Lactating Dairy Liquid Supplements
Flexible & Convenient

Dairy TMR-NPN

- NPN Protein for rumen bugs
- Sugars for fiber digestion and microbial protein production
- Ration conditioning/reduced sorting
- High concentrated source of supplemental sugar

Dairy TMR - Fat

- Sugars for fiber digestion and microbial protein production
- Fat provides energy
- Ration conditioning/reduced sorting

Dairy SUGR

- Sugars for fiber digestion and microbial protein production
- Ration conditioning/reduced sorting
- High concentrated source of supplemental sugar

Lactation and Dry Cow Optimizer

- High concentrated source of supplemental sugar
- NPN Protein for rumen bugs
- Sugars for fiber digestion and microbial protein production
- Ration conditioning/reduced sorting
- Provides all supplemental VTM
- Reduce ration separation

Notes - Comments- Recommendations:

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"Adding Value to Your Dairy Feeding Program"

Greater Production Efficiency

- ☑ Enhanced Rumen Function
- ☑ Improved Ration Utilization
- ☑ Reduced Ration Sorting
- ☑ Improved Palatability

QLF QUALITY LIQUID FEEDS

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B-9357

Enhancing the Value of your TMR

Nutrition and More . . .

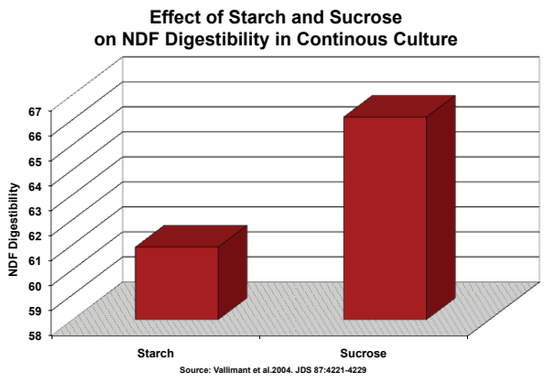
QLF QUALITY LIQUID FEEDS

Improves Fiber Digestibility

Fiber digestion is the unique capability of ruminants. The better cows are managed to take advantage of this opportunity, the better the economic return in terms of ration costs, milk and milk component production and long term animal health.

Replacing some starch with sucrose (sugar) in the ration will increase Neutral Detergent Fiber Digestibility (NDFD). Increasing feedstuff digestibility:

- ✓ Improves milk production efficiency, i.e. more milk is produced from a given amount of dry matter.
- ✓ Increases return over feed cost.
- ✓ Reduces need for higher concentrations of grain or fat feeding to meet production needs.
- ✓ Allows feeding a higher forage:concentrate ratio to reduce incidence of variable intakes and acidosis.



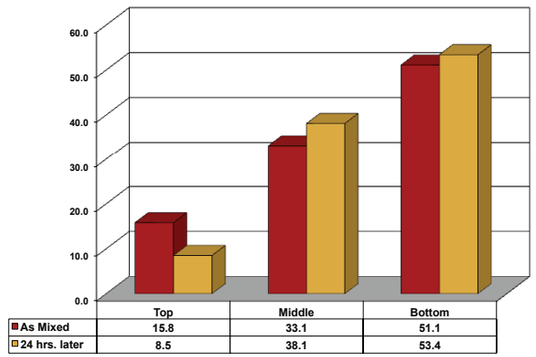
Improves TMR's Physical Characteristics

Liquid supplements offer unique characteristics that improve numerous aspects of your TMR:

- Coats and binds all ration components to reduce particle separation, keeping the TMR's feed components more uniformly mixed and evenly distributed.
- Highly palatable and aromatic supplement improving the palatability of the TMR.
- Coating and binding properties reduce ration separation and selective eating by cows.

In the graph below, the relative particle distribution on top, middle, & bottom screens is similar at mixing & after 24 hours. This demonstrates that the ration to which the liquid feed has been added is being consumed more uniformly with less sorting (selective eating) by the animals.

TMR PARTICLE ANALYSIS



	Top	Middle	Bottom
As Mixed	15.8	33.1	51.1
24 hrs. later	8.5	38.1	53.4

Improve Ration's Nutrition Density

The high quality cane molasses base ingredient of QLF liquid supplements provides a source of rapidly available carbohydrates (sugar) readily utilized by rumen microbes to enhance rumen function.

Liquid supplements' flexibility allows a broad range of nutrients to be added to meet a wide range of needs. Various levels of sugar, fat, protein, and minerals are available to match your needs.

QLF Liquid supplements are nutrient dense, convenient to apply and an ideal medium to incorporate feed ingredients & additives like:

- Fat
- Vitamins
- Trace minerals
- Calcium
- Yeast cultures
- Mold inhibitors
- Rumensin®

Improve TMR's Bunk Life

Extending bunk life and keeping feed fresh and palatable over 24 hours is a challenge, particularly during summer months.

Protecting feeds from molds, toxins, and yeast is essential to maintain feed intake and milk production. Adding mold inhibitors is a practical way to extend bunk life.

QLF offers custom addition of MYCO CURB® and Ultra CURB® mold & yeast inhibitors to extend ration freshness and palatability.

MYCO CURB® or Ultra CURB® are effective mold inhibitors and are added at 1 - 2 lbs./ton of TMR. They can be incorporated at appropriate levels in your liquid supplement to protect your TMR from heating, molding, off flavor & unpalatability.