

Wyoming FFA Cowboy Classic Contest 2015
Agricultural Technology and Mechanical Systems
Team Activity: Livestock Production

Event Format:

A. Equipment Provided:

1. Calculator – participants will be allowed to provide their own.
2. Scratch paper for problem solving.

B. Objective:

The team activity evaluates the ability of team members to work together while using decision-making and problem analysis skills by applying concepts taught in livestock production and animal science.

1. Members of a team work together cooperatively to complete this section.
2. Sixty (60) minutes are allowed for completion of the team activity. At the end of the activity, each team submits the completed documents to be scored.
3. The team activity involves the use of construction skills and the resource information.
4. The team activity has a maximum value of 400 points per team and is only included in the team score
5. All team members must be involved in the team activity to receive credit. If a team has two or less participants no credit will be allowed in the team portion of the event.

Directions:

Work as a group to complete parts A, B, and C. While you are working you will be evaluated by an observer on your ability to work as a team. Your team will have 60 minutes to create a computer generated report while utilizing materials and equipment provided to solve the problems below. Your document must include a cover page with title, state name, a description of the activity, a description of each team member's role, calculations/ diagrams identified by instructions and correlated with the activity theme. You must also include any and all justification(s) about how you reached your answer, as well as proper formatting throughout the typed document, including: typed Times New Roman 12pt font, 1" margins, and double spacing. Recall you will be graded on process and team cooperation and sharing of roles and tasks, as well. PLEASE be respectful of materials and equipment provided, do not mark on anything except for ration calculation sheet and scratch paper provided, thank you.

Scenario:

The University of Wyoming Beef Unit has expanded with 50 heifers obtained at weaning and has just hired your team to manage these heifers from weaning to calving. Your duties will challenge your team's knowledge of equipment, feeding, and breeding. It will be your duty to identify the equipment/tools, compare cost analysis of rations for these heifers, and recommend a bull to be used on this set of heifers. These three parts need to be presented in a formal document using Word or Excel. Please ensure that there is a cover page with the required fields as listed above. Your report needs to contain graphs and or figures and the three sections listed below.

- A. **(Identification 25 pts./ Justification 25 pts.)** Since you have been hired, some of the tools for the beef unit have gone missing. There is a list of all the tools the beef unit has previously had. Your team's first task is to use the photos provide to identify tools that remain for your use in the heifer production. Your team will also need to explain what each tool is used for. After you finish that part you will need to create a list of the available tools that are necessary for this operation. Please note that tagging is the preferred identification method at the University of Wyoming Beef Unit.

- B. **(Calculations 20 pts./ Work Shown 20 pts.)** One of your duties for this position is formulating rations to feed the heifers and determine the cheapest cost. On another sheet that is provided please formulate rations based on the two life stages and cost for each ration based on 100 lbs. don't forget to staple the ration calculation sheet to the back of the report. You might consider using a pie chart to help show the distribution of the two feeds in your rations.
- C. **(Identification 20pts./ Justification 30pts.)** One of the final duties that your team has for this year's heifer project is to rank the bulls provided from the university from best to worst. Provided are four bull pictures and Estimated Progeny Differences (EPD). This is a class of four bulls to breed your herd of heifers to. Be concerned with birth weight, weaning weight, and yearling weight. In a perfect world, low birth weights with high weaning and yearling weights are ideal. Also look at phenotype with the photos provided. You all will then rank the bulls 1 to 4, and give reasons to why the bulls are ranked in that manner.