

Texas 4-H BEF Buiz Bowl Supplement



TEXAS 4-H BEEF QUIZ BOWL RESOURCES -

Official References for the Texas 4-H Beef Quiz Bowl Program

The resources listed below can be downloaded or purchased at the Texas Cooperative Extension Web site Bookstore, http://tcebookstore.org. Materials are also posted on the Animal Science Web site at http://animalscience.tamu.edu.

AS 1-2, "Managing Beef Cattle for Show"

AS 3-1025, "Beef Cattle Leader Guide"

ASWeb-020, "Beef Quality and Yield Grading"

ASWeb-041, "Breeding Beef Cattle Judging Outline"

B-1077, "Determining Pregnancy in Cattle"

B-1203, "Recognizing and Handling Calving Problems"

B-1526, "Body Condition, Nutrition and Reproduction of Beef Cows"

B-1575, "The Cow's Digestive System"

B-5098, "Anaplasmosis in Beef Cattle"

B-6056, "Mineral Supplementation of Beef Cows in Texas"

B-6067, "Supplementation Strategies for Beef Cattle"

BCM-34, "Dehorning, Castrating and Branding"

BCM-48, "Design of Ranch Corrals and Squeeze Chutes for Cattle"

BCM-49, "Corral and Working Facilities for Beef Cattle"

BCM-67, "Stocker and Cattle Management"

E-189, "Texas Adapted Strategies for Beef Cattle — IV: Breeding Systems for Beef Production"

L-2150, "Avoiding Calving Problems"

L-2175, "Beef Performance Glossary"

L-2225, "Beef Cattle Marketing Alternatives"

L-2291, "Implanting Beef and Calves and Stocker Cattle"

L-5030, "Adapted Grasses for Texas Pastures"

L-5051, "Breeding Soundness in Bulls"

L-5176, "Frame Score and Weight of Cattle"

L-5206, "Cattle Types and Breeds Characteristics and Uses"

L-5219, "Managing for High-Quality Hay"

L-5223, "Reproductive Diseases in Cattle"

L-5242, "Assisting Difficult Calving"

L-5289, "Cattle Vaccines"

L-5335, "Controlling Brown Stomach Worms in Cattle by Management"

"Value Added Calf (VAC) - Vaccination Management Program"

BEEF

TEXAS 4-H

QUIZ BOWL

SAMPLE QUESTIONS

NUTRITION

Question: Body condition determines the amount

and type of winter feed supplements that will be needed. Beside mineral and vitamin supplements, fat cows usually need small amounts of what type of feed?

Answer: High protein (30-45 percent) feed

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 3

Division: Both

Question: Body condition determines the amount

and type of winter feed supplements that will be needed. Beside mineral and vitamin supplements, thin cows usually need large amounts of what type of feed?

Answer: High energy feeds (+70 percent TDN)

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 3

Division: Both

Question: What is regarded as the most reliable

guide for evaluating the nutritional status

of a cow?

Answer: Body condition of the cow

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 3

Division: Both

Question: True or false: Two animals that have

markedly different live weights can have

similar body condition scores?

Answer: True

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 3

Division: Both

Question: As the percentage of fat in the body

increases, the percentage of protein and

water will ?

Answer: Decrease

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 3

Division: Both

Question: What are Body Condition Scores (BCSs)?

Answer: BCS numbers are used to suggest the

relative fatness or body composition of

a cow.

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 4

BEEF SAMPLE QUESTIONS

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Question:	A cow with a body condition score of 9 would be considered?	Question:	The target body condition score for a cow prior to calving is?	
Answer:	Extremely fat	Answer:	5 or 6	
Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	
Page number:	4	Page number:	: 8	
Division:	Both	Division:	Both	
Question:	A cow with a body condition score of 1 would be considered?	Question:	True or false: Most thin cows will not re-breed if they are exposed to the bulls.	
Answer:	Very thin	Answer:	True	
Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	
Page number:	4	Page number:	: 8	
Division:	Both	Division:	Both	
Question:	What body condition score (BCS) would you give a cow that has the following conditions bone structure of shoulder, ribs, back, hooks and pins sharp to the touch and easily visible and little evidence of fat deposits or muscling?	Question:	To ensure high pregnancy rates, the lowest body condition score that a cow should have is?	
		Answer:	Five (5)	
		Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of	
Answer:	One (1)		Beef Cows	
Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	Page number:		
		Division:	Both	
Page number:	6	Question:	An efficient way to improve feeding	
Division:	Both		groups is to utilize body conditions scores	
Question:	What body condition score would you give a cow that has the following conditions bone structure not seen or easily felt; tail head buried in fat; animal s mobility may actually be impaired by excess amount of fat.		How many days prior to calving should one sort and feed their cattle to have condition scores of 5 to 7 at calving?	
		Answer:	90-100 days	
		Source:	Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	
Source:	Nine (9) Extension publication B-1526, Body Condition, Nutrition and Reproduction of Beef Cows	Page number:		
		Division:	Both	
Page number:				
Division:	Both			

Question: True or false: All cattle, fat or thin, need

protein supplementation to consume and utilize low quality forage with any degree

of effectiveness.

Answer: True

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 9

Division: Both

Question: Protein and energy should be in proper

balance. If protein is in excess compared to the level of energy, what will happen to

the excess protein?

Answer: The protein will be used for energy.

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 10

Division: Both

Question: What happens to utilization of a feed by

cattle when one adds a high energy supplement to forage that is deficient in

protein?

Answer: Decreases

Source: Extension publication B-1526, Body

Condition, Nutrition and Reproduction of

Beef Cows

Page number: 10

Division: Both

Question: What major family of plants is normally

associated with causing prussic acid poisoning when stressed by drought or

freezing?

Answer: sorghum family... Johnson grass, sudan

grass, forage sorghums and grain

sorghums

Source: Extension publication L-5231, Nitrate

and Prussic Acid Poisoning

Page number: 3

Division: Both

REPRODUCTION

Question: True or false: Heifers that experience

dystocia have higher rebreeding rates that

increase calf crop and potential profits.

Answer: False: lower rebreeding rates that decrease

crop and profits

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: Heifers should weigh what percent of

their mature weight at their first breeding?

Answer: 65-70 percent

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number:

Division: Both

Question: How many pounds per day should a heifer

gain during gestation to have the proper body condition at the time of calving?

Answer: 1 pound per day

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: From research, feeding high feed levels

during gestation does not influence dystocia. Excess energy during gestation is not as much a problem as excess protein. Why is the latter a bigger problem?

Answer: Protein feeds increase the birth weight of

the calf.

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

SEEF SAMPLE QUESTIONS

Question: True or false: The best recommendation

dealing with feeding heifers during gestation is to limit the feed to starve dystocia

out of heifers.

Answer: False: feed a balanced ration that affords

proper growth.

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: What is the recommended age to calve

first-calf heifers to increase total lifetime

productivity?

Answer: 2 years old

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: True or false: Exercising the dam during

gestation will reduce dystocia.

Answer: False: will not

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: True or false: The most prudent and

effective way to reduce birth weight is to

feed less.

Answer: False: use a bull that is known to sire

calves with low birth weights.

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 2

Division: Both

Question: True or false: Breeds with a reputation for

difficult calving should never be used.

Answer: False: all breeds have easy calving and

hard calving bloodlines.

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 1

Division: Both

Question: What is the most reliable EPD trait when

selecting a sire to breed to first-calf heifers calving ease, birth weight, wean-

ing weight or yearling weight

Answer: Calving ease

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 2

Division: Both

Question: What is the most reliable EPD accuracy

level when selecting a sire to breed to

first-calf heifers?

Answer: Highest fraction up to 1.0

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 2

Division: Both

Question: What does it mean for a bull to have a

low accuracy level for any trait?

Answer: That the bull has not yet produced enough

offspring to accurately predict his per-

formance

Source: Extension publication L-2150, Avoiding

Calving Problems

Page number: 2

Division: Both

Question: Define libido?

Answer: Sex drive in bulls

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both

Question: True or false: When a cow fails to become

pregnant, she should be sold.

Answer: False: occasionally, the fault is the bull s,

and the bull should be sold instead.

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Question: What major hormone is produced by the

testis (testicle) of the bull?

Answer: Testosterone

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both

Question: The scrotum supports and encloses the

testes. Its main function is to do what for

the bull?

Answer: Regulate testicular temperature

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both

Question: What is the function of the epididymis

within the bull s testis?

Answer: Storage, maturation and transportation of

sperm cells

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both

Question: What is the function of the bull s vas

deferens?

Answer: Aid in transporting sperm cells from the

epididymis to the ampullae

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both

Question: What is the function of the bull s seminal

vesicles and prostrate gland?

Answer: They contribute volume to the ejaculate

by secreting fluid that contains substrates,

buffers, inorganic ions and proteins.

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 1

Division: Both Question: Why are proteins known as fertility asso-

ciated antigens particularly important in

reproduction?

Answer: Proteins produced by the bull are added

> to the volume of ejaculate and bind to certain compounds in the female tract to

increase the chances of fertilization.

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 2

Division: Seniors

Question: How many days prior to the breeding

season should bulls be evaluated for

breeding soundness?

Answer: 30-60 days

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 2

Division: Both

Question: True or false: A breeding soundness

> evaluation (BSE) will include the following physical examination of the bull, internal and external reproductive tract. semen motility and normality and libido.

Answer: False: libido is not included and must be

measured through visual observations

during mating activity.

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 2

Division: Both

Question: What simple measurement can one do to

determine the fertility in bulls?

Answer: Scrotal circumference measurement

Source: Extension publication L-5051, Breeding

Soundness of Bulls

Page number: 3

Question: Question: What reproductive organ connects to Bos taurus and Bos indicus breeds, which group will reach puberty first and are the cervix and holds the fetus during considered early maturing? gestation? Answer: Answer: Uterus Bos taurus Source: Source: Extension publication L-5051, Breeding Extension publication B-1077, Soundness of Bulls **Determining Pregnancy in Cattle** Page number: 4 Page number: 3 Division: Both Division: Both **O**uestion: **O**uestion: What practice is generally recommended How many days after conception will the to determine pregnancy in cattle? placental membranes begin attaching to the uterine wall? Answer: Pregnancy testing, rectal palpation Answer: 38 days Source: Extension publication B-1077, Source: Determining Pregnancy in Cattle Extension publication B-1077, Determining Pregnancy in Cattle Page number: 1-2 Page number: 4 Division: Both Division: Senior Question: True or false: A mature cow that has **O**uestion: What reproductive organ is a raised area consistently calved throughout her life and is unexpectedly found open can be on the uterus that attaches the cotyledon retained in the herd. to enable nutrients to come from the dam to the fetus? Answer: True Answer: Caruncle Source: Extension publication B-1077, Source: Determining Pregnancy in Cattle Extension publication B-1077, Determining Pregnancy in Cattle Page number: 2 Page number: 4 Division: Both Division: Both Question: What reproductive organ serves as the **O**uestion: Another word or description of the receptacle for semen during natural mating? cotyledon-caruncle combination found in the uterus is Answer: Vagina Answer: The placentome or button Source: Extension publication B-1077, Source: Extension publication B-1077, **Determining Pregnancy in Cattle** Determining Pregnancy in Cattle Page number: 3 Page number: 4 Division: Both Division: Both Question: What reproductive organ is a thick walled Question: structure attached to the vagina that is a What reproductive organ is the attachment good landmark for orientation when palpoint from the placental side of the fetus that attaches to the caruncle and uterus so pating cows? nutrients can come from the dam to the Answer: Cervix fetus? Source: Extension publication B-1077, Answer: Cotyledon **Determining Pregnancy in Cattle** Source: Extension publication B-1077, Page number: 3 Determining Pregnancy in Cattle Division: Both Page number: 4 Division: Both

Question: What reproductive organ at the end of

each uterine horn has small, tube-like structures and transports sperm cells to the site of fertilization and the embryo

back to the uterus?

Answer: Oviduct or fallopian tube

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 4

Division: Both

Question: What reproductive organ is a thin, cup-

like membrane whose primary function is to catch the egg, or ovum, as it is expelled from an ovarian follicle during ovulation and transport the egg into the oviduct for

eventual fertilization?

Answer: Infundibulum

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 4

Division: Both

Question: What reproductive organ is a thin suspen-

sory membrane that attaches the entire reproductive tract to the pelvic and body cavities and acts as a cradle for the fetus?

Answer: Broad ligament

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 4

Division: Both

Question: What term describes the sexual time when

a cow is receptive to the bull?

Answer: Estrus, heat

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

Division: Both

Question: What hormone produced by the follicles of

the ovaries is present at estrus in the cow?

Answer: Estrogen

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 4

Division: Both

Question: What are the reproductive organs that

produces the ovum or egg during estrus?

Answer: Ovaries

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

Division: Both

Question: How many hours after the initial stages of

estrus will one of the follicles rupture and

release a single ovum or egg?

Answer: Within 24 hours

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

Division: Both

Question: What is the name of the cavity left by the

ruptured follicle that develops into a

raised structure on the ovary?

Answer: Corpus luteum

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

Division: Both

Question: What hormone is produced by the corpus

luteum on the ovary?

Answer: Progesterone

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

Division: Both

Question: What is the main function of

progesterone?

Answer: To maintain pregnancy

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 5

B**EE** SAMPLE QUESTIONS

Question: What hormone is released if conception

does not occur following ovulation to regress or destroy the corpus luteum?

Prostaglandin

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 6

Answer:

Division: Both

Question: What is the site of fertilization within the

reproductive tract?

Answer: The upper third of the oviduct Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 6

Division: Both

Question: What is the maturation period called that

sperm cells must undergo before the sperm cells are capable of fertilizing an

egg?

Answer: Capacitation

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 6

Division: Both

Question: True or false: The chances of fertilization

and pregnancy each time is estimated at

50 to 70 percent?

Answer: True

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 6

Division: Both

Question: At palpation, what large organ will one

encounter just past the pelvic brim on the left side that is not part of the reproduc-

tive tract?

Answer: Paunch or rumen

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 8

Division: Both

Question: How early can an experienced palpator

with skill and practice be able to detect

pregnancy?

Answer: 30 days

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 9

Division: Both

Question: How old would the pregnancy be if the

palpator is only able to feel a small amount of fluid by carefully running the horn between their fingers in a milking action and feel the vesicle slide through their fingers. The embryo is only about

1/2 inch long.

Answer: 30-35 days

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 9-12

Division: Both

Question: How old would be the pregnancy be if

the palpator determines that the horn is about 2 $^{1}/_{2}$ to 3 $^{1}/_{2}$ inches in diameter and measures 8-10 inches long. The fetus is

about 2 1/2 long.

Answer: 60 days

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 10, 12

Division: Both

Question: How old would be the pregnancy be if the

palpator determines the fetus is about $6^{1/2}$

inches long, the uterine arteries are

enlarged and pulsation can be felt, buttons are present that measure 3/4 to 1 inch and

the membranes are still filled tightly with

fluid?

Answer: 90 days

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 11, 12

Question: How old would the pregnancy be if the

palpator determines that the fetus is

approximately 10-12 long and the head

is the size of a lemon?

Answer: 120 days

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 11-12
Division: Both

Question: At what month will the fetus of a moder-

ate size cow normally fall deep into the body cavity because of its weight and size and sometimes be completely out of reach of the palpator on the stomach floor?

Answer: 5 months

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 11, 12
Division: Both

Question: At what month may or may not the fetus

of a moderate size cow still be out of reach, the size of small dog, the uterine artery 3/8 to ‰ inch in diameter and movement of the fetus may be elicited by

grasping the feet, legs or nose?

Answer: 6 months

Source: Extension publication B-1077,

Determining Pregnancy in Cattle

Page number: 12
Division: Both

GENERAL MANAGEMENT

Question: By 7 months, cattle reach about what

percent of their total mature height?

Answer: 80 percent

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: By 7 months, cattle reach about what

percent of their total mature weight?

Answer: 35-40 percent

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: By 12 months, cattle reach about what

percent of their total mature height?

Answer: 90 percent

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: By 12 months, cattle reach about what

percent of their total mature weight?

Answer: 50-60 percent

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: A cattle organization that works to

enhance the beef industry is called the BIF. What does BIF stand for?

Answer: Beef Improvement Federation

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: What two criteria are used to determine

frame scores?

Answer: Hip height and age of animal

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Question: Heights for frame scores should be deter-

mined where and how? Be specific.

Answer: Measurement is taken directly over the

hips or hooks while cattle are standing firm on a flat surface, legs symmetrically positioned with head in a normal position.

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: What is the most common device for

determining height available at many live-

stock supply companies?

Answer: A measuring stick consisting of a cross-

arm with a bubble level attached in a 90

degree angle

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: What is a frame score measuring stick?

Answer: It is a cross-arm measured stick (with a 90

degree bubble level attached to it) to determine the hip height of cattle.

Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Source:

Division: Both

Question: What age is probably the most useful age

to determine frame scores in cattle?

Answer: 12 months or yearling

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: True or false: Although frame score is not

an exact measure of skeletal dimension, it is the most useful method for estimating

relative skeleton size.

Answer: True

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 1

Division: Both

Question: True or False: Frame scores for males and

females of the same height and same age

will not be the same.

Answer: True

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 2

Division: Both

Question: True or false: A mature bull with a frame

score of 7 will be the same height as a mature cow with a frame score of 7.

Answer: False

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 2

Division: Both

Question: True or false: Steers continue to grow

longer than bulls, being about 1/2 inch to 1

inch taller at 18 to 21 months.

Answer: True

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 2

Division: Both

Question: What frame scores are recognized by

USDA Frame Scores as Large frame size?

Answer: Frame score 5.0-7.0

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 2

Division: Both

Question: What frame scores are recognized by

USDA Frame Scores as Small frame size?

Answer: 3.0-5.0

Source: Extension publication L-5176, Frame

Score and Weight of Cattle

Page number: 2

BEEF SAMPLE QUESTIONS

Question:	True or false: Of all the management practices available to cow/calf and stocker cattle producers, implanting suckling	Question:	True or false: Implanting heifers at or near birth can reduce future reproductive performance.
	calves and stocker cattle offers one of the highest benefits to cost ratios.	Answer:	True: Research has shown that one implant administered between 2 months of
Answer:	True	C	age and weaning has little effect.
Source:	Extension publication L-2291, Implanting Beef Calves and Stocker Cattle	Source:	Extension publication L-2291, Implanting Beef Calves and Stocker Cattle
Page number:	1	Page number:	2
Division:	Both	Division:	Both
Question:	True or false: Many implants are available, but selection of an implant is less critical than the decision on whether to	Question:	True or false: There are no implants labeled for use in bull calves intended for future use as herd sires.
	implant or not.	Answer:	True
Answer:	True	Source:	Extension publication L-2291,
Source:	Extension publication L-2291, Implanting Beef Calves and Stocker Cattle	_	Implanting Beef Calves and Stocker Cattle
D ,		Page number:	2
Page number:		Division:	Both
Division:	Both	Question:	True or false: The Food and Drug
Question:	Where is the proper place to put implants?		Administration requires no withdrawal
Answer:	Backside middle third of ear		period before slaughter of implanted cattle.
Source:	Extension publication L-2291, Implanting Beef Calves and Stocker	Answer:	True
	Cattle	Source:	Extension publication L-2291,
Page number:	1		Implanting Beef Calves and Stocker
Division:	Both		Cattle
	Two or foliar Invalanting at any lacation	Page number:	3
Question:	True or false: Implanting at any location other than the backside middle third of ear	Division:	Both
	violates federal law.	Question:	True or false: Beef from implanted cattle
Answer:	True		has a very low level of estrogen compared
Source:	Extension publication L-2291,	A	to other common foods.
	Implanting Beef Calves and Stocker	Answer:	True
D .	Cattle	Source:	Extension publication L-2291, Implanting Beef Calves and Stocker
Page number:			Cattle
Division:	Both	Page number:	3
		Division:	

JUNIOR BEEF PROJECTS

Question: Define steer.

Answer: Castrated male cattle

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 1

Division: Junior

Question: Define heifer.

Answer: Immature female cow

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 1

Division: Both

Question: With show animals, what age are market

steers and heifers normally first started on

feed?

Answer: 6-10 months

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 2

Division: Both

Question: True or false: Steers reach their correct

weight for slaughter between 14 to 20 months, which is the ideal time to exhibit

steers for show.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 2

Division: Both

Question: True or false: Show steers are normally on

feed about 270 days and gain between 2.0

and 3.5 pounds a day.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 2

Division: Both

Question: True or false: A recognized goal for a

show steer to weigh for show is 1,100 to 1,300 pounds with a frame score of

between 4 and 6.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 3

Division: Both

Question: Steers are shown by breeds or by breed

groups. Shows with breed groups will be shown in three recognized divisions. Two divisions are British and Americans. What

is the other division called?

Answer: Continentals, European or Exotics

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: What does USDA stand for?

Answer: United States Department of Agriculture

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: What term is used to describe the fat

deposits inside the muscle or meat of beef cattle that usually looks like white lines

through the raw meat?

Answer: Marbling

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: USDA Quality Grades is basically deter-

mined by maturity and what?

Answer: Marbling (intramuscular fat)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Question: True or false: A steer that possesses a

uniform degree of finish, measured at 0.35 to 0.45 inch of fat over its rib cage, should grade USDA Choice if breed genetics, frame size, weight and age

criteria are correct.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: USDA Yield Grades are basically

determined by what?

Answer: Percentage of boneless, closely trimmed

retail cuts (cutability)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4-5

Division: Both

Question: True or false: A steer with excess finish

would normally have a high USDA

Quality Grade.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: True or false: A steer that is lean and

heavily muscled would likely earn a low

numerical USDA yield grade.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 4

Division: Both

Question: What are the five USDA yield grades of

cattle?

Answer: YG 1, 2, 3, 4, 5

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: There are four measured factors used to

formulate yield grades. Name them.

Answer: 1) fat thickness

2) ribeye area3) carcass weight

4) kidney, pelvic and heart fat

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: Between what ribs are ribeye measure-

ments taken?

Answer: 12th and 13th rib

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: What is the average ribeye area per 100

pounds of weight for steers?

Answer: 1.1 square inches

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: The average steer weighing 1,200 lbs

should have an estimated ribeye area of

how many square inches?

Answer: 13.2 square inches

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: True or false: Steers weighing less than

900 pounds or more than 1,300 pounds are not considered ideal for show because they will produce carcasses that are either too light or too heavy and will be severely

discounted in price.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Question: What is the average dressing percent for

slaughter steers?

Answer: 62-64 percent

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: What are three factors that affect the

dressing percent of a steer?

Answer: Live weight, hot carcass weight and

internal fat (kidney, pelvic and heart fat

or KPH

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 5

Division: Both

Question: Cattle require eight basic nutrients.

Name five.

Answer: 1) protein

2) minerals

3) vitamins

4) water

5) sugar

6) starch7) cellulose

8) fat

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: Where would one find nutritional infor-

mation that lists the amounts of each nutrient needed by cattle for various

levels of performance?

Answer: NRC (National Research Council)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: What does TDN stand for in nutrition?

Answer: Total Digestible Nutrients

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: Most dry feeds contain how much

moisture?

Answer: 7-13 percent

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: True or false: Feed tags express nutrient

content on an as-fed basis, not dry

basis.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: What is the process by which animals

consume, digest, absorb and use their food either for maintenance, growth, fetal development or milk production?

Answer: Nutrition

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Division: Both

Question: What term is used to describe the activity

that ensures the body is getting its require-

ments to function properly?

Answer: Maintenance

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 6

Question: Feeds that are high in energy that will fat-

ten cattle come from what type of feeds?

Answer: Grains

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 7
Division: Both

Question: Name three feeds that are high in energy

and will fatten cattle.

Answer: Corn, barley, oats, wheat, cottonseed,

various small grains, etc.

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 7

Division: Both

Question: Name three feeds that are high in protein

and are considered protein supplements?

Answer: Meals such as cottonseed meal, soybean

meal, feather meal, linseed meal, fish meals, dried blood mean, corn gluten meal, brewers or distillers grain, urea and

other non-nitrogen proteins

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 7-8

Division: Both

Question: When feeding a concentrate feed, what

should one do upon the first signs of any

digestive problems?

Answer: Increase hay (roughage)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 9

Division: Both

Question: What is the term used to describe a diges-

tive ailment often caused by cattle eating rations too high in grain; especially common when starting on feed?

Answer: Acidosis

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What is the term used to describe an

abnormal condition in ruminants caused by an accumulation of gas; characterized by a distention of the rumen, usually seen

on an animal s upper left side?

Answer: Bloat

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What is the term used to describe a nutri-

tional ailment resulting from overeating?

Answer: Founder

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What is a nitrogen-containing compound

commonly used in mixed feeds to increase crude protein content? To be usable by the animal, it must be converted into protein

by rumen microorganisms.

Answer: Urea (non-nitrogen protein)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What feedstuff can be added to help

prevent feed separation and settle dust in

a mixed feed?

Answer: Molasses

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What vitamin that is normally adequate in

green pastures is required to be added to

feedlot rations?

Answer: Vitamin A

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Question: True or false: Vitamin A toxicity can

develop when fed at 20 to 30 times the

recommended rate.

Answer:

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Ouestion: What vitamin is typically adequate in

cattle exposed to sunlight?

Answer: Vitamin D

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Question: What vitamin reduces sickness in

> receiving cattle, decreases stress from toxins like gossypol and improves meat

color and shelf life of beef?

Answer: Vitamin E

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 8

Division: Both

Ouestion: What vitamins are normally synthesized

> by rumen microbes in adequate amounts and do not need to be added to the ration?

Answer: **B**-complex

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 9

Division: Both

Question: What supplement is required for structure

(hooves, bones and teeth) and regulation

of physiological processes in the body?

Answer: Minerals

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 9

Division: Both Question: What additive is used in feeds to help

> prevent some feedlot stress problems and control low-level infections but has little

effect on increasing weight gain?

Answer: Antibiotics

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 9

Division: Both

Question: What additive will improve feed

> efficiency and often suppress or control acidosis, bloat and coccidiosis in beef? These additives are toxic to horses.

Answer: Ionophores

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 9

Division: Both

Question: What buffer compound can be adminis-

> tered intravenously or as a drench to treat acidosis or fed in small amounts as a

preventive treatment?

Answer: Sodium bicarbonate

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: Name the disease in which mineral

deposits crystallize in the urinary tract

causing difficulty in urination.

Answer: Urinary calculi

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: What bacteria and protozoa in the rumen

break down the fibrous plant material

swallowed by a cow?

Answer: Rumen microbes

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Question: True or false: Commercial show additives

contain everything from nutrients such as proteins, fats, vitamins and minerals to enzymes, yeast, bacteria, mined earth products and unidentified stimulants. It is wise not to use any of these products until

you recognize a need.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: Animals that can digest large amounts of

high-fiber roughage-type feeds are called

what?

Answer: Ruminants

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: Ruminants have four stomachs.

Name them.

Answer: umen, reticulum, omasum, abomasum

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: Ruminants have four stomachs. Which

stomach is referred to the true stomach?

Answer: Abomasum

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: What percent of body weight can cattle

consume daily in dry matter?

Answer: 2-3 percent

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 10

Division: Both

Question: What general term describes a ration that

is low in energy, high in roughage and fiber and high in protein relative to the

energy content?

Answer: Starter ration

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 12

Division: Both

Question: What term describes a ration that typically

consists of 12 percent protein, moderate fiber and moderate energy content?

Answer: Growing ration

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 12

Division: Both

Question: What general term describes a ration that

is utilized as the last stage of feeding and is very high in energy (at least 50 percent

corn)?

Answer: Finishing ration

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 12

Division: Both

Question: What term describes an animal able to

consume the amount of feed that meets all the requirements for maintenance, growth and finishing without developing any digestive disturbances or simply is able to

eat all it can without having problems such as scours or acidosis?

Answer: Full feed

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 12

Question: What compound is used to combat

coccidiosis, a common parasite of the gut?

Answer: Coccidiostat

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 12

Division: Both

Question: True or false: Properly finished steers

will have .35-.45 inch of fat to reach their

optimum yield and quality grades.

Answer:

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 13

Division: Both

Question: True or false: Excessive fattening of

heifers at young ages diminishes future

milk production potential.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 13

Division: Both

Question: What term is used to describe a measure-

> ment of daily body weight change in an animal on a feed or forage diet for a

specific time?

Answer: ADG (average daily gain)

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 13

Division: Both

Ouestion: True or false: Feed intake decreases as

energy content increases.

Answer:

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 13

Division: Both **Q**uestion: An excellent way to determine the optimal

amount of feed for each steer/animal is to

observe what?

Answer: Manure

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14

Division: Both

Ouestion: True or false: Cattle will consume more

feed and have fewer digestive problems if

they are fed more than twice a day.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14

Division: Both

Question: True or false: Feeding cattle in groups is

an excellent way to reduce labor and increase intake but can cause some steers to consume more feed while less domi-

nant animals are underfed.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14

Division: Both

Ouestion: True or false: Using bulk or self-feeding

> systems is a good labor-saving system and allows for better individual feeding habits

among dominant, fast and slow eaters.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14

Division: Both

Ouestion: When using bulk or self-feeding systems,

what is the most important thing one must

do to avoid digestive problems?

Answer: Do not allow the bunk to run out of feed.

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14

Question: What term describes a type of feed that is

added to an existing feed?

Answer: Supplement

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14 Division: Both

Question: True or false: Commercial steers could

> be fed the same kinds of diets as those recommended for show steers. However, there are different goals for commercial steers than for haltered steers. The emphasis for show steers is on high weight gain and safety, with little or no emphasis on

efficiency of gain.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 14 Division: Both

Question: What type of vaccine is normally adminis-

> tered to protect cattle against clostridia (blackleg) and perfringens (overeating-

type organisms)?

Answer: 7-way vaccine

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 15 Division: Both

Question: Define intravenous administration.

Answer: The direct introduction of drugs and other

medical treatments into the circulatory

system through a vein

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16 Division: Both Question: Define the term infusion as it relates to

medicine.

Answer: The continuous slow introduction of a

solution, especially into a vein

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16 Division:

Both

Ouestion: What term describes the feeding disorder

> marked by too much acid formed in the rumen, which causes a change in microbes

that produce lactic acid?

Answer: Acidosis

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16 Division: Both

Question: True or false: Acidosis, sometimes

> referred to as grain overload, usually results from introducing grain too rapidly into the diet of animals coming from for-

age diets.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16

Division: Both

Question: What is the term used to describe the

> condition in animals when gas accumulates and the animal is not able to belch

it out?

Answer: Bloat

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16 Division: Both

Question: Signs of bloat are swelling high on which

side of the animal?

Answer: Left side

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 16 Division: Both

BEEF SAMPLE QUESTIONS

Question:	To treat minor bloat, what two things can one do to help?	Question:	Ringworms can be spread from animal to animal. They are caused by what type of	
Answer:	Walking the animal (uphill and head up)	A	infection of the skin?	
Source:	and drenching with mineral oil Extension publication AS 1-2, Managing Beef Cattle for Show	Answer: Source:	Fungus Extension publication AS 1-2, Managing Beef Cattle for Show	
Page number		Page number:		
Division:	Both	Division:	Both	
Question:	If a calf has acute (severe) bloat symptoms, what three steps can you take	Question:	Name three ways you can treat ringworms.	
Answer:	to save the calf? 1) Call the vet and keep walking the calf uphill with head up until the vet arrives. 2) Pass a large stomach tube through esophagus (will not help with foamy	Answer:	 Repeatedly apply strong tincture of iodine. Spray premises with mixture of Captan. Apply bleach to ringworm. Apply thiabendazole mixed with DMSO or use ivermectin. 	
	bloat). 3) Puncture the animal s distended rumen.	Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	
Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	Page number:	: 18	
Page number		Division:	Both	
Division:	Both	Question:	Foot rot is caused by what type of infec-	
Question:	What causes warts?		tion that enters through a break in the skin of the hoof.	
Answer:	A virus	Answer:	Bacteria	
Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	
Page number: 18		Page number:	: 18	
Division:	Both	Division:	Both	
Question: Answer:	Name three ways you can treat for warts. 1) Cover the wart with oils.	Question:	When are the best dates to treat for grubs in cattle?	
Allswei.	2) Vaccinate.	Answer:	Between May 15 and July 15	
	3) Tie off warts.4) Cut off the wart, dice it up, place in an	Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	
	empty bolus and give back to animal (self-immunization).	Page number:	: 19	
Source:	Extension publication AS 1-2, Managing	Division:	Both	
Page number	Beef Cattle for Show age number: 18		When is the best TIME OF DAY to treat grubs in cattle?	
Division:	Both	Answer:	In the late afternoon to prevent blistering	
		Source:	Extension publication AS 1-2, Managing Beef Cattle for Show	
		Page number:	: 19	
		Division:	Both	

Question: Control of flies can be controlled by

what? Name two methods

Answer: 1) removal of manure (sanitation and

removal of breeding areas 2) fly spray of animals and stalls

3) fly tags

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 19
Division: Both

Question: What two times during the year should

feeders treat cattle for lice?

Answer: winter months and summer months

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 19

Division: Both

Question: True or false: When halter breaking

calves, calves that refuse to lead should not be tied behind a vehicle and pulled, and you should not use an electric prod (hot shot) to teach the calf to lead.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 21

Division: Both

Question: True or false: One method recommended

to train a calf to stand and respond to pressure when haltered is to tie the calf to an inner tube that has been secured to a post and watch the calf the first few times.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 20

Division: Both

Question: True or false: When training a calf to lead,

do not apply continuous pressure. Pull on the lead rope and then give slack and allow the calf to move forward.

Answer: True

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 20
Division: Both

Question: With show cattle, rinsing the calf daily is

designed to do what?

Answer: Promote healthy skin and hair

Source: Extension publication AS 1-2, Managing

Beef Cattle for Show

Page number: 21
Division: Junior

HEALTH

Question: What is another name for Bang s disease?

Answer: Brucellosis

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 1

Division: Both

Question: True or false: Brucellosis causes abortion

and infertility in cattle.

Answer: True

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 1

Division: Both

Question: True or false: A brucellosis reactor cow

may be normal in every observable aspect.

Answer: True

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 1

Question: This cattle disease is normally found in

the south. It is a bacterial disease that causes abortions, low-grade uterine infections, mastitis and occasionally systemic infections. Spread is normally by urine of infected animals and aborted fetuses.

What is this disease?

Answer: Lepto (leptospirosis)

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 2-3

Division: Both

Question: This cattle disease is a virus that causes

diarrhea, abortions and respiratory problems in cattle. Calves born with this disease will have loss of hair and/or brain

damage. What is the disease?

Answer: BVD (Bovine Virus Diarrhea)

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 2-3

Division: Both

Question: This is a venereal disease causing

infertility and occasional early abortions in cattle. It is a bacterial disease that is spread from an infected bull to a cow during breeding. What is this disease?

Answer: Vibrio (Vibriosis)

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 2-3

Division: Both

Question: This venereal disease causes infertility

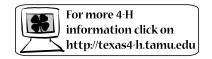
and occasional early abortions in cattle. It is caused by a protozoan organism that is spread from an infected bull to a cow during breeding. What is this disease?

Answer: Trichomoniasis

Source: Extension publication L-5223,

Reproductive Diseases in Cattle

Page number: 2-3



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