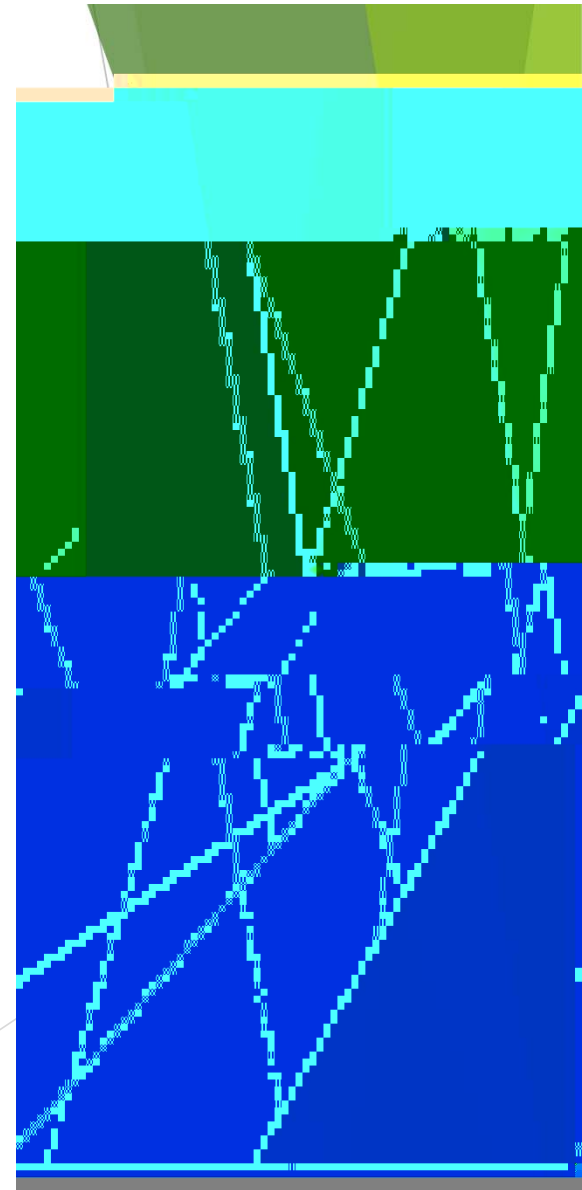
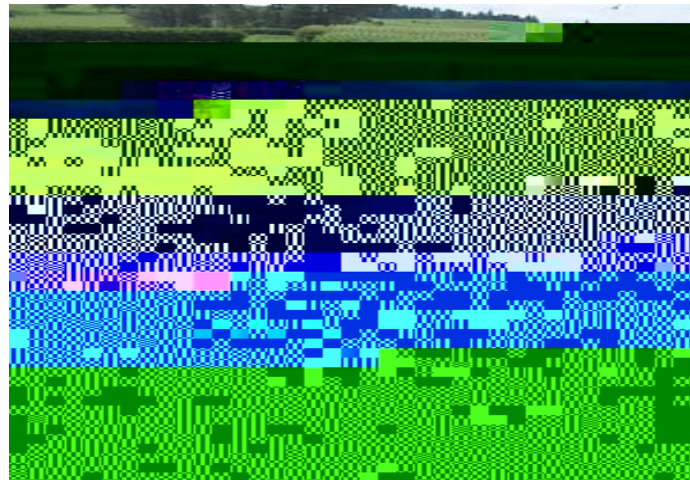
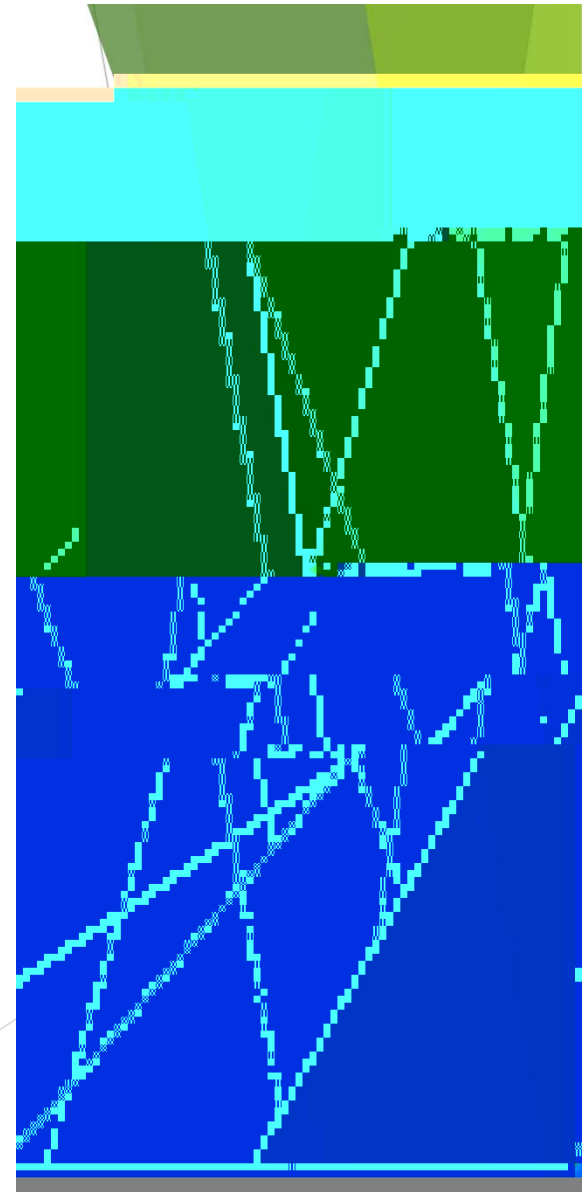


EXPLORING VERMONT DAIRY

HEALTH AND NUTRITION



Liz Kenton



Pre activities for Health:

With someone in your family take their pulse.

Where did you find it?

Respiration rate:

Count the number of breaths they take.

Temperature:

If you have a thermometer, take your temperature.

Nutrition:

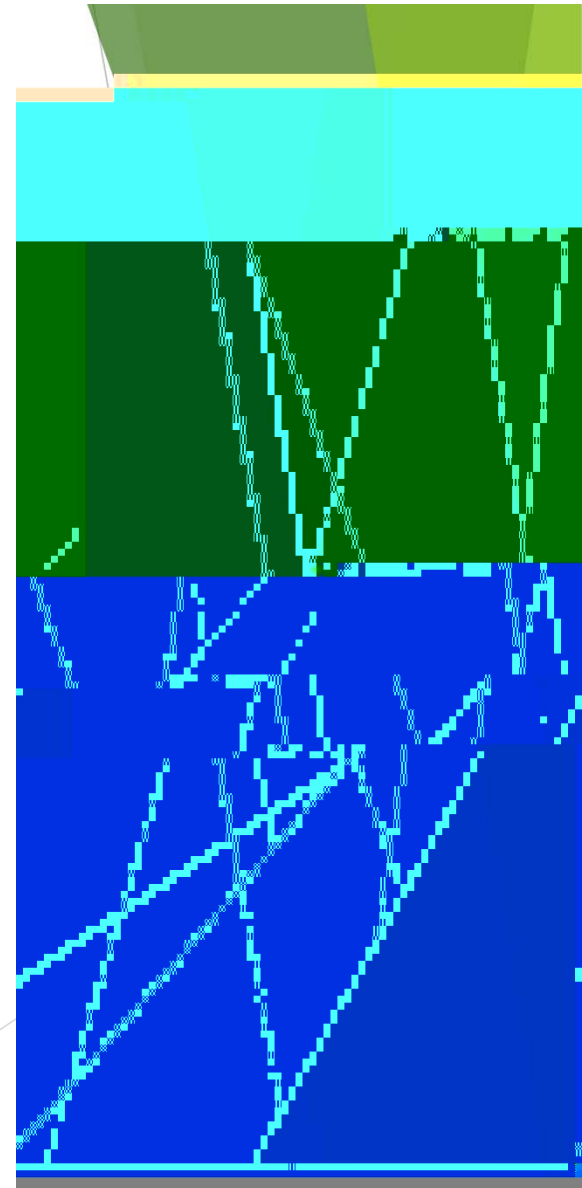
Samples of grain, corn silage and haylage.

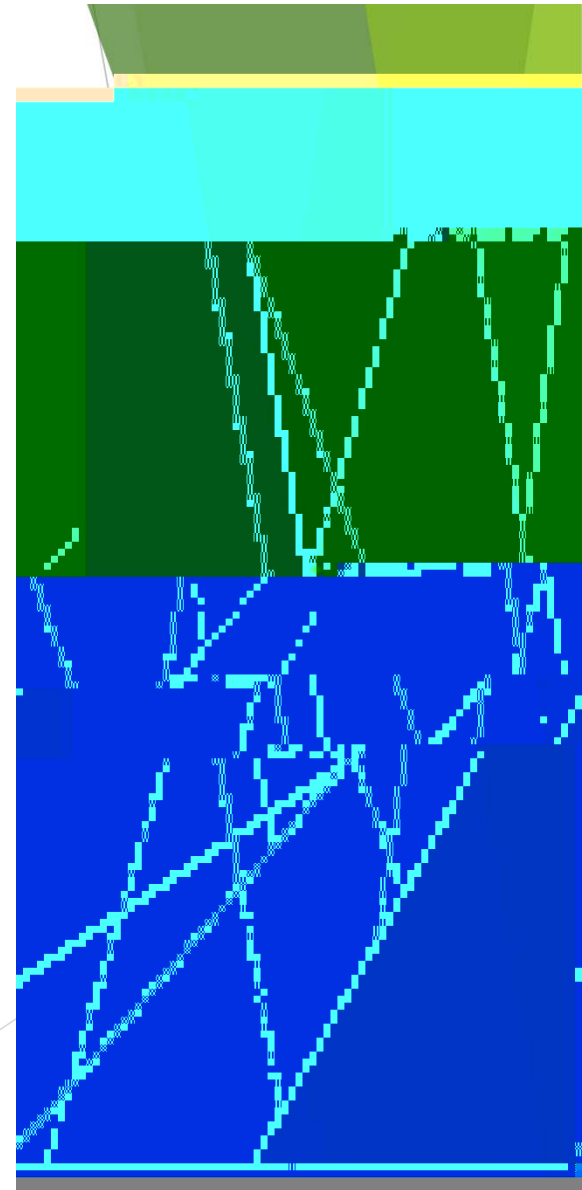
Examine your plate and a cow's TMR.

Combine what you eat in a day in a blender. This would be your TMR.

What does your TMR consist of and calculate the calories consumed?

Who has the more balanced diet?





HEALTH OF A DAIRY COW

Dairy cattle are monitored by several different factors to maintain their healthy status.

Some diseases that can be vaccinated for are:

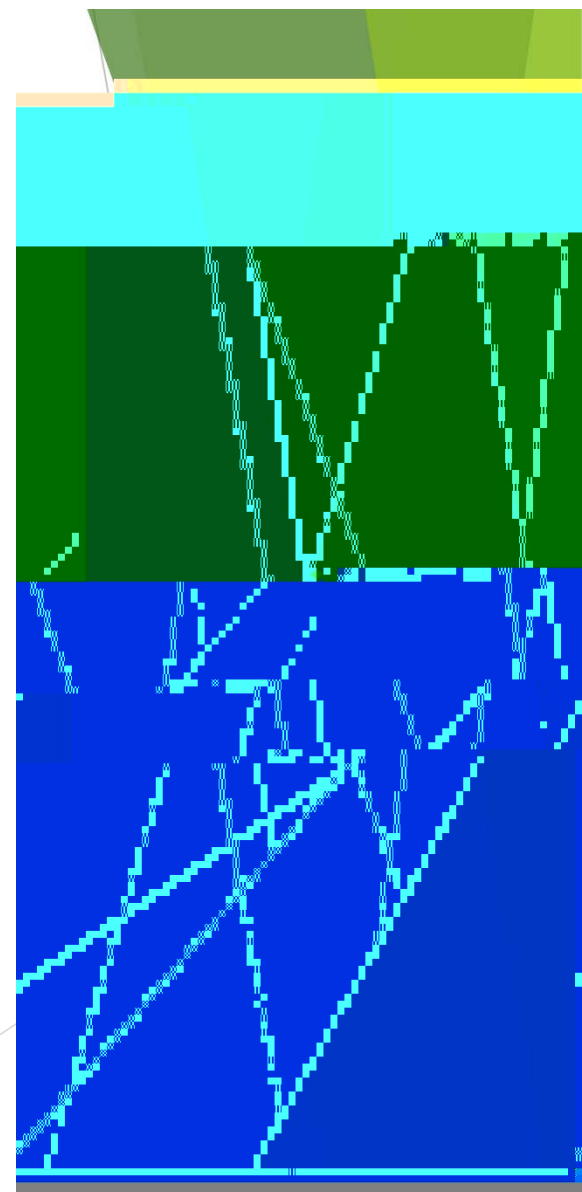
BVD - Bovine Viral Diarrhea - Characterized by a high temperature and diarrhea.

IBR - Infectious Bovine Rhinotracheitis - caused by bovine herpes virus. Acutely contagious characterized by high temperature and abortion.

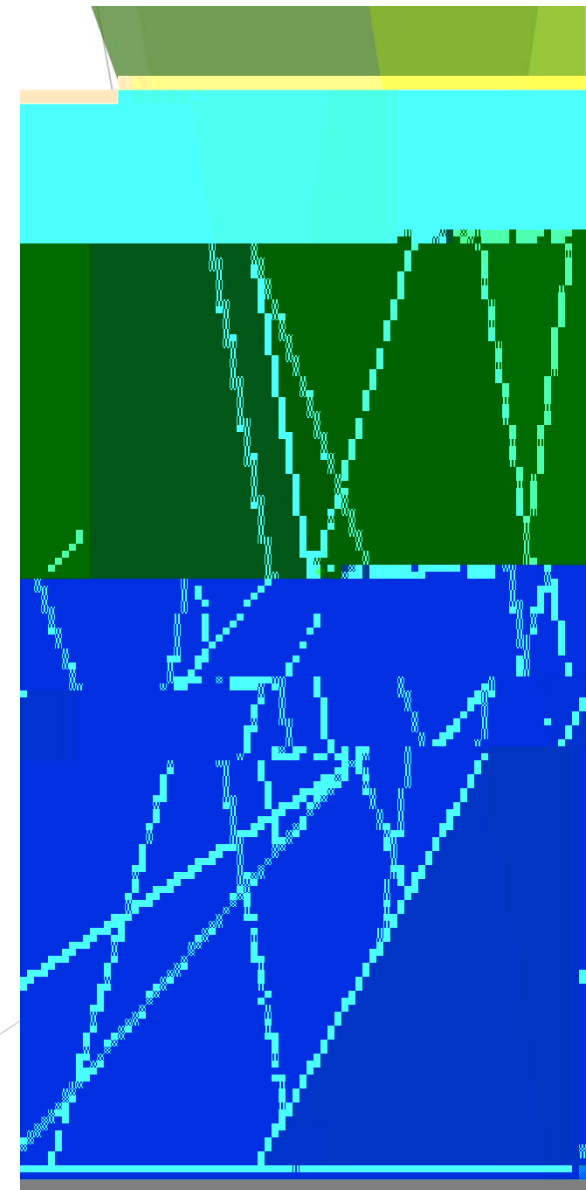
Mastitis - characterized by physical, chemical and microbiological change in the milk. Caused by bacteria, mycoplasma, fungus, dirty milking equipment and environment. You can vaccinate for staphylococcus aureus only.

Rabies - viral disease common in dogs, raccoons, fox, rats and other wildlife. Transmitted when bitten by an animal carrying the disease as it resides in the saliva.

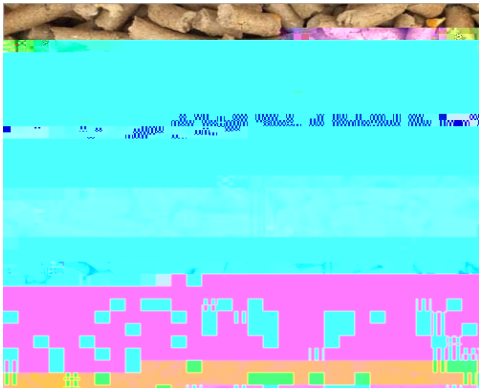
Fresh cows - should be monitored for milk fever, ketosis, retained placenta, displaced abomasum and high temperature. She can be treated for all of these symptoms.



Video - Animal Health



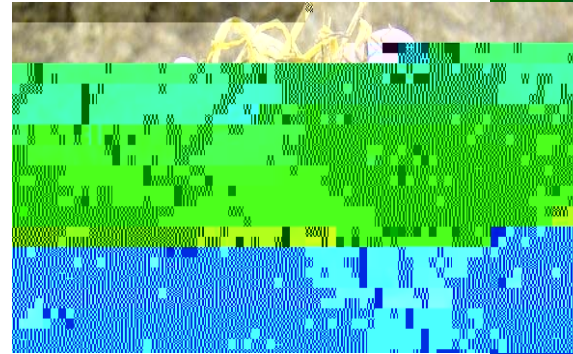
Dairy Cattle Feed



Grain

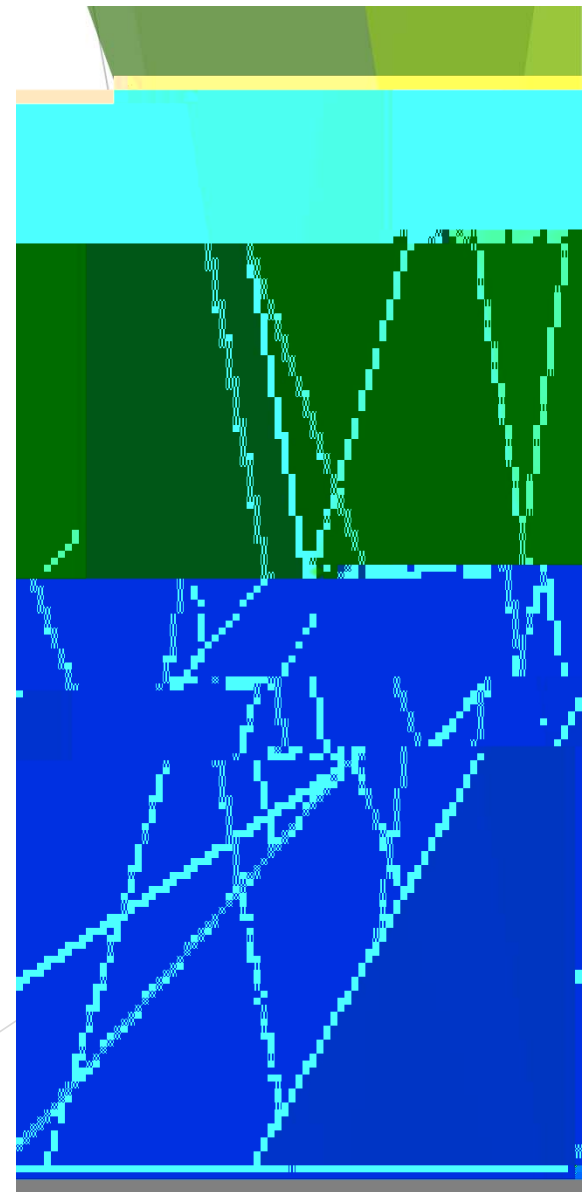


Corn Silage

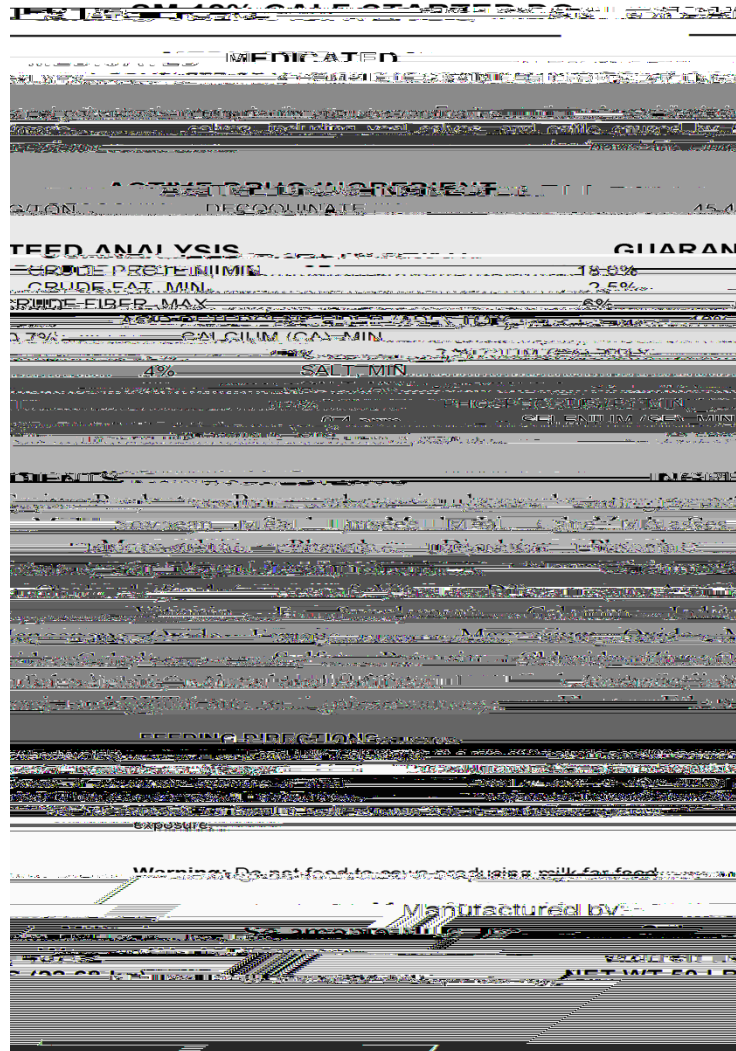
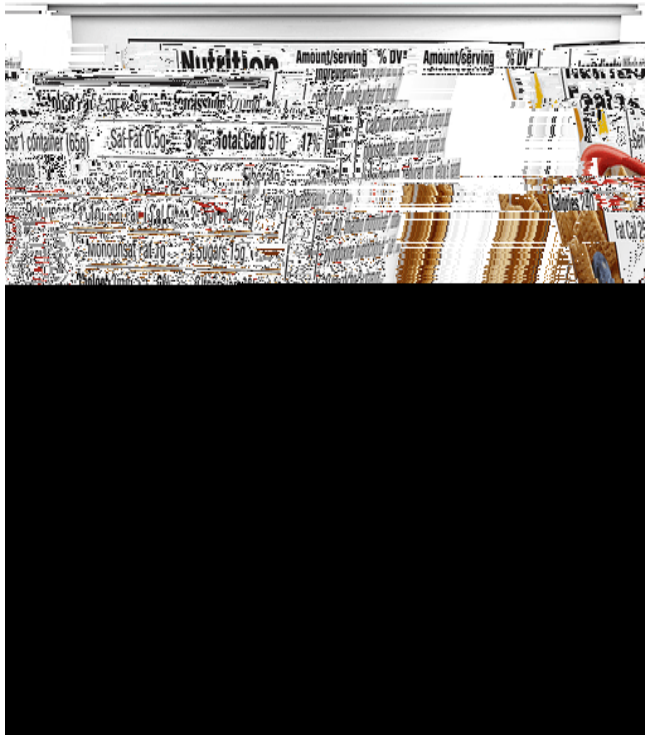


Grass silage

A TMR (Total Mixed Ration) is created by following a recipe formulated by a dairy nutritionist that specifies how many pounds of each feedstuff to place into the mixer wagon. The mixer then mixes all the ingredients to form a uniformly mixed feed.



Food label versus feed tag

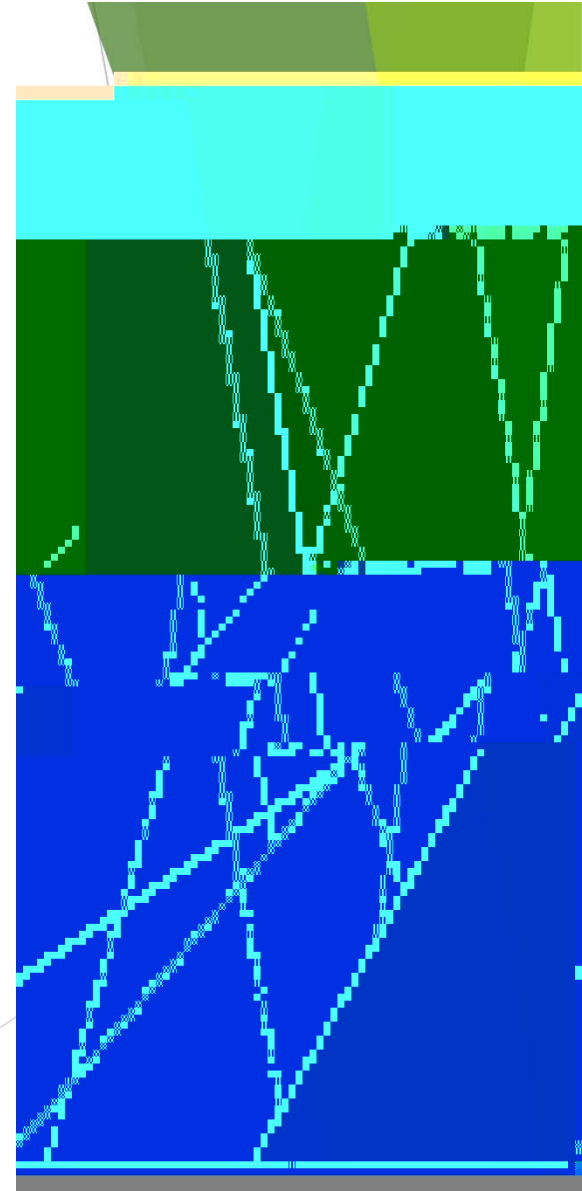


My Food Plate



What is TMR?

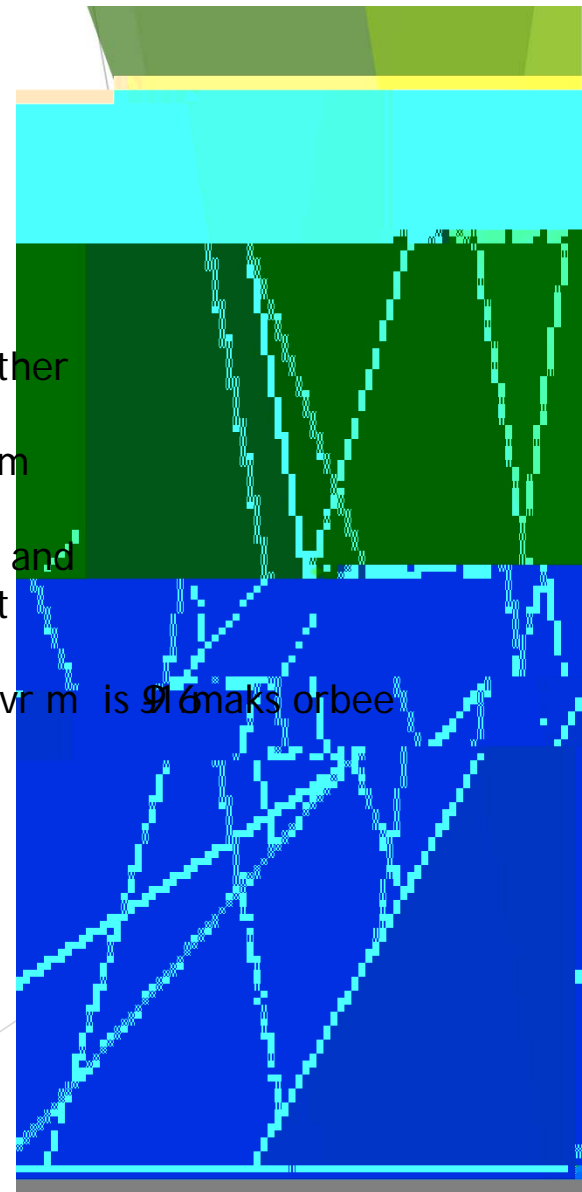
Total Mixed Ration - this is a balanced meal specifically for that particular farm. It is based on feed samples taken at the farm and tested for the nutrients within.



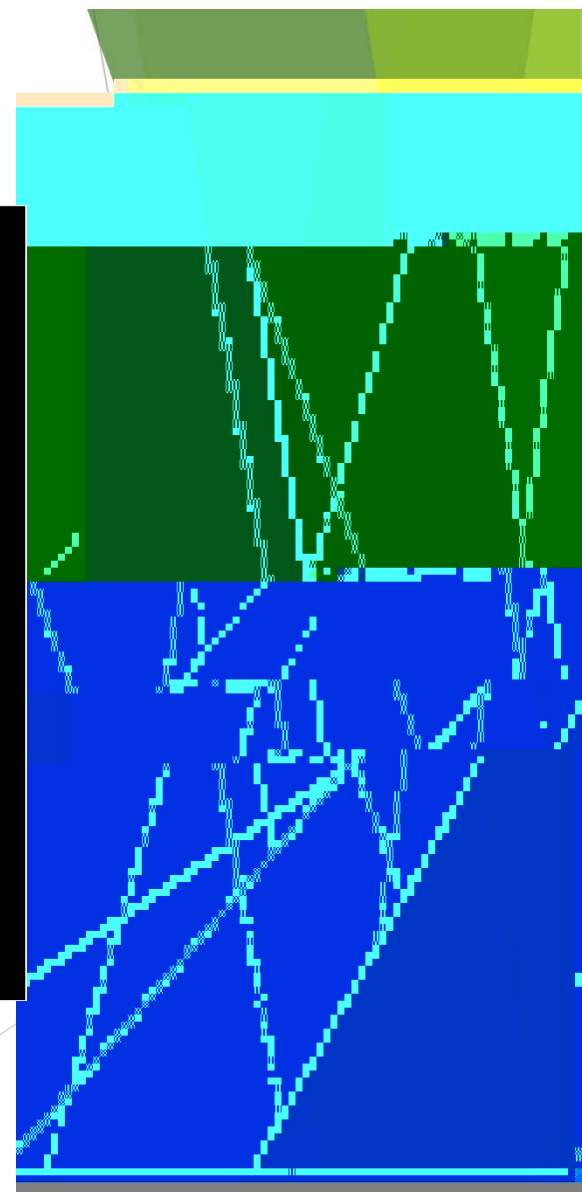
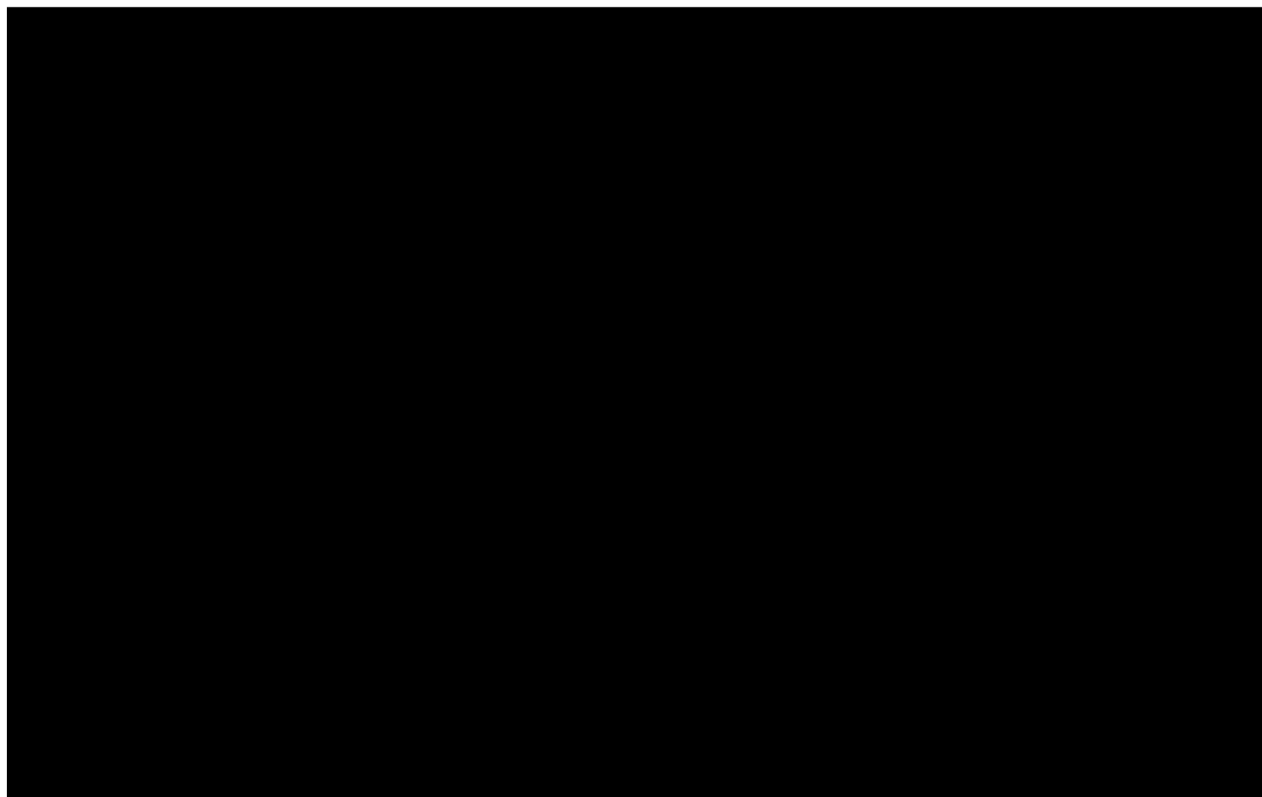
Some examples of human by-products used for animal food include:

- Wheat middling's - generated while processing wheat for flour.
- Grain products (hulls, bran, germ, gluten meal, grits and meals) - from other grain processing operations.
- Peels, rinds, pomace, pulp, culls, or other similar material generated from processing fruits or vegetables for human consumption.
- Human food such as potato chips, cookies, bread, pastry products, candy and pasta that is not adulterated and is safe for use as animal food, but is not acceptable as human food for quality reasons.

‡ wheat midBrewers cessining leftov m is 916maks orbee



Mixing of a TMR



Career paths in Nutrition and Animal Health

Veterinarian

Vet assistant

Herd manager

Herd health manager

Animal health representative

Calf manager

Dairy nutritionist

Dairy feed sales rep

Feed lab analysis

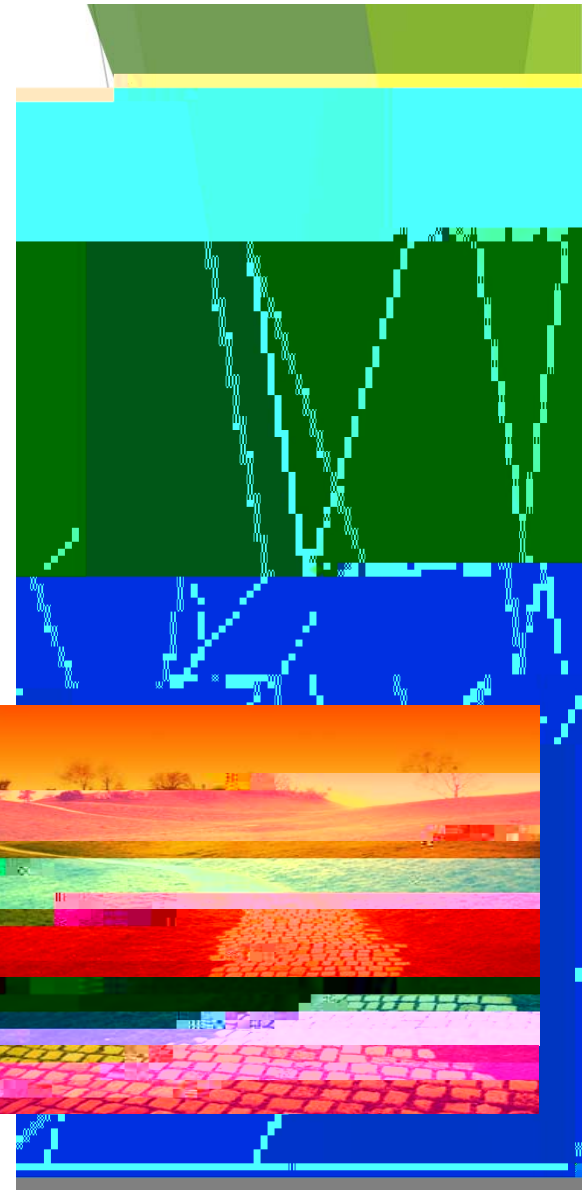
Farm feeder tech- TRM or other

Feed mill operator/worker

Feed truck driver/mechanic

Commodities supplier

Data analyst



Resources:

<https://nationaldairyfarm.com/dairy-farm-standards/animal-care/>

<https://www.myplate.gov/>



THE UNIVERSITY OF VERMONT

