

Beef Carcass Evaluation Bernie O'Rourke University of Wisconsin-Madison Extension Youth Livestock Specialist



Beef carcass evaluation may seem intimidating as compared to the pork and lamb. However if you estimate and evaluate in a step by step manner, it is easy and fun.

Pick a carcass and begin!!

Step 1: Estimate a Quality Grade (How "good" the carcass is)

 Maturity - Look at the buttons on the thoracic vertebrae to estimate maturity (age) of the carcass. If they're pure white – OK!



• Marbling – The flecks of fat in the ribeye. The more amount of marbling the higher the quality grade.



Step 2: Compare Yield Grades (How "much" meat is in the carcass)

• (See attached sheet)

Step 3: Evaluate all the carcasses and make notes.

- Determine the sex of the carcass.
- Compare the carcasses as far as their parts are concerned. From round to chuck.
- For example:
 - Determine which had the larger ribeye area?
 - Determine the sex of each carcass,
 - Which had the heavier muscled round?
 - Which had the heavier muscled chuck?
 - Which carcass was the fattest?
 - Note defects such as: Blood splashing, dark cutters, etc...



Heifer Carcass

A. Artch Bone
B. Relice C Anty
C. Udder Fait
D. semmembrandsa



Steer Carcass

k, Arth Borre K, Pelve Cwity J, Cod Fat K, Puttle Eye L, Fattle Maricle



Step 4: Place the class based on the Quality and Yield Grade observations. (Make notes for reasons and questions if so noted.)

Rule of Thumb: Carcasses that achieve a quality grade of Choice average or higher with a desirable yield grade (Yield grade 3 or better) have considerable value and usually place high in a judging class. When yield grades are fairly similar, Choice carcasses should always place over Select or Standard carcasses. If yield grades are fairly similar (within 0.8 yield grade), a Prime carcass would place over a Choice carcass. However, a Select carcass which is one yield grade better than a Choice carcass, would rank over the Choice carcass. The same would be true for yield grade differences between Choice and Prime carcass pairs.

Sample Beef Carcass Questions:

- 1. Which carcass had the most desirable yield grade?
- 2. Which carcass had the least desirable quality grade?
- 3. Between carcasses 1 and 2 which had the larger rib eye area?
- 4. True or False: All carcasses were heifer carcasses.
- 5. Which carcass had the heavier muscled, plumper cushioned round?

Carcass Ranges:

	Average	Range
Carcass Weight, pounds	800	630 - 1000
Fat thickness, 12-13 th rib, inches	0.5	0.1 – 1.0
Ribeye area, square inches	12.5	9.5 - 17
Kidney, pelvic, heart fat (KPH), %	2.0	1.0 - 4.0
Yield Grade	3.0	1.0 – 5.0
Quality Grade	Se Ch°	Ch-

Beef Carcass E	Evaluation
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ID	Example	1	2	3	4
Carcass Weight (pounds)	650				
Maturity (A, B, C, D, or E)	A				
Ribeye Area (square inches)	12.6				
Fat Thickness (inches)	.4				
% Kidney, pelvic, and heart fat (1% – 5%)	2.5				
Marbling	small				
Quality Grade					
Yield Grade: Fat thickness = base YG					
Ribeye Adjustment					
KPH Adjustment					
Final yield grade					

	ng Yield Grade Yield Grade	2. Ribeye Adjust Weight Ribey	
.1	2.2	550 10.4	
.2	2.5	600 11.0	*2.5%2
.3	2.7	650 11.6	
.4	3.0	700 12.2	
.5	3.2	750 12.8	
.6	3.5	800 13.4	
.7	3.7	850 14.0	
.8	4.0		_
.8 .9	4.2	+ 1.0° =3 YG	
1.0	4.5	- 1.0" = + .3 YG	

Beef Quality Grades

Degrees of	MATURITY				
Marbling	A	0	c	D	E
Slightly Abundant	PRIME				
Moderate			COMMERCIAL		/
Modest	CHOICE				
Small			/		
Slight	SELECT		UTILITY		/
Traces	STANDARD	-			
Practically Devoid	1- 1		/	CUTTER	/



Maturity A = 9-30 months B = 30-42 C = 42-72 D = 72-96E = > 96 months