



# Bison Weights Over Time

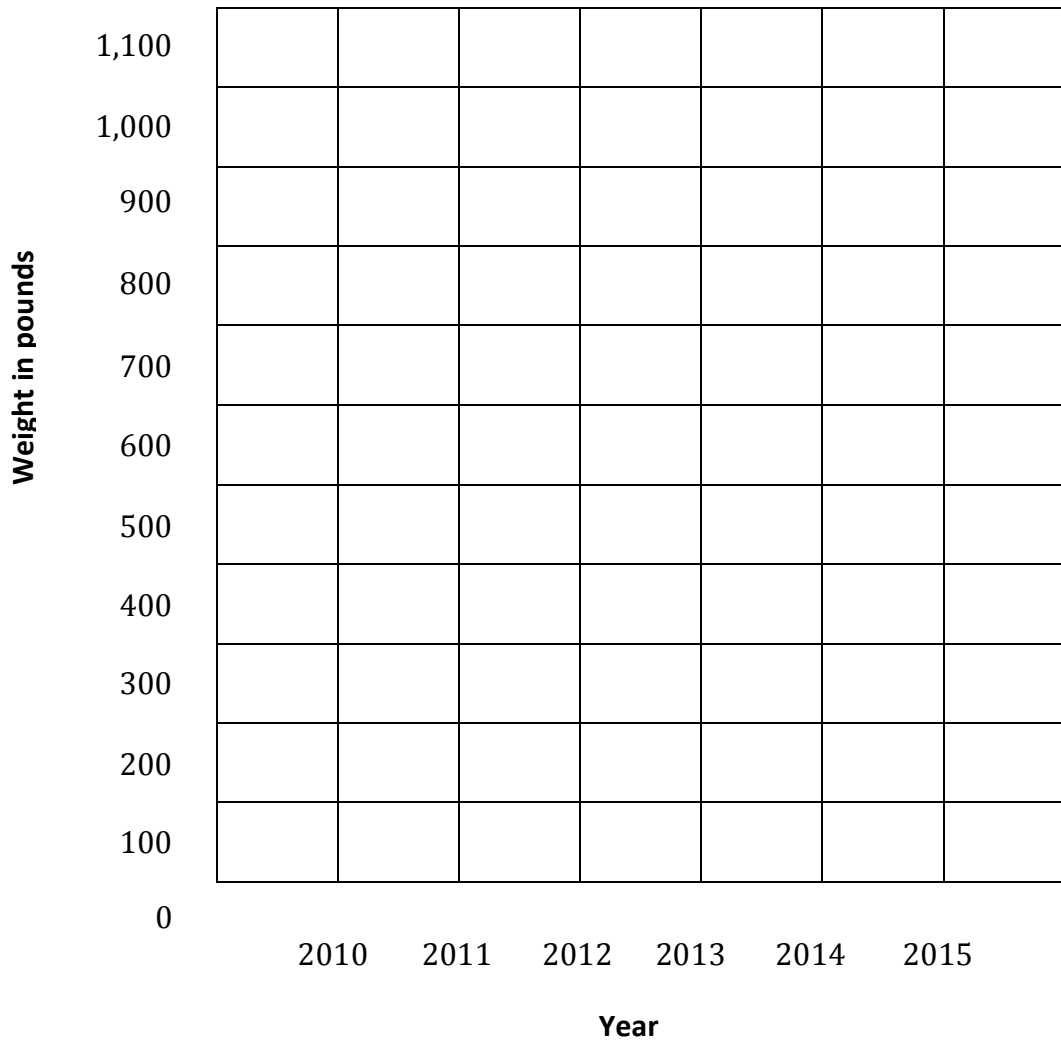


Refer to the data on the bison weights taken from 2010 – 2015 and answer the questions below:

1. What is the average weight of the female calves in 2010?
2. What is the average weight of male calves in 2010?
3. What is the difference between the average female calf weight and the average male calf weight? Why do you think there is a difference?
4. How many calves disappeared from the data after their first year?
5. Hypothesize on what you think happened to the missing calves:
6. How old is adult cow #Y-411 in 2010?
7. Adult cow #Y-328 lost weight between 2011 and 2012. Hypothesize as to why you think that happened? How much weight did she lose?
8. Find the maximum weight of an adult cow. Then find the minimum weight of an adult cow. Hypothesize on why adult cows might be of different weights.
9. According to the data do adult cows continue to gain weight as they age?
10. Do the bulls continue to gain weight as they age?

11. If you were the manager of the Konza Prairie bison herd would you keep bison cows that were losing weight or would you sell them?
  
12. Refer to the weight of Y-941. Graph how the weight of this cow changes over the years on the table below:

**The Weight of Bison Cow Y-941 over 6 Years**



13. After looking at the data you graphed, what prediction can you make about the weight of Y-941 in 2016?