



# Resources for Forage Management in a Drought Situation

## Agronomic Considerations





# **Resources for Forage Management in a Drought Situation**

## Feed and Feeding Considerations

Short Term		Short Term
Forage Inventory		Purchasing Feed
<ul> <li>It is fora then</li> <li>Whi still add now</li> <li>Harvest</li> <li>Con if qu sou invest</li> </ul>	critical to accurately calculate current age inventories and continue to track m with usage rates. ile the exact impact on the corn crop is somewhat unknown projecting yields and lressing expected shortfalls should start	<ul> <li>Purchasing Feed</li> <li>These situations often make pricing difficult in respect to both supply and quality.         <ul> <li>Assess local supply &amp; demand dynamics</li> <li>Request forage quality analysis</li> </ul> </li> <li>Standing Corn         <ul> <li>Overall yield</li> <li>Ear to Stover ratio and implications on feed value.</li> </ul> </li> <li>Long Term</li> <li>Feeding Impact on Lactation         <ul> <li>Any feeding changes made now in an effort to cut cost or forage usage will have ramifications for the remainder of these</li> </ul> </li> </ul>
	several aspects of forage quality.	animals lactation.
• Clos	sely watch the stage of crop development	<ul> <li>Shorting young stock on nutritional needs call</li> </ul>
	assure proper harvest timing.	follow them throughout their life.
<ul> <li>Feed Storage</li> <li>Harvest at the correct stage and dry matter</li> <li>Corn - Assure adequate processing of kernels present</li> <li>Bunk Silos <ul> <li>Pack thoroughly</li> <li>Cover with two layer oxygen limiting plastic</li> <li>Manage face at feed out</li> </ul> </li> <li>Consider use of inoculants</li> <li>Sample and test forage early and often to assess feed quality</li> <li>Nitrates in Forage</li> <li>Forage Nitrate issues warrant attention but are most generally only an issues in feeding green chop or when harvested immediately after a "drought ending" rain event.</li> </ul>		<ul> <li>Future Forage Needs</li> <li>Assess impact of current forage shortages, how they will impact the coming year's inventories and what adjustments to your crop rotation may be needed to adequately rebuild desired inventories.</li> <li>If you are growing BMR corns consider the yield differences associated with these crops and if the need to rebuild forage inventories with higher yielding hybrids exceeds the benefits of BMR.</li> <li>Storage Management</li> <li>Thoroughly examine feed storage structures and their management. Decreasing Dry Matter losses by improving storage can gain you forage in the short term and improve inventory management in the long term.</li> </ul>
Water S		
ade	<ul> <li>ve your water tested, in addition to</li> <li>equate supply changes in the water table</li> <li>affect water quality throughout the year.</li> <li>This could also exacerbate nitrate</li> <li>issues in total diets.</li> </ul>	





# **Resources for Forage Management in a Drought Situation**

## Safety!

Harvest is a busy time for farm operations. Time means money when it comes to yields, production schedules, and operating costs. However, time also ensures safety at harvest. The extra time it takes to perform a task properly can determine whether the job is completed at all. Harvest season comes with many stresses. Exposure to dangerous situations can increase the mental pressure, and your risk of injury. Follow safe practices around harvest equipment to make the most of your work time. *The most important goal is to send all family members and employees home to their families SAFE ... EVERYDAY!!* 

## **Planning and Teamwork**

Accomplishing key field operations at the correct times can be a challenge under the best of circumstances but can be especially challenging under inclement conditions and achieving your goals might come from a different way of thinking. Consider the 5,000foot view of the land that you and your neighbors work and think of the inventory of people and equipment potentially available to accomplish the needed activities for the *collective* land base. Are there opportunities to share equipment and time even where you haven't done so before?

## Calculate adequate packing weight

It is critical to match forage deliver rate to packing weight to achieve adequate densities in the silo. Adequate density will increase the tons of storage within the given footprint and provide a better environment for up front fermentation and long term forage stability.

## MINIMUM packing weight needed (tons) =

800 lbs packing weight \* Delivery Rate (tons/hour)

## Resources

### Northwest NY Dairy, Livestock & Field Crops Team http://nwnyteam.cce.cornell.edu/submission.php?id =589&crumb=forages 2

• Forage Management and Addressing Forage Shortages

### PRO-DAIRY

https://cals.cornell.edu/pro-dairy/ourexpertise/forage-systems

• Forage Management Resources

## North Country Regional Agriculture Team

- Managing Forages in Drought Videos
  - Part 1: Managing Pastures in Drought <u>https://vod.video.cornell.edu/media/1 19b</u> <u>j2cuc</u>
  - Part 2: Stored Forages: Winter Feed Supply <u>https://vod.video.cornell.edu/media/1\_ql5</u> <u>76klx</u>

## Nutrient Management Spear Program Agronomy Factsheets

http://nmsp.cals.cornell.edu/guidelines/factsheets.h tml

- #70: Drought and Risk of Nitrate Toxicity in Forages
- #114: Emergency and Alternative Summer Annual Forages

Cornell Beef Cattle Management Drought Resources http://blogs.cornell.edu/beefcattle/producerresources/

### Penn State University

- Managing Drought Stressed Corn <u>https://extension.psu.edu/managing-drought-</u> <u>stressed-corn</u>
- Pricing Standing Corn Silage Spreadsheet <u>https://extension.psu.edu/spreadsheet-to-price-standing-corn-for-silage</u>

### University of Wisconsin

https://fyi.uwex.edu/forage/harvest/

 Storage Capacity Calculators: Bunks, Bags, Upright Silos

### Miner Institute Feeder Tools

https://www.whminer.org/dairy/

- Inventory Calculator
- Inventory Management