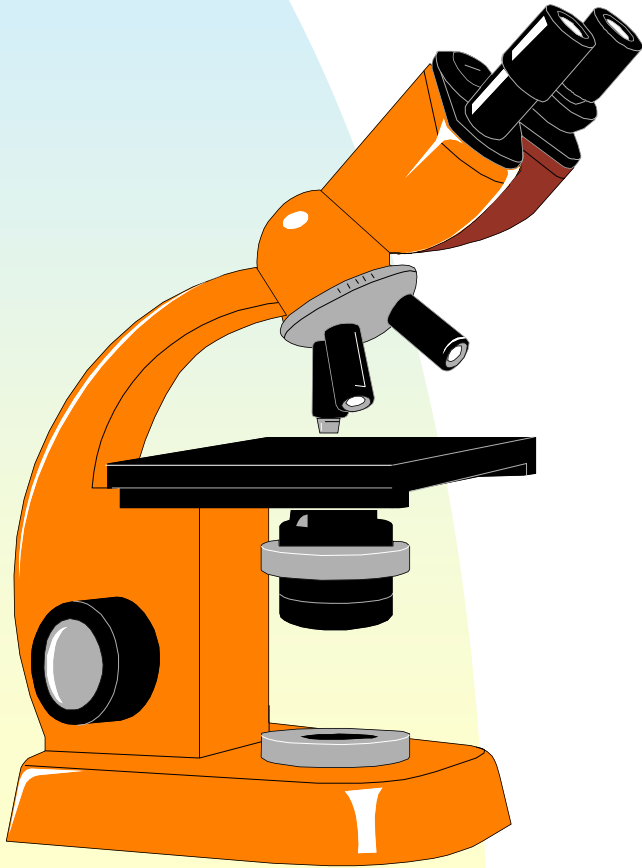


Bio-Security

Issues and Answers



By Scott Taylor, California DHIA

Why the Fuss?

- We Are No Longer “Isolated” or “Closed” Herds
- Expansion of Dairy Herds in Past Years
 - ☞ purchasing close-up’s (no isolation time)
 - ☞ purchasing youngstock from calf ranches
- Concentration of Animals on Dairy Facilities
 - ☞ free stalls vs. “loose” or drylot housing
- Calves Raised “Off-Site” in Contact With Animals From Many Herds
- Availability of International Travel and Visitors

“The Big Four”

- **Johnne’s Disease**
- **Mad Cow Disease (BSE)**
- **Bovine Tuberculosis (bTB)**
- **Foot and Mouth (FMD)**

Johnne's Disease

- Serious Threat to Dairy Industry
 - ☞ Always thought of as an “Eastern U.S. Problem”
- “Positive” Cows in Western U.S.
 - ☞ 80% of Herds Could Be Affected
- Link to Wasting Disease in Deer and Elk
- Link to Crohn's Disease in Humans??

Mad Cow Disease (BSE)

- 2 Confirmed Cases in US (WA, TX)
 - ☞ Both Had Canada Link
 - ☞ No Downer Cows being Slaughtered
- Strict Rules in place within the U.S. for feeding of meat and bone meal
- Confirmed link has been found to Creutzfeldt Jacobs disease in Humans
- Human Blood Supply Being Monitored

Bovine Tuberculosis (bTB)

- **Big Cluster Around El Paso Texas**
 - ☞ Recently de-populated after many years of quarantine
 - ☞ De-populated Arizona Herd (2,700+ Animals)
- **Tulare & Kings County Herds in 2000**
 - ☞ De-populated about 10,000 cows
- **Fresno Herds Found in 2008**
 - ☞ 2 Herds de-populated
 - ☞ 2 Herds quarantined
- **Cow to People - Difficult to Spread**

Foot and Mouth Disease (FMD)

◆ 32 Countries Worldwide w/Active Cases

- 👉 Recent Outbreaks in South America, Europe, Great Britain, and Saudi Arabia.
- 👉 England, France, the Netherlands and Ireland.

◆ 7 Known Strains w/Sub Viruses

- 👉 Vaccination a problem because of mutations
- 👉 Vaccinated cows become lifetime “reactors”
- 👉 **NO treatment or cure**
- 👉 **Burn and bury**

Known Outbreak Countries

Argentina	Japan	Namibia	Tajikistan
Bhutan	Kazakhstan	Peru	Turkey
Brazil	Korea	Philippines	U.K.
Columbia	Kuwait	Russia	Uruguay
Egypt	Malawi	Saudi Arabia	Zambia
Greece	Malaysia	South Africa	Zimbabwe
Iran	Mauritania	Swaziland	*Netherlands
Israel	Mongolia	Taiwan	*Ireland

How is it Spread?

- **Air-Borne or Feed-Borne**
- **Water, Soil, Saliva, Feces**

👉 ***Extremely Mobile !***

- **Very Contagious**

👉 Symptoms manifest themselves usually within 48 hours of exposure

Bio-Security What Can DHIA Do?

■ Clothing

■ Clean Coveralls - Every Dairy

☞ Laundry Bag for Soiled Clothing

☞ Wash Hands, Arms and Face

☞ Pay Attention to Jackets & Hats!!

- Wear Sweatshirts and Sweaters Under Coveralls

- Rinse Hats & Rotate

- Disposable Latex Gloves

Bio-Security What Can DHIA Do?

■ Rubber Boots

■ Sanitized Before and After Each Dairy

👉 Brushes & Sanitizer

👉 Use Boots for Herd Testing Only

👉 Stay in Designated Job Areas Only

👉 Check and Scrub the Bottoms

👉 Wear Shoes for Travel to and from the Dairies

Bio-Security What Can DHIA Do?

- **Clean Vehicles & Equipment**
 - ☞ Designated Area for Vehicle Parking
 - ☞ Don't Drive Through Feed Areas, Flush Lanes or Cattle Walkways
 - ☞ Clean Tires, Boots, Meters?
- **Think, Think, Think!**
- **You Can Make a Difference!**