ANSC 418 – Assignment 13 – 25 pts.

All conclusions need to be cited with the source of information that they are based on. The group summary needs to be written so that your logic can easily be followed by the producer. Any and all calculations need to be provided typed out and easy to follow.

1. Each group will summarize their findings in type written form.
2. Each group needs to include the following specific information in their summary:
3. Group 1 – Animals
   a. Summary of levels of minerals in calf liver samples (from all years).
   b. Summary of levels of Se in cow blood samples.
   c. Determination of whether or not the levels are indicative of toxicity/deficiency, i.e., comparison to sources of toxicity/deficiency levels.
   d. Any other important information you found that might help solve the case (and the appropriate citations).
4. Group 2 – Feeds & water
   a. Summary of levels of minerals and other nutrients in hay samples (from all years).
   b. Summary of levels of minerals and other nutrients in supplements.
   c. Detailed calculation of average amount of Se intake per head per day.
   d. Determination of whether or not the levels are indicative of toxicity/deficiency.
   e. Any other important information you found that might help solve the case (and the appropriate citations).
5. Group 3 – Overall management
   a. List of potential Se accumulating plants that could be present.
   b. Other potential management issues that could have contributed to the case.
   c. List of “gaps” in information that could help determine the cause.
   d. List of recommended general management procedures.
   e. Any other important information you found that might help solve the case (and the appropriate citations).
6. Group 4 – Mitigation
   a. Potential methods to prevent/alleviate or reduce the problem in the future.
   b. Detailed calculations of how much the potential strategies would reduce Se intake (may need to get with Group 2 on this one).
   c. Develop a plan to evaluate whether or not the mitigation method(s) is actually working or reducing the problem.
   d. Any other important information you found that might help solve the case (and the appropriate citations).