



Master Forage Probe

SILAGE MANAGEMENT LINKS

Corn and hay crop silages are valuable commodities on dairy farms. Inadequate packing in bunk silos, trenches, piles and ag bags can lead to nutrient loss and spoilage, thereby lowering feeding value and potential milk production. A good fermentation relies on proper packing to exclude oxygen. Measuring silage density is a good way to determine how well the silage is packed.

Below are links to useful information from leading university and industry experts dealing with density measurement and silage management.

Silage Density

Packing Bunker and Pile Silos to Minimize Porosity
Brian J. Holmes and Richard E. Muck May 2008

<http://www.uwex.edu/CES/crops/uwforage/Porosity-FOF.pdf>

Bunker Silo Density Calculator Brian Holmes August 2007

<http://www.uwex.edu/CES/crops/uwforage/BunkDensCalc8-24-07wPOROSITY.xls>

Silage Pile Density Calculator Brian Holmes June 2008

[http://www.uwex.edu/CES/crops/uwforage/PileDensCalcwPOROSITY8-24-07\(Edit%206-3-08\).xls](http://www.uwex.edu/CES/crops/uwforage/PileDensCalcwPOROSITY8-24-07(Edit%206-3-08).xls)

Silage Packing Density - A critical management control point for producing high-quality silages.

R.Charley, Ph.D., Forage Products Manager-Animal Nutrition, Lallemand http://www.qualitysilage.com/silage-management/PDF/Silage_Density_Update.pdf

Penn State University Bunker Silo Density Study Summary Report 2004 – 2005

http://cornandsoybeans.psu.edu/pdfs/bunker_silo_study.pdf

The Dairy One Improver January 2006; Dairy One Introduces the Master Forage Probe

<http://www.dairyone.com/Publications/Improver/2006/Jan06ImproverPage.pdf>

Silage Management

University of Wisconsin Forage Resource – Harvest and Storage

<http://www.uwex.edu/CES/crops/uwforage/storage.htm>

Interpretation and use of silage fermentation analysis reports.

Limin Kung – University of Delaware and Randy Shaver – University of Wisconsin

<http://forages.vitaplus.com/pdf/Kung;%20Univ%20of%20Delaware;%20Interpretation%20and%20Use%20of%20Silage%20Fermentation%20Analysis%20Reports.pdf>

Bunk Silo Management & Silage Quality: Results from 14 Lewis County Dairies

Frans Vokey , Dairy Science Educator Cornell Cooperative Extension Lewis County April 2002

<http://counties.cce.cornell.edu/lewis/PDFs/Research%20Reports/2001%20Corn%20Bunk%20Silo%20Study%20-%20Report.pdf>