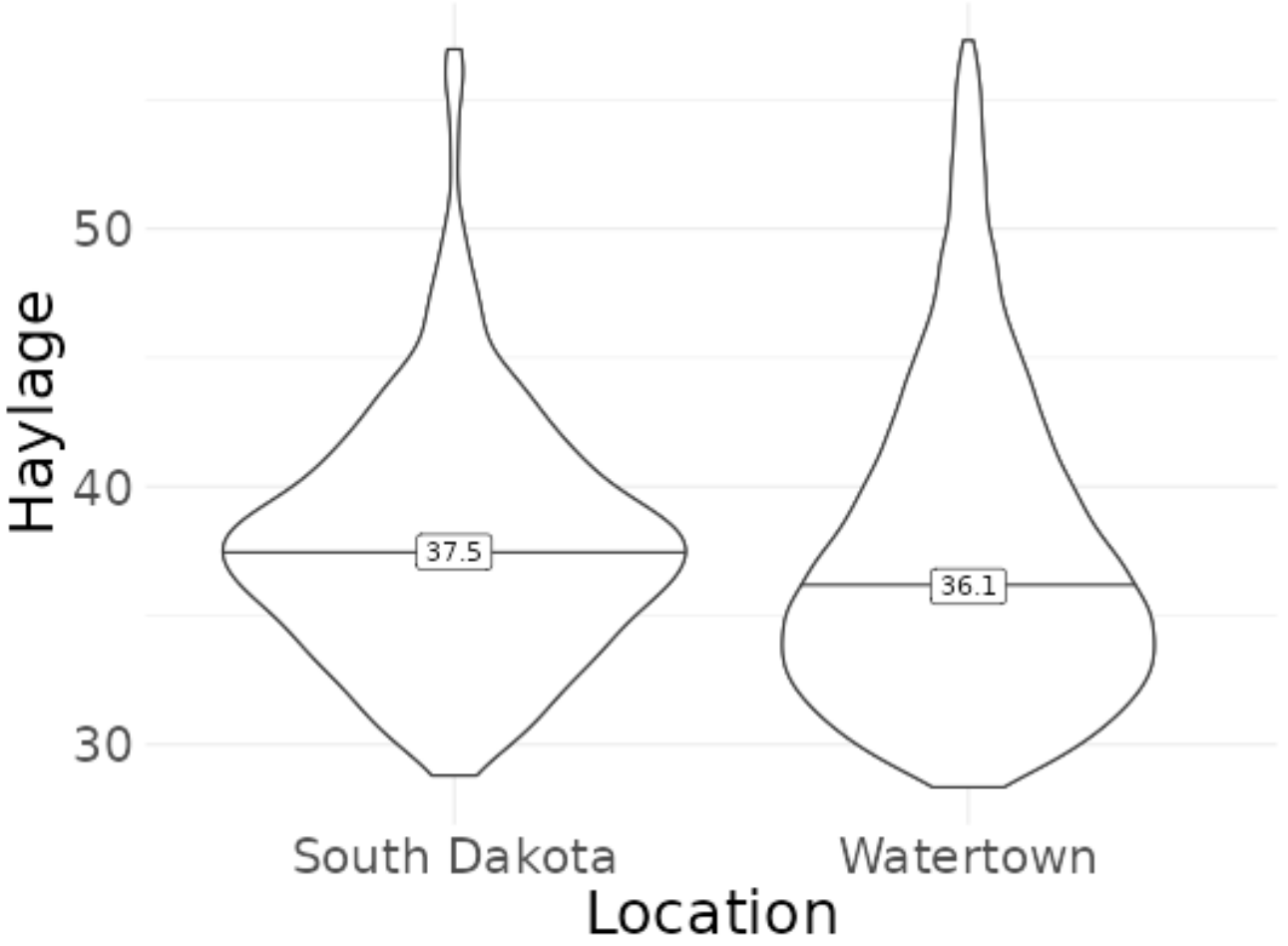
Haylage- Dry Matter



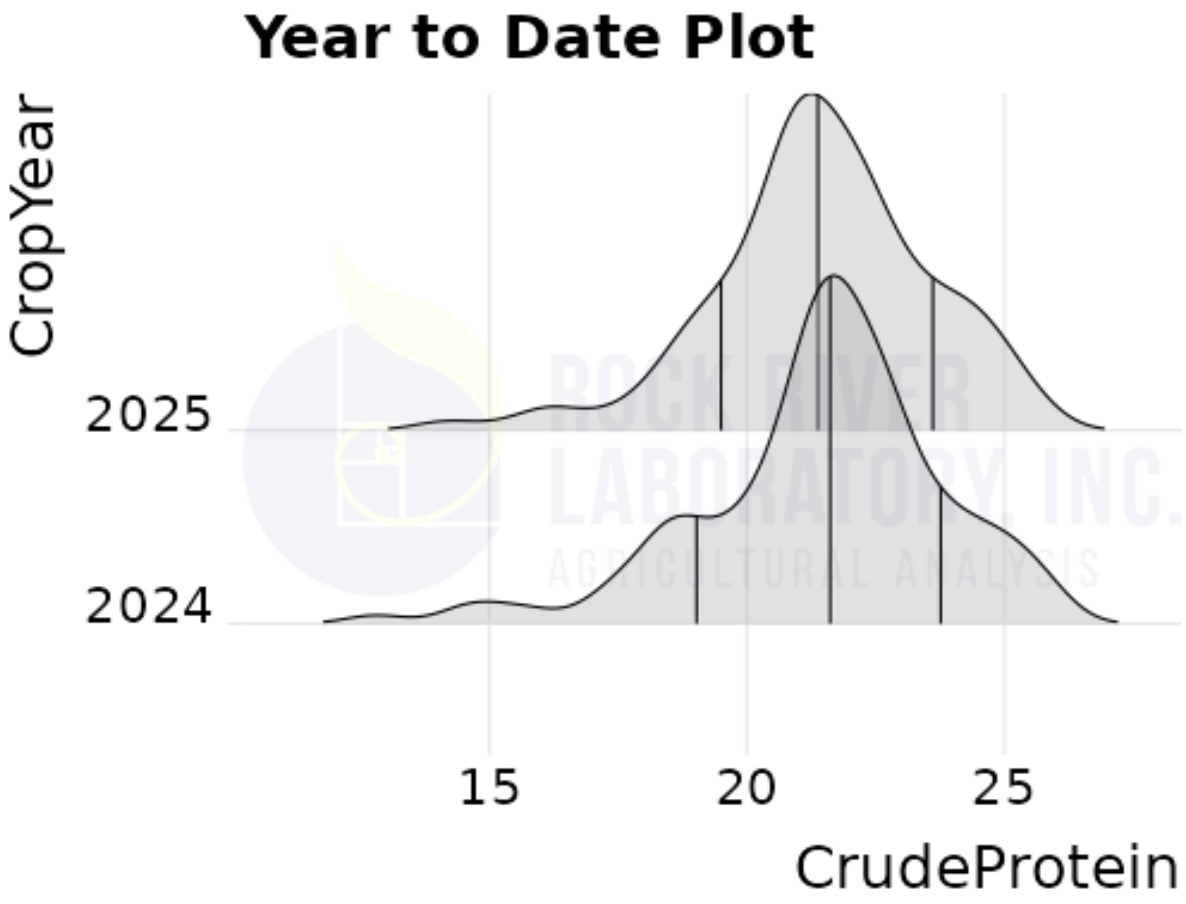


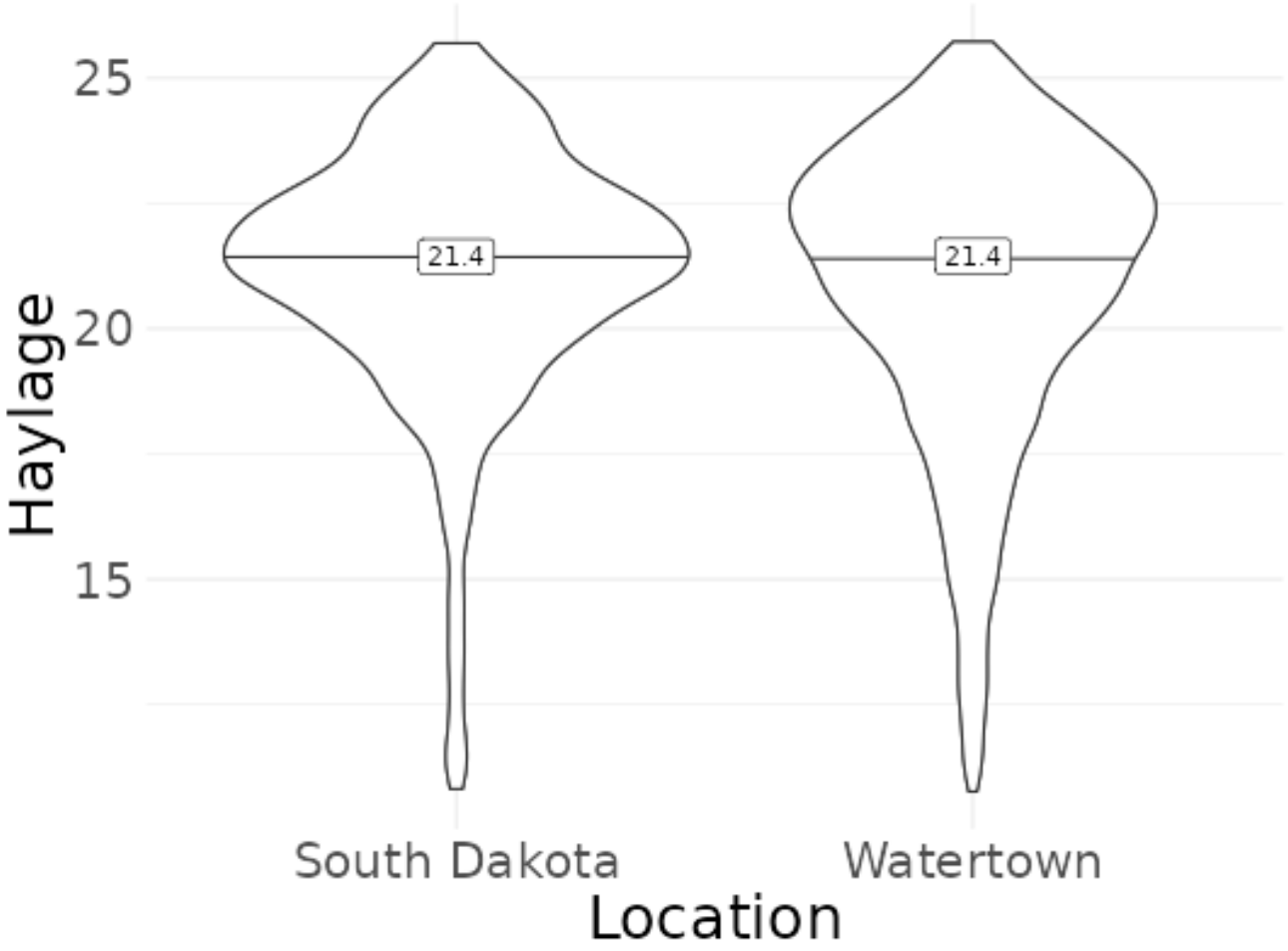
Haylage NDF


Year to Date Plot
CropYear
2025
2024
25
30
35
40
45
50
55
NDFom

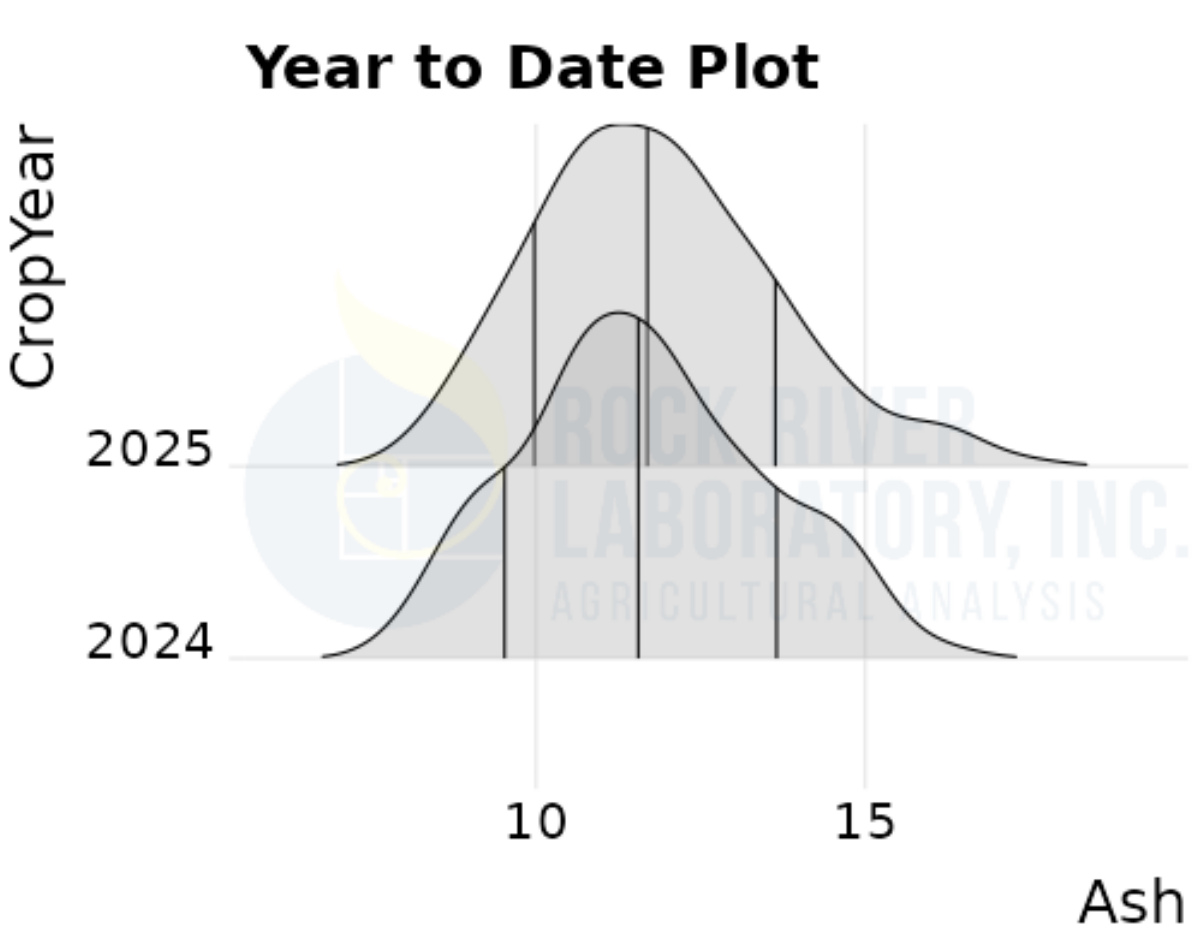

Haylage
50
40
30
37.5
36.1
South Dakota
Watertown
Location

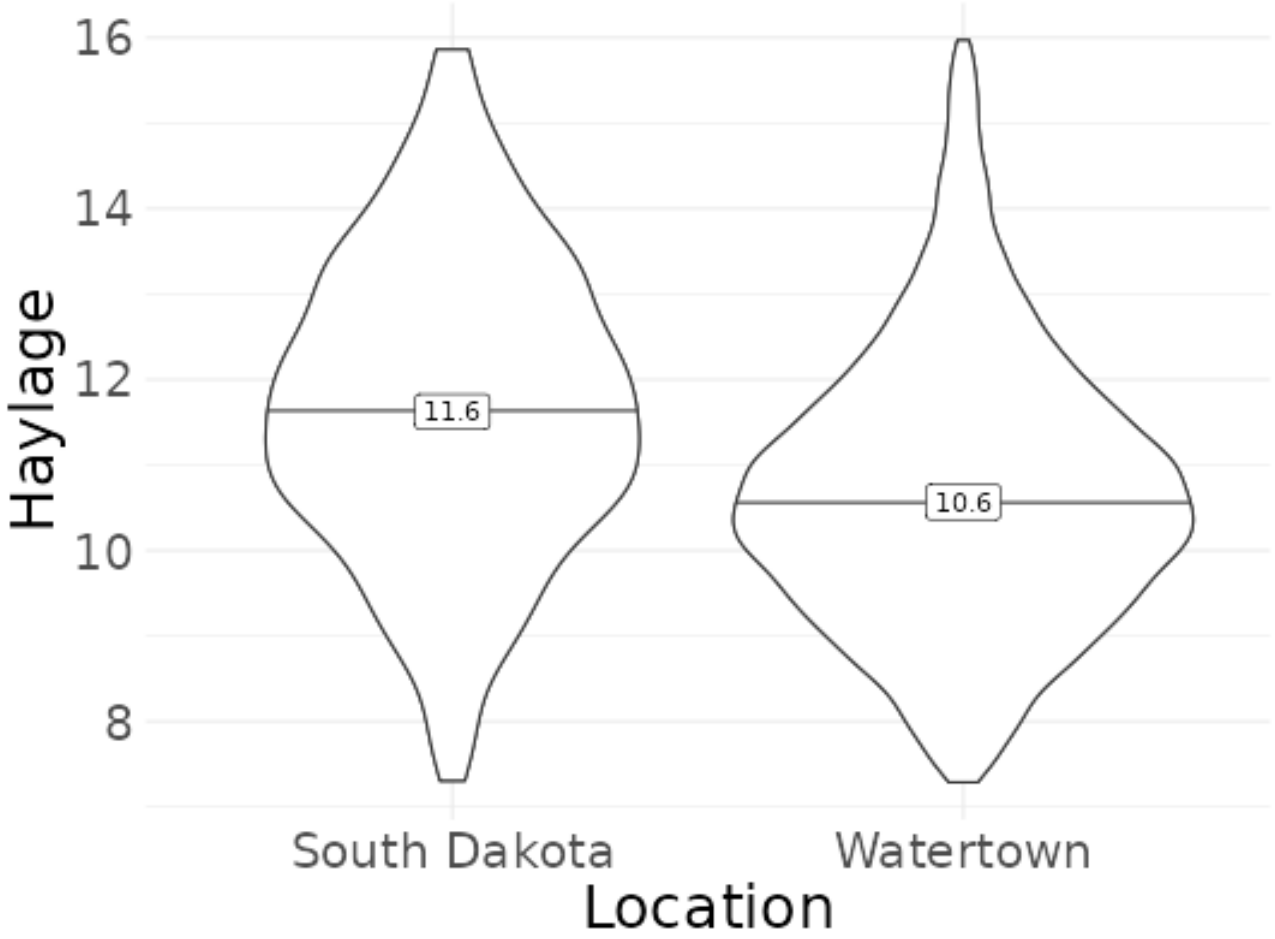
Haylage CP


Year to Date Plot
CropYear
2025
2024
15
20
25
CrudeProtein

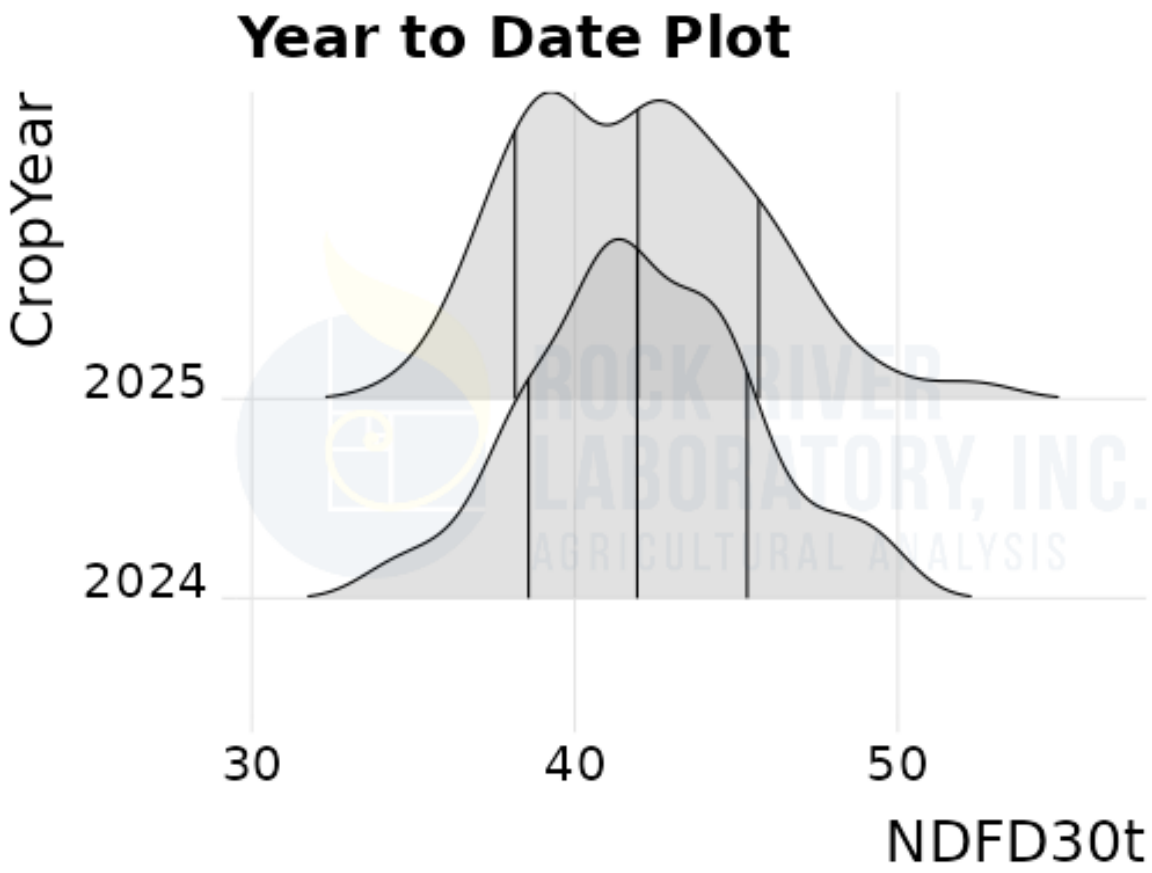

Haylage
25
20
15
21.4
21.4
South Dakota
Watertown
Location

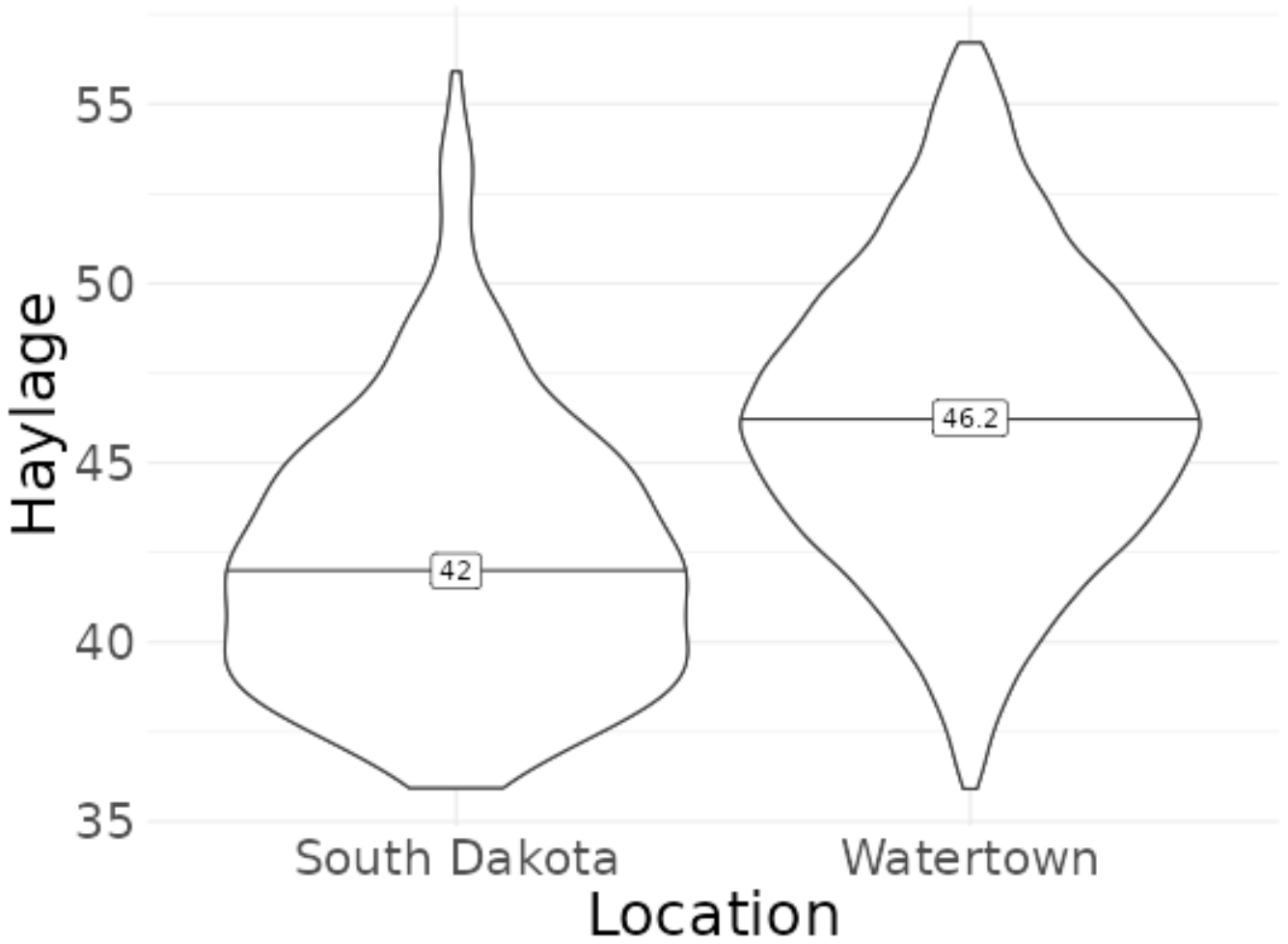
Haylage Ash


Year to Date Plot
CropYear
2025
2024
10
15
Ash

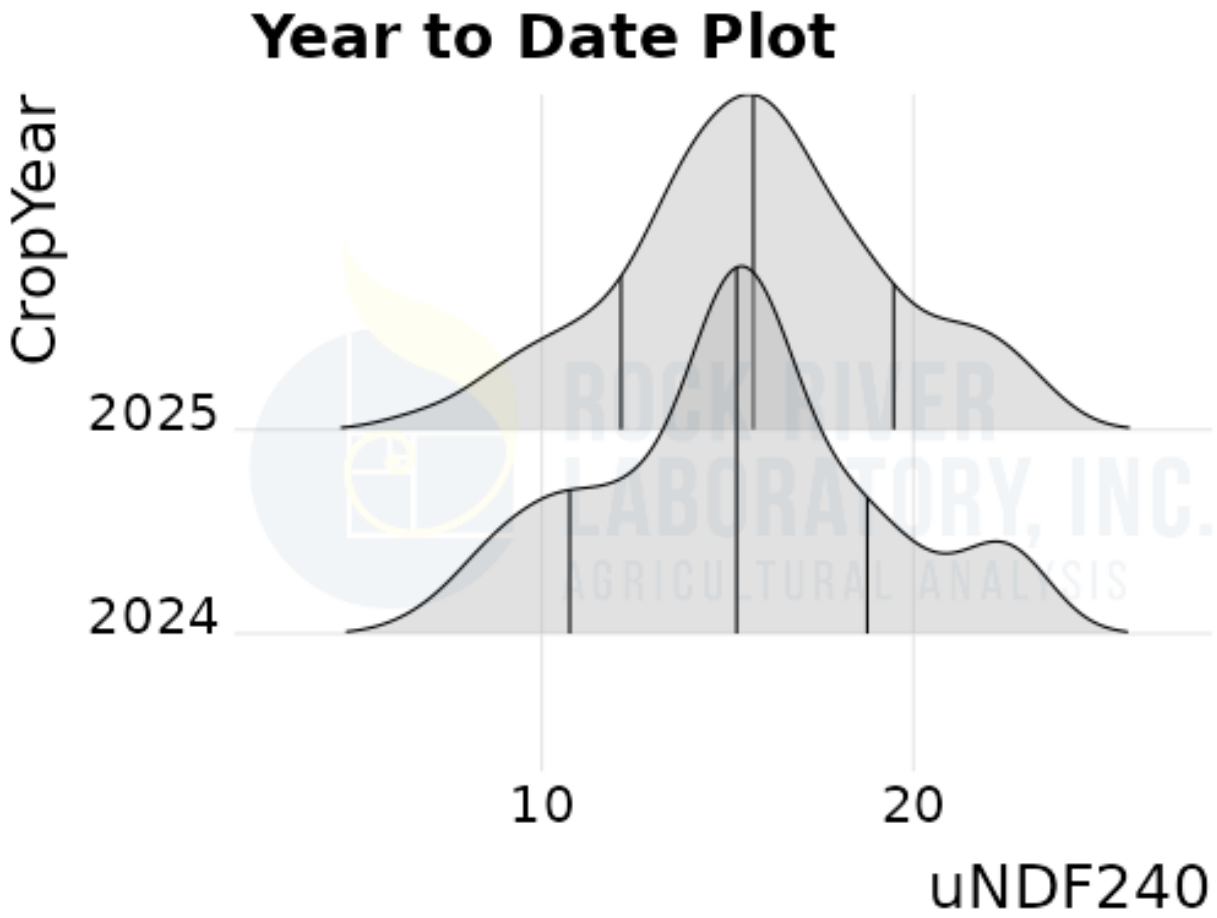

Haylage
16
14
12
10
8
11.6
10.6
South Dakota
Watertown
Location

Haylage NDFD30

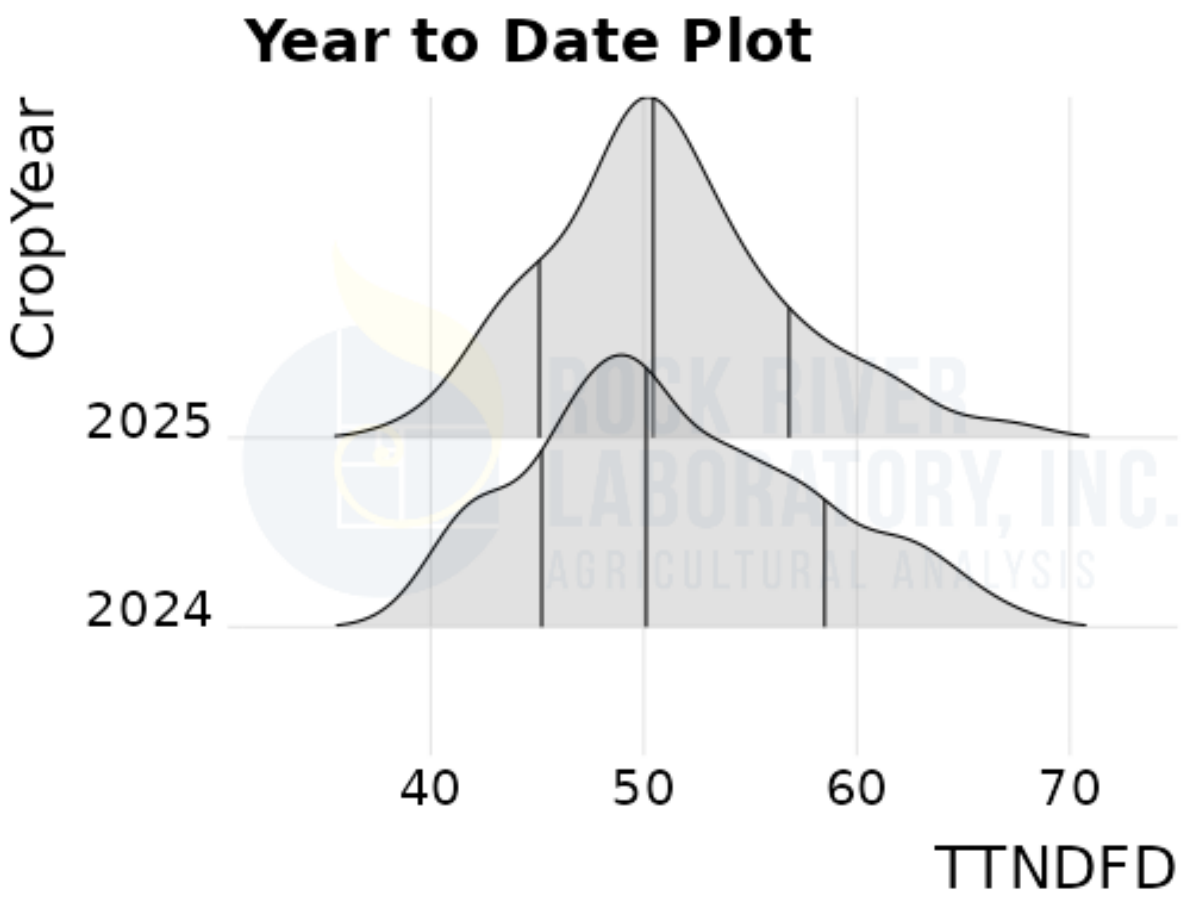


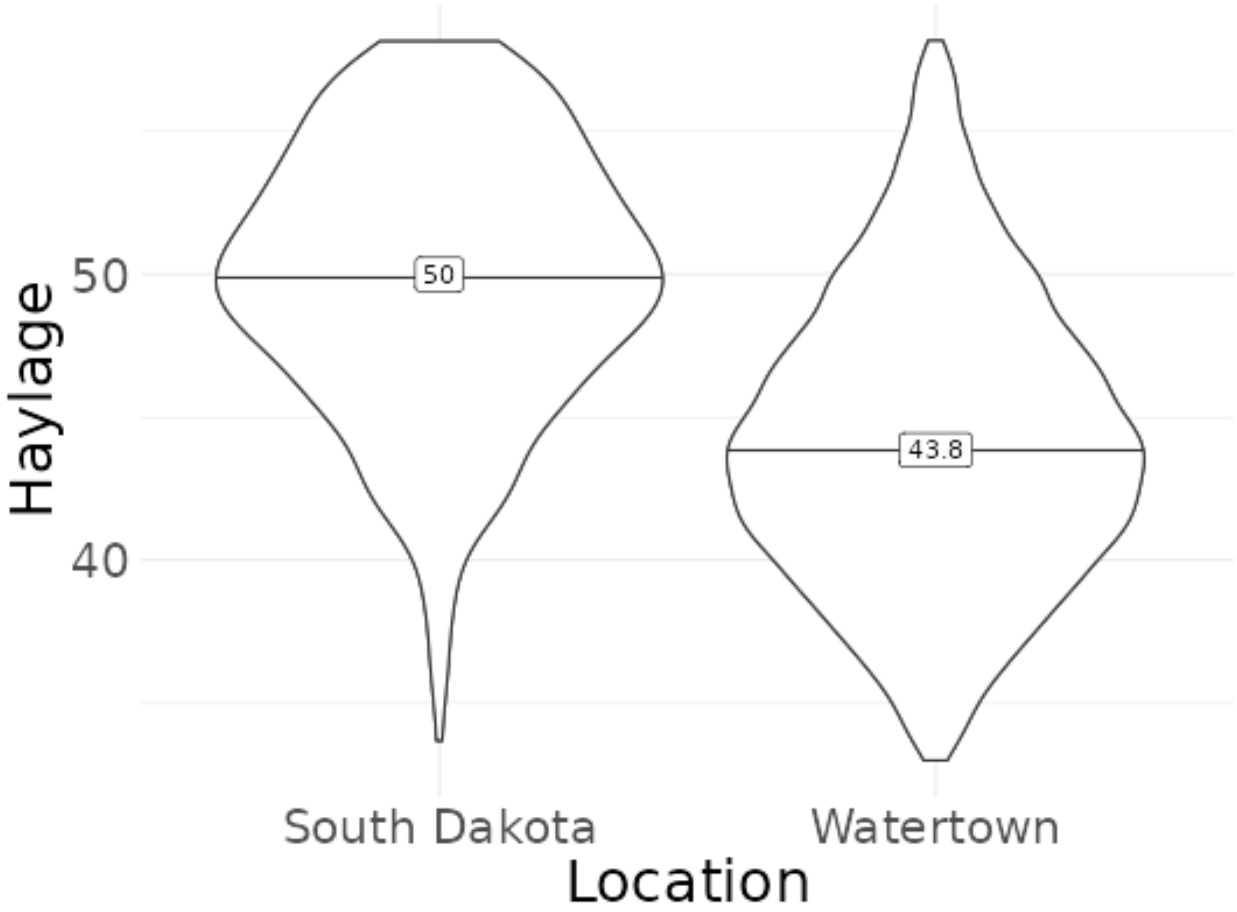


Haylage uNDF240

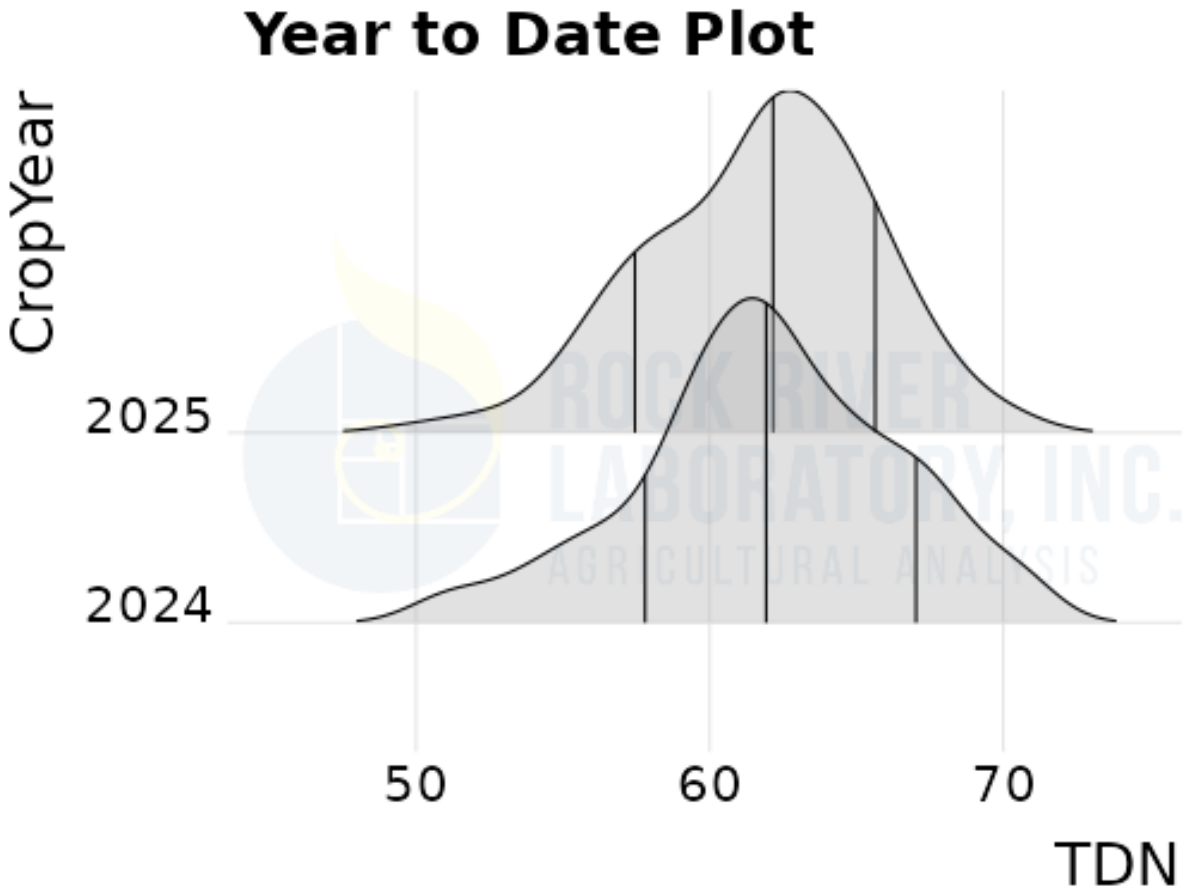


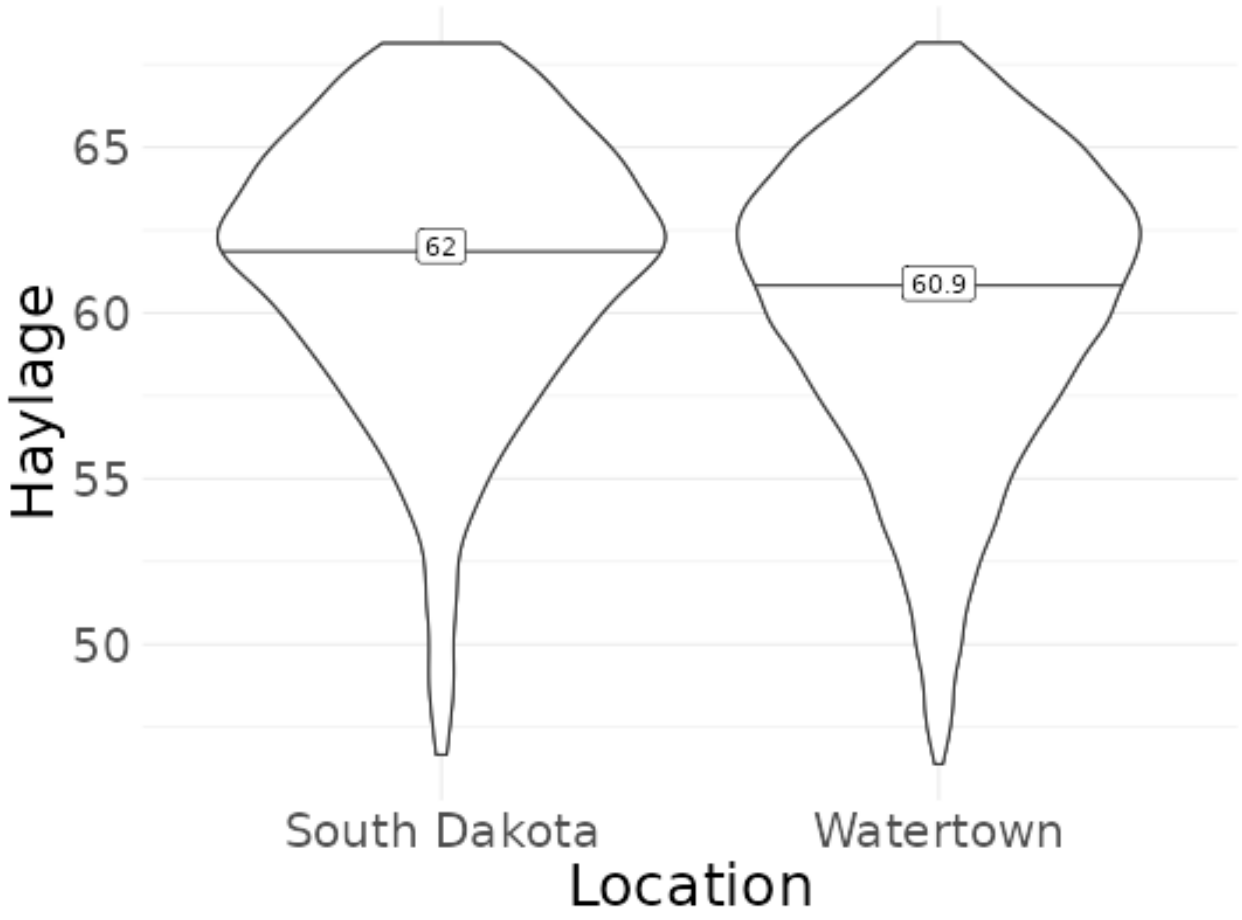
Haylage UW Total Tract NDF Digestibility





Haylage Modified TDN

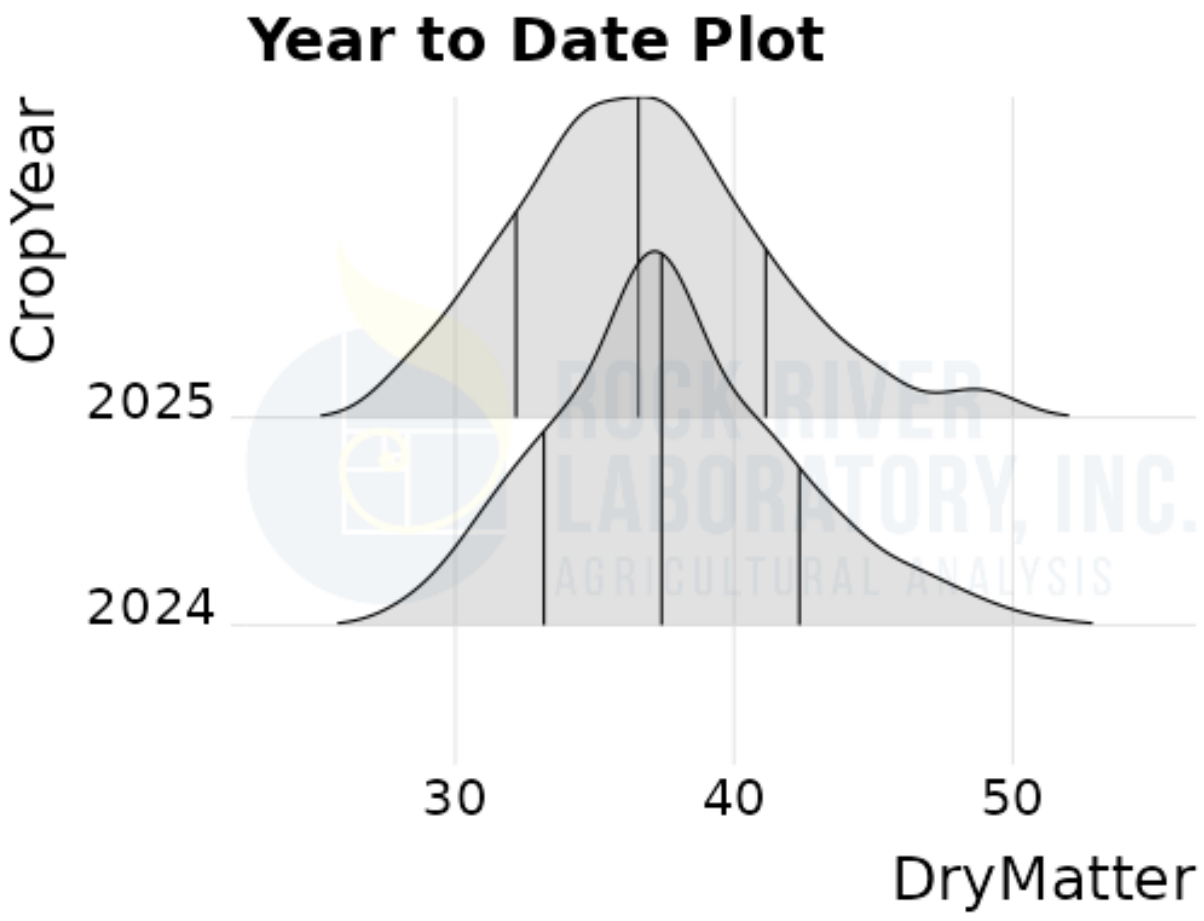


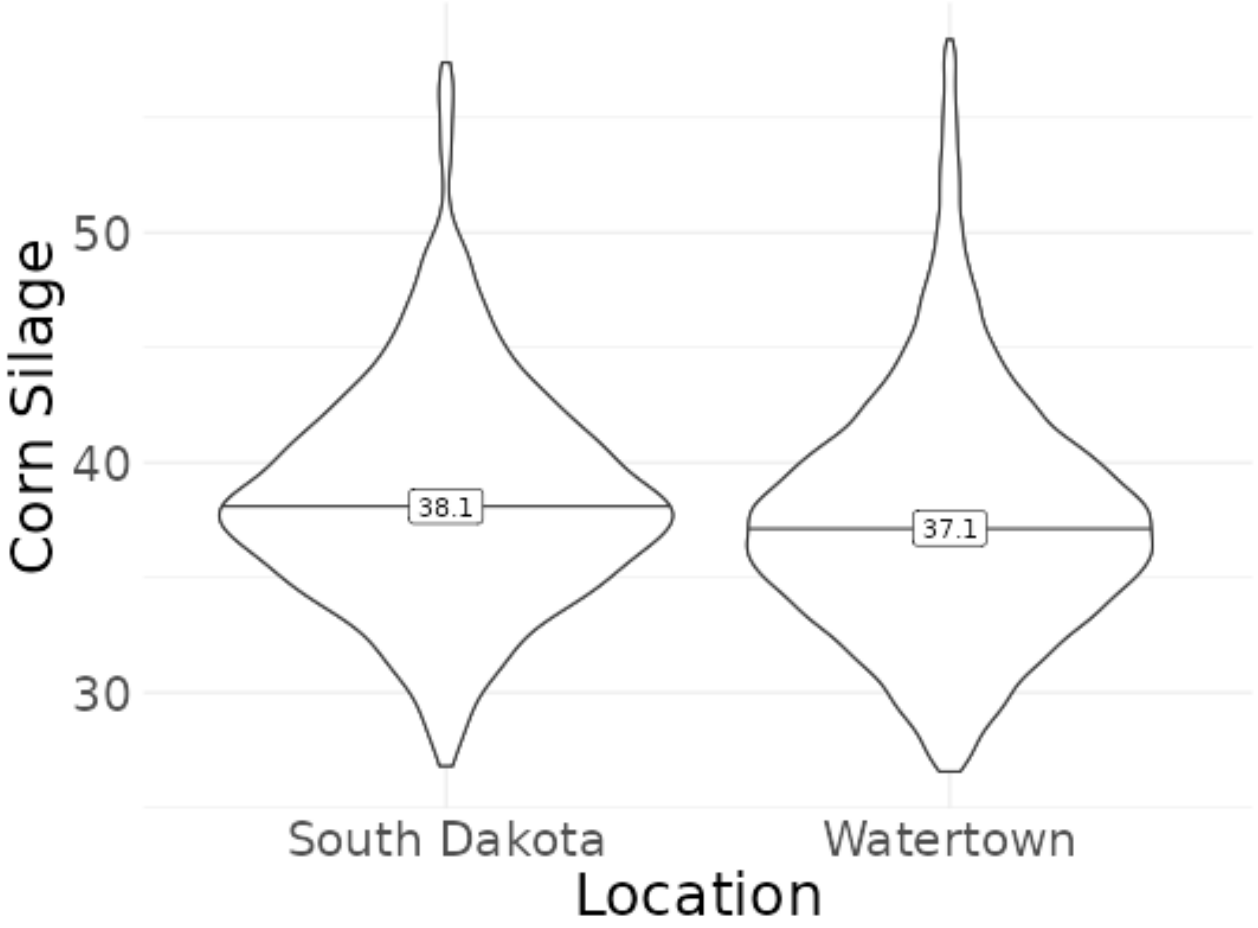


Haylage Summary

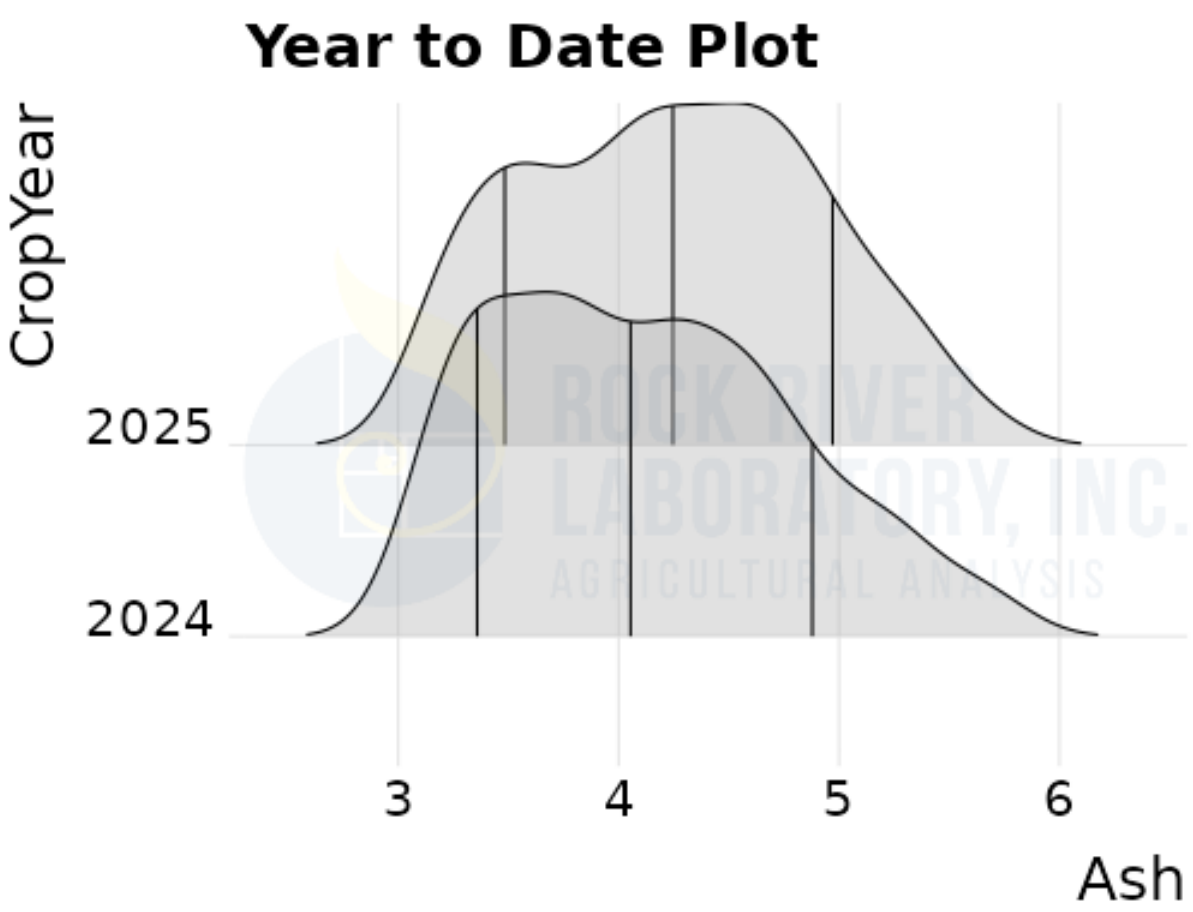
- Overall hay quality looks robust
- Slightly higher NDFom & lower protein
- However, TTNDFD was quite high
  - Although there is more fiber there it should be quite digestible
- TDN up slightly from last year and higher than average Midwest haylage

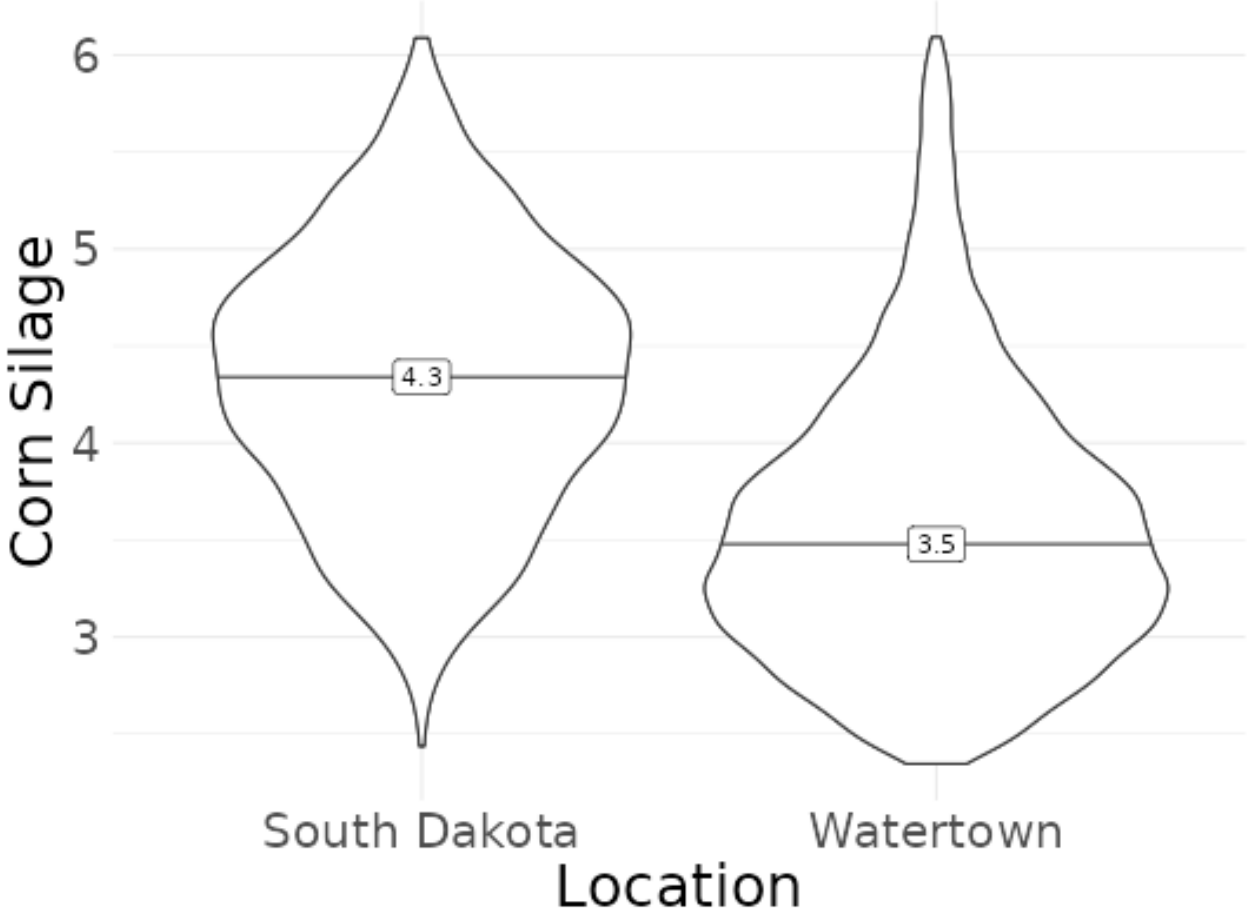
Corn Silage- DM



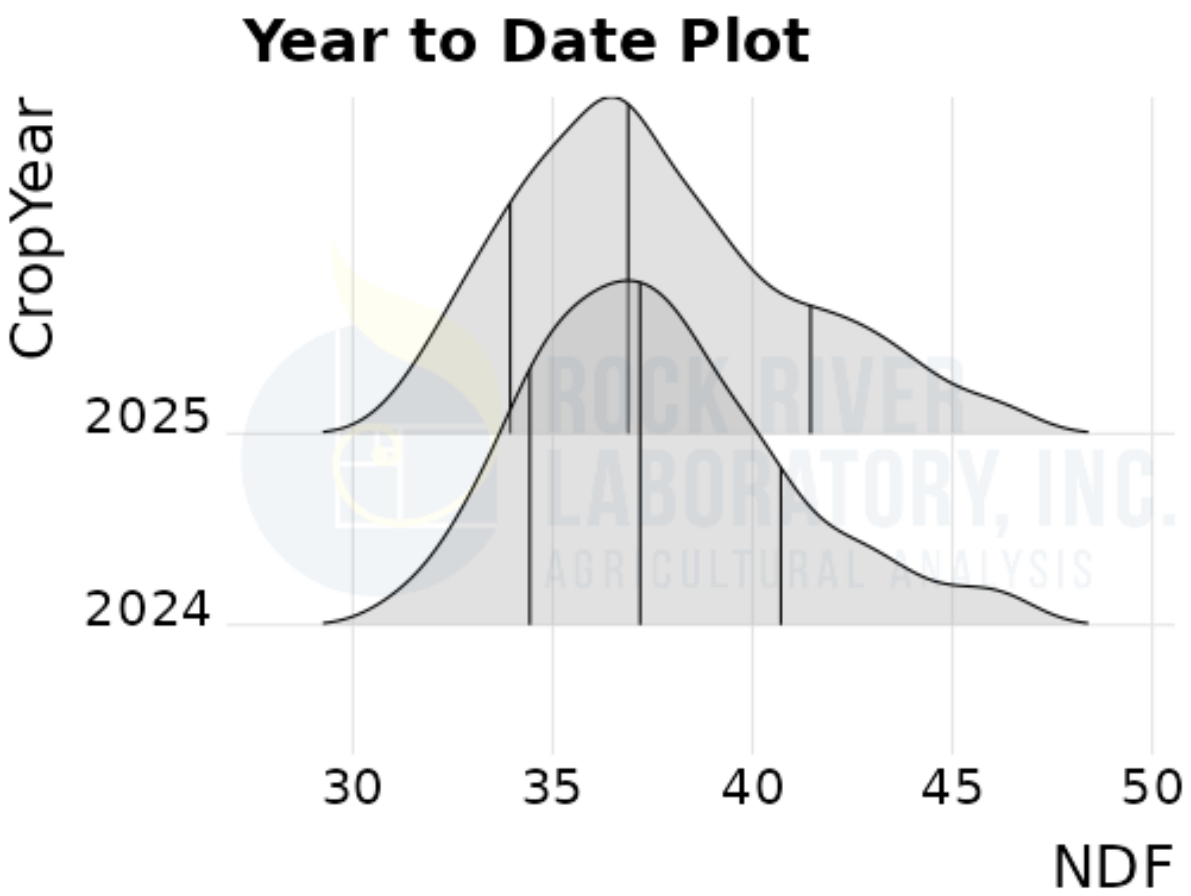


Corn Silage-Ash

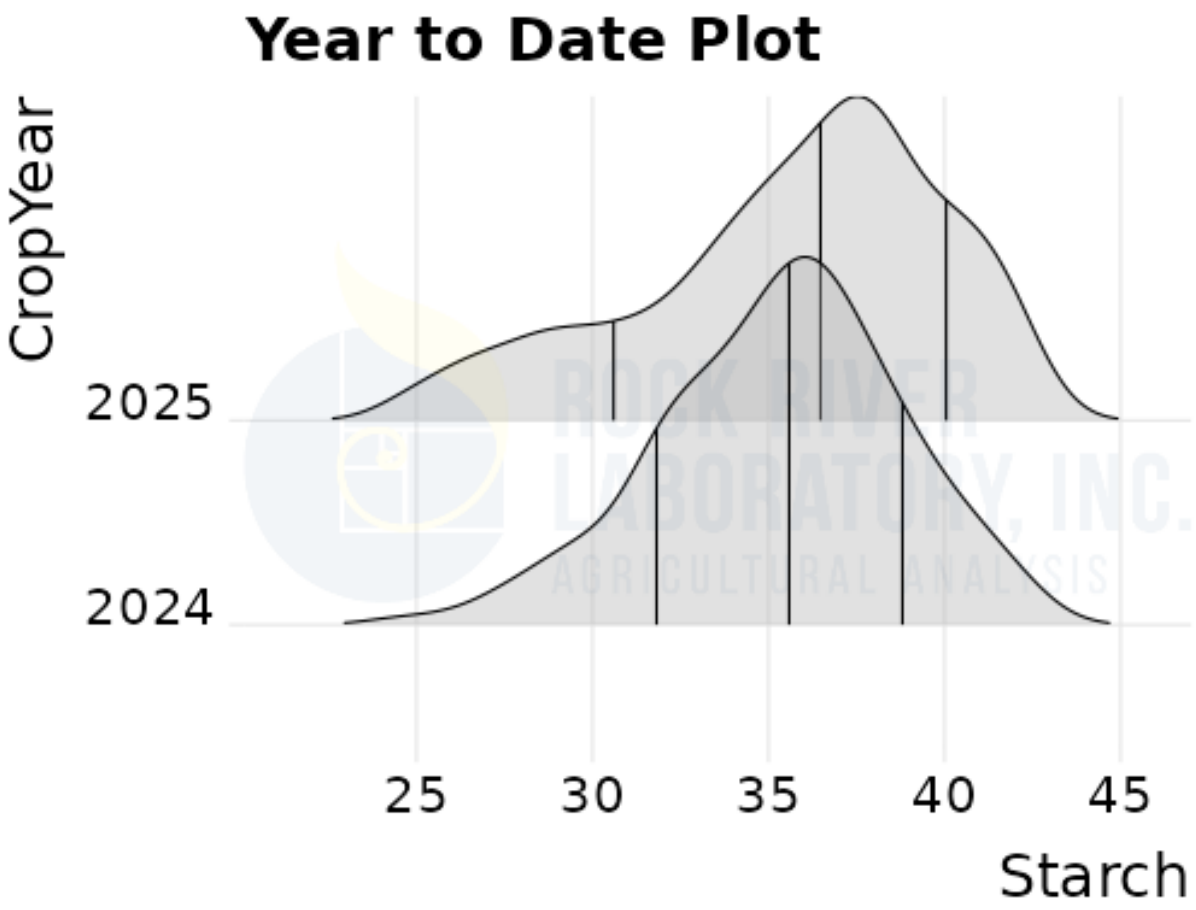


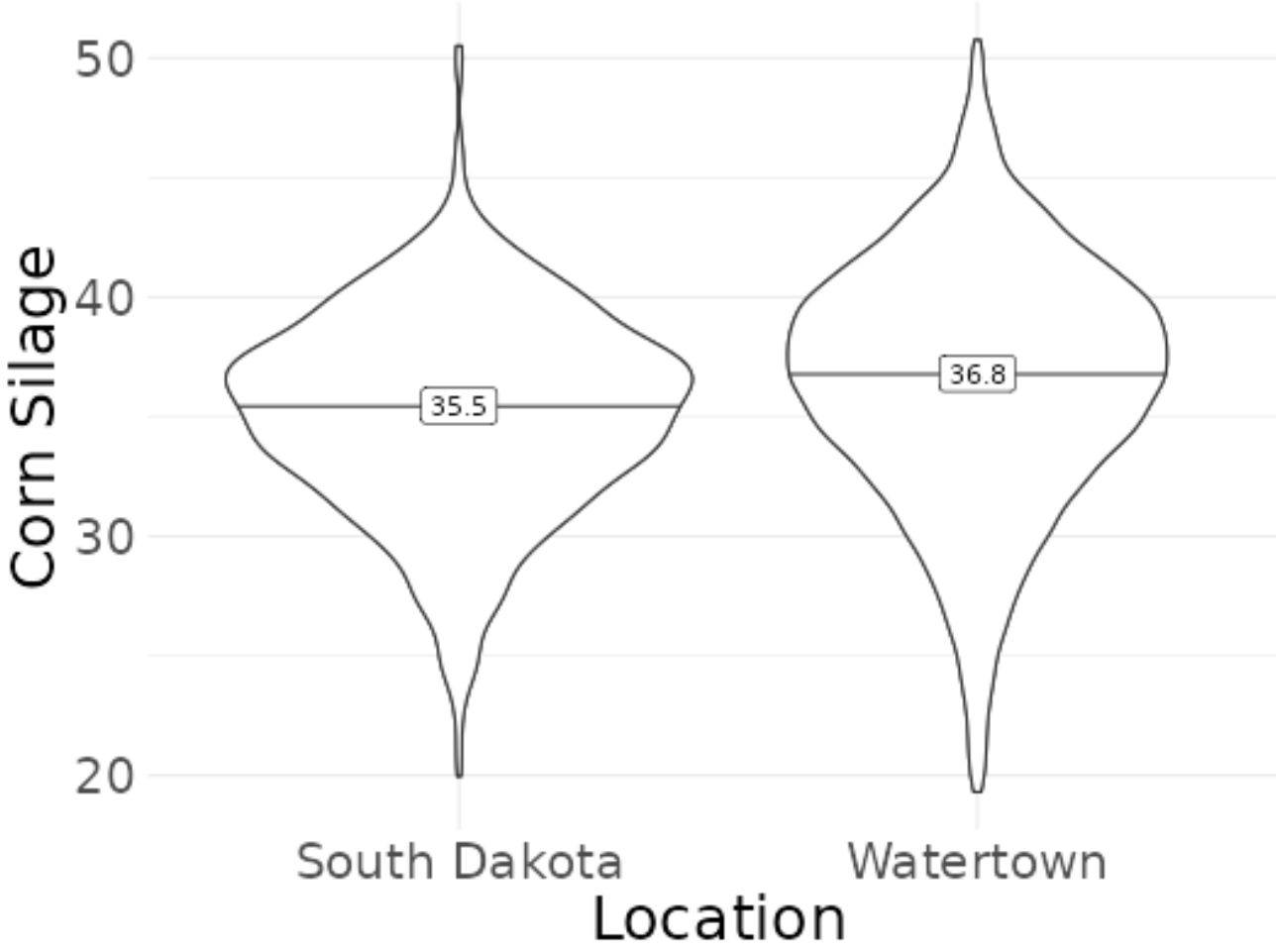


Corn Silage-NDF

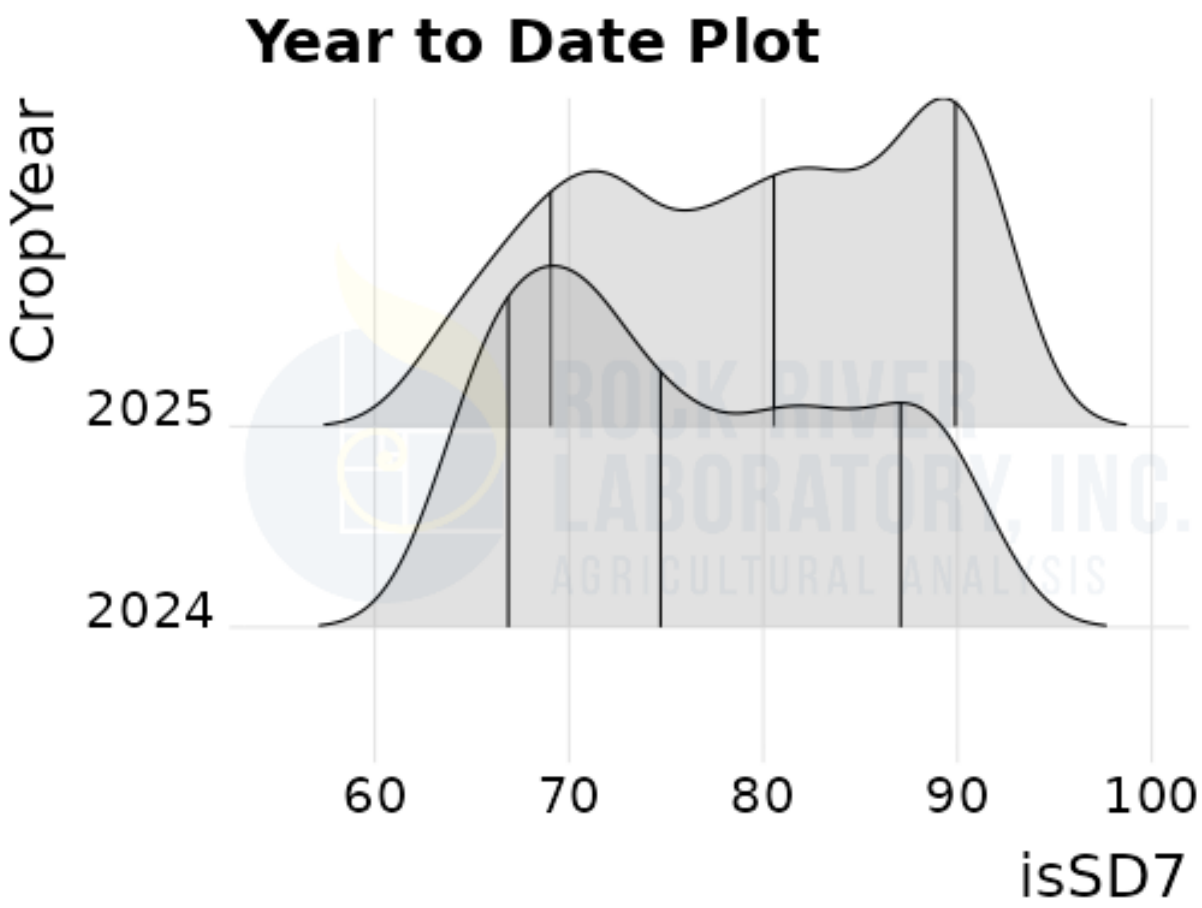


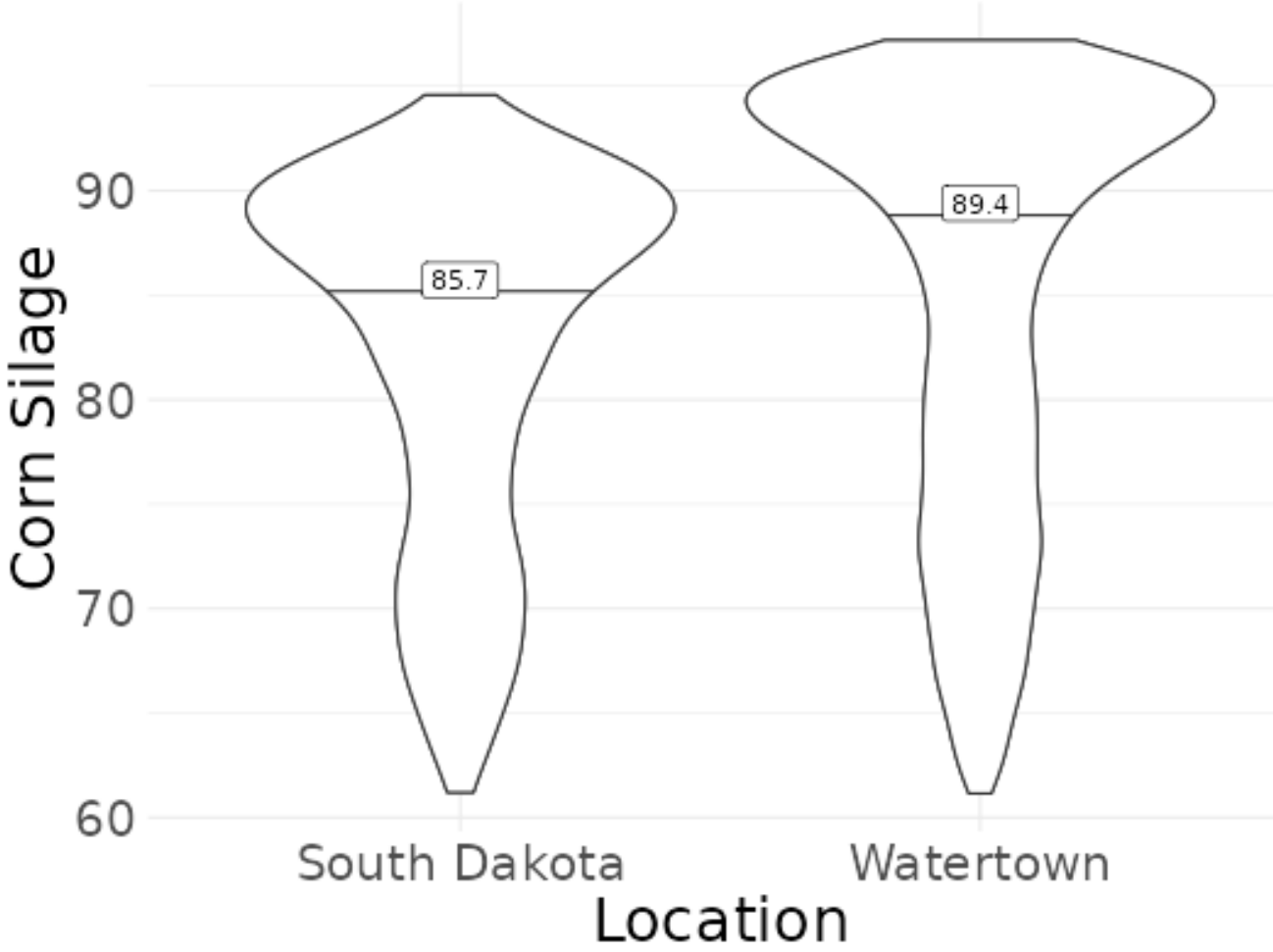
Corn Silage-Starch



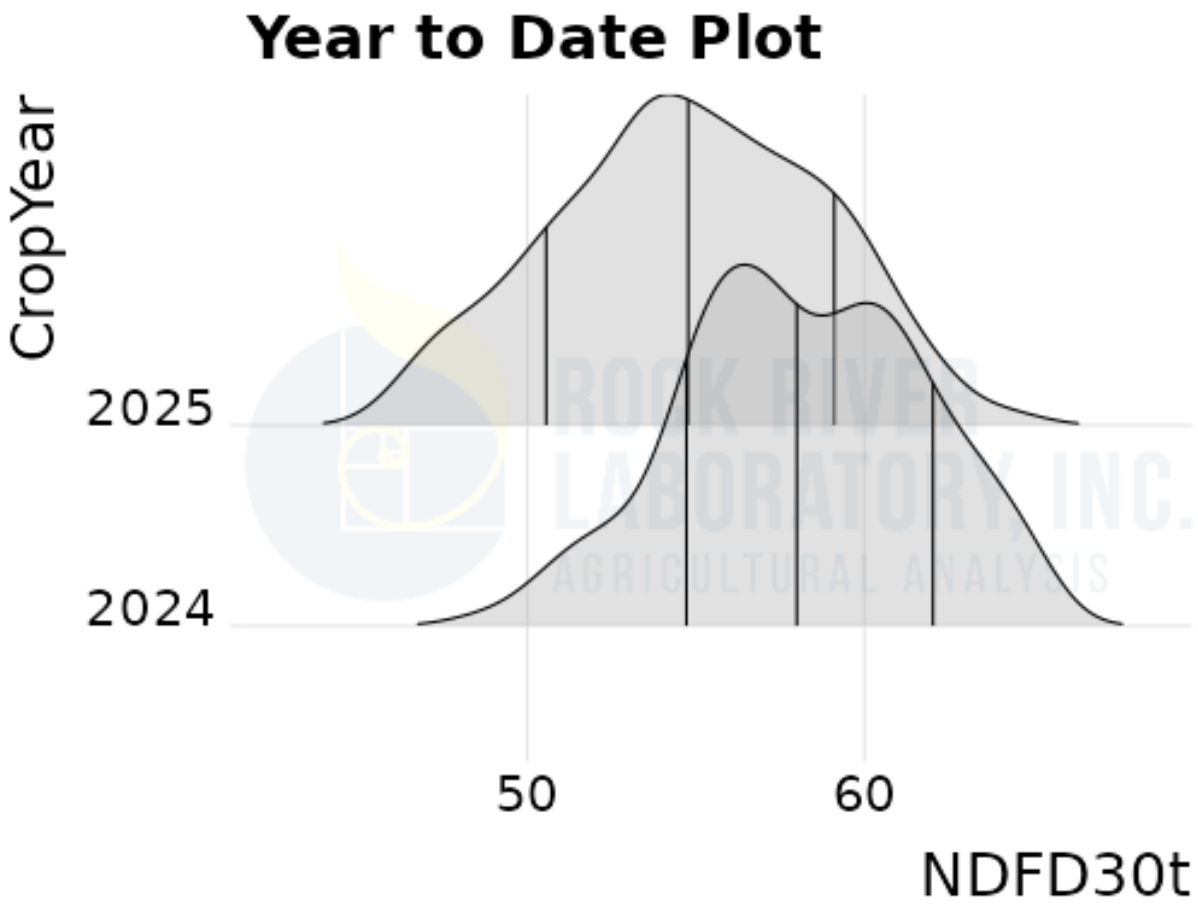


Corn Silage -isSD7

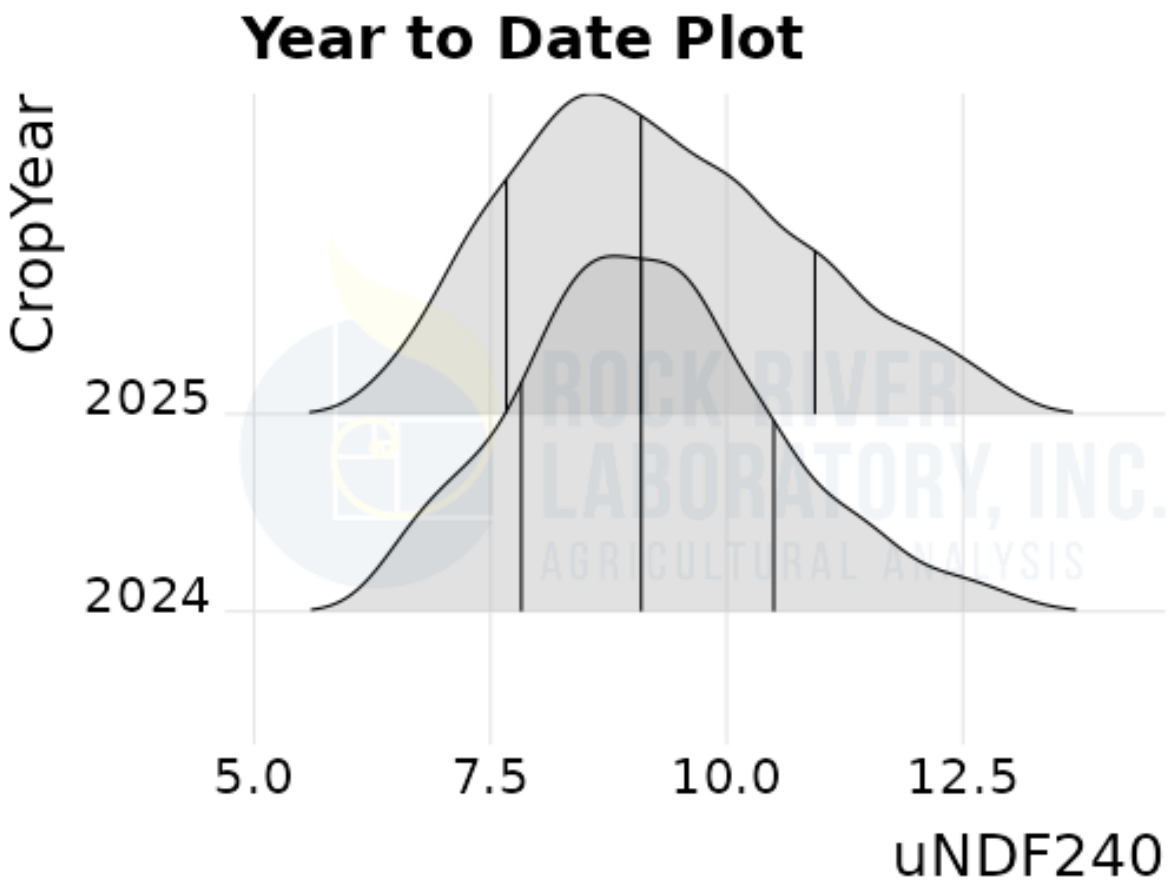


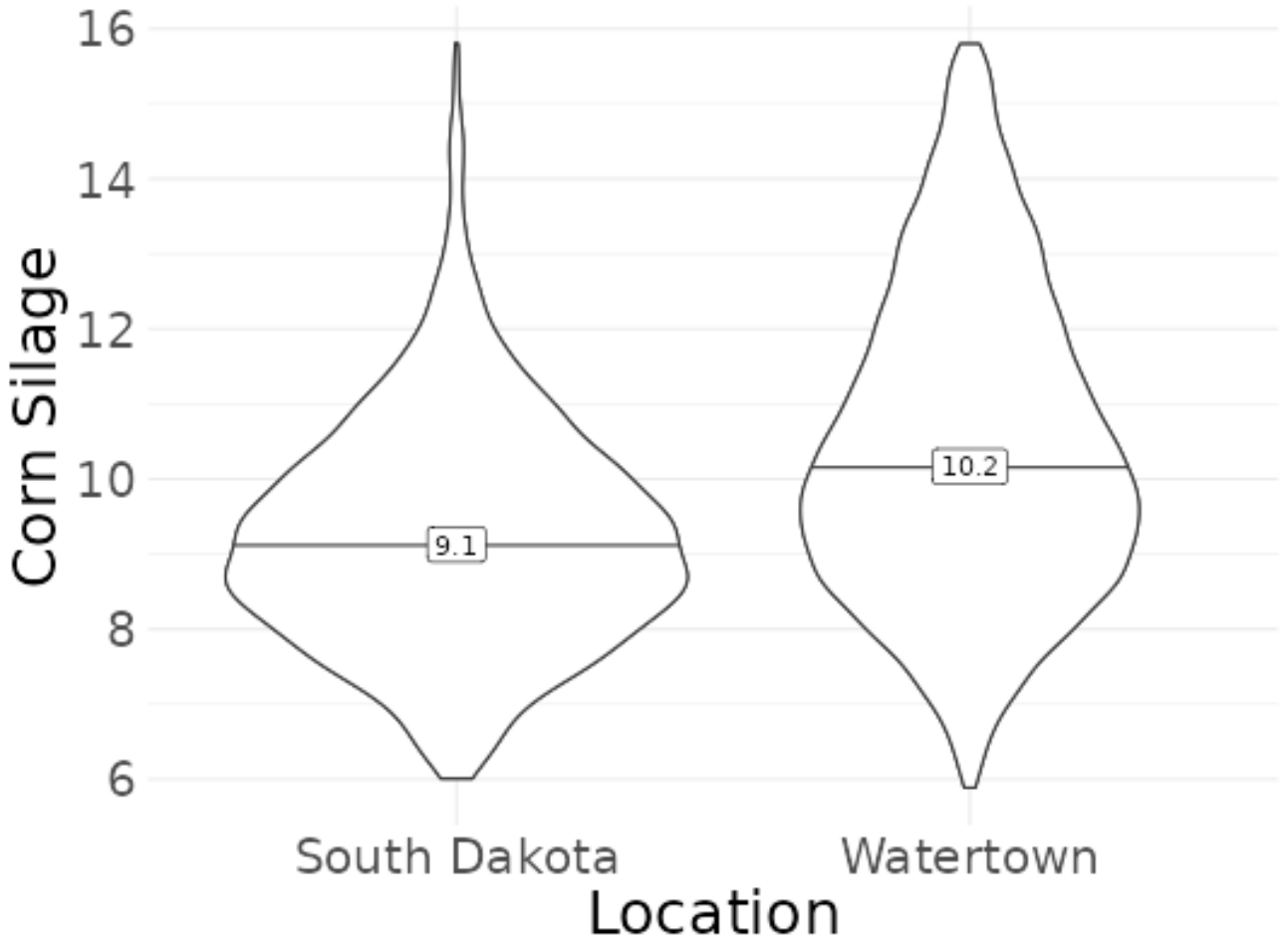


Corn Silage-NDFD 30

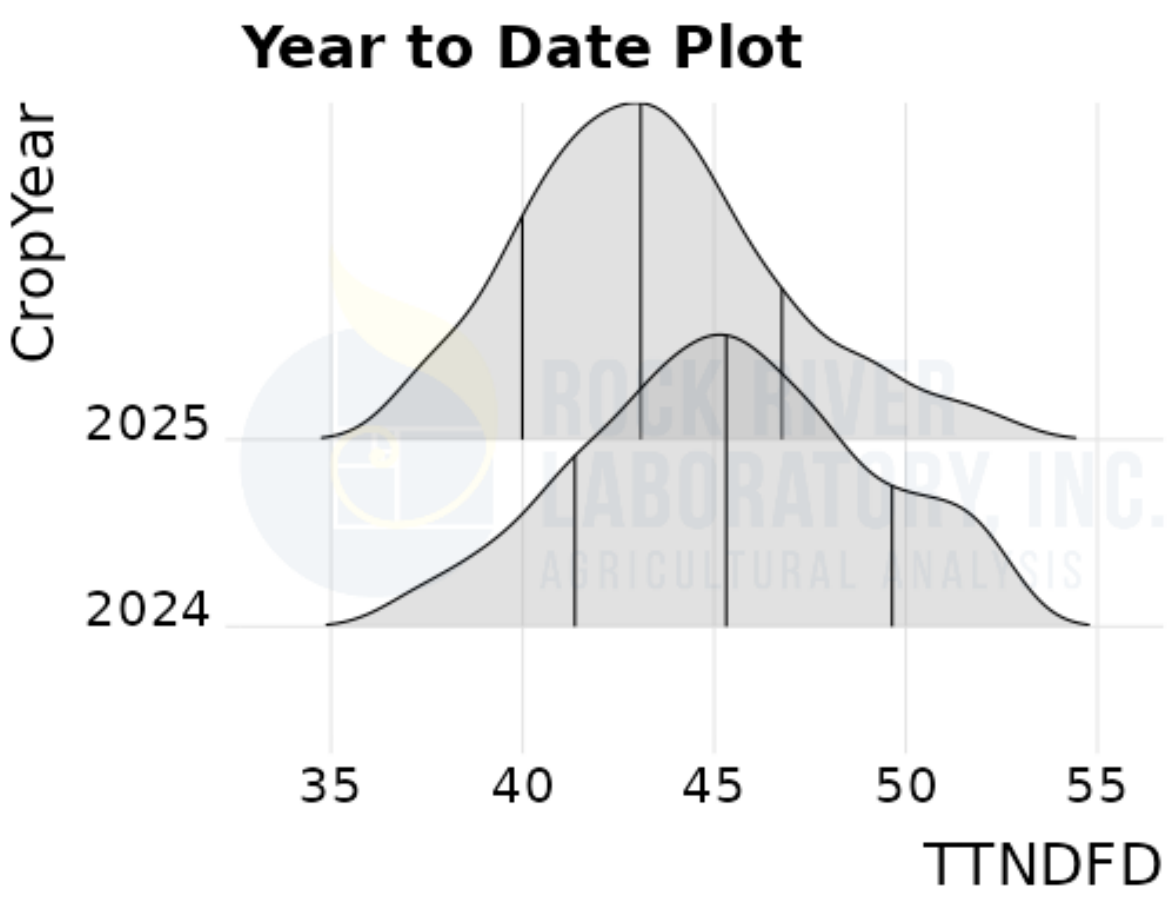


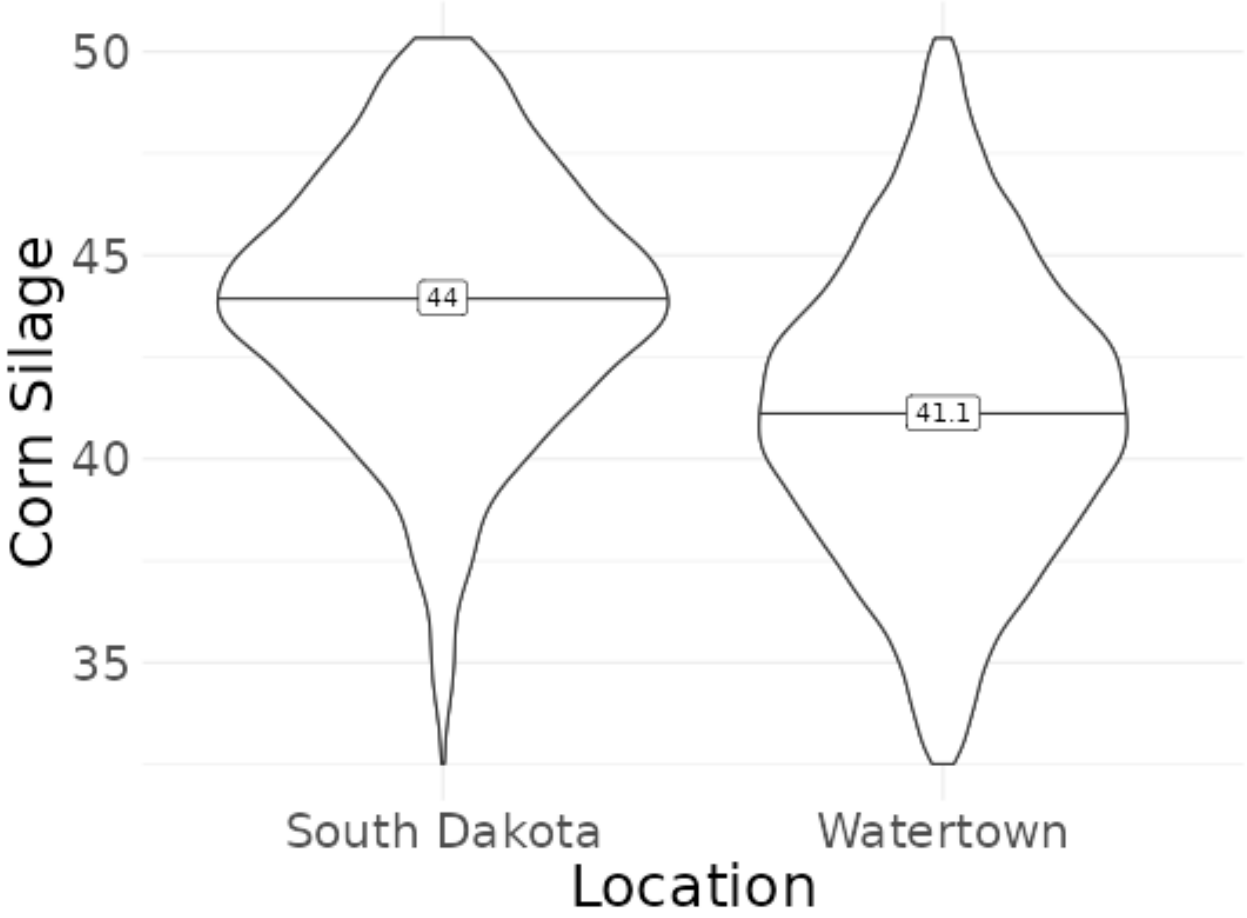
Corn Silage-uNDF240



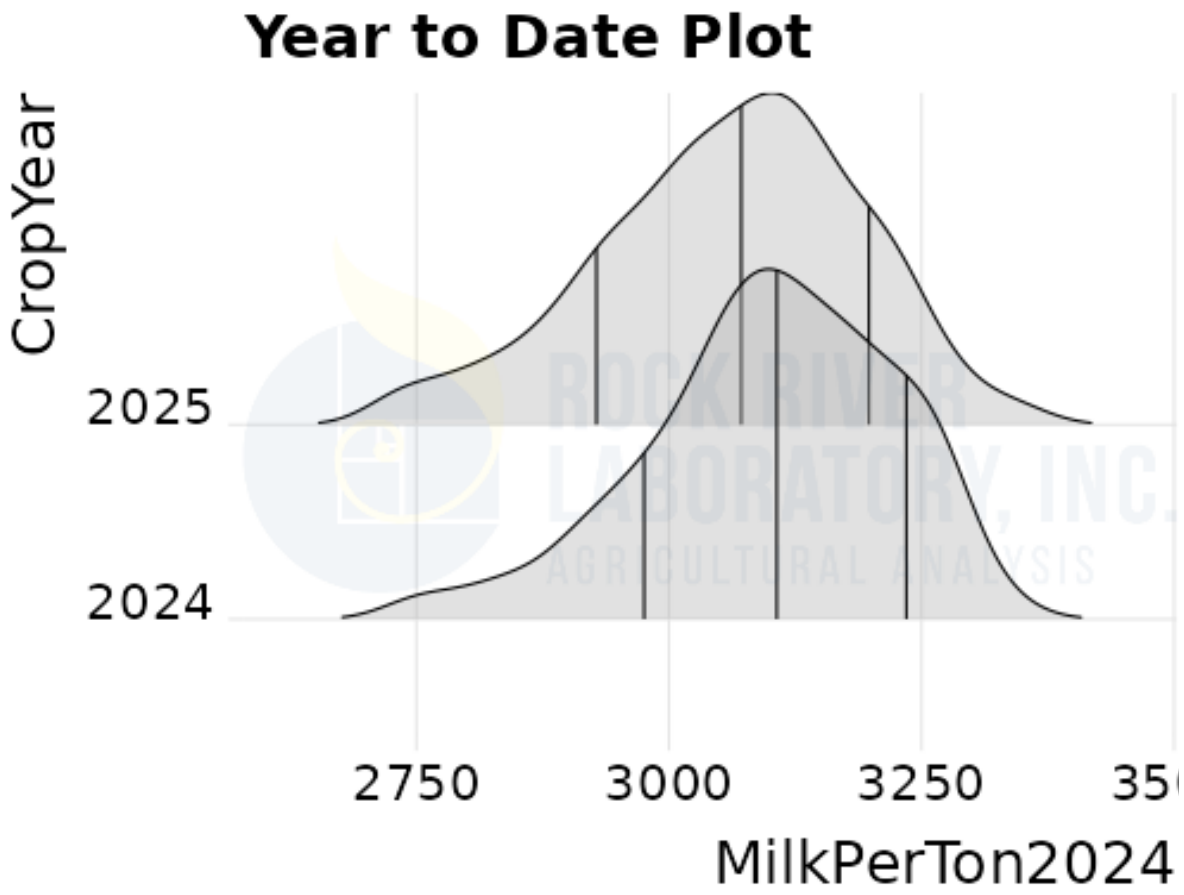


Corn Silage-TTNDFD





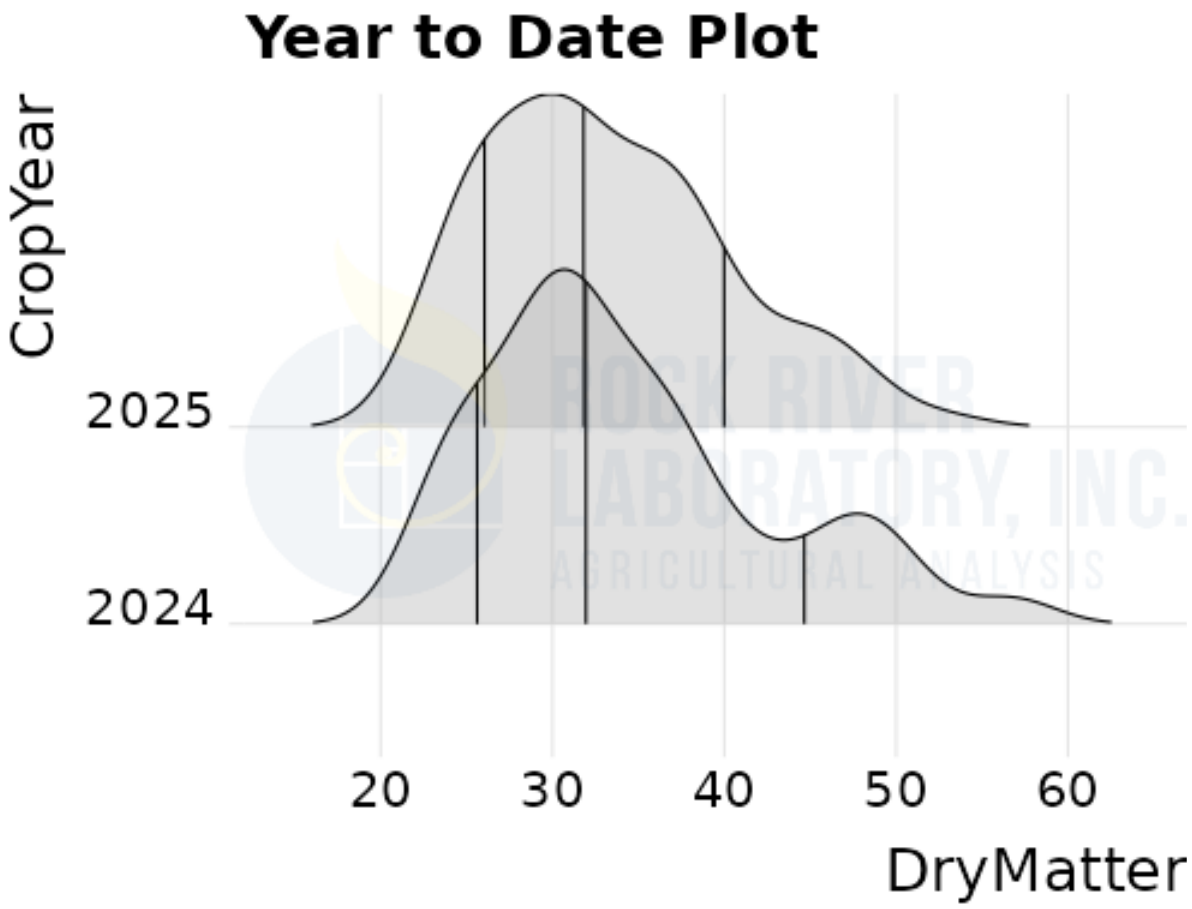
Corn Silage-Milk per Ton

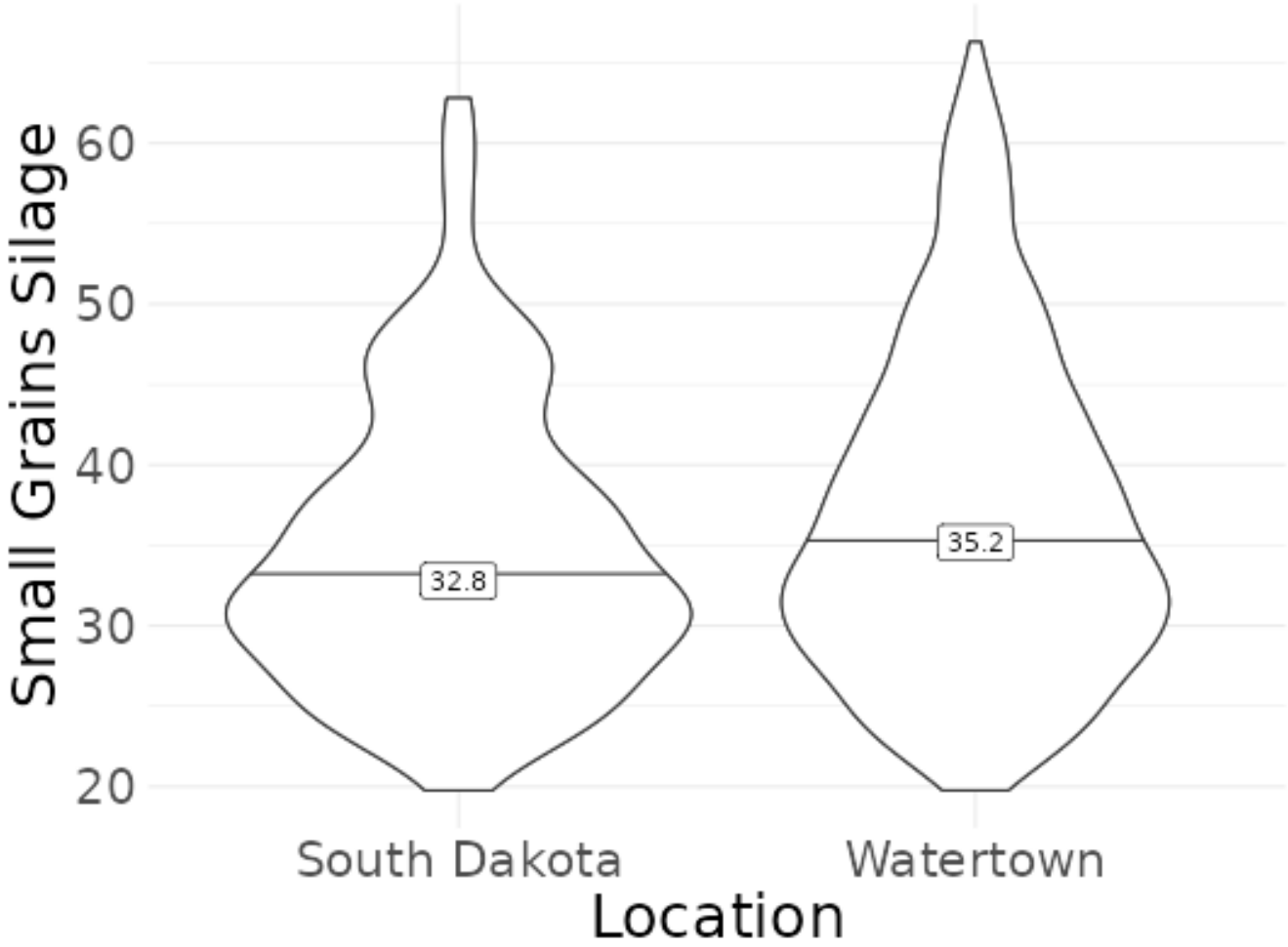


Corn Silage Summary

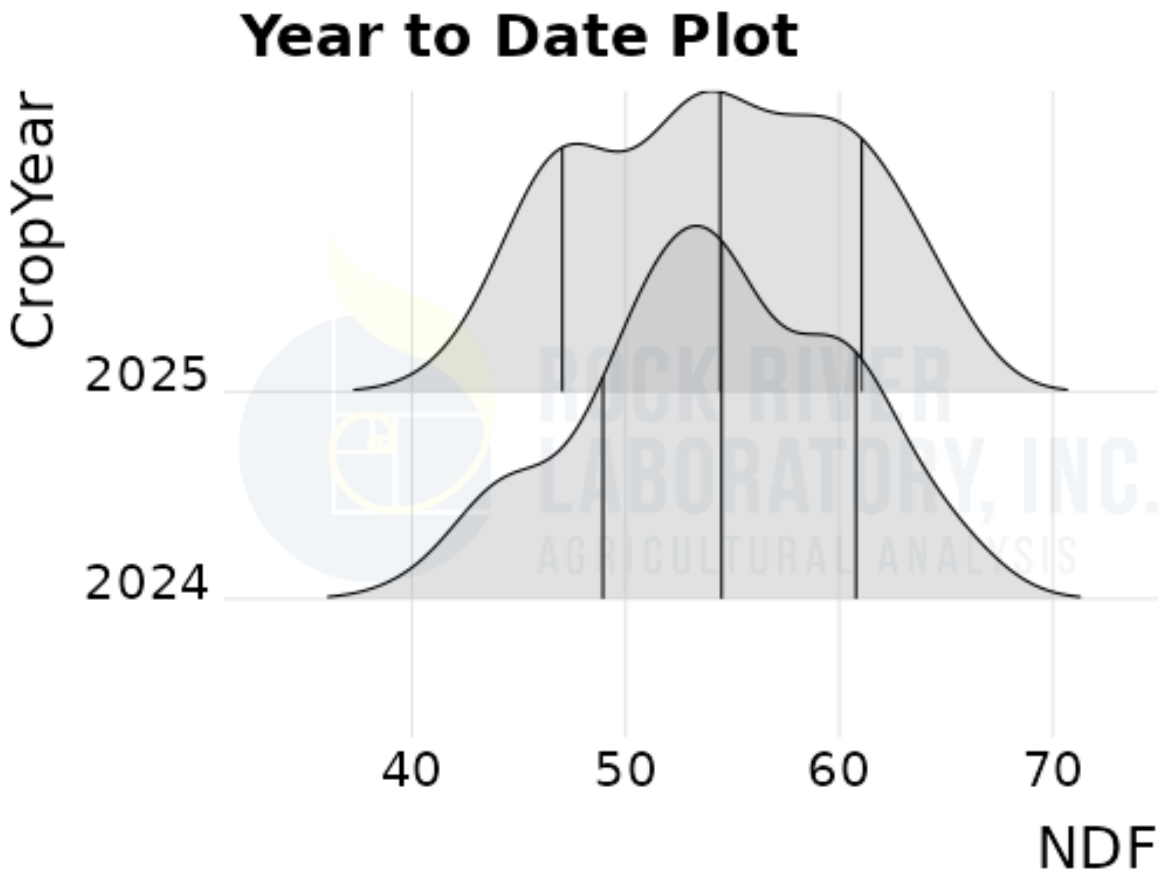
- Reduction in drought conditions may have helped overall starch accumulation
  - Starch digestibility is ahead of where we were in 2024
- However, fiber digestibility is likely off slightly due to hot, humid conditions
  - Some may be due to fungal/pest pressure
- Overall impact- Milk 2024 predictions down slightly compared to 2024 and compared to average MW silage

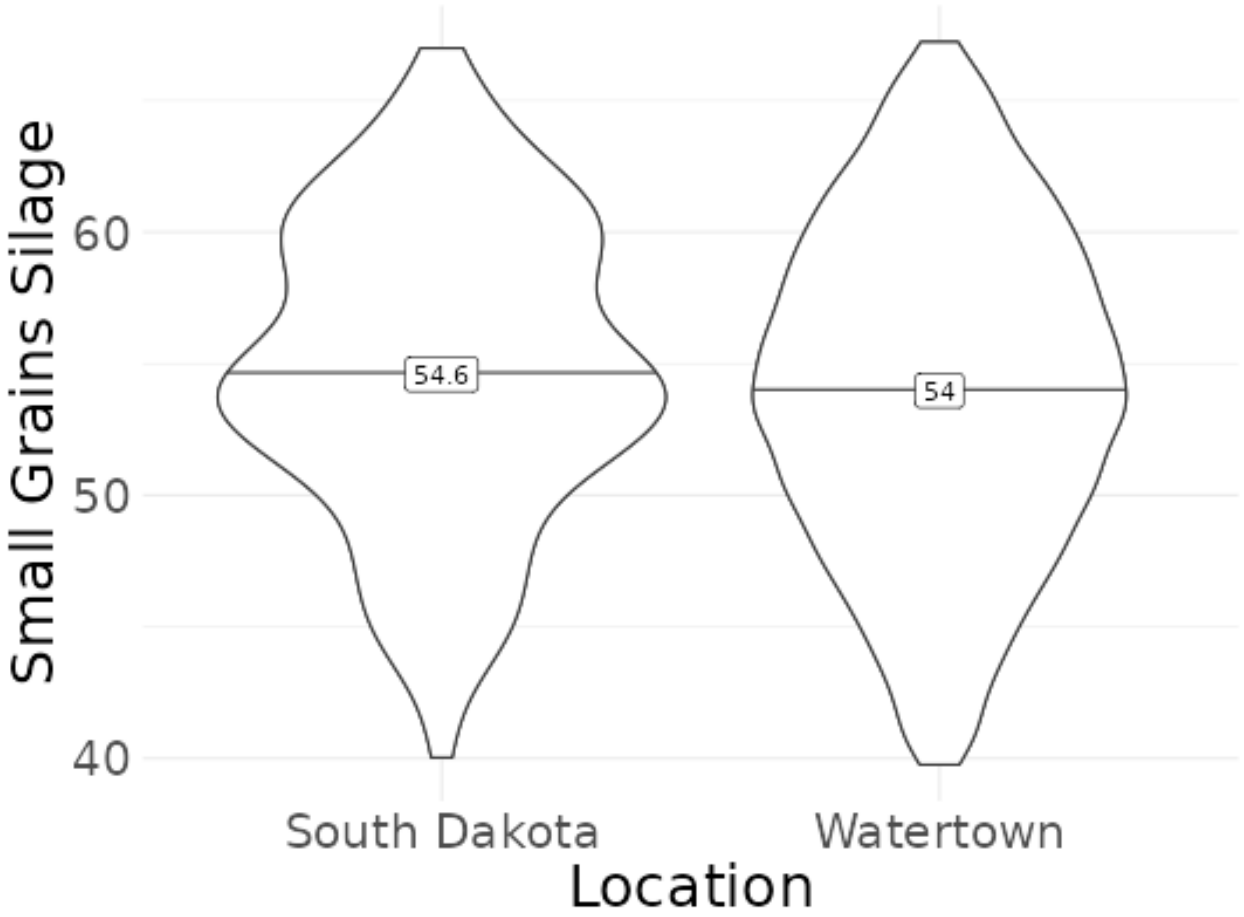
Small Grains Silage- Dry Matter



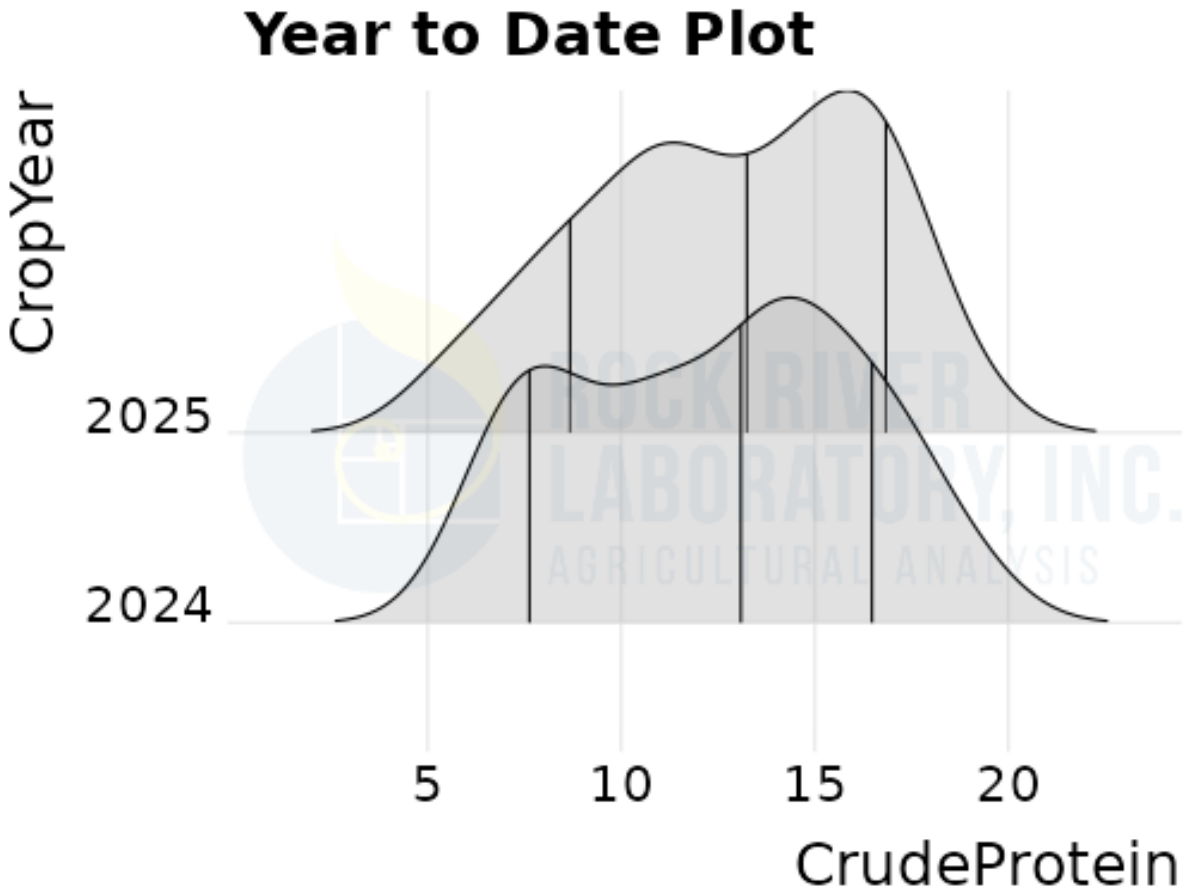


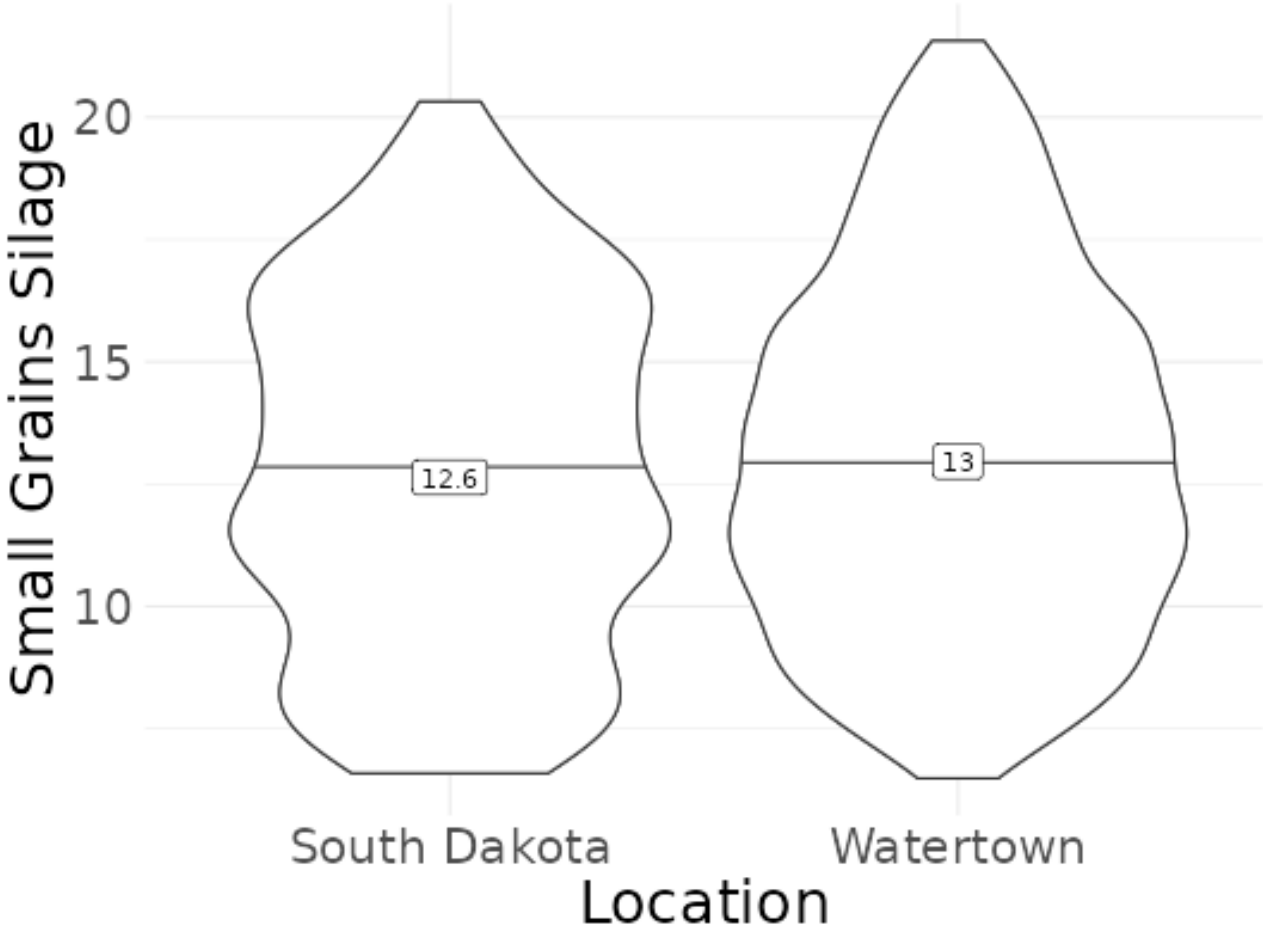
Small Grains- NDF



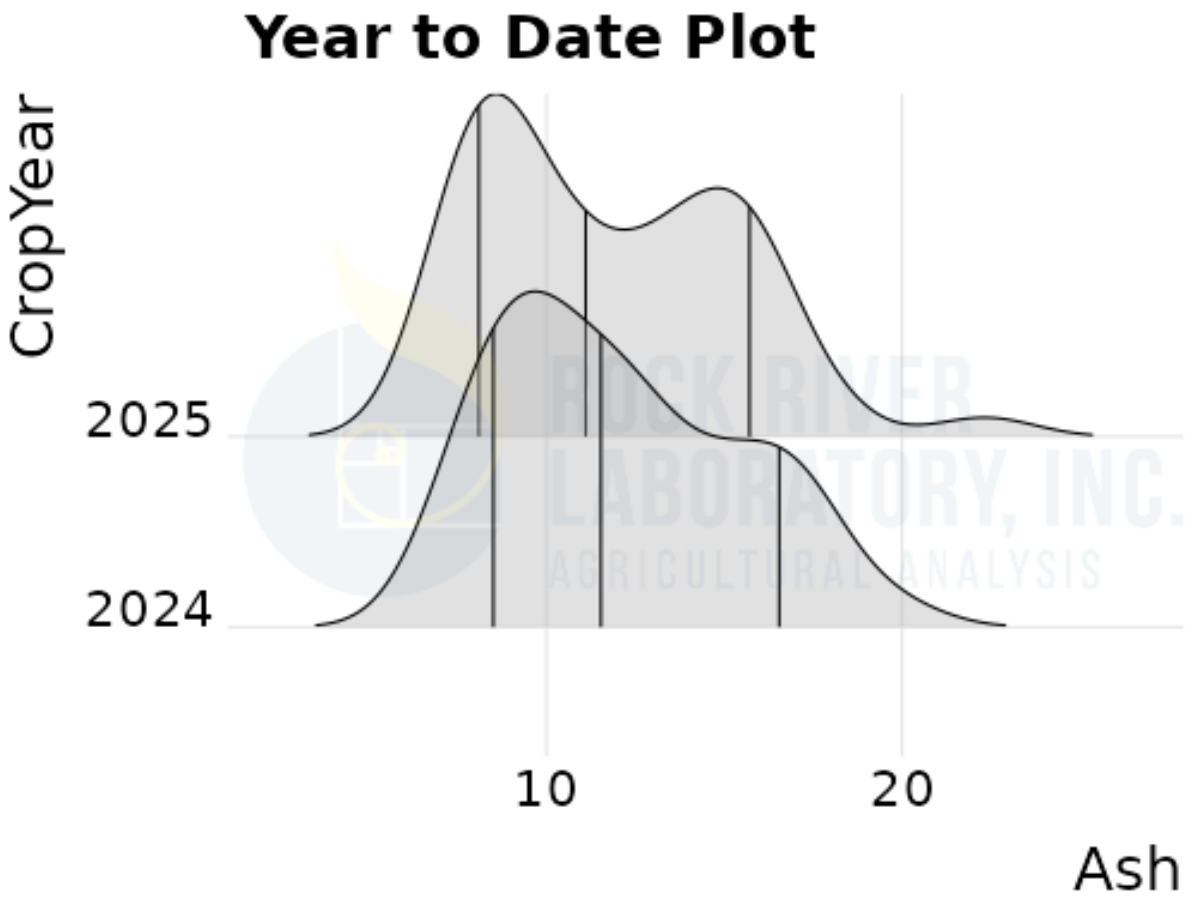


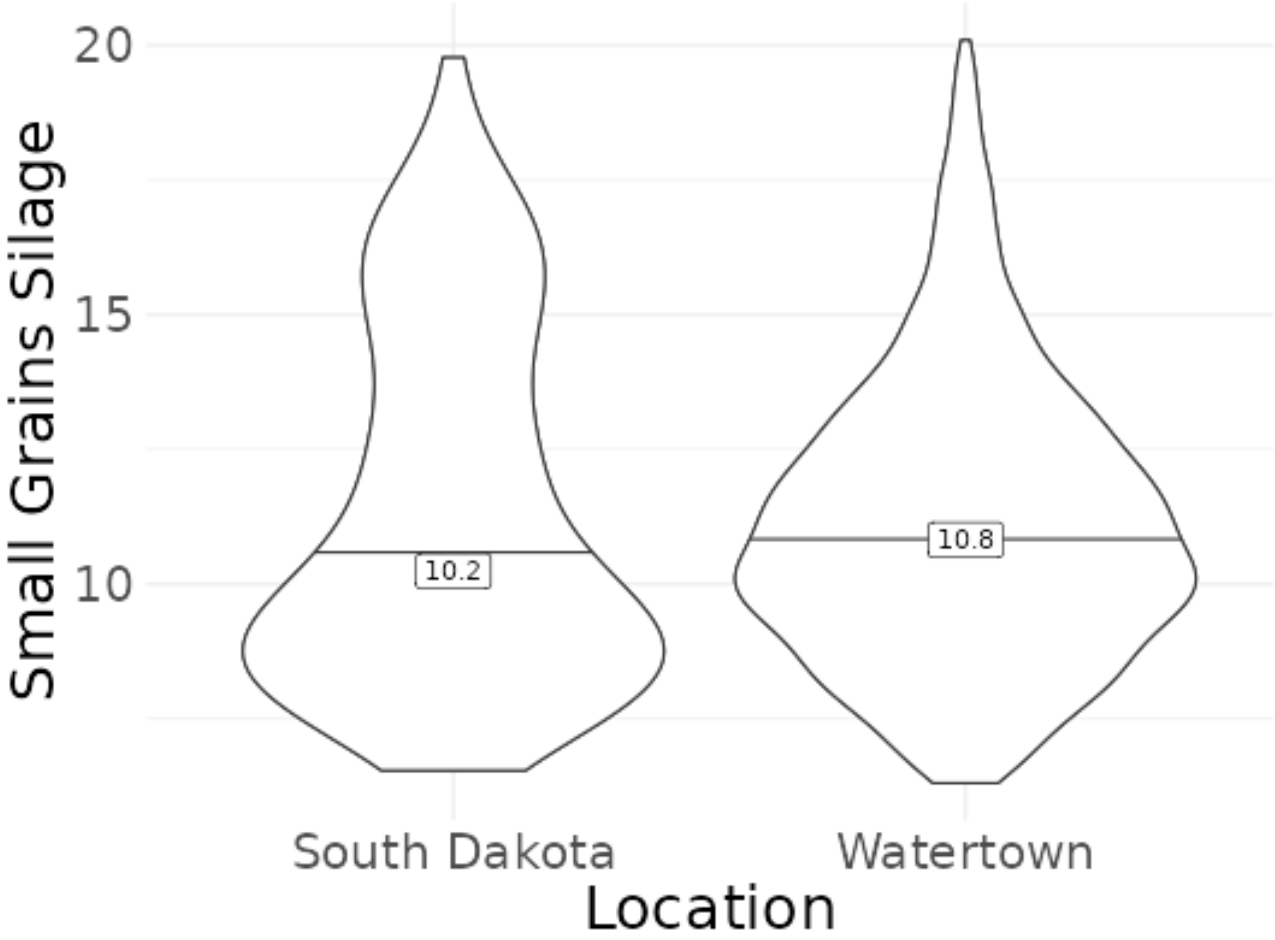
Small Grains- CP



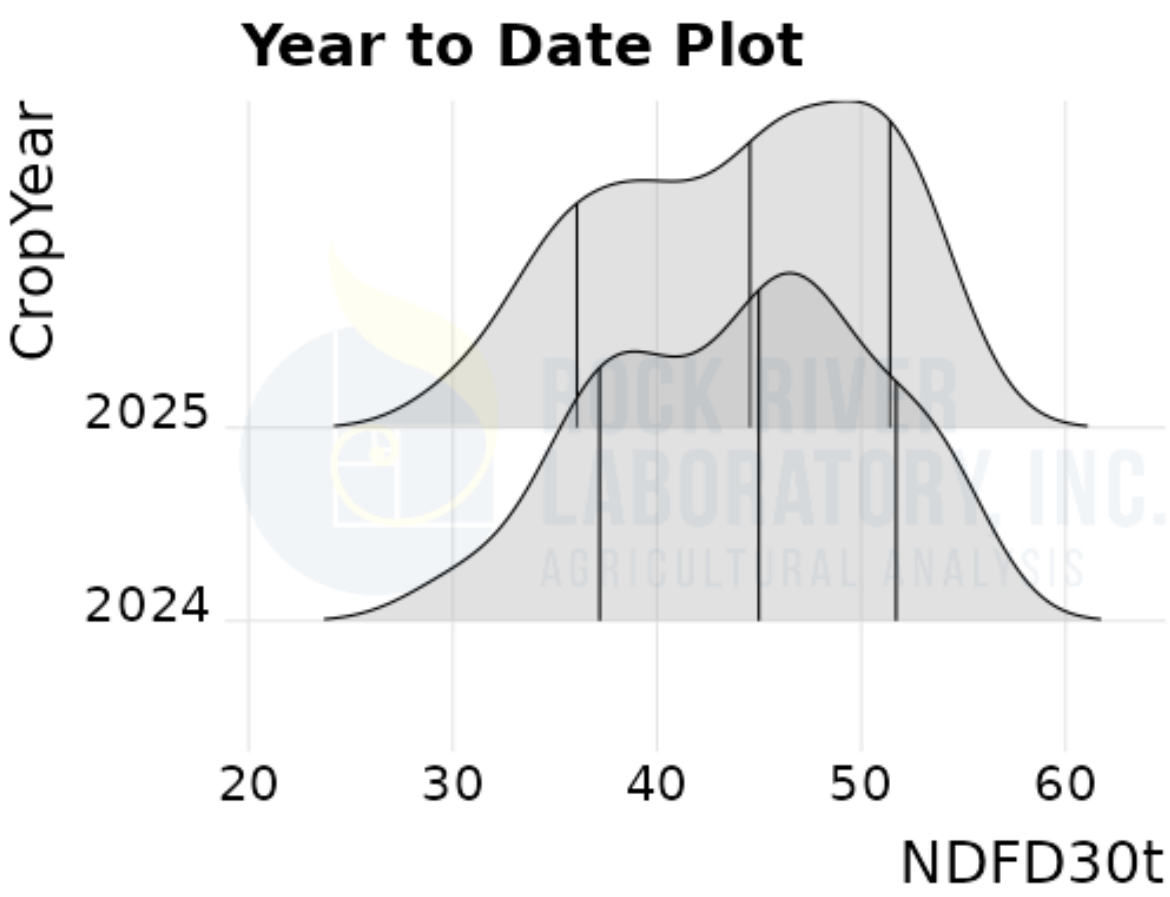


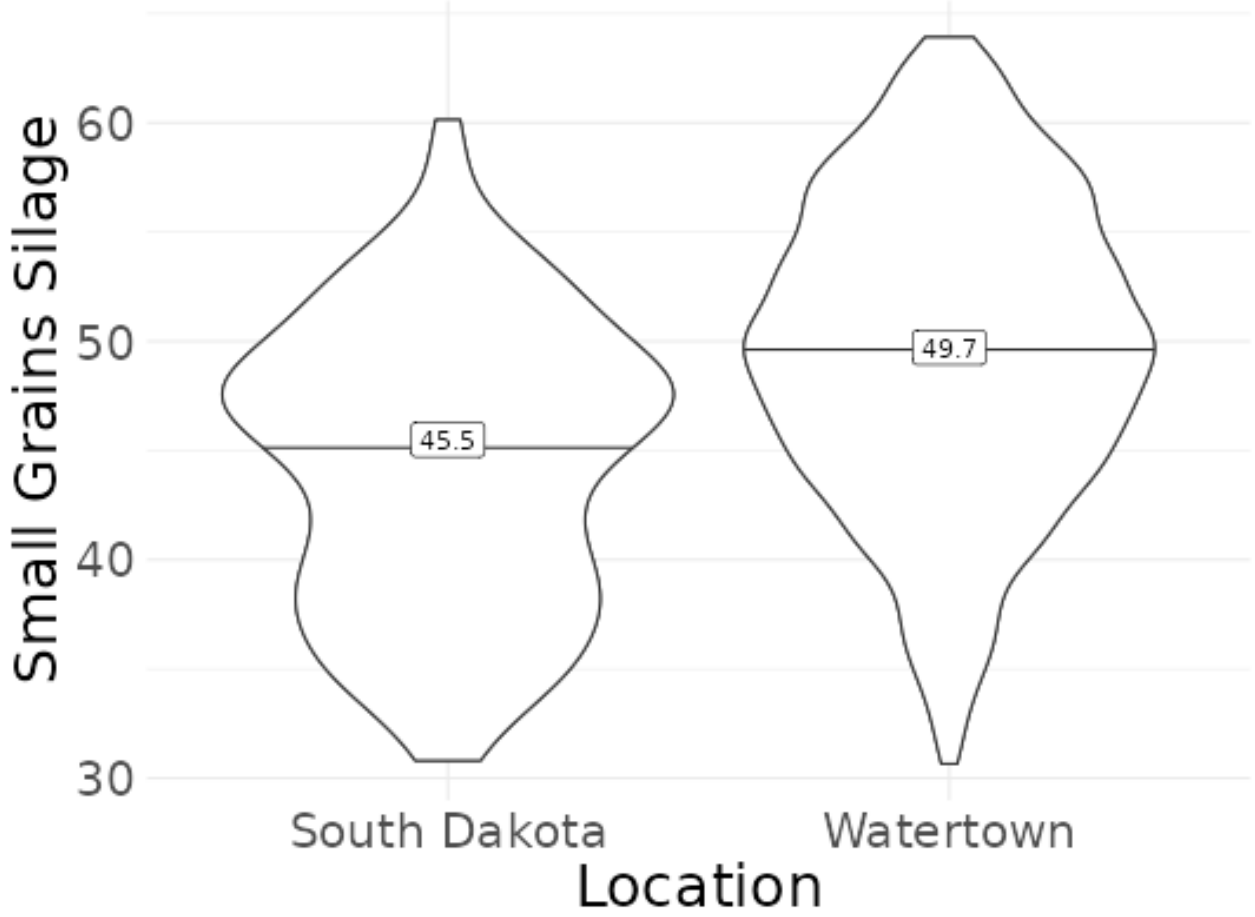
Small Grains- Ash



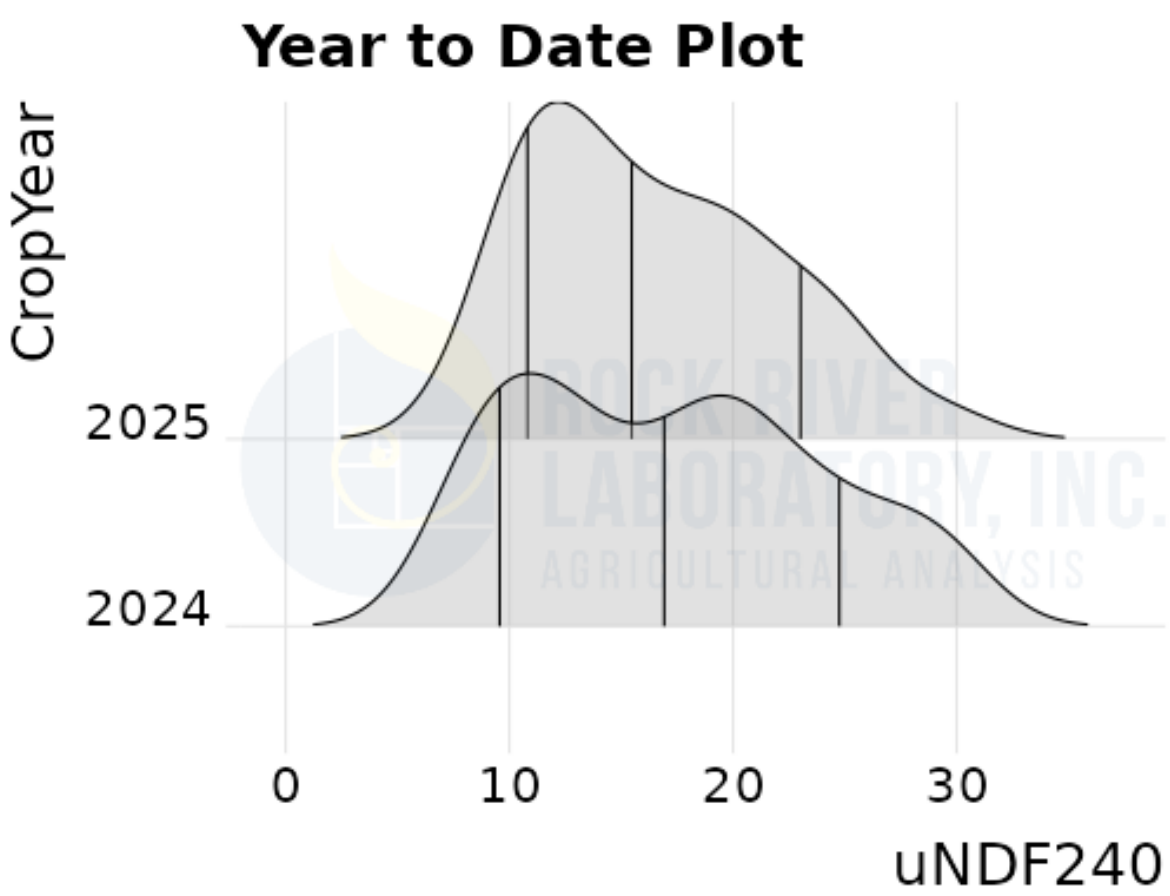


Small Grains- NDFD30

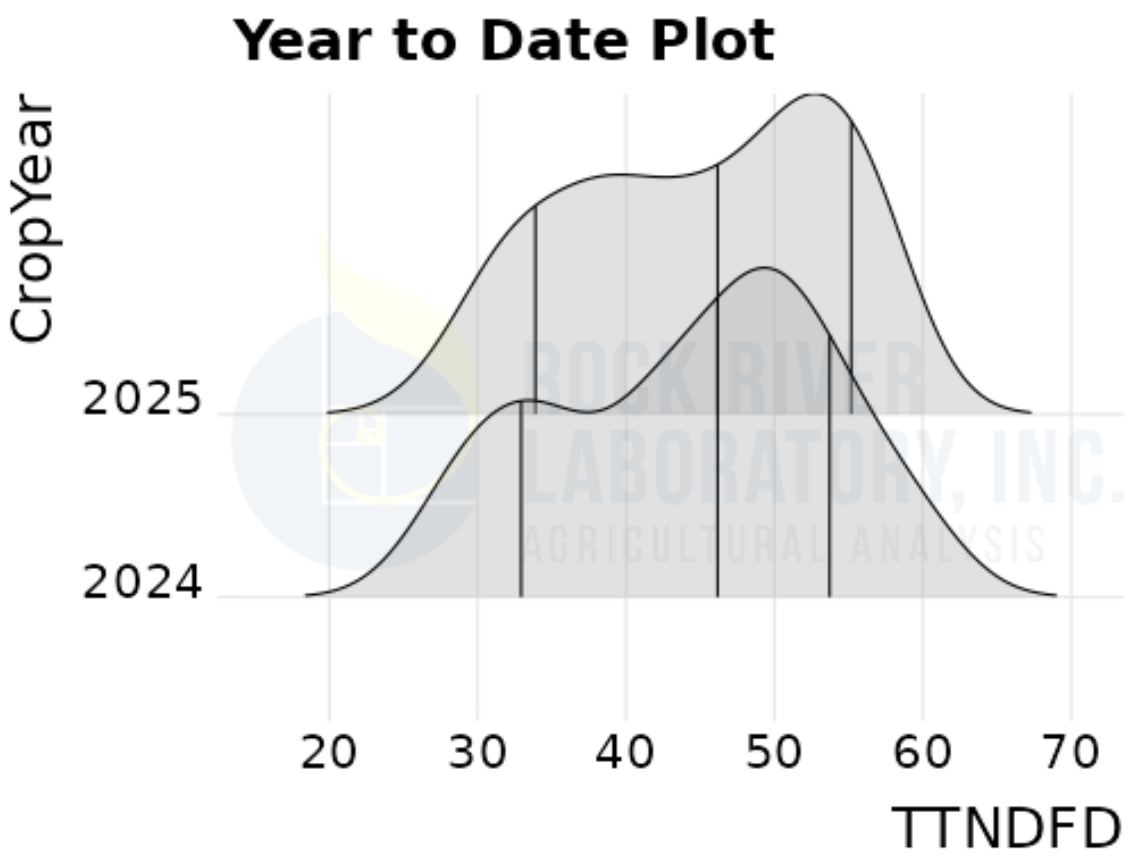


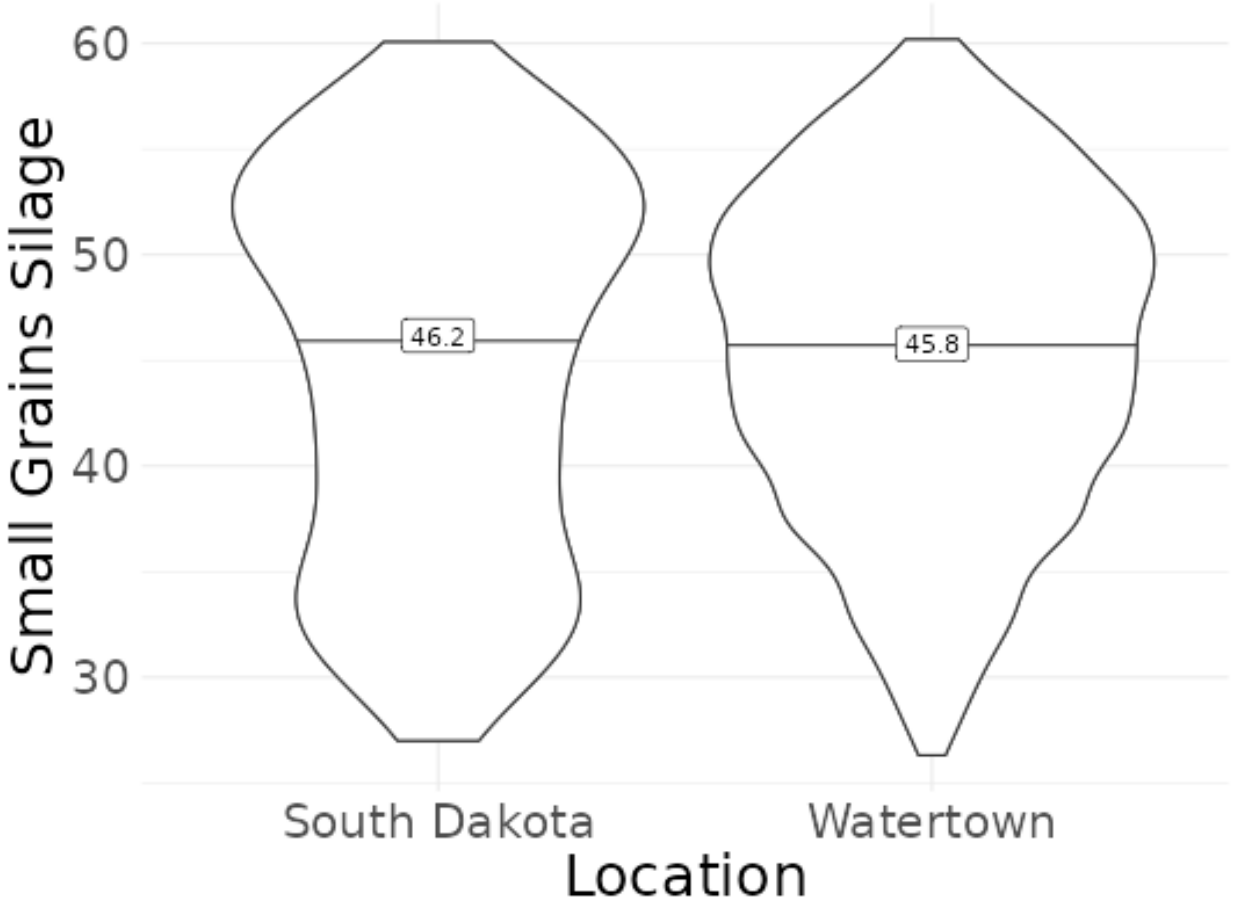


Small Grains- uNDF240

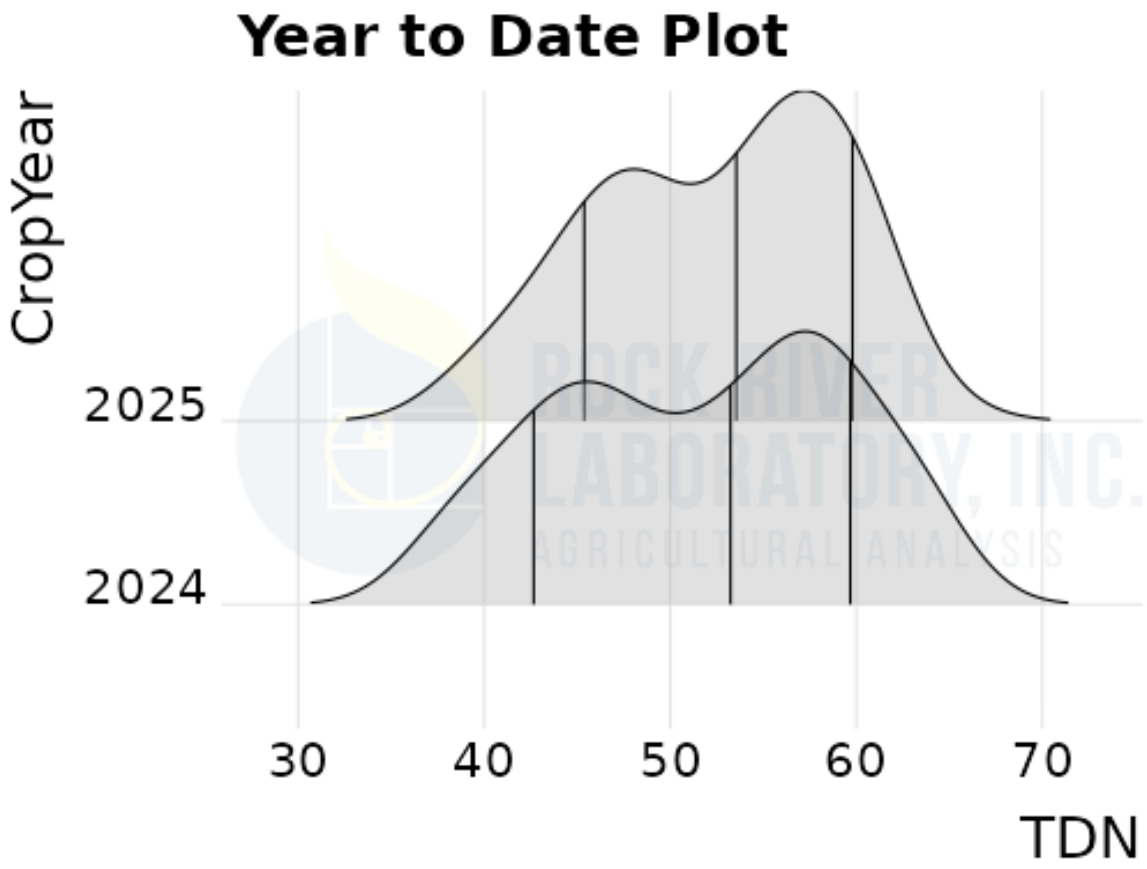


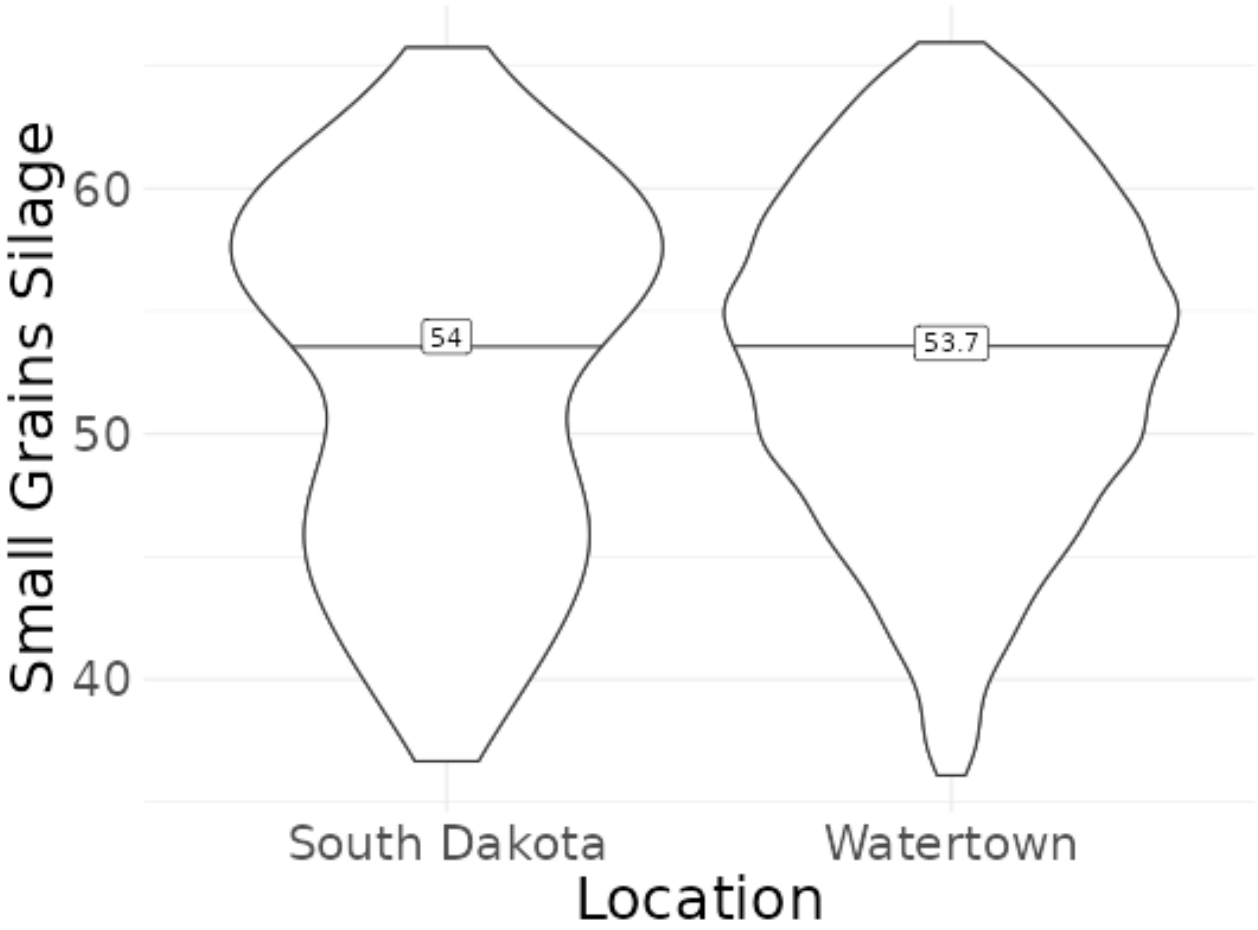
Small Grains- TTNDFD





Small Grains- TDN



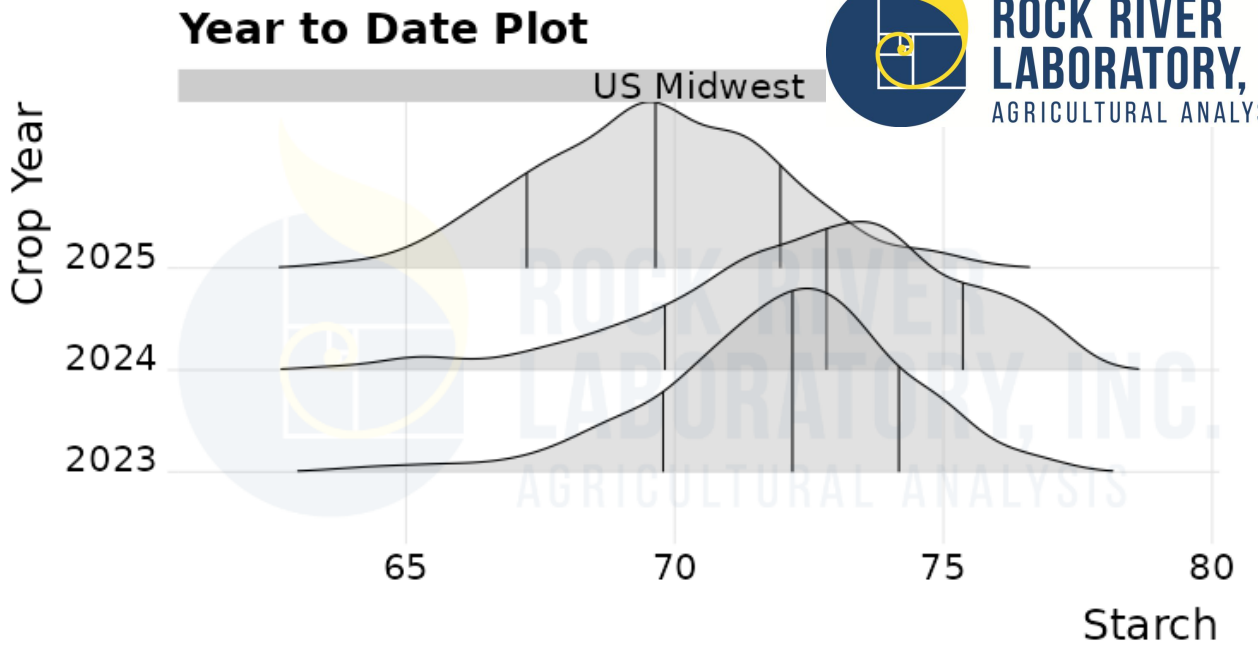


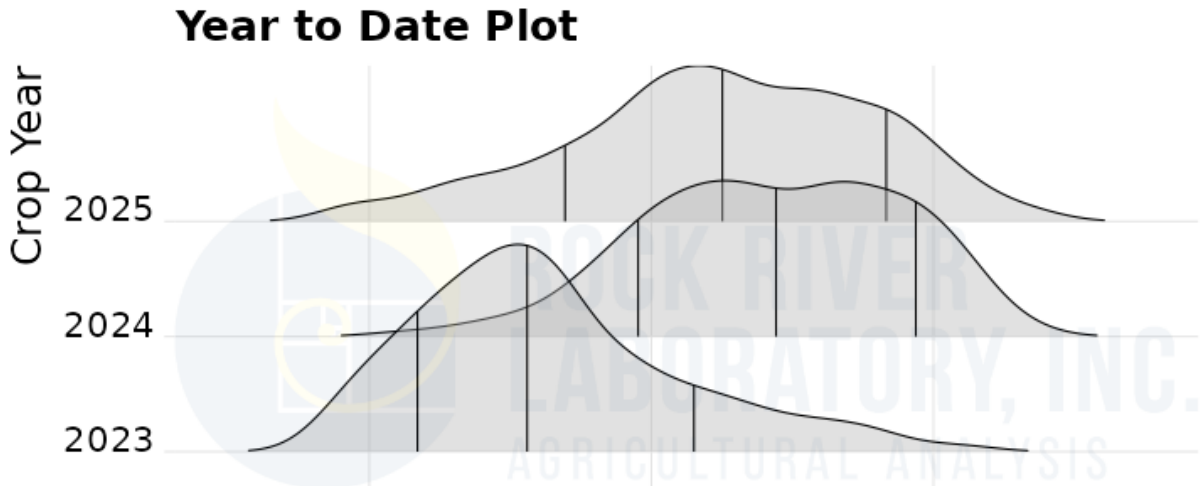
Small Grains Summary

- Very similar to the 2024 crops in terms of quality
- Digestible fiber may have a slightly wider range
  - uNDF240 is down so larger potentially digestible fiber pool
  - These two factors coupled may lead to a slightly wider overall range of digestible fiber
- TDN slightly higher in 2025 & higher than average MW small grains silage
- Overall data is quite variable due to harvest practices and types of crops utilized

Corn Grain

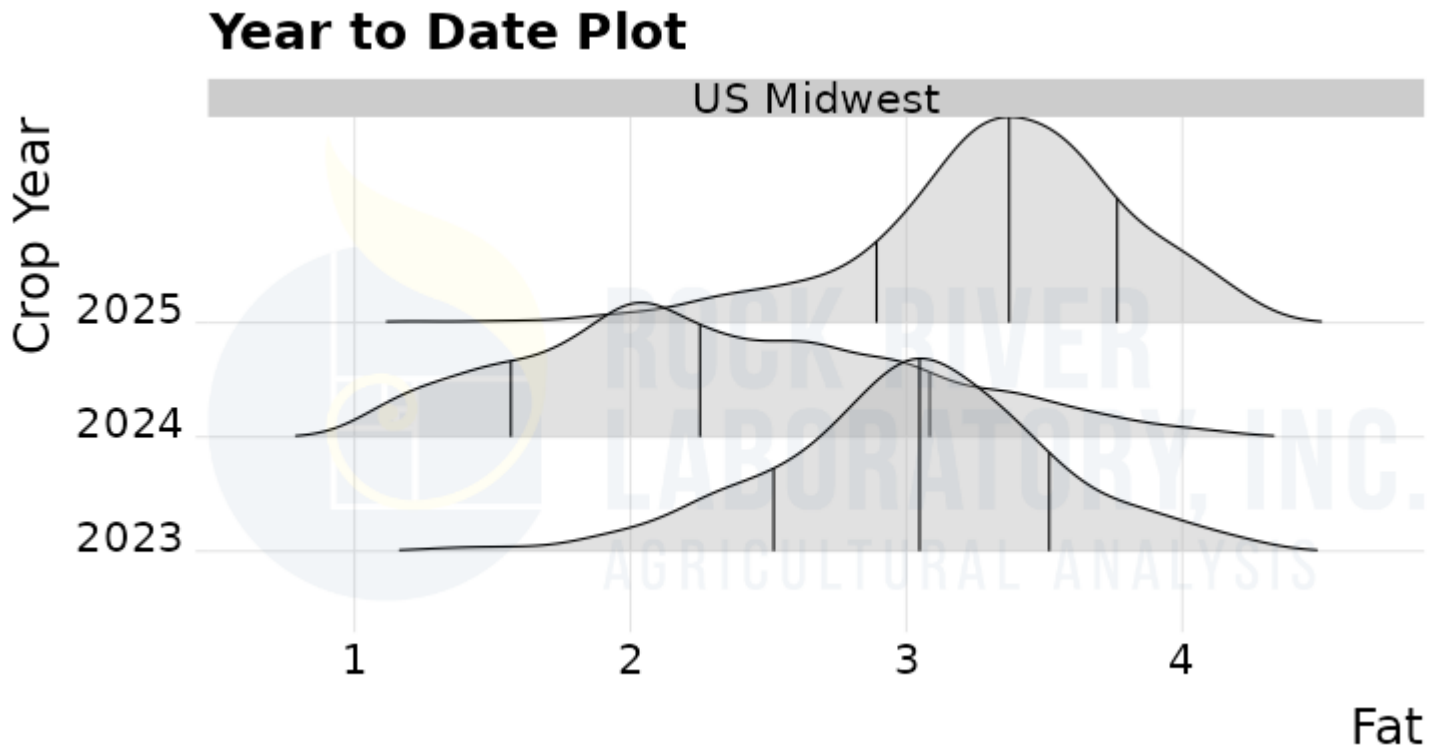
- Corn Grain Starch is significantly down in the Midwestern states in 2025 compared ot previous years
- 7 Hour starch disappearance is also down compared to 2024
- Drought conditions prevalent in I states
- May have impact on dietary energy





Corn Grain-Fat

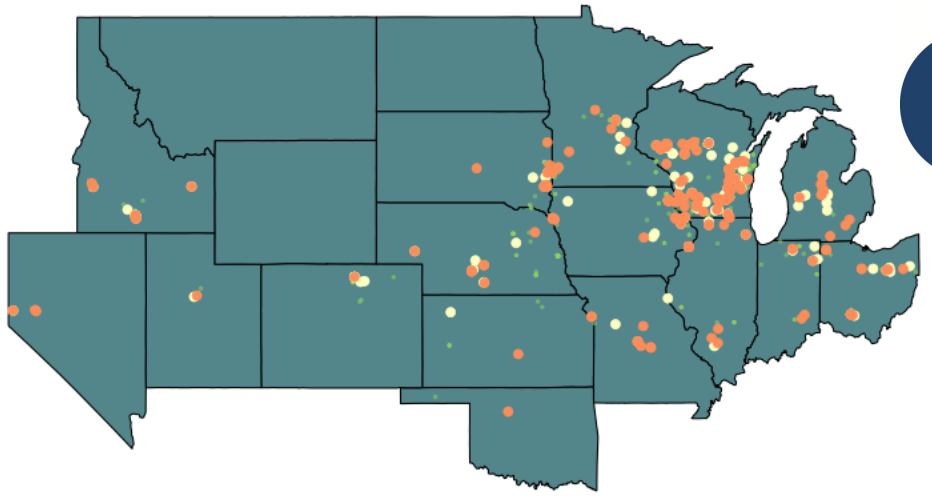
- CP levels have edged up slightly in the 2025 crop
- However, fat is also up significantly
  - Mostly RUFAL
- Watch fecal starches



Feed Hygiene Trends

- Midwestern & Western data summarized
  - 2 Years of data
- Trends plotted over time & by submission location
- Major feed hygiene components summarized
- All feed types considered

Yeast



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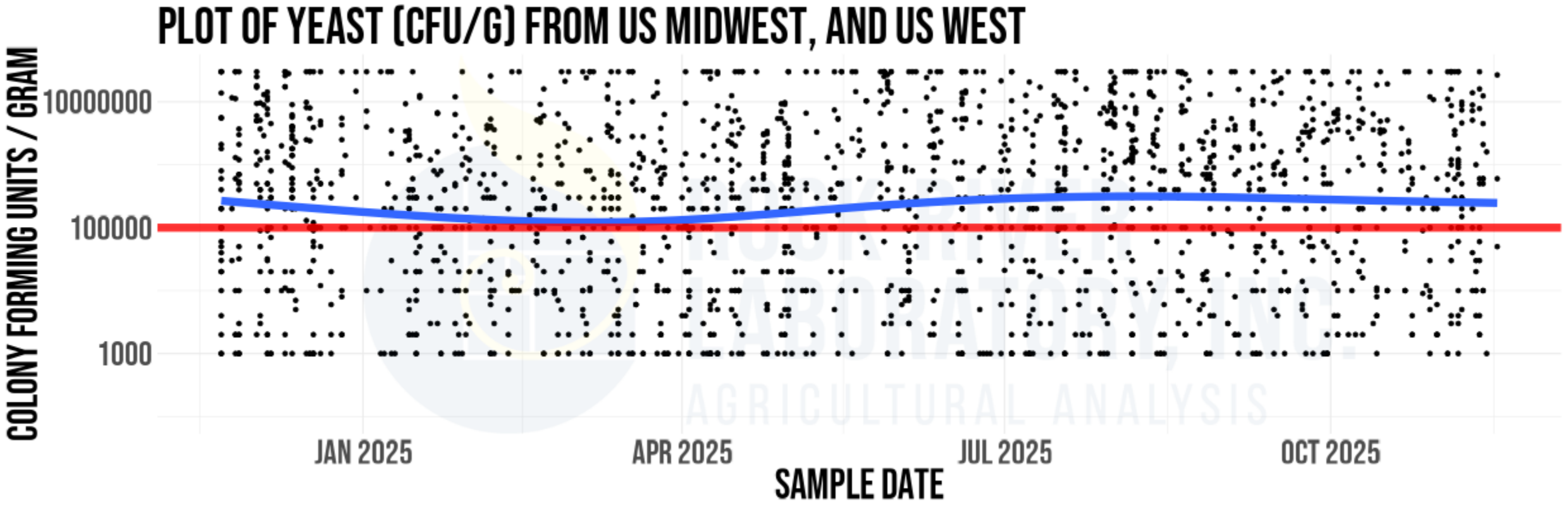
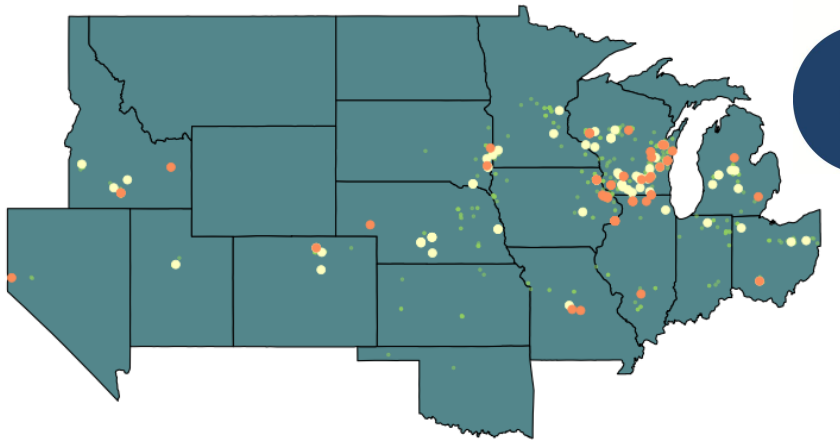
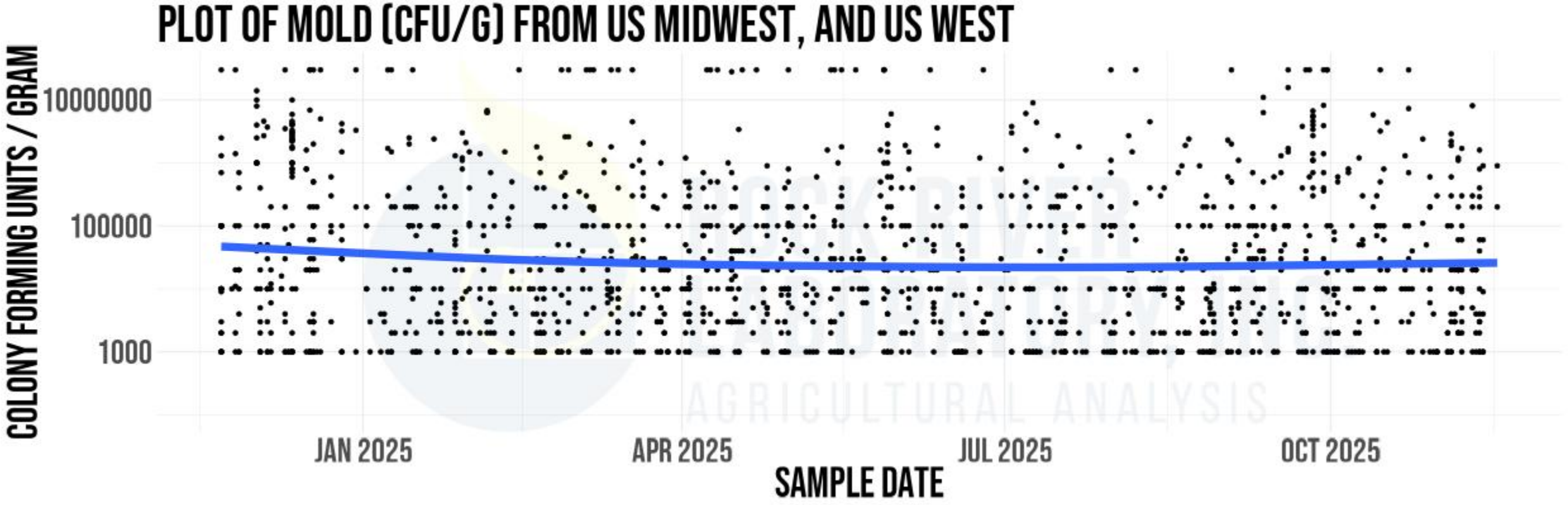


Mold

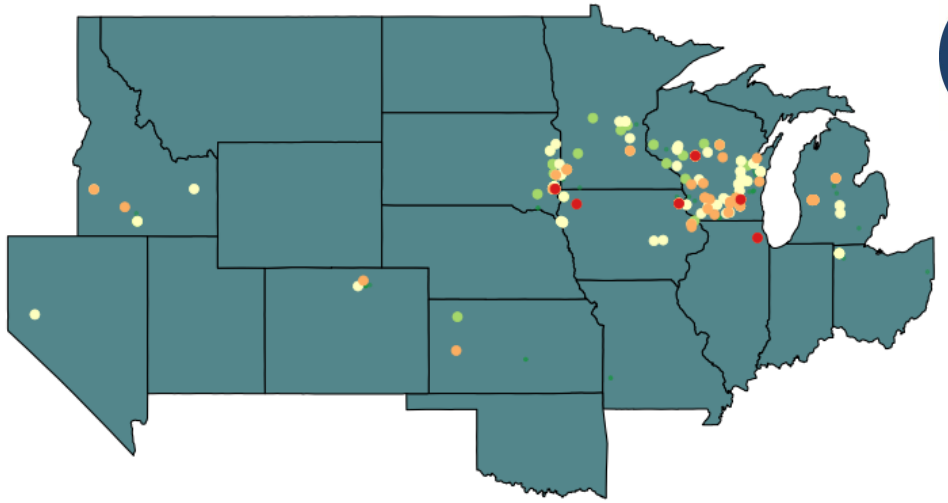


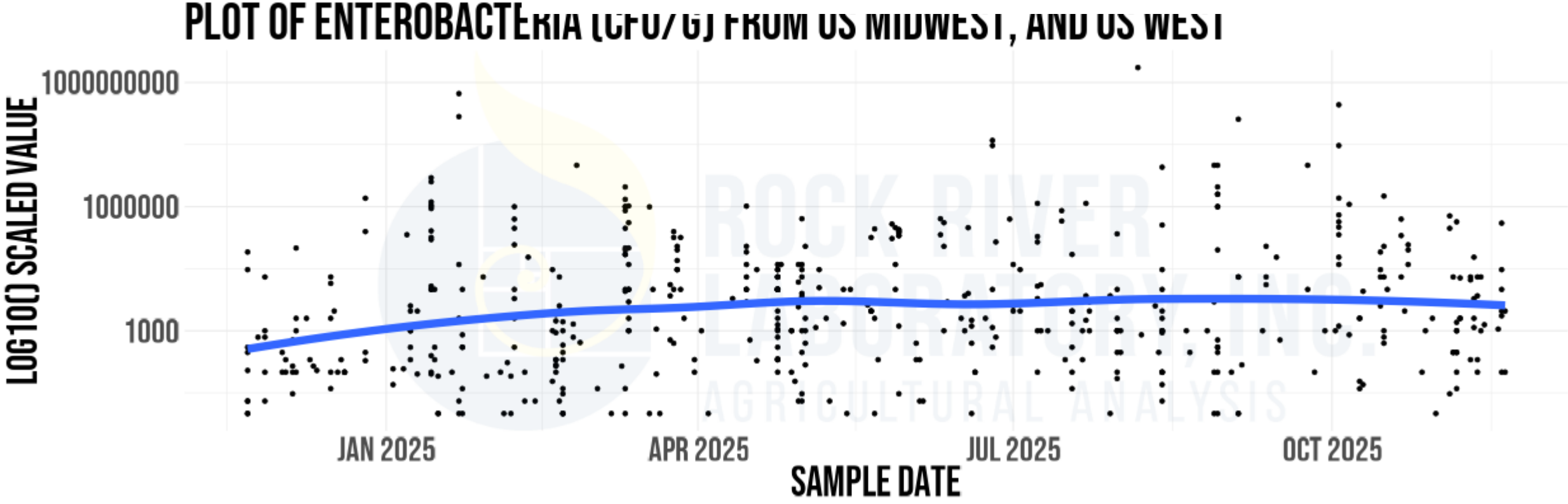
ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS

- GREATER THAN 1,000,000
- 100K TO 1MIL
- LESS THAN 100,000

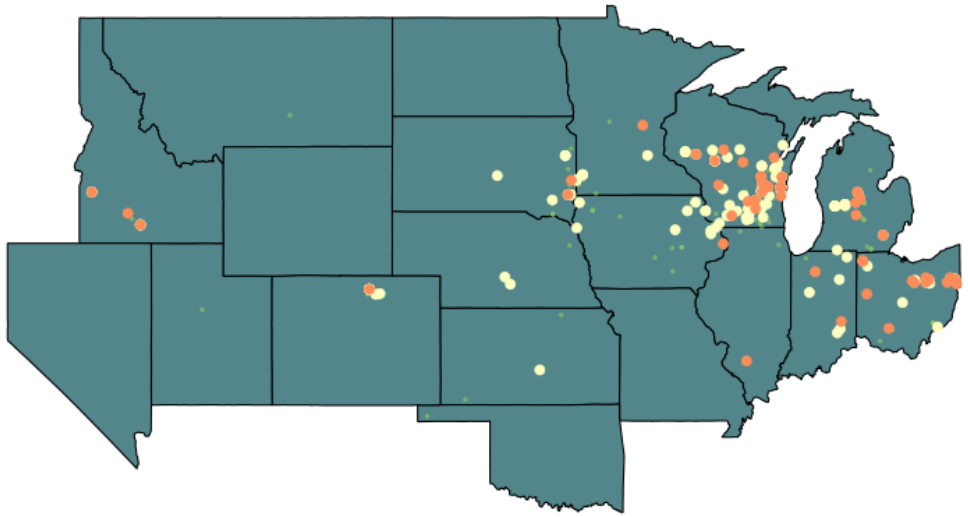


Enterobacteria





DON



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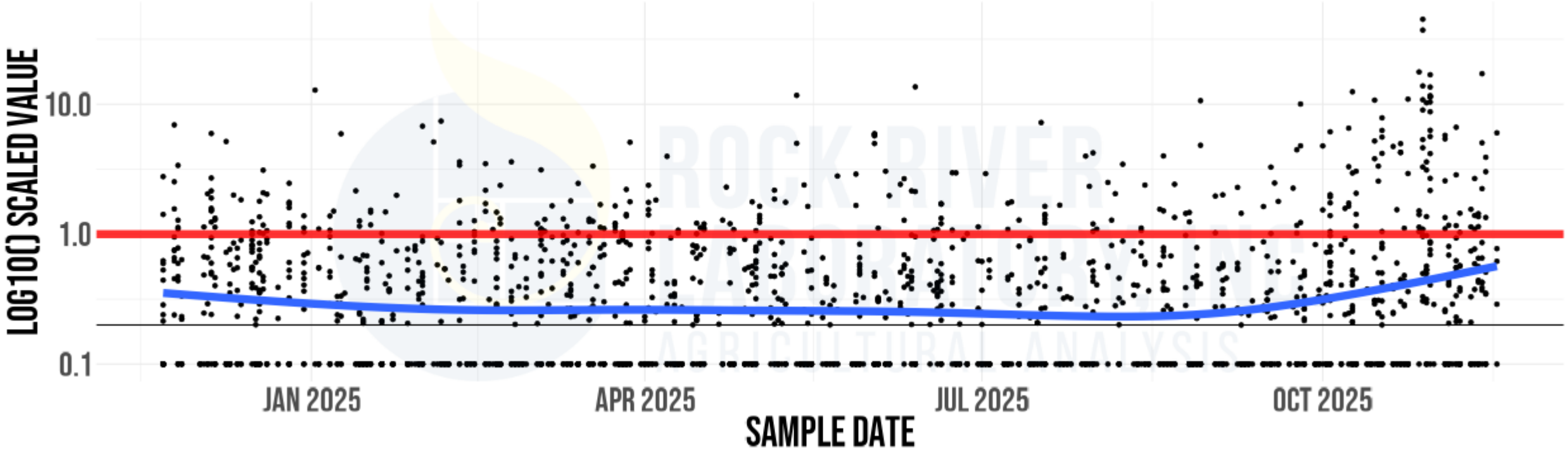
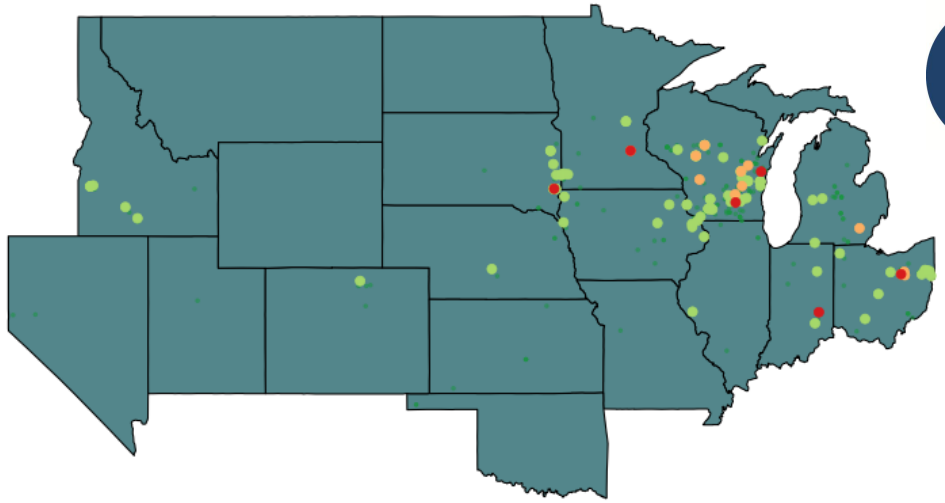
PLOT OF VOMITOXIN (PPM) FROM US MIDWEST, AND US WEST



Zearalenone



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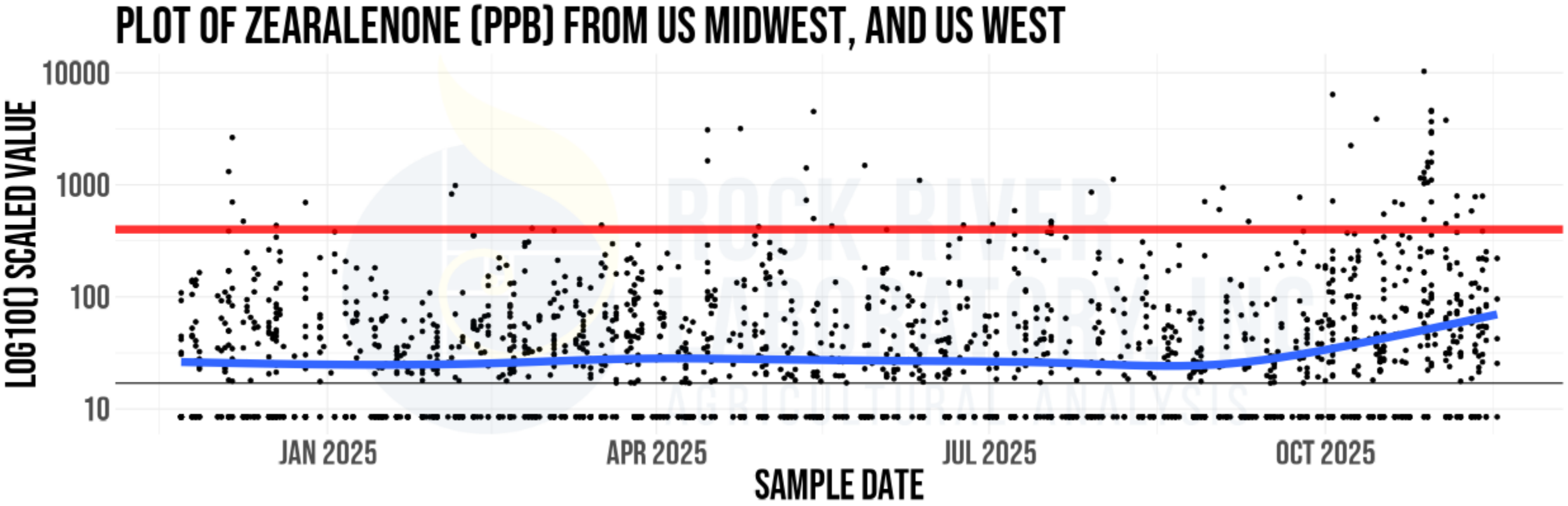
AGRICULTURAL ANALYSIS



Feed Hygiene Summary

- Challenging growing conditions led to recent increases in levels of toxins
  - DON
    - GI Upset
    - Lack of performance
    - Other toxins?
    - Proper silage management!
  - ZEA
    - Reproductive issues
  - Enterobacteria in TMR on the rise
    - Coupled with other feed hygiene challenges this may pose issues

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AGRICULTURAL ANALYSIS

Overall Summary

- Hot humid conditions in summer months may have created challenges for Fiber-D in CS
  - Haylage and small grains may help fill these gaps
- CS starch content was robust and digestibility looks to be coming along nicely
  - Help to overcome lower corn grain starch levels
- Keep an eye on gut health
  - Corn grain dynamics & feed hygiene may be challenging
- Make sure digestible fiber supplies are adequate