**Dairy Cattle: Got Milk?**

1. What is the name of the toothless skin on the top of a cow’s mouth?

**Pad**

1. True/**False**: There are approximately 9 ~~billion~~ (million) dairy cows in the United States?
2. What are the two most popular dairy breeds discussed in this presentation?
3. **Holstein**
4. **Jersey**
5. Which breed is known for producing approximately 20,000lbs of milk in 305 days (the highest average for any breed)?

**Holstein**

1. Which breed is known for high butterfat content in their milk?

**Jersey**

1. Which breed is known for longevity and is from Switzerland?

**Brown Swiss**

1. Which breed is known for its golden milk color?

**Guernsey**

1. Which breed is known for being excellent grazers?

**Ayrshire**

1. What causes a cow to lactate? When does lactation start and how long does it last?

**A calf, starts after parturition and stops about 10 months later**

1. What are the three main milking parlors used in dairy production?
   1. **Parallel**
   2. **Herringbone**
   3. **Rotary**
2. What does the hormone oxytocin do to mammary tissue?

**Causes it to contract**

1. What are alveoli in mammary tissue?

**Sacs that store milk**

1. Describe the five steps involved in the milk ejection process (include hormones and part of the body involved with each step)
   1. **The calf suckles the teat on the udder, stimulating a neural response**
   2. **The neural response is transmitted to the spinal cord via nerves**
   3. **The brain (specifically hypothalamus) receives the message and causes the posterior pituitary gland to release oxytocin**
   4. **Oxytocin is transmitted through the bloodstream back to the alveoli in the mammary tissue**
   5. **Oxytocin contracts the alveoli and milk is ejected**
2. What is mastitis?

**Mastitis is inflammation of the udder due to a bacterial infection**

1. What is ketosis?

**Ketosis is energy shortage due to metabolic problems**

1. What is milk fever?

**Milk fever is low blood calcium levels, causing muscle weakness**

1. What is the name of the controversial hormone used in the dairy industry to increase lactation production?

**bST (bovine somatotropin)**