## 2016 NBQA Market Cow and Bull

Cooler, Postmortem
Condemnation, Product Fabrication
Data



Plant Name:	
Location:	
Date:	Shift:
Recording Institution:	
Recorder:	

#### **Cooler Data Sheet** – *Protocol*

Please use blue pen to complete the data sheets.

- Record the Lot # at the top of the page if it can be determined. A new lot should be started on a new page.
- Car. ID/Sequence #
  - The carcass identification/sequence number could differ with each plant. It should be found on the carcass tag.
- REA
  - Ribeye area should be measured by dot grid, blotting paper, or beef camera
- L. Mat., S. Mat., PYG, % KPH, MARB, & Dark C.
  - Lean maturity, skeletal maturity, preliminary yield grade, percent KPH, marbling score, and dark cutting ribeyes will be evaluated by United States Department of Agriculture, Agricultural Marketing Service, Meat Grading and Certification Branch personnel.
- If carcasses are not ribbed, PYG will have to be estimated based on the USDA definitions. Definitions and standard references are listed below.
- For lean and skeletal maturity, please denote the position within maturity group. For example, A<sup>50</sup>, B<sup>10</sup>, etc...
- For marbling, please denote the position within the marbling degree. For example, Sl<sup>50</sup>, Md<sup>10</sup>, etc...
- If given, include the tenth place on the PYG.
- Muscle scores should include a degree high(+), average (°), low (-).
- Included on this data sheet is Muscle Score and Fat Color Score. These are also on the Bruise/Injection Site Data sheet. It is up to recorders where these will be observed. Be sure not to capture this data at each location. Standards for muscle score and fat color score are provided.

**Sample size:** 1/3 of all carcasses in the cooler during a production day.

#### **DEFINITION**

**Blood splash** Visible specs of blood within the muscle.

Calloused eye Evidence of fat, which has replaced lean muscle within the *longissimus* 

dorsi.

#### **Muscle Scores**

#### Muscle Score



Source: National Market Cow and Bull Beef Quality Audit – 2007: A Survey of Producer Related Defects, John David Nicholson

#### **DEFINITIONS & DIAGRAMS**

#### **USDA** definitions by yield grade:

1.9 - Muscle visible through fat in many areas

THIN - Rib, loin, rump, clod

VERY THIN - Outside round, top of chuck, neck

SLIGHT DEPOSIT - Flank, cod, Brisket

2.9 - Nearly completely covered with fat

SLIGHTLY THIN - Rib, loin inside round

SLIGHTLY THICK - Rump, hip, clod

Lean plainly visible through fat over outside round, top of chuck, neck

SMALL DEPOSIT - Flank, cod

3.9 - Completely covered with fat

SLIGHTLY THICK - Rib, loin, inside round

MODERATELY THICK - Rump, hip, clod

Lean visible through fat over neck, lower outside round

SLIGHTLY LARGE DEPOSIT - Flank, cod

4.9 - Completely covered with fat

MODERATELY THICK - Rib, loin, inside round

THICK - Rump, hip, clod

Muscle visible on shank, flank, plate

LARGE DEPOSIT - Flank, cod

Source: USDA. 1989. Official United States Standards for Grades of Carcass

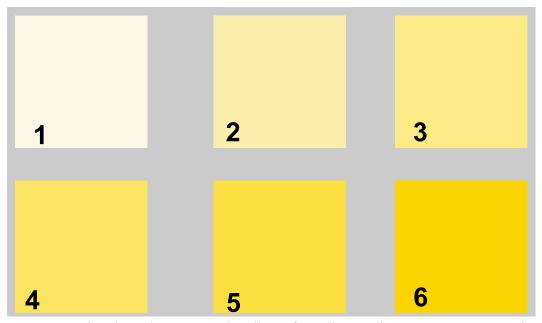
Beef. Agric. Marketing Service, USDA, Washington, DC



#### 2016 National Beef Quality Audit - Market Cow and Bull

#### **Fat Color Scores**

\*Fat color scores should be determined based off the darkest colored outside surface fat over the loin and rib.



Source: National Market Cow and Bull Beef Quality Audit – 2007: A Survey of Producer Related Defects, John David Nicholson



## 2016 National Beef Quality Audit – Market Cow and Bull Cooler Data Sheet Shift A Recorder McKensie

	Date 12/14	/15	Shift			er_Mck	censie H	arris
		*A nev	Lot #_ lot should	be starte	d on a nev	v nage*		
	Sample		ird of all o	carcasse			uction day.	
Car. ID/Sequence #	L. MAT	A	B 60	С	D	E		# Arthritic Joints
HCW (lbs.) <u>809</u>	S. MAT.	A	В	C 10	D	Е		1
REA (iu²)_13_1_	PYG	1.	2. 🔿	3.	4.	5.		2
	% KPH	0	1.	2.0	3.	4.	5.	
Sex: C B	MARB	PD	TR	SL 30		MT	MD	SA MA
T	DARK C.	1/3	1/2	2/3	FULL		ood splash	Calloused eye
Type:	MUSCLE SCORE	1		2		3	4	5
Beef Dairy	SCORE	+ o	- (+)	0 -	+	o -	+ o	- + 0 -
	FAT COLOR SCORE	1	2	)	3	4	5	<b>&gt;</b> 6
Plant Cow Grade:		V. 1180 X	-19-50 MINI-W	PI	ant Bull	Grade:		
	<u> </u>		-				A 16	· · · · · ·
Car. ID/Sequence #	L. MAT	A	B 20	С	D	Е		# Arthritic Joints
HCW (lbs.) 834	S. MAT.	A	В	C 60	D	E	7	1
REA (in²) 12.7	PYG	1.8	2.	3.	4.	5.		2
	% KPH	0	1.5	2.	3.	4.	5.	
Sext C B	MARB	PD	TR	SL 70		MT	MD	SA MA
Type:	DARK C.	1/3	1/2	2/3	FULL		ood splash	Calloused eye
. Jpc.	MUSCLE SCORE	1	-	(3)	7	3.	4	5
Beef Dairy		+ 0	+	0 -	+	0 -	+ 0	- + 0 -
	FAT COLOR SCORE	1.6	2	7	3	4	5	6
Plant Cow Grade:	SCORE	A		PI	ant Bull (	Grade:		
	L		9				10000	
Car. ID/Sequence #	L. MAT	A	B80	С	D	Е		# Arthritic Joints
HCW (lbs.) 901	S. MAT.	A	В	C <sub>20</sub>	D	Е		1 2
REA (in²) 13.9	PYĞ	1.	2.2	3.	4.	5.		
	% KPH	0	1.	2.5	3.	4.	5.	
Sext C B	MARB	PD	TR	SL	SM IO		MD	SA MA
	DARK C.	1/3	1/2	2/3	FULL		ood splash	Calloused eye
Туре:	MUSCLE SCORE	1	(	2		3	4	5
Beef Dairy		+ o	<u>-</u>	0 -	+	0 -	+ o	- + 0 -
	FAT COLOR SCORE	1	2		3	4	5	6
Plant Cow Grade:				Pla	ant Bull (	Grade:		

Checked by:

Date:

Revised 11/4/15 MKH

Date:\_\_\_

Entered by: \_\_\_\_

### 2016 National Beef Quality Audit – Market Cow and Bull **Data Recording Methods**

Please write a short description of how data was collected at this station. This will help us when interpreting and entering data.						

## 2016 National Beef Quality Audit – Market Cow and Bull Cooler Data Sheet

	Coulci L	ata Succi	
Date	Shift	Recorder	
	Lot #		

\*A new lot should be started on a new page\*

	Sample :	nzc. One u		iii cai cabbei		one produc	tion day.	
Car. ID/Sequence #	L. MAT	A	В	С	D	Е		# Arthritic Joints 0
HCW (lbs.)	S. MAT.	A	В	С	D	Е		1
REA (in <sup>2</sup> )	PYG	1.	2.	3.	4.	5.		2
	% KPH	0	1.	2.	3.	4.	5.	
Sex: C B	MARB	PD	TR	SL	SM	MT	MD	SA MA
	DARK C.	1/3	1/2	2/3	Full	Bloo	od splash	Calloused eye
Type:	MUSCLE SCORE	1		2		3	4	5
Beef Dairy		+ 0	-	+ 0 -	+	0 -	+ 0	- + 0 -
	FAT COLOR SCORE	1		2	3	4	5	6
Plant Cow Grade:				Pl	ant Bull	Grade:		
Car. ID/Sequence #	L. MAT	A	В	С	D	E		# Arthritic Joints 0
HCW (lbs.)	S. MAT.	A	В	С	D	Е		1
REA (in <sup>2</sup> )	PYG	1.	2.	3.	4.	5.		2
	% KPH	0	1.	2.	3.	4.	5.	
Sex: C B	MARB	PD	TR	SL	SM	MT	MD	SA MA
	DARK C.	1/3	1/2	2/3	FULL	Bloo	od splash	Calloused eye
Type:	MUSCLE SCORE	1		2		3	4	5
Beef Dairy	SCORE	+ 0	-	+ o -	+	0 -	+ 0	- + 0 -
	TC 4 / CC							
	FAT COLOR	1		2	3	4	5	6
Plant Cow Grade		1					5	6
Plant Cow Grade:	COLOR	1			3 ant Bull		5	6
Plant Cow Grade:  Car. ID/Sequence #	COLOR	1 A	В				5	# Arthritic Joints
	COLOR SCORE			Pl	ant Bull	Grade:	5	# Arthritic Joints 0 1
Car. ID/Sequence #	COLOR SCORE	A	В	C	ant Bull	Grade:	5	# Arthritic Joints 0
Car. ID/Sequence # HCW (lbs.)	COLOR SCORE  L. MAT  S. MAT.  PYG	A A	B B 2.	C C 3.	D D 4.	E E 5.	5.	# Arthritic Joints 0 1
Car. ID/Sequence #  HCW (lbs.)  REA (in²)  Sex:	COLOR SCORE  L. MAT  S. MAT.	A A 1.	ВВ	C C	D D	Grade: E		# Arthritic Joints 0 1
Car. ID/Sequence #  HCW (lbs.)  REA (in²)	L. MAT S. MAT. PYG % KPH	A A 1. 0	B B 2.	C C 3. 2.	D D 4. 3. SM	E E 5. 4. MT	5. MD	# Arthritic Joints 0 1 2 SA MA
Car. ID/Sequence #  HCW (lbs.)  REA (in²)  Sex:	L. MAT S. MAT. PYG % KPH MARB DARK C. MUSCLE	A A 1. 0 PD	B B 2. 1. TR	C C 3. 2. SL	D D 4. 3.	E E 5. 4. MT	5.	# Arthritic Joints 0 1 2
Car. ID/Sequence #  HCW (lbs.)  REA (in²)  Sex:  C B	L. MAT S. MAT. PYG % KPH MARB DARK C. MUSCLE SCORE	A A 1. 0 PD 1/3	B  2. 1. TR	C C 3. 2. SL 2/3	D D 4. 3. SM	E E 5. 4. MT	5. MD	# Arthritic Joints 0 1 2  SA MA  Calloused eye
Car. ID/Sequence #  HCW (lbs.)  REA (in²)  Sex:  C B  Type:	L. MAT S. MAT. PYG % KPH MARB DARK C. MUSCLE	A  1. 0 PD 1/3	B 2. 1. TR ½	C C 3. 2. SL 2/3 2 + o -	D D 4. 3. SM FULL	E E 5. 4. MT Bloc 3 0 -	5. MD od splash 4	# Arthritic Joints 0 1 2  SA MA  Calloused eye 5
Car. ID/Sequence #  HCW (lbs.)  REA (in²)  Sex:  C B  Type:	L. MAT S. MAT. PYG % KPH MARB DARK C. MUSCLE SCORE FAT COLOR	A A 1. 0 PD 1/3 1 + 0	B 2. 1. TR ½	C C 3. 2. SL 2/3 2 + o -	D D 4. 3. SM FULL	E E 5. 4. MT Bloc 3 0 -	5. MD od splash 4 + 0	# Arthritic Joints  0 1 2  SA MA  Calloused eye  5 - + 0 -

Entered by: \_\_\_\_\_ Date: \_\_\_\_ Checked by: \_\_\_\_\_ Date: \_\_\_\_ Revised 11/4/15 MKH

# Postmortem Condemnation

#### 2016 National Beef Quality Audit – Market Cow and Bull

#### **Postmortem Inspection Data Sheet** – *Protocol*

Sample size: 100% of condemned carcasses

Following the conclusion of each production day, recorders should speak with the cooler supervisor and USDA inspector to obtain a complete list of USDA Condemned carcasses. Each suspect and condemned carcass should be recorded and the animal sex and type should be circled.

## 2016 National Beef Quality Audit – Market Cow and Bull Postmortem Inspection Condemnation Data Sheet

Date 12/14/15 Shift A Recorder McKensie Harris

Sample size: 100% of condemned carcasses

		(circle on			Reason For Condemnation
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	Malignant lymphoma
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	Multiple Severe abscesses
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy . Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dajry Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	

Entered by:	Date:	Checked by:	Date:	Revised 11/15/15 MKH
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### 2016 National Beef Quality Audit – Market Cow and Bull **Data Recording Methods**

Please write a short description of how data was collected at this station. This will help us when interpreting and entering data.						

## 2016 National Beef Quality Audit – Market Cow and Bull **Postmortem Inspection Condemnation Data Sheet**

Date	Shift	Recorder

Sample size: 100% of condemned carcasses

		(circle on	e)		Reason For Condemnation
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	
Beef Cow	Dairy Cow	Beef Bull	Dairy Bull	Unknown	

Entered by:	Date:	Checked by:	Date:	Revised 11/15/15 MKH
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# Product Fabrication

#### 2016 Cow and Bull National Beef Quality Audit

#### **Product Fabrication Data Sheet** – **Protocol**

Please use a blue pen to complete the data sheet.

• A daily fabrication sheet may be obtained directly from the plant and stapled to the data book.

Sample size: 100% of all fabricated carcasses in one production day

## 2016 National Beef Quality Audit – Market Cow and Bull Product Fabrication Data Sheet

		741		x x O G G O I	****	MOH DHIN SHO	~.	
Date_	12/1	4	15	Shift	A	Recorder	McKensie	Harris
Sa	mple	siz	e: 100	% of all fal	oricate	d carcasses in	one production	day.
			*[	Plant fahrid	ration	shoote will suff	fice*	

IMPS cuts	Cow lbs.	Bull lbs.
112 Rib, ribeye roll, 6-8 lbs.		
112 Rib, ribeye roll, 8-10 lbs.		
112 Rib, ribeye roll, 10-up lbs.		
112A Rib, ribeye roll-lip-on, 8-dn lbs.		
112A Rib, ribeye roll-lip-on, 8-up lbs.		
Chuck, boneless 85%		1
120 Chuck, brisket		A
168 Round, top inside, 10-dn lbs.		
168 Round, top inside, 10-up lbs.		( ) ( )
169A Round, top inside cap-off, 8-10 lbs.		
169A Round, top inside cap-off, 10-14 lbs.		
169A Round, top inside cap-off, 14-up lbs.		400
171B Round, outside round	1	
171C Round, eye of round		The second
Loin, Semi-Bnls Short Loin, 13-dn lbs.		7
Loin, Semi-Bnls Short Loin, 13-up lbs.		
180 Loin, strip, bnls, 7-9 lbs.		
180 Loin, strip, bnls, 9-up lbs.		
182 Loin, sirloin butt		
184 Loin, top sirloin butt		
191A Loin, butt tender, peeled		
90% Lean	7	
100% Lean - Inside Round		
100% Lean - Outside Round		
100% Lean - Eye of Round	/	
100% Lean - Flats and eyes		
100% Lean - Striploin		
100% Lean - S.P.B.		
116B Chuck, chuck tender		
167A Round, knuckle, peeled 190 Loin, tenderloin, 2-3 lbs.		
190 Loin, tenderloin, 2-3 lbs.	<del> </del>	
190 Loin, tenderloin, 4-5 lbs.		
190 Loin, tenderloin, 5-up lbs.		
193 Flank, flank steak		
Flank, rough		
Other		
Other:		D. II-
Defect Checklist:	Cows	Bulls
Number of Injection Site Lesions Found:		
Number of Abscesses Found:	2	
Number of Lead/Shot Found:		
Number of alarms by Metal Detector:		
Magnitude of Metal Detector:		

Otr	er:				
Oth	er:				
	Defect Checklist:		Cows	Bulls	
Nu	mber of Injection Site Lesions F	ound:			
Nu	mber of Abscesses Found:		2		
Nu	mber of Lead/Shot Found:				
Nui	mber of alarms by Metal Detector	or:			
Ma	gnitude of Metal Detector:				
Entered by Date	:Initial:	Check	ked by: Date:	Initial:	Revised 11/18/15 N
	See	Plant Sh	eet attached.		

### 2016 National Beef Quality Audit – Market Cow and Bull **Data Recording Methods**

Please write a short description of how data was collected at this station. This will help us when interpreting and entering data.			

#### 2016 National Beef Quality Audit – Market Cow and Bull

## Product Fabrication Data Sheet Shift Recorder

**Date** 

Sample size: 100% of all fabricated carcasses in one production day.

\*Plant fabrication sheets will suffice\*

IMPS cuts	Cow lbs.	Bull lbs.
112 Rib, ribeye roll, 6-8 lbs.		
112 Rib, ribeye roll, 8-10 lbs.		
112 Rib, ribeye roll, 10-up lbs.		
112A Rib, ribeye roll-lip-on, 8-dn lbs.		
112A Rib, ribeye roll-lip-on, 8-up lbs.		
Chuck, boneless 85%		
120 Chuck, brisket		
168 Round, top inside, 10-dn lbs.		
168 Round, top inside, 10-up lbs.		
169A Round, top inside cap-off, 8-10 lbs.		
169A Round, top inside cap-off, 10-14 lbs.		
169A Round, top inside cap-off, 14-up lbs.		
171B Round, outside round		
171C Round, eye of round		
Loin, Semi-Bnls Short Loin, 13-dn lbs.		
Loin, Semi-Brils Short Loin, 13-up lbs.		
180 Loin, strip, bnls, 7-9 lbs.		
180 Loin, strip, bnls, 9-up lbs.		
182 Loin, sirloin butt		
184 Loin, top sirloin butt		
191A Loin, butt tender, peeled		
90% Lean		
100% Lean - Inside Round		
100% Lean - Outside Round		
100% Lean - Eye of Round		
100% Lean - Flats and eyes		
100% Lean - Striploin		
100% Lean - S.P.B.		
116B Chuck, chuck tender		
167A Round, knuckle, peeled		
190 Loin, tenderloin, 2-3 lbs.		
190 Loin, tenderloin, 3-4 lbs.		
190 Loin, tenderloin, 4-5 lbs.		
190 Loin, tenderloin, 5-up lbs.		
193 Flank, flank steak		
Flank, rough		
Other:		
Other:		
Defect Checklist:	Cows	Bulls
Number of Injection Site Lesions Found:		
Number of Abscesses Found:		
Number of Lead/Shot Found:		
Number of alarms by Metal Detector:		
Magnitude of Metal Detector:		

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	Magnitude of Metal Detector:				
	Number of alarms by Metal Detector	:			
	Number of Lead/Shot Found:				
	Number of Abscesses Found:				