



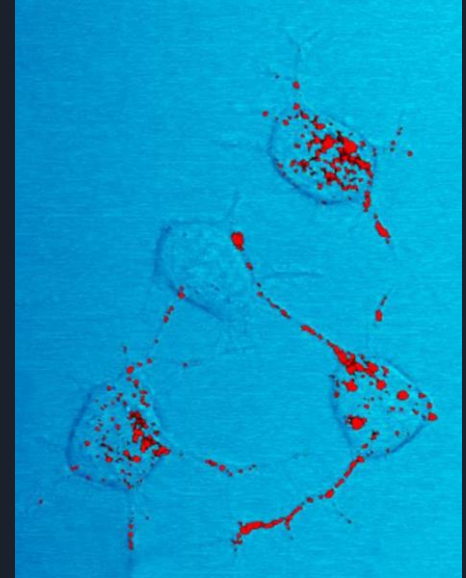
Help Eradicate Scrapie!

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What is Scrapie?

Scrapie is:

- A contagious prion (mutated protein) disease that affects sheep and goats
- **Fatal!!!**
- There is no cure or treatment



Scrapie prion proteins (red) in the brain cells of a mouse.
Photo credit National Institute of Allergy and Infectious Diseases (NIAID)

What are the Symptoms of Scrapie?

Symptoms may appear different in each animal but include:

- Changes in behavior
- Tremors
- Excessive scratching
- Lack of coordination
- Weight loss even though they are eating
- Biting limbs
- Lip smacking
- Strange movements including high-stepping, rabbit hops, and swaying in the back end



How is Scrapie Spread?

Researchers think that it is spread through contact with

- Placenta
- Placental fluids
- Milk
- Colostrum

Scrapie is not killed by the normal sterilization process!



Will I Know if my Goat or Sheep has Scrapie?

- It spreads very quickly , but symptoms may not appear for 2-5 years!
- That's why it is important to comply with the Scrapie Eradication Program, so we can track goats and sheep that have been in contact with infected animals



Learn how to help eradicate scrapie next!



Keep Good Records!

Because scrapie spreads so fast, farmers will need proper record keeping so that the disease can be traced back to the original farm and stopped.

Every animal will need some kind of identification, like a ear tag, tattoo, or a microchip.

Keep track of:

- Where the animal was born (Premise ID)
- If they were moved
- Who they breed with
- Flock ID
- Breed and class
- Official ID numbers
- Whether the animal is labeled with a “Slaughter Only” or “MEAT” identification devices





Register to get Scrapie Tags!

First, you need a Scrapie Flock ID and Premise ID!

You can get them from:

Your State
Veterinarian

Your State
APHIS/VS office

Or call
1-866-USDA-TAG
(866-873-2824)

Once you have these IDs, you can get Scrapie tags!

Approved tags to keep your sheep and goats compliant with the Scrapie Eradication Program

Visual Ear Tags



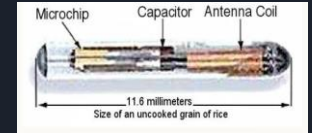
RFID Ear Tags



Registry Tattoos with Registration Papers



Microchip*



*If you use a microchip, you **must** tattoo the animal's ear with "E" if the chip is implanted at the base of the ear or "ET" if it is implanted in the tail fold or the ear is too small

See the AGF website for more information on these methods as well as tagging earless goats or dangerous goats for slaughter

Want to help even more? You can have genetic testing done on goats!

Scientists have identified four potential alleles (genetic markers) that may indicate resistance to Scrapie!

- N146 (asparagine at amino acid 146)
- S146 (serine at amino acid 146)
- K222 (lysine at amino acid 222)
- Q222 (glutamine at amino acid 222)



You can have this test performed at UC Davis & American Dairy Goat Association offers discounts on Scrapie tests to their members!

Why must producers follow Scrapie regulations?

- To export goats or goat products to Canada and many European Countries
- To help track Scrapie and other infectious diseases in sheep and goats
- To protect a producer if a scrapie-positive animal comes from their herd



Stay in the loop!

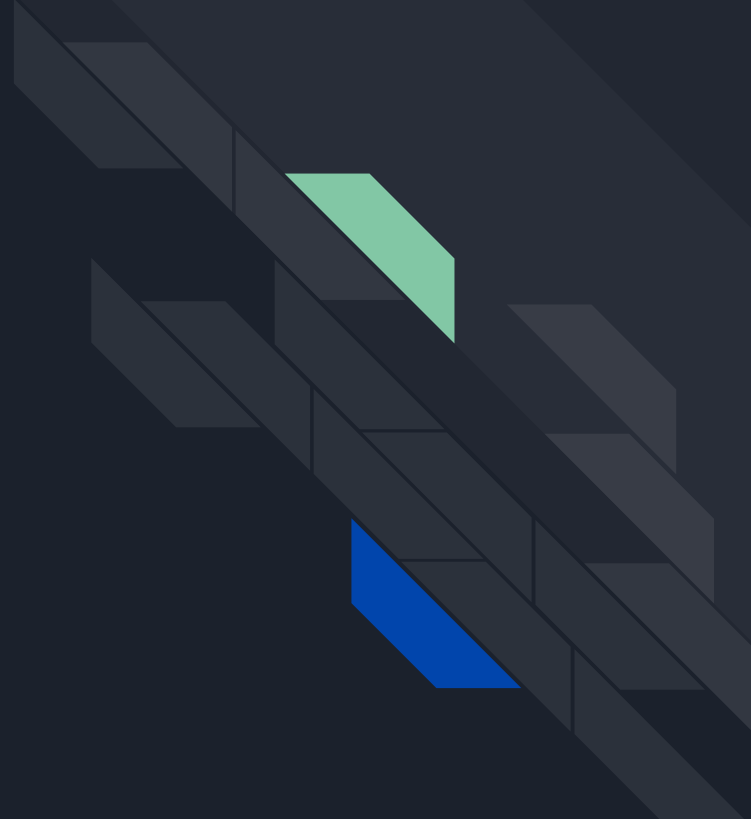
In 2019 the basic scrapie regulations were updated

Check in often with your vet and consult the AGF and APHIS websites so that you know the most up-to-date information to help eradicate Scrapie!



The End

I hope that you learned something from these slides and that you help us eradicate scrapie!





Works Cited

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