

KEY 2022 National Livestock Evaluation CDE

Mark only 1 answer per line. The numbers/answer blanks below each group of females correspond to the question number on your scantron.

Group 1- Commercial Females

Select 1 bull to be used by a Commercial cow/calf operator in the southeast who prides himself in the build and phenotype of his commercial cow herd. After several years of chasing extreme calving ease and extreme growth and performance, not only has the phenotype of his cow herd slipped, but he is having more function problems with his cow herd as well; calves that are born too light, mature weights that are getting harder to manage and equally as frustrating culling more open females. To get the cowherd back on track you are looking for a bull to produce replacement quality females when mated to the best 3-5 year old cows. He is looking for a herd sire that will increase birthweights (BW), maintain yearling growth and moderate mature weights (MWT) and bring back the eye appeal and fleshing ease he built his reputation on.

1. __C= 25 points__ D= 20 points

Group 2 – Angus Females

Select 1 bull to be used as a natural service sire behind a strict Artificial Insemination protocol for a large Angus Seedstock operation. The program generates income from 3 annual bull sales and markets some females private treaty. The bull clientele is diverse, from large operations that retain ownership in their offspring through the feeding phase to small commercial 1 bull operations that need a bull to do it all. The operation also sells herd sires to other purebred operations with similar objectives and customer base. The bull you select will be used on their heifers to maintain the spread from birth to yearling and to achieve a strategic objective of suppressing mature weight (MWT) and to increase Heifer Pregnancy (HP) rates.

2. __B= 25 points C= 22 points__

Group 3 - Maine and Simmental Females

This is an elite program with nationwide reputation of superior Angus based Maine and Simmental influenced females in terms of phenotype, fertility, and adaptability. Data and genomic information is collected on all cattle in this operation, but are of secondary importance to phenotypical assessment of maternal characteristics and quality. These cattle have a reputation of being exceptionally good structured, bold centered, deep sided, and easy fleshing. While also being uniquely neat through their chest floor and front end. Consequentially, an annual female sale in the fall has become their primary source of income, highlighted by donors and show prospects. **Select 2 bulls** that will continue the philosophy of capitalizing on visual maternal features and superior phenotypes to be turned out with 50 3-year-old pairs of high percentage Maine and Simmental females to produce Maine Angus and SimAngus seedstock.

3. __C- 25 points D= 25 points__

4. __C= 25 points D= 25 points__

Group 5 – Holstein x Jersey Cows

A large West Texas dairy uses sexed semen to produce genetically superior Holstein x Jersey (HOJO) cows. The dairies primary income is through milk production; however, they have recently implemented beef genetics in the breeding of some cows so they can profit off meat production as a secondary income. The current genetic makeup of the cowherd is ideal for the environment and level of resources. While their beef on dairy calves have so far reaped the benefits of consistently hitting choice targets upon harvest, the dairy is looking to add more gain to these terminal calves. Utilizing the Angus Association's newest selection index values, Angus x Holstein (\$AxH) and Angus x Jersey (\$AxJ) and given the moderate size of the cowherd, your objective is to **select 2 bulls** that will complement the HOJO cow base and bolster the end point value of the terminal calf crop.

5.____A= 25 points D= 25 points_

6.____A= 25 points D= 25 points