**VDACS Dairy Services:** 

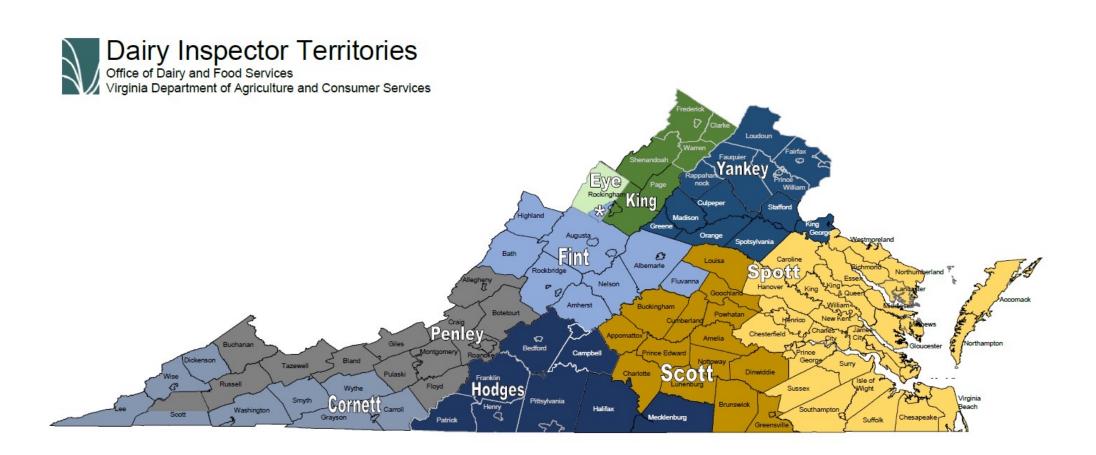
## Keeping your dairy udder-ly safe!

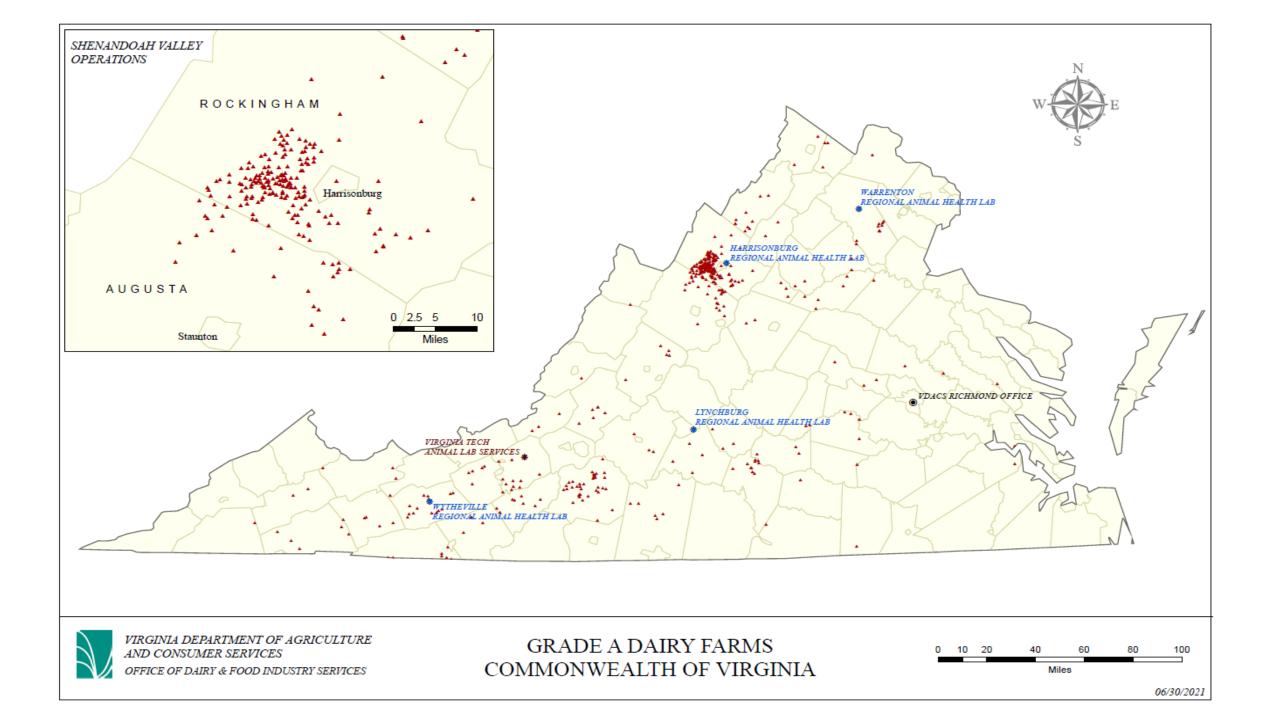
Hunter Moyer Dairy Services Program Supervisor

## Who are we?



### Where are we?







# What do we do?

#### Inspections

Sampling

Enforcement

**Equipment Review** 

Label Review

Consultations

Promotion / Education



## **Rules and Regulations**

Milk and Dairy Products are some of the most highly regulated <u>and safest\*</u> foods in the nation.

- <u>2VAC5-490 Regulations Governing Grade "A" Milk</u>
  - 2017 Edition of the Grade "A" Pasteurized Milk Ordinance
- <u>2VAC5-501 Regulations Governing the Cooling, Storing, Sampling and</u> <u>Transporting of Milk</u>
- <u>2VAC5-510 Rules and Regulations Governing the Production, Processing,</u> and Sale of Ice Cream, Frozen Desserts, and Similar Products
- <u>2VAC5-520 Rules and Regulations Governing Testing of Milk for Milkfat,</u> <u>Protein, and Lactose Content by Automated Instrument Methods</u>
- <u>2VAC5-531 Regulations Governing Milk for Manufacturing Purposes</u>

\* Raw milk not included!

## From Cow to Cup!

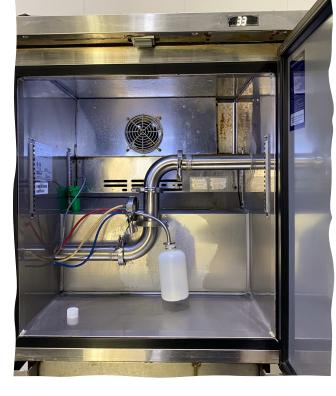
Farms

- 350 Grade "A" Farms (1 goat)
  - Including 22 Robotic Dairies!
- 18 Manufactured Grade Farms (7 cow farms, 9 goat farms, and 1 sheep farm)
- Inspected a minimum of twice per year (83 items)
- Water sampled every 2 years for private well systems
- Raw Milk sampled a minimum of 4 out of every 6 months
  - FDA/PMO Grade "A" Cow Standards : <750,000 SCC/mL ;</li>
    <100,000 SPC</li>
  - Virginia Grade "A" Cow Standards: <500,000 SCC/mL;</li>
    <50,000 SPC</li>
  - Antibiotic Residues a huge deal in the dairy industry!
  - Random Sampling:
    - Radiological
    - Aflatoxins
    - Brucellosis
    - Tuberculosis

Date <u>MARCH 5, 1974</u> 9:30 P.M. (Name of Firm) (Owner or Manager) ent on VA An official-inspection made today of MILIN From Your SUPPLY Collected 3-4-74 (9:50A) (Address) Shows that you are violating VIrgINIA MILK AND CREAM LAWS ).... as follows: Laboratory tests show that the milk was Adulterated with ANTIBIOTIC RESIDUES Remarks: Your Grade A "Permit is suspended. w. J. Farley MILA DISCARDED 2558165 (3 MILKINgs) ands washed clean and dried before milking, or performing milkhouse functions; reveashed when contaminated UTENSILS AND EQUIPMENT 9. Construction: 10) Smooth, nonabsorbent, corrosion-resistant, non toxic materials; easily cleanable: seamles hooded pails..... · · · · · · · · · · · · (a) . . . . MILKHOUSE OR ROOM COOLING In good repair; accessible for inspection ......(b).... 19. Cooling: Temperature gauge \_\_\_\_\_o Milk \_\_\_\_\_ Milk cooled at 50° F. or less, within 2 hours after milking; maintained thereat until delivered ...(ā)... 5. Construction and Facilities: Approved single-service articles; not reused .....(c).... Floors Strainers, approved design.....(d).... VEHICLES 20. Vehicles: Graded to drain .....(b)... 10. Cleaning: Drains tropped, if connected to sanitary system .... (c) ... Walls and Ceilings 11. Sanitization: No contaminating substances transported .....(c)... Approved moterial and finish ..... INSECTS AND RODENTS Good repair (windows, doors, and hose port included) . (b) . . 21. Insect and Rodent Control: 12. Storage: Fly breeding minimized by approved disposal methods (see Regulation) .....(a).... Lighting and Ventilation Manure packs properly maintained .....(b).... Adequate ventilation .....(b)... Doors and windows closed during dusty weather ....(c)... Single-service articles properly stored ......(c).... Vents and lighting fixtures properly located .....(d)... 13. Handling: Approved pesticides; used properly .....(e) .... Sanitized milk contact surfaces not exposed to contamination Miscellaneous Requirements · · · · · · · · · · · · · · · (a) . . . Equipment and utensils not exposed to pesticide contamination ......(f)... MILKING Surroundings neat and clean; free of harborages (9) X 14. Flanks, Udders, and Teats: Milking done in barn, stable, or parlor ... .... (a). CONTACT YOUR INSPECTOR PRIOR TO INSTALLING EQUIPMENT OR ALTERING CONSTRUCTION OF FACILITIES. Liquid wastes properly disposed of .....(c).... 2 CLEAN UP IN Eld milking bARN. Remarks: D Inspector W.J. Forley Date 2 - 18 - 74









## From Cow to Cup!

#### **Milk Cooperatives**

 With the exception of producer/processors, most milk in Virginia is sold through a milk marketing cooperative in order to achieve the best price for a farmer's milk. The co-op decides which plant to send the milk to, and who will pick the milk up at the farm, so the farmer can focus on his farm and herd.

#### From Cow to Cup!

### Hauler/Samplers

- 255 Bulk Milk Hauler / Samplers
- Evaluated a minimum of every 18 months (50 items)

Proper regulatory training is crucial because the hauler/sampler directly affects how much the producer (farmer) is paid for their milk!







#### From Cow to Cup!

#### <u>Tankers / Transfer &</u> <u>Wash Stations</u>

- 96 Tankers
  - Inspected a minimum of once a year (33 items)
- 4 Wash Stations / 1 Transfer Station
  - Inspected a minimum of every 6 months

#### From Cow to Cup!

#### <u>Milk Processing</u> <u>Plants</u>

Where the magic of pasteurization happens!

- 16 Grade "A" Processing Plants
- Inspected a minimum of 4 times per year (83 items)
- Quarterly Pasteurization Equipment Verification Checks
- Water sampled every 6 months for private well systems
- Pasteurized milk sampled a minimum of 4 out of every 6 months per product
  - FDA Standard : **<10** Coliform/mL ; **<20,000** SPC
  - Antibiotic Residues
  - Phosphatase

Virginia is a "Split State" !

The Virginia Department of Health oversees Grade "A" fluid processing plants through an MOU with VDACS



### From Cow to Cup!

Ice Cream / Frozen Dessert Processing Plants

- 40 Ice Cream / Frozen Dessert Manufacturing Plants / Wholesalers
- Inspected a minimum of 4 times per year (37 items)
- Label Review
- Water sampled a minimum of every 6 months for private well supplies
- Finished Product sampled a minimum of 4 out of every 6 months
  - Coliform: <10/g for plain; <20/g for bulky flavored products
  - Standard Plate Count: <50,000/g
  - Phosphatase
  - Random Testing:
    - VIDAS: Salmonella, Campylobacter, E Coli 0157, Listeria
    - Fats/Solids



### From Cow (or Goat) to Plate!

<u>Cheese /</u> <u>Butter</u> <u>Manufacturing</u> <u>Plants</u>

- 44 Cheese / Butter Manufacturing Plants
- Inspected a minimum of 4 times per year (37 items)
- Quarterly Pasteurization Equipment Verification Checks
- Label Review
- Water sampled a minimum of every 6 months for private supplies
- Finished products sampled a minimum of 4 out of every 6 months
  - Phosphatase (pasteurized cheeses and butter only)
  - VIDAS: Salmonella, Campylobacter, E Coli 0157, Listeria
  - Antibiotic Residues (if applicable)
  - Random Testing:
    - Staph Aureus
    - Coliform

#### From Cow (or Goat) to Plate!

#### <u>Cheese Manufacturing</u> <u>Plants</u>

- Cheeses can be made from pasteurized milk or properly aged raw milk (above 35°F for a minimum of 60 days or the minimum number of days specified under the standards of identity for the specific variety of cheese)
- Cheeses MUST follow their Standard of Identity or cannot be sold as a standardized product.
  - Can be sold as a "style" or fanciful name
- Small scale exemptions



## DID YOU KNOW?

It takes 10 pounds of milk to make 1 pound of cheese! 

#### Other Things We Do

- Equipment Review
- Label Review
- Consultations
- Promotions/Education

How do I prepare to sell at a farmer's market?

- Must be permitted by VDACS Dairy Services or VDH (fluid milk)
  - Or another state's regulatory authority
- Must be in good standing
- No active recalls for products being sold at the market
- New products must be sampled and held from sale until results are received back as negative for pathogenic growth, and within other safe regulatory levels

I'm finally set up at the Farmer's Market!

Now what?

- Almost all dairy products are considered a TCS (time/temperature control for safety) Food
  - Must be held below 41°
    F; or
  - Marked when taken out of refrigeration and sold, served, or destroyed within 4 hours.
    - This pertains to free samples, too!



What dairy products can't I sell? 2VAC5-490-75. Sale of unpasteurized milk for human consumption prohibited.

No person may offer to sell or sell, barter, trade, or accept any goods or services in exchange for unpasteurized milk if the unpasteurized milk is intended for human consumption.

Statutory Authority § <u>3.2-5206</u> of the Code of Virginia. What dairy products can't I sell?

#### Any dairy products made without a permit!

Grade "A": 2VAC5-490-30. Permits.

A. No person may produce, provide, manufacture, sell, offer for sale, or store in the Commonwealth, or bring, send, or receive into the Commonwealth, any milk, milk product, or condensed and dry milk product for use in the commercial preparation of grade A pasteurized, ultra-pasteurized, aseptically processed and packaged, or retort processed after packaging milk or milk product unless the person possesses a grade A permit from the state regulatory agency. Nothing in this chapter shall be deemed to require a person who is a broker, agent, or distributor's representative to have a grade A permit if the person buys condensed and dry milk product for, or sells condensed and dry milk product to, a milk plant that has a valid grade A permit from any state.

Ice Cream: 2VAC5-510-420. Issuing, suspension and revocation of permits.

A. It shall be unlawful for any person who does not possess a permit from the Virginia Department of Agriculture and Consumer Services to bring into, send into, or receive into the Commonwealth of Virginia for sale, or to sell, or offer for sale therein, or to have in storage with intent to offer for sale or sell frozen desserts or frozen desserts mix identified in this chapter: Provided, that grocery stores, restaurants, soda fountains, and similar establishments where frozen desserts or frozen desserts mix are regularly served or sold at retail, but not processed, may be exempt from the requirements of this chapter.

#### Cheese/Butter: 2VAC5-531-50. Permits.

B. No person may produce, process, manufacture, handle, package, reprocess, repackage, rework, offer for sale or sell any manufactured dairy product in the Commonwealth of Virginia unless the person possesses a permit from the Virginia Department of Agriculture and Consumer Services. The requirement for a permit shall not apply to (i) any person's establishment where a manufactured dairy product is served or sold at retail, so long as the manufactured dairy product is not produced, manufactured, reprocessed or reworked at the establishment; (ii) any person who distributes and does not process manufactured dairy product; or (iii) any person producing manufactured dairy product outside the Commonwealth of Virginia.

## How do I know if a vendor is permitted to sell dairy products?





We can answer questions about dairy vendors, manufacturers, and producers from outside of Virginia, too!

### **Remember to thank a farmer!**



Find out more at:

