

About this Manual

This manual is designed to aid beef producers in routine animal health record keeping. Maintaining records on identification of animals that are treated, recording treatments, dates, products, serial/lot numbers, doses given, and routes of administration, withdrawal times, and the person who administered the treatment are key components of beef quality assurance. Additional animal health and processing information is also provided.

The companion CD contains the following:

- 1. Files for printing additional individual and group processing records. These files are provided in Adobe PDF format for printing.
- 2. Files for electronic recording and management of individual and group processing records. These spreadsheet files are provided in Microsoft Excel 2003 and Microsoft Excel 2007 formats.
- 3. Free software for printing .pdf files and working with .xls spreadsheet files. Included are the free software programs, Adobe Reader and OpenOffice Calc. These programs are not necessary for those that have a PDF reader or spreadsheet program that can recognize .xls files already installed on their computer. To learn more about the programs included on the CD, as well as full installation instructions, visit www.adobe.com and www.openoffice.org.

It is every producer's obligation to utilize management and judgment that ultimately lead to a positive eating experience for the consumer.

This manual and CD were created by Dan Buskirk, Frank Wardynski, Jeannine Grobblel, and Dan Grooms, Michigan State University Extension and was funded, in part, by the Beef Checkoff







Vaccination Programs for Cow-Calf Operations

By Dan Grooms DVM, PhD, Michigan State University

Vaccination programs for Cow-Calf operations must be tailored to the individual operation based on specific needs, disease problems, and management framework. The best person to do this is your veterinarian who knows and understands the health and management issues of your operation. The following vaccination recommendations are meant only to serve as a basic starting place.

Newborn calves to Weaning

Newborn calves will derive most of their early disease protection from a good quality colostrums program. It should be emphasized that no early vaccination program will overcome a poor colostrums program. If problems with specific pathogens, vaccines can be given to neonates to reduce disease risk, but vaccination during this period is less than optimum. Avoid giving vaccines prior to 1 week of age.

4-6 Months -Weaning

The goal is to provide protection against common pathogens that may cause problems when colostral antibodies begin to fall off.

- ➢ IBR, BVDV, PI-3, BRSV (MLV preferred)
- Clostridium (7-way)
- Mannheimia/Pasteurella (Vaccine needs to contain toxoid component)

Prebreeding

The goal is to provide protection against pathogens of general health concern and that may increase pregnancy wastage. These vaccines should be completed 30 days prior to breeding.

- ➢ IBR, BVDV, PI-3, BRSV (MLV preferred)
- Leptospirosis (5 strains) (2 doses)
 - Also, may consider L. hardjo vaccine
- Campylobacter fetus (vibrio) if using bulls
- Clostridium (7-way)

Precalving

The goal with precalving vaccinations is to enhance colostral antibodies and protect against early lactation pathogens.

Rotavirus, Coronavirus, E. coli (for calf scours)







Adult cows

In adult cows, we are primarily concerned about fetal protection. Therefore, we should generally gear our vaccination program around how best to provide good immunity during gestation. Therefore, vaccination prior to breeding is generally recommended.

- IBR, BVDV (MLV preferred)
- Leptospirosis (5 strains)
 - Also, may consider L. hardjo vaccine
- Campylobacter fetus (vibrio) if using bulls

Other vaccines that may be incorporated if problems exist or are anticipated:

Neospora

- Prebreeding
- Haemophilus
- Calves, Prebreeding
- Brucellosis
- Young female calves only Newborns
- Rota, Corona, E. coli
- Late spring/early summer. Needs to contain
- Moraxella bovis (pinkeye) multiple antigens

Some general guidelines to reduce vaccine failure

- Work with your veterinarian to determine the what vaccines to use and the best time to administer
- Handle vaccines with care. Improper handling can quickly inactivate vaccines:
 - All vaccines must be stored at refrigeration temperature
 - . All vaccines should not be frozen
 - All vaccines should not be heated
 - All vaccines should not be exposed to UV light (sunshine!)
 - Once mixed, MLV vaccines should be used in less than 4 hours
 - Never enter a vaccine bottle with a dirty needle
 - Do not use disinfectants on needles or syringes used for vaccinations. Clean with HOT water.
 - Never mix vaccines
- If giving multiple vaccines, make sure they are separated by at least a hands width.
- Read the label and follow instructions for:
 - **Timing of administration**
 - Number of doses .
 - Amount to give
 - **Route of administration**
 - Special precautions (i.e. not to be used in pregnant cows)
- All vaccines should be given in the neck regardless of animal age!!







A Beef Producers Guide for Judicious Use of Antimicrobials in Cattle

Prevent Problems: Emphasize appropriate husbandry and hygiene, routine health examinations, and vaccinations.

Select and Use Antibiotics Carefully: Consult with the herd veterinarian on the selection and use of antibiotics. Have a valid reason to use an antibiotic. Therapeutic alternatives should be considered prior to using antimicrobial therapy.

Avoid Using Antibiotics Important In Human Medicine As First Line Therapy: Avoid using as the first antibiotic those medications that are important to treating strategic human or animal infections.

Use the Laboratory to Help You Select Antibiotics: Cultures and susceptibility test results should be used to aid in the selection of antimicrobials, whenever possible.

Combination Antibiotic Therapy Is Discouraged Unless There Is Clear Evidence The Specific Practice Is Beneficial: select and dose an antibiotic to affect a cure.

Avoid Inappropriate Antibiotic Use: Confine therapeutic antimicrobial use to proven clinical indications, avoiding inappropriate uses such as for viral infections without bacterial complication.

Treatment Programs Should Reflect Best Use Principles: Regimens for therapeutic antimicrobial use should be optimized using current pharmacological information and principles.

Treat the Fewest Number of Animals Possible: Limit antibiotic use to sick or at risk animals.

Treat for the Recommended Time Period: To minimize the potential for bacteria to become resistant to antimicrobials.

Avoid Environmental Contamination with Antibiotics: Steps should be taken to minimize antimicrobials reaching the environment through spillage, contaminated ground runoff or aerosolization.

Keep Records of Antibiotic Use: Accurate records of treatment and outcome should be used to evaluate therapeutic regimens and always follow proper withdrawal times.

Follow Label Directions: Follow label instructions and never use antibiotics other than as labeled without a valid veterinary prescription.

Extra-label Antibiotic Use Must Follow FDA Regulations: Prescriptions, including extralabel use of medications must meet the Animal Medicinal Drug Use Clarification Act (AMDUCA) amendments to the Food, Drug, and Cosmetic Act and its regulations. This includes having a Veterinary/Client/Patient Relationship.

Subtherapeutic Antibiotic Use Is Discouraged: Antibiotic use should be limited to prevent or control disease and should not be used if the principle intent is to improve performance.

Adapted from AVMA, AABP and AVC Appropriate Veterinary Antibiotic Use Guidelines.







Cattle Product Safety Use Guide

By Dee Griffin, University of Nebraska, GPVEC; Revised October 2007

PROPERLY TRAINING FOR HANDLING ALL PRODUCTS IS CRUCIAL!

VACCINES

- Modified Live Virus (MLV)
 - o Minimal Risk

-Most if not all fit in this category.

o Dangerous

-None recognized.

o Safety Action If Exposed:

-Wash exposed / injected area and treat with a topical antibacterial ointment -See a doctor if swelling or pain develops.

• Modified Live Bacterial (MLB)

o Minimal Risk:

-None.

o Dangerous:

-All have the potential to cause disease in humans.

o Safety Action If Exposed:

-See a doctor immediately and take the label / bottle of vaccine with you. -The doctor will likely begin treatment with an appropriate antibiotic.

• Killed (virus/bacteria)

o Minimal Risk:

-Most if not all fit in this category.

o Dangerous:

-None recognized.

o Safety Action If Exposed:

-Wash exposed / injected area and treat with a topical antibacterial ointment -See a doctor if swelling or pain develops.





Beef Quality Assurance- ANIMAL HEALTH RECORDS MANUAL

MEDICATIONS

• Injectable and Oral:

o Minimal Risk:

-Most fit in this category.

-A potential allergic response in some individuals.

-People with known allergies to one or more antibiotics should not work in areas in which animals are being treated ... OR remove the class of antibiotics for which they are allergic from the treatment protocol and thoroughly clean the treatment area to remove remaining traces of the offending antibiotic before the person works in the area.

o Dangerous:

-Micotil If injected has been associated with human fatality.

-If Micotil is accidentally injected, apply ice to injection site, seek immediate medical attention, take label to ER/attending physician, and contact Rocky Mountain Poison Control (1-800-722-0987) as they always have the most current medical information.

-Do not load syringe until the animal is properly and adequately restrained.
-Use the "one-hand" SQ tented technique for giving injections.
-As per all injections, Micotil should be given ahead of the shoulder.
-As per all SQ injections, there is no BQA limit to the amount of Micotil that can be given in one site.

-Lutalyse (and other prostaglandins), PREGNANT WOMEN CAN/WILL ABORT OR GO INTO LABOR IF **EXPOSED** TO THIS MEDICATION ... this product can be absorbed through the skin ... therefore pregnant women should not handle a prostaglandin bottle, work in an area or touch equipment that may be contaminated with a prostaglandin.

-Dexamethasone PREGNANT WOMEN CAN POTENTIALLY ABORT OR GO INTO LABOR IF EXPOSED TO THIS MEDICATION.

o Safety Action If Exposed:

-For products other than MICOTIL, wash exposed/injected area and treat with topical antibacterial ointment and see doctor if swelling/pain develops -An accidental injection with MICOTIL should be treated as an extreme emergency, CALL 911 and rush person to the emergency room, however there is no known antidote.

-For pregnant women LUTALYSE <u>(and other prostaglandins)</u>, and for pregnant women Dexamethasone, wash exposed/injected area and see a doctor ASAP -A person exposed to antibiotic or other medication for which they are allergic should see a doctor ASAP, if the allergy is severe, need to call 911.







ANTIPARASITICS

Injectable:

o Minimal Risk:

-Most fit in this category.

-No known allergies.

-Should a person develop an allergic like response they should see or be taken to a doctor ASAP ... if the response is severe call 911.

o Dangerous:

-None.

o Safety Action If Exposed:

-Wash exposed area and contaminated clothing.

-Should a person develop an allergic like response they should see or be taken to a doctor ASAP ... if the response is severe call 911.

• Pour-On/Topical/Oral:

o Minimal Risk:

-Most fit in this category.

-Organophosphates potentially can be a serious hazard if handled improperly.

-No known allergies.

-Should a person develop an allergic like response they should see or be -taken to a doctor ASAP ... if the response is severe call 911.

o Dangerous:

-Only organophosphates are considered dangerous unless an allergic like response should develop.

o Safety Action If Exposed:

-Newer generation synthetic pyrethroids can cause a severe paraesthesia in some people depending on location of exposure.

-Wash exposed area and contaminated clothing.

Should a person develop weakness, tremors or an allergic like response they should see or be taken to a doctor ASAP ... if the response is severe call 911.







Proper Injection Site and Technique

Regardless of animal age, injections (All intramuscular (**IM**) and subcutaneous (**SQ**) medications and vaccines) should be given in front of the shoulders – <u>never in the rump or back leg</u>. All products cause tissue damage when injected IM. Therefore all IM use should be avoided if possible. Administer or ask that all medications be administered SQ, IV, IN or orally if possible. Products with low dosage rates are recommended and proper spacing should be followed. It is against BQA guidelines to give SQ injections along the ribs or in the elbow region.

If medications labeled only for IM administration must be used, administer them in the neck and never exceed 10 cc per IM injection site. For example, if 24 cc is the calculated dose, use three 8 cc injections instead of two 12 cc injections. There are no restrictions to the volume of SQ injections other than as indicated by the product label or as instructed by the herd veterinarian.









Needle Selection

Visit with the herd veterinarian if you have any questions about the following needle selection information for vaccines, antibiotics and supportive therapies. Needles contribute to injection site defects. Use needles that are no larger than necessary to adequately complete the injection, but large enough to prevent needle bending or breaking off in muscle tissue. The **leading cause of needle bending is improper restraint**, but using dull, damaged or poor quality needles may also contribute to the problem. Under no circumstances can animals with broken needles in them be sent to a harvest facility.

Considerations in needle selection:

Primary: Route of administration, size of animal, and location or site of injection (BQA requires all injections be given in the neck): Viscosity and volume/amount of fluid injected

Needle size/gauge guidelines



Select the smallest size needle (without bending) to fit the cattle size

Change needles

Immediately if the needle bends (DO NOT USE A BENT NEEDLE)

- If needles become contaminated with feces, dirt, or irritating chemicals
- If the needle point is damaged/burr develops
- Before the needle becomes dull (at least every 10 to 15 injections)
- Between cattle with KNOWN blood borne infectious disease
- Follow the herd veterinarian's instructions

Needle care

- Protect needles from contamination (feces, dirt or irritating chemicals)
- Store unused needles in protected area

Needle disposal

- Follow EPA guidelines for disposal of used needles and other Sharps
- Seal Sharps container and dispose of in an approved land fill







Vaccine and Equipment Care and Handling

By Dan Grooms DVM, Michigan State University

Several millions of dollars have been invested to deliver to the livestock producer safe and efficacious vaccines. It behooves us to handle these products in a manner that will maximize the immune response in the healthy animal.

Let's take a couple of minutes to review a few simple steps to help insure that we don't drop the ball by something we did or did not do that could negatively affect vaccine efficacy.

1. Purchase only federally licensed vaccines from a reliable source that is conscientious about the ordering, timely receiving and shipping, and storing vaccines they are going to sell you.

2. Purchase the proper vaccines for the cattle you are vaccinating – consult your veterinarian and/or read the directions carefully.

3. Keep vaccines refrigerated at all times (36 degrees to 44 degrees F). Keep in an ice chest and out of the sun at chuteside.

4. Mix only enough vaccine that will be used in a timely period (less than 1 hour) and discard any unused product by burning containers.

5. Reconstitute modified live virus (MLV) vaccines with clean transfer needles. Using a bleeding needle is highly recommended because they are cheap and disposable (see your veterinarian).

6. Do not mix two different products in the same syringe unless it is part of the package, i.e. IBR / Leptospirosis vaccine.

7. Use only new needles to fill and refill syringes.

8. Consider using multidose disposable syringes that automatically draw from the vaccine vial, especially for modified live virus (MLV) vaccines.

When using this method keep the vial in use in a vial shroud or cover to insulate and protect from sunlight.

9. Use the proper needle gauge and length. 16 ga. X ⅔ or 1 inch for all subcutaneous (subq) injections. Use 16 ga. X 1-inch needles for intramuscular (IM) injections in young cattle. A 16-ga. X 1½ inch needle is used for IM injections in adult cows and bulls. Always use sharp needles – burrs take in hide, hair and debris resulting in injection site infections and abscesses.

10. Use the proper injection site as described by the product insert. Always use the subq route of administration when a choice is given between subq and IM. All injections are to be administered in the neck area as displayed below.







11. Syringe cleaning

a. Don't use alcohol, disinfectants, or detergents in syringes used for (MLV) vaccines.b. Do use hot water (distilled), more hot water as a rinse, dry on clean paper towels, silicone oil, and store in a clean dry area (baggie).

Wash the outside first with the needle and needle cover on. Wash your hands thoroughly, break the syringe down, and perform the cleaning procedure.

The take home message:

We the beef producer, the vaccine company, and the veterinarian have a mutual responsibility to produce a quality, drug free and economic product for the beef consumer.

Using quality vaccines, proper handling and administration, and using clean functional equipment healthy cattle will develop immunity when vaccinated thereby decreasing as much need for antibiotic therapy and increased injection sites.

Adapted from Kirkpatrick, Oklahoma State University Extension







Care and Husbandry Practices

- Follow the 'Quality Assurance Herd Health Plan' that conforms to good veterinary and husbandry practices.
- All cattle will be handled/transported in such a fashion to minimize stress, injury and/or bruising.
- Facilities (fences, corrals, load-outs, etc.) should be inspected regularly to ensure proper care and ease of handling.
- Strive to keep feed and water handling equipment clean.
- Provide appropriate nutritional and feedstuffs management.
- Strive to maintain an environment appropriate to the production setting.
- Bio-security should be evaluated.
- Records should be kept for a minimum of 2 years (3 for Restricted Use Pesticides)

BQA Code of Cattle Care

Beef cattle producers take pride in their responsibility to provide proper care to cattle. The Code of Cattle Care lists general recommendations for care and handling of cattle.

- Provide necessary food, water and care to protect the health and well-being of animals.
- Provide disease prevention practices to protect herd health, including access to veterinary care.
- Provide facilities that allow safe, humane, and efficient movement and/or restraint of cattle.
- Use appropriate methods to humanly euthanize terminally sick or injured livestock and dispose of them properly.
- Provide personnel with training/experience to properly handle and care for cattle.
- Make timely observations of cattle to ensure basic needs are being met.
- Minimize stress when transporting cattle.
- Keep updated on advancements and changes in the industry to make decisions based upon sound production practices and consideration for animal well-being.

Persons who willfully mistreat animals will not be tolerated.















Flight Zone (FZ)

- Movement related to perceiving a predator or danger
- The distance at which an animal will no longer tolerate your approach, it will turn and flee
 - Abrupt or deep penetration of zone: escape behavior
 - Size of FZ changes with experience of animal
 - Dairy cattle small to no zone
- Range cattle larger zone

Outside the flight zone



Cattle face handler outside of flight zone







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Use of FZ + POB + RI

- Sorting cattle for loading
- Move cattle calmly to/onto the trailer
- Off load cattle

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- Want to off load cattle calmly and at a walk
 - Avoid bruising due to crush at the exit
 - Avoid slipping and falling (audit point at the packing plant)

Moving Cattle



The flight zone gets larger when a person makes themself big Grandin photo gallery

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Clean Truck

- Between species
- When changing from feeders to fat cattle
- Once a day
- Cold weather
 - Prevent liquid build-up that freezes
- Clean top to bottom, front to back, inside to outside

Driver's Daily Schedule

- Specific locations of pickups and drop offs
- Phone numbers of producers at both places
- Approximate loading time
- Information about shippment
 - Correct pen and lot number
 - Sale barn buyer number
 - Head count and loading instructions





	-																				Cold Weather
н	gh Temp	peratu	re °F						н	eat II	ndex										
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	90 9	91	95	98	102	105	109	113	117	122	126	131	136	141	147	152	158	164	170	176	Extreme cold conditions when wind chill is below
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H	70 5	36	88	92	95	97	98	100	100	109	109	112	116	119	120	132	130	134	1 1 2 5	143	- Dractic offects on cattle health in outrome wind
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																					 Avoid stopping, get cattle to destination quickly
	higan s v e a s TENSI	INIE IIII ON																	BI	SEF.	MICHIGAN STATE UNITY EASTLY EXTENSION

by:																				
																				Checklist for Loading
	LowTemperature °F Wind Chill Index (WCI)									CI)										
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13	-41	-38	-30	-33	-30	-28	-25	-23	-20	-17	-15	-12	-9	-/	-4	-2	4	4	9	Set gates and ramps
9	-30	-28	-26	-23	-21	-18	-16	-14	-11	-9	-6	-4	-2	1	3	6	8	10	13	
7	-24	-21	-19	-17	-15	-12	-10	-8	-5	-3	-1	1	4	6	8	10	13	15	17	Keep In good repair
5	-15	-13	-11	-9	-7	-5	-3	0	2	4	6	8	10	12	14	16	18	21	23	
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	Ensure chute is in good repair and anchor portable chutes Approximate weight and size of cattle																			





Improving Profits by Managing the Cull Cow

MICHIGAN STATE UNIVERSITY EXTENSION Bringing Knowledge to Lifet Frank Wardynski

Today's non-fed beef is being marketed by methods very different than they were just a few years ago.

It's not just ground beef anymore. Opportunities are available to manage cows to receive higher value by improving beef quality.









Factors Affecting Cull Cow Gain

- Excellent feeding
 - Open
 - Bad udder
 - Age





- Eyes
- Feet and legs
- Poor health
- Wild



Body Condition Score (BCS)

- High lean vs carcass quality and value (Apple, 1999)
 - BCS 2-3 Least valuable carcasses
 - BCS 6 Optimum returns for packer and producer, Highest % Utility Grade and lean yield
 - BCS 7-8 best quality but excess fat increases fat trimming labor

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BCS Related to Feeding and Carcass Characteristics

- Can increase body condition by 1 full score in 30 d and 2 scores in 60 d (Schnell et al., 1997)
- BCS 2 are sold as USDA Quality Grade Cutter or lower



EXTENSION



Low High %/cwt \$/cwt Utility 45 51 Outler Canner 40 46 • \$5.00/cwt Spread between Utility and Cutter/Canner Source: Cattle-Fax Update, October 26, 2007



Seasonal Cow Market Opportunities

An initial cow cost of \$48/cwt on an 1,100 pound female and assuming she will gain 2 pounds per day for 120 days costing \$.45 per pound, using normal death loss, interest, and freight should leave a breakeven of around \$50/cwt.

Source: Case Gable, Cattle-Fax Update, October 26, 2007

Feed and Gain Economics	RISK
Initial Cow Price 1100lb * \$45/cwt = \$495	 Prices – Number 1 Management
Expected Weight Gain 60d * 3.35lb/d = 201lb	 Poor choice of cows to feed Sickness
Feed Cost and Consumption 1285lb * \$12/cwt = 154	Death loss
Breakeven \$650/1300lb final wt = \$50/cwt	

'94 & '99 National Beef Quality Audits Main • Each audit indicated that just shy of \$70 per carcass was lost or not captured due to quality defects • • Major defects – Bruises, lameness, antibiotic residue, lead shot, body condition •

- Less major defects Eyes, mastitis
- Minor defects Udders, prolapse

EXTENSION

Management to Increase Cow Value

- Manage the cull cows to increase immediate dollars in producer's pocket
- Manage to help recoup value for the industry
- Manage to improve carcass quality to help increase beef demand

Increase Immediate Dollars

- Feeding to improve condition and weight gain
- Cull before health problems occur
- Keep cows in good condition

Recoup Industry Dollars

- Handle to decrease bruises
- Cull before problems worsen
 - Health

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EXTENSION

- Lameness
- Eyes

MICHIGAN STATE

Ensure antibiotic residues are not present





Geef Quality ANIMAL HEALTH RECORDS MANUAL

Processing/Treatment Records

- Following all FDA/USDA/EPA guidelines for product(s) utilized.
- All products are to be used per label directions.
- Extra-label drug use shall be kept to a minimum, and used only when prescribed by a veterinarian working under a valid Veterinary Client Patient Relationship (VCPR).
- Strict adherence to extended withdrawal periods (as determined by the veterinarian within the context of a valid VCPR) shall be employed.
- Treatment records will be maintained with the following recorded:
 - Individual animal or group identification.
 - Date treated.
 - Product administrated and manufacturer's lot/serial number.
 - Dosage used.
 - Route and location of administration.
 - Earliest date animal will have cleared withdrawal period.

When cattle are processed as a group, all cattle within the group shall be identified as such, and the following information recorded:

- Group or lot identification.
- Date treated.
- Product administered and manufacturer's lot/serial number.
- Dosage used.
- Route and location of administration.
- Earliest date animals will have cleared withdrawal period.

All cattle shipped to harvest will be checked by appropriate personnel to assure that animals that have been treated, meet or exceed label or prescription withdrawal times for all animal health products administered.

All processing and treatment records should be transferred with the cattle to next production level. Prospective buyers must be informed of any cattle that have not met withdrawal times.





Quality ANIMAL HEALTH RECORDS MANUAL

Feedstuffs

- Maintain records of any pesticide/herbicide use on pasture or crops that could potentially lead to violative residues in grazing cattle or feedlot cattle.
- Adequate quality control program(s) are in place for incoming feedstuffs. Program(s) should be designed to eliminate contamination from molds, mycotoxins or chemicals of incoming feed ingredients. Supplier assurance of feed ingredient quality is recommended.
- Suspect feedstuffs should be analyzed prior to use.
- Ruminant-derived protein sources cannot be fed per FDA regulations.
- Feeding by-product ingredients should be supported with sound science.

Feed Additives and Medications

- Only FDA approved medicated feed additives will be used in rations.
- Medicated feed additives will be used in accordance with the FDA Good Manufacturing
- Practices (GMP) regulation.
- Follow 'Judicious Antibiotic Use Guidelines'.
- Extra-label use of feed additives is illegal and strictly prohibited.
- To avoid violative residues: withdrawal times must be strictly adhered to.
- Where applicable, complete records must be kept when formulating or feeding medicated feed rations.
- Records are to be kept a minimum of two years.
- Operator will assure that all additives are withdrawn at the proper time to avoid violative residues.





Group Pr	ocessing		arm/Ranch name	Premises ID	page of
Treatmer	nt Record	Assurance			
RFID	Visual ID	Group/Pen	Date	Processor Initials	Safe market date
		Product 1		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 2		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 3		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 4		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		National Cattlemen's Beef As	sociation Beef Quality Assur	ance Program ©2008 Michig	gan State University

RFID	Visual ID	Group/Pen	Date		
		Product 5		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	raw, days	
		Product 6		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	aw, days	
		Product 7		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	aw, days	
		Product 8		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	raw, days	<u>_</u>
		National Cattlemen's Beef	Association Beef Quality Assurance Progra	m ©2008 Michiaa	n State Universitv

		Group		Date	page of
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Group Pr	ocessing		arm/Ranch name	Premises ID	page of
Treatmer	nt Record	Assurance			
RFID	Visual ID	Group/Pen	Date	Processor Initials	Safe market date
		Product 1		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 2		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 3		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		Product 4		Route/location	Dosage unit
		Lot or serial #	Expiration date	Withdraw, days	
		National Cattlemen's Beef As	sociation Beef Quality Assur	ance Program ©2008 Michig	gan State University

RFID	Visual ID	Group/Pen	Date		
		Product 5		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	raw, days	
		Product 6		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	aw, days	
		Product 7		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	aw, days	
		Product 8		Route/location	Dosage unit
		Lot or serial #	Expiration date Withdr	raw, days	<u>_</u>
		National Cattlemen's Beef	Association Beef Quality Assurance Progra	m ©2008 Michiaa	n State Universitv

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RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials





RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	(
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
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		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials





RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
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		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials
RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials





RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
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RFID	Visual ID	Group/Pen	Date	Weight, lb	Rectal Temp °F	Diagnosis	Treatment Product	
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		Lot or serial #	Expiration date	Dosage	Route/location	Withdrawl, d	Safe market date	Initials



