Draft 1

Annotated Bibliography

With the amount of human growth hormones being fed to animals to increase their growth and body mass as fast as possible, we see many different undesirable side effects. These animals are having their DNA, genetics, and basic body structure altered. This article focuses on these keep points and gives charts and graphs showing how these have changed in each of the trials. It shows that overall there are negative effects on the cattle and chickens that are used in the study, these animals will always pass on these genes and shows which hormones are causing these adverse effects.

Works Cited:

Rauw, W.M. "Undesirable side effects of selection for high production efficiency in farm animals: a review." Department of Animal Science. Agricultural University of Norway, July 1197-April 1998. Web. 19 Nov. 1998. www.sciencedirect.com/science/article/pii/S030162269800147X.

Draft 2

Rauw, W.M, et al. "Undesirable Side Effects Of Selection For High Production Efficiency In Farm Animals: A Review." *Livestock Production Science* 56 (1998): 15-33. *ScienceDirect*. Web. 24 Sept. 2014.

This article shows the amount of human growth hormones being fed to animals to increase their growth and body mass as fast as possible. Researchers see many different undesirable side effects. These animals are having their DNA, genetics, and basic body structure altered. This article focuses on these key points and gives charts and graphs showing how these have changed in each of the trials. The article shows that overall there are negative effects on the cattle and chickens that are used in the study, these animals will always pass on these genes and shows which hormones are causing these adverse effects. This is an important study and I will use it in my research project.

Draft 3

Rauw, W.M, et al. "Undesirable Side Effects Of Selection For High Production Efficiency In Farm Animals: A Review." *Livestock Production Science* 56 (1998): 15-33. *ScienceDirect*. Web. 24 Sept. 2014.

This article documents the increase in genetic selection in order to improve production in various farm animals. In general, animals' DNA and basic body structure are altered based on the most desirable traits for a certain animal. With the amount of human growth hormones being fed to animals to increase their growth and body mass as fast as possible and many different undesirable side effects are noted by the authors. This article focuses on these key points and gives charts and graphs showing how these have changed in each of the trials. It also shows that overall there are negative effects on the cattle and chickens that are used in the study, these animals will always pass on these genes and shows which hormones are causing these adverse effects. This study was conducted by some of the foremost researchers in genetic selection; therefore, this journal article will serve as a cornerstone in my project on the potential hazards of decreasing gene pools on family and factory farms. This article is balanced in its assessment of small gene pools and though it does mention potential side effects stemming from the practice, it also notes that these undesirable effects may or may not occur. This is important because so far my research has been very biased for or against the practice.

Draft 4

Rauw, W.M, et al. "Undesirable Side Effects Of Selection For High Production Efficiency In Farm Animals: A Review." *Livestock Production Science* 56 (1998): 15-33. *ScienceDirect*. Web. 24 Sept. 2014.

The authors of this article document the increase in genetic selection in order to improve production in various farm animals With the amount of human growth hormones being fed to animals to increase their growth and body mass as fast as possible, many different undesirable side effects are documented in this study. In general, animals' DNA and basic body structure altered based on the most desirable traits for a certain animal. These model animals are then bred whereas animals with undesirable traits are not. The authors conducted several studies to analyze the changes that occur as a result of genetic selection and the decrease in gene pools on farms. They note that some effects of this procedure could have dire consequences on the small pool of animals as a result of genetic selection the future. However, the authors also note that these consequences are potential and there is no way to know how likely consequences of a small gene pool may occur. This study was conducted by some of the foremost researchers in genetic selection; therefore, this journal article will serve as a cornerstone in my project on the potential hazards of decreasing gene pools on family and factory farms. This article is balanced in its assessment of small gene pools and though it does mention potential side effects stemming from the practice, it also notes that these undesirable effects may or may not occur. This is important because so far my research has been very biased for or against the practice.

Final Draft

Rauw, W.M, et al. "Undesirable Side Effects Of Selection For High Production Efficiency In Farm Animals: A Review." *Livestock Production Science* 56 (1998): 15-33. *ScienceDirect*. Web. 24 Sept. 2014.

The authors of this article document the increase in genetic selection in order to improve production in various farm animals. In general, animals' DNA and basic body structure are altered based on the most desirable traits for a certain animal. These model animals are then bred whereas animals with undesirable traits are not. The authors conducted several studies to document the changes that occur as a result of genetic selection and the decrease in gene pools on farms. They note that some effects of this procedure could have dire consequences on the small pool of animals as a result of genetic selection the future. However, the authors also note that these consequences are potential and there is no way to know how likely consequences of a small gene pool may occur. This study was conducted by some of the foremost researchers in genetic selection; therefore, this journal article will serve as a cornerstone in my project on the potential hazards of decreasing gene pools on family and factory farms. This article is balanced in its assessment of small gene pools and, though it does mention potential side effects stemming from the practice, it also notes that these undesirable effects may or may not occur. This is important because so far my research has been very biased for or against the practice.