Ontario Ministry of Agriculture, Food and Rural Affairs

Knowing the Numbers How data will define the forage sector

Canadian Forage and Grassland Association conference Moncton, NB
November 14, 2019



Key Metrics:

Yield



Why is yield important?

On the farm:

- Manage feed inventory
- Calculate cost of production
- Prioritize fields for renovation/termination
- Assess how management changes impact production
- Determine carrying capacity



Why is yield important?

Across the province/country:

- Assess impacts of adverse weather
- Use trends to target extension efforts
- Create insurance products based on individual farm data
- Evaluate programs using yield as a benchmark KPI



Yield monitors in grain production



https://www.precisionag.com/digital-farming/data-management/yield-monitor-tipsnew-technologies/

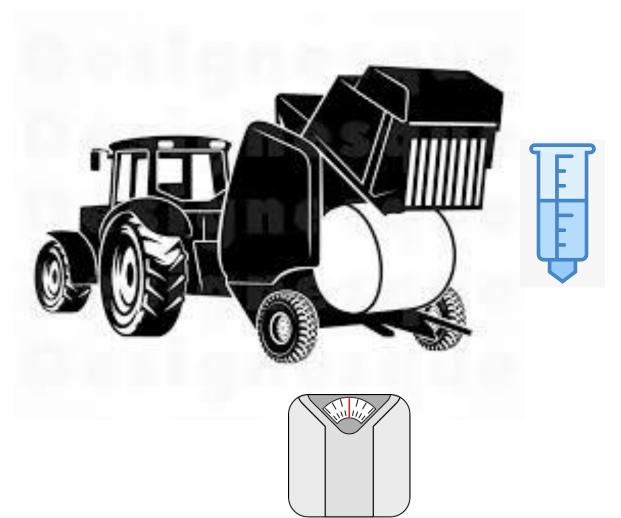


Yield monitor in hay production

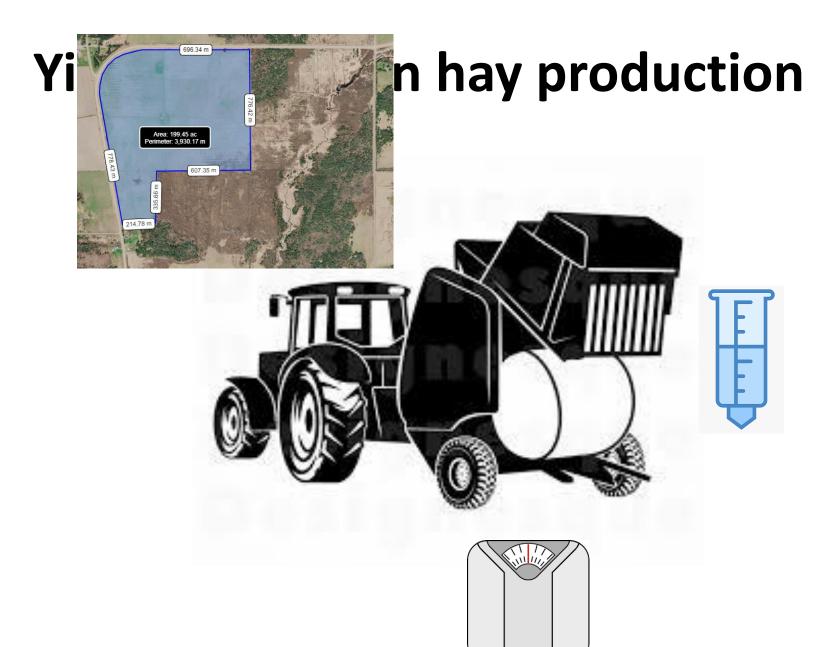




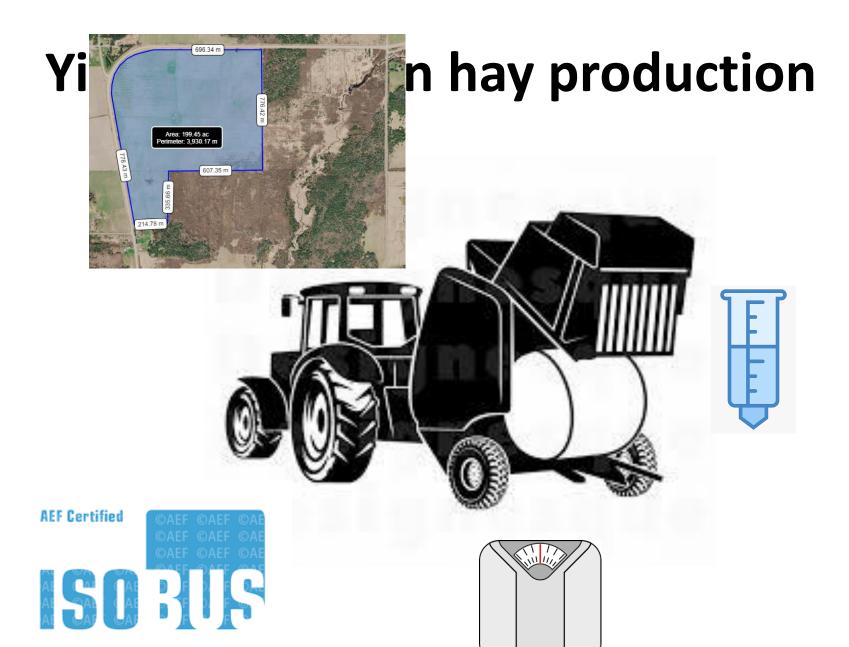
Yield monitor in hay production











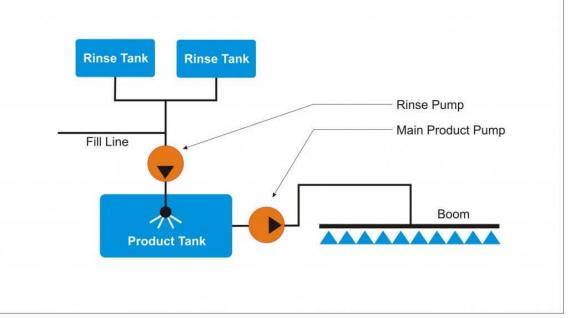


Barriers to adoption

- Must be passive data collection
- Farmers aren't demanding this technology from their equipment dealer!









Continuous Rinse Systems

<u>https://sprayers101.com/installing-a-continuous-rinse-system/</u>





Central Tire Inflation Systems





- >15 psi increases risk of soil compaction
- Road travel demands higher pressures for safety



Yield monitor in pasture production

- Doesn't need to be scary or difficult!
- Understand difference between cover and yield



Grass Cover

A "snapshot" of the amount of grazeable pasture at a single point in time.

Feed inventory, always changing

Yield

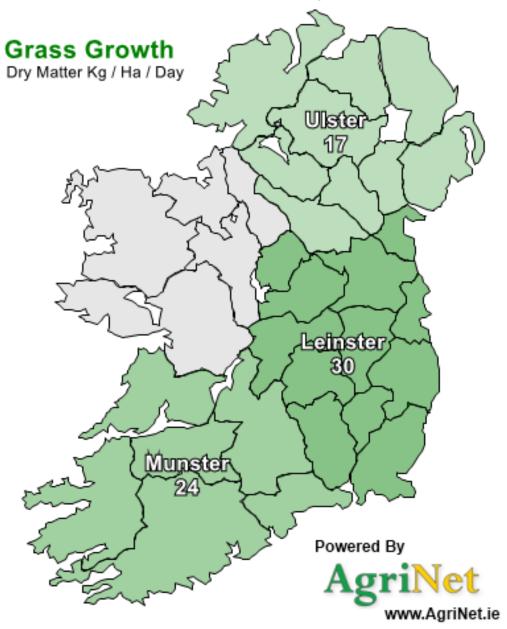
A summary of total pasture production over the growing season.

Example: I measured my paddocks on Monday, and the grass cover in the front paddock was 900 kg DM/ha.

Example: Last year the front paddock yielded 9.8 tonnes DM/ha.



Last Updated: 03-Nov-2019





Measuring Tools



Measuring Tools

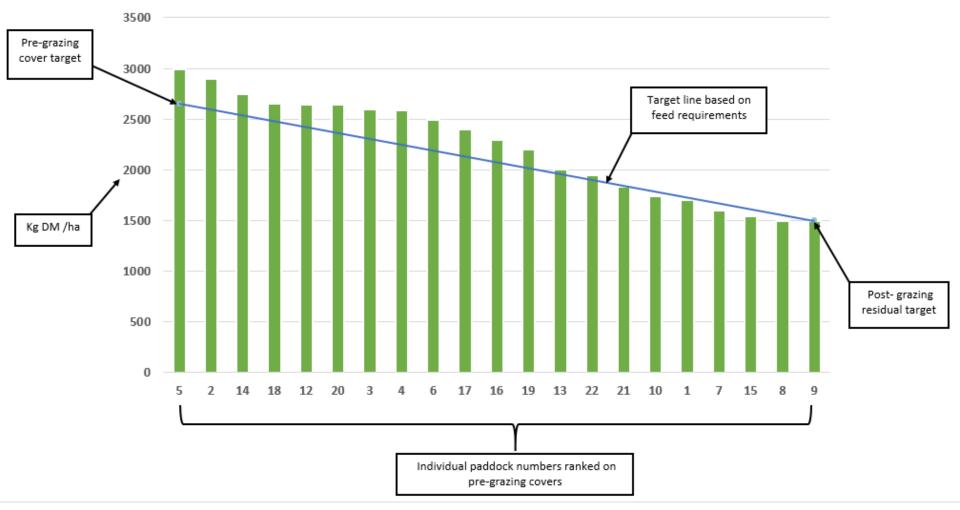




Measuring Tools

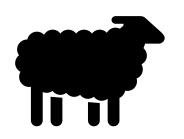


Grazing Wedge

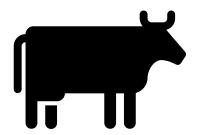


Grass Utilization

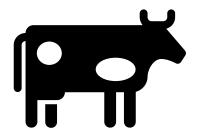
Target depends on type of livestock:



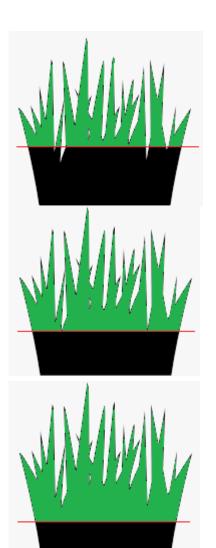
>60%



- >60% for cow/calf pairs
- >70% for stockers



- >70% for replacement heifers
- >80% for cows



These targets were developed for the British Isles; no Ontario data exists

Key Metrics:

Yield



Christine O'Reilly

Forage and Grazing Specialist
Ontario Ministry of Agriculture, Food and Rural Affairs

322 Kent Street West, Room 105 Lindsay, ON, K9V 4T7

705-341-4899 christine.oreilly@ontario.ca

Twitter: @OReilly_Ag www.fieldcropnews.com