**Lesson Title: Expected Progeny Difference**

**Unit: 4**

TEKS: 130.7 (C)(7) b,e,f

OBJECTIVES

The student shall be able to:

1. Define Expected Progeny Difference.
2. Interpret EPD categories.
3. Analyze EPD variations within breeds.
4. Recognize the importance of EPD use in selection.
5. Apply EPD concepts.

TEACHING MATERIALS, TOOLS, AND EQUIPMENT

PPT: EPD’s

HO: EPD Notes

TEACHING PROCEDURE

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| Interest Approach/Anticipatory Set | Teacher Notes |
| 1. Link – Using EPD’s for selective breeding practices.  2. Motivation – Ask students to describe any personal experiences with EPD’s. |  |
| Teaching Plan and Strategy / Presentation of New Material  Objective 1: Define and identify terms associated with EPD’s.  Have students complete worksheet handout  Objective 2: Interpret EPD categories.  Students will follow along with the ppt  Objective 3: Analyze EPD variations within breeds.  Hand out EPD’s to students. These can be found on any breed website (i.e. Angus, Simmental, Charlois etc.)  Objective 4: Recognize the importance of EPD use in selection.  Open discussion let by teacher. Topics that should be brought up are: performance, economics, land availablilty, forage availability etc.  Objective 5: Apply EPD concepts.  Show slide 15 and have students follow directions. Students will write a paragraph over why they chose a certain bull to fit the scenario described. | Teacher Notes |
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ENGAGEMENT

Students will actively participating in lesson by filing out the corresponding worksheet, participating in open discussion and writing reasons for selection of a specific bull.

EVALUATION

Students will turn in notes page at the end of the lesson for credit.

ADDITIONAL MATERIALS

N/A

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