

Contents at a Glance

Introduction	1
Part 1: Getting to Know Beef Cattle	5
CHAPTER 1: Raising Beef Cattle: Rewarding Work	7
CHAPTER 2: Bovine Basics: Cattle Terminology and Anatomy	23
CHAPTER 3: From Angus to Zebu: Beef Cattle Breeds and Traits	33
Part 2: Preparing to Bring Home the Beef	51
CHAPTER 4: Preparing Your Facilities	53
CHAPTER 5: Planning Your Feeding Program	77
CHAPTER 6: Exploring Pasture, Manure, and Water Management	107
CHAPTER 7: Choosing and Buying Cattle	127
Part 3: Managing Cattle, Health, and Breeding	145
CHAPTER 8: Minimizing Stress in Cattle Handling	147
CHAPTER 9: Keeping Your Cattle Healthy	165
CHAPTER 10: Addressing Common Cattle Ailments	193
CHAPTER 11: Breeding Cows and Caring for Pregnant Females	215
CHAPTER 12: Looking After Calves Young and Old	245
Part 4: Realizing Your Cattle Business Potential	265
CHAPTER 13: Turning Your Extra Pastures into a Money-Making Business	267
CHAPTER 14: Showing and Selling Cattle	281
CHAPTER 15: Managing Your Beef Business	301
Part 5: The Part of Tens	321
CHAPTER 16: Ten Common Mistakes to Avoid When Raising Cattle	323
CHAPTER 17: Ten (or So) Bizarre Bovine Behaviors . . . and What They Mean	331
Index	337

Table of Contents

INTRODUCTION	1
About This Book	1
Foolish Assumptions	3
Icons Used in This Book	3
Beyond the Book	4
Where to Go from Here	4
 PART 1: GETTING TO KNOW BEEF CATTLE	 5
CHAPTER 1: Raising Beef Cattle: Rewarding Work	7
Burgers and Beyond: Examining the Benefits of Owning Beef Cattle	8
Becoming more self-sufficient	8
Producing extra income	9
Improving the land naturally	9
Having a fun and educational family project	9
Providing the Basics for Your Cattle	10
Wholesome feed and water	10
Clean, spacious living and eating areas	11
A low-stress environment	12
Planning for the Labor and Financial Commitments	12
Reviewing daily chore commitments	12
Planning for big projects and emergencies	13
Looking at purchase prices	13
Calculating feed expenses	14
Figuring the cost of healthcare	15
Budgeting for facilities and land	15
Assembling Your Team of Experts	16
Making friends with a mentor	16
Vetting your veterinarian	16
Relying on extension, NRCS, and SWC staff	17
Asking for advice from your feed and equipment suppliers	18
Considering Important Safety and Legal Matters	18
Preventing physical injuries	18
Watching out for zoonotic diseases	19
Considering your insurance needs	20
Being a good neighbor	20
Complying with zoning regulations	21

CHAPTER 2:	Bovine Basics: Cattle Terminology and Anatomy	23
	Livestock Lingo: Describing Cattle by Age, Sex, and Life Stage	23
	Grasping the Wonders of the Bovine Body	25
	Getting acquainted with general cattle anatomy	26
	Ruminating on cattle stomachs	27
	Checking out reproductive anatomy	29
	Meat or Milk? Investigating Different Types of Cattle	31
	Dairy cattle	32
	Beef cattle	32
CHAPTER 3:	From Angus to Zebu: Beef Cattle Breeds and Traits	33
	Identifying the Traits That Are Important to You	34
	Following your neighbors' lead: Choosing breeds	34
	Thinking about marketability: Hair color and other considerations	35
	Horning in: Choosing animals with or without horns	36
	Matching breed characteristics: Feed resources and customer needs	37
	Perusing breed purity: Purebred or crossbred	39
	Beefing Up Your Knowledge of Common Beef Breeds	40
	Introducing the British breeds	40
	Looking at the Continental breeds	44
	Meeting the American Brahman: The best-known North American <i>Bos indicus</i>	47
	Maintaining vigor with the composite breeds	48
	Examining the old, pure bloodlines of heritage breeds	48
	Checking out mini-cattle	49
	PART 2: PREPARING TO BRING HOME THE BEEF	51
CHAPTER 4:	Preparing Your Facilities	53
	Keeping Your Cattle Safe with Proper Fencing	53
	Addressing permanent fence needs	54
	Preparing internal fencing	58
	Planning for gates	60
	Utilizing electric fencing	61
	Going hi-tech: Virtual fencing	64
	Planning Your Handling Facilities	64
	Selecting a site for your handling facilities	64
	Designing your handling facilities	65
	Selecting a head gate and holding chute	68

Sheltering Your Cattle	69
Going with the tried and true: Pole barns	70
Making do with what you have: Repurposing existing structures	70
Providing shade sources and wind breaks	72
Choosing bedding for your cattle shelter	73
Preventing Mud and Muck with a HUAP Zone	74
CHAPTER 5: Planning Your Feeding Program	77
Understanding the Nutrients Cattle Need	78
Starting with protein	78
Harnessing the nutritional power of energy: Carbs, fats, and proteins	81
Finding the right balance of minerals	83
Cooking up an alphabet soup of vital vitamins	87
Providing the most important nutrient: Water	90
Choosing the Best Feed for Your Cattle	92
Feeding forages	93
Adding to the cattle diet with concentrates	94
Considering nontraditional feedstuffs	95
Doling Out the Proper Feed for All Types of Cattle	95
Nourishing the newborn	96
Providing for the growing calf	96
Balancing the diet for a finishing animal	98
Maintaining the dry cow	98
Keeping your pregnant or lactating cows fed	98
Meeting the dietary needs of your bull	99
Deciding on a Feeding Schedule	100
Opting for limit feeding	100
Allowing cattle a free-choice ration	101
Introducing new feeds to the diet	101
Purchasing the Basic Supplies	102
Getting excited about grain feeders	102
Relying on hay rings	103
Ensuring proper water sources	103
CHAPTER 6: Exploring Pasture, Manure, and Water Management	107
Mastering Pasture Basics: Considering Legumes and Grasses	108
Characterizing quality forages	108
Looking at the types of forages that are available for your pastures	109
Improving or Establishing Your Grazing Land	111
Evaluating and perfecting an existing pasture	111
Preparing a new pasture	113

Fertilizing and feeding the soil	114
Making manure a nutrient for your pasture, not a nuisance.	115
Optimizing Pasture Productivity	118
Matching the number of cattle to the amount of available pasture	118
Giving your pastures a rest with rotational grazing	120
Creating a yearlong forage chain	122
Protecting Your Water Resources	123
Building a stream crossing and drinking area.	123
Managing your ponds and cattle together	124
Protecting riparian areas with flash grazing	125
CHAPTER 7: Choosing and Buying Cattle	127
Selecting the Right Cattle for You	127
Considering the commitment of a bottle calf	128
Exploring the benefits of a weaned calf.	130
Enjoying the rewards of a show calf.	130
Contemplating the promise of a bred cow	131
Deciding Where to Buy Your Cattle.	132
Going to the farm	132
Checking out consignment sales.	133
Taking advantage of test stations	134
Visiting the local sale barn	135
Surfing the internet.	135
Making a Wise Purchase: What to Look For Before You Buy	136
Noticing signs of a healthy versus unhealthy animal.	136
Avoiding genetic and bloodborne diseases.	137
Assessing animal disposition.	138
Judging conformation	139
Understanding performance measurements and pedigrees	139
Evaluating customer service	140
Arriving Home and Settling In	141
Transporting your cattle.	141
Transitioning cattle to new feed and housing.	142
PART 3: MANAGING CATTLE, HEALTH, AND BREEDING.	145
CHAPTER 8: Minimizing Stress in Cattle Handling	147
Getting Acquainted with Bovine Behavior.	148
Recognizing cattle preferences	148
Expecting cattle fighting	148
Dealing with riding or mounting cattle.	149

Determining Whether Your Cattle Are Content	150
Deciphering body language: The head, the tail, and the stuff in between	150
Translating vocalizations	152
Taking Advantage of Your Cattle's Natural Behaviors	154
Managing the predator-prey relationship	154
Using the flight zone to move cattle	155
Working with cattle in a handling facility	157
Training your cattle	159
Safely Handling Breeding Stock.	160
Selecting the right equipment	160
Evaluating a bull's attitude and handling him	161
Working with mothers and baby calves	162
CHAPTER 9: Keeping Your Cattle Healthy	165
Observing Your Cattle to Recognize Illness Early	165
Appetite.	166
Behavior	166
Urine and feces	167
Measuring Physical Vital Signs.	168
Checking body temperature	168
Observing respiration	170
Deciding What to Do for a Sick Animal.	171
When to take action	171
What to do	173
Vaccinating Your Animals.	174
Creating an Annual Healthcare Calendar	175
Starting in pre-calving and calving season.	175
Moving on to breeding season	176
Entering into the preweaning and weaning season.	177
Preventing Seasonal Diseases and Issues	178
Dealing with internal and external parasites	178
Controlling pinkeye	181
Beefing up seasonal nutritional needs.	181
Keeping cattle comfortable during extreme weather	182
Mastering Basic Animal Husbandry Skills	183
Stocking your first aid kit	184
Giving injections.	185
Keeping records of your injections.	187
Identifying Your Animal	188
Ear tags	188
Tattoos	190
Branding	190
Treating Your Cattle's Wounds	191

CHAPTER 10: Addressing Common Cattle Ailments	193
Understanding Respiratory Diseases	194
Controlling and Treating Respiratory Diseases	194
Minimize the stress your cattle experience	194
Develop and implement a proper vaccination plan	195
Exploring Common Respiratory Diseases	196
Infectious bovine rhinotracheitis (IBR), or red nose	196
Bovine viral diarrhea (BVD) Types 1 and 2	197
Bovine respiratory syncytial virus (BRSV)	198
Parainfluenza-3 (PI-3)	198
Pasteurella	198
<i>H. somni</i>	199
Closing In on Clostridial Diseases	199
Dealing with Reproductive Diseases	201
Brucellosis	201
Leptospirosis	202
Vibriosis	203
Trichomoniasis	203
Neosporosis	203
Contending with Other Infectious Diseases	203
Pinkeye	204
Johne's disease	205
Tuberculosis	205
Scours	206
Looking Out for External Parasites	206
Flies	207
Grubs	209
Lice	209
Ringworm	210
Mites	211
Controlling Internal Parasites	211
Preventing Feed-Related Problems	212
Moldy feed	212
Poisonous plants	213
Founder	213
Bloat	214
Sweet clover poisoning	214
 CHAPTER 11: Breeding Cows and Caring for Pregnant Females	 215
Preparing Your Cow for a Successful Pregnancy	216
Assessing body condition scores	216
Providing extra preparations for cows at either end of the age spectrum	219

Administering reproductive vaccines	221
Determining a due date after conception	222
Tending to Male Reproduction	223
Selecting the right bull for your cows	224
Understanding the breeding soundness exam	225
Caring for your bull	226
Getting Cows Pregnant without Owning a Bull	228
Opting for artificial insemination	228
Leasing a bull	231
Planning for the Big Delivery	232
Setting up the birthing spaces	232
Gathering your calving supplies	234
Monitoring the Stages of Labor	235
Gearing up for predelivery	236
Progressing into active labor	236
Watching for postpartum actions	240
Managing Potential Issues during Pregnancy and after Delivery	240
Coping with abortions	240
Being aware of milk fever	241
Dealing with temporary paralysis	242
Preventing udder issues	242
CHAPTER 12: Looking After Calves Young and Old	245
Caring for the New Arrival	245
Helping the calf with breathing difficulties	246
Treating the navel	247
Identifying the calves	247
Ensuring the calf gets enough colostrum	249
Avoiding Calf Problems in the First Few Days	253
Brrrr: Dealing with hypothermia	253
Diagnosing navel or joint ill	255
Looking out for scours	256
Growing Up: Tending to the Older Calf	258
Providing creep feed	258
Developing a vaccination schedule	258
Handling horns	259
Castrating young bulls	261
Easing the stress of weaning	262

PART 4: REALIZING YOUR CATTLE BUSINESS POTENTIAL	265
CHAPTER 13: Turning Your Extra Pastures into a Money-Making Business	267
Growing Stocker Calves	267
Deciding on a season	268
Identifying a source	269
Selecting good stocker calves	269
Planning for a buyer	271
Preparing your fields, facilities, and cattle	272
Tending Cows for Absentee Owners	273
Matching the number of cows on your wish list to your resources	274
Finding cattle (and their owners)	275
Creating a contract for services	275
Raising 100-Percent Grass-Fed Beef	276
Locating customers	277
Supplying proper pasture feedstuffs	277
Determining what type of cattle to raise on an all-grass diet	278
CHAPTER 14: Showing and Selling Cattle	281
Preparing for a Cattle Show	282
Setting your goals	282
Finding the right show for you	283
Knowing where to look for shows	286
Training your animal to be well-mannered in the show ring	286
Packing your feeding and grooming supplies for the show	290
Making the Most of the Show	291
Putting your best foot (or hoof) forward	291
Grooming your animal	292
Following show ring protocol	294
Exploring Sales Opportunities for Your Cattle	296
Opting for private treaty deals	296
Participating in consignment sales	297
Enrolling in a performance test	297
Selling your cattle online	298
CHAPTER 15: Managing Your Beef Business	301
Covering the Legalities of Selling Beef	302
Understanding governmental rules regarding processing facilities	302
Obtaining permits and licenses	303

Protecting yourself with proper insurance coverage	304
Exploring and Pricing the Meat a Market Animal Produces	305
Selling the whole animal on the hoof.	305
Providing freezer beef	305
Marketing your meat by the individual cut	308
Setting your prices.	309
Finding and Working with Your Butcher	311
Checking out the facilities and personnel	311
Considering your animals' well-being.	312
Deciding on packages and labels	313
Maintaining a good relationship with your chosen meat cutter.	314
Exploring Your Different Selling Options	315
Selling direct off the farm.	315
Participating in farmers' markets	315
Harnessing the power of the internet	316
Working with restaurants.	316
Promoting and Marketing Your Beef	317
Beefing up on cattle-selling terminology	317
Spreading the word about your products	318
Developing a marketing plan.	319
PART 5: THE PART OF TENS	321
CHAPTER 16: Ten Common Mistakes to Avoid When Raising Cattle	323
Tolerating Weak Perimeter Fences	323
Running Out Of Grass	324
Forgoing a Calving Ease Bull	325
Neglecting to Keep an Adequate Backup Water Supply	325
Lacking a Marketing Plan	326
Buying Bargain Cattle	326
Purchasing Cattle for Looks and Not Function	327
Skimping on Training before the Cattle Show	328
Failing to Set Proper Customer Expectations	329
Making Raising Cattle Complicated	329
CHAPTER 17: Ten (or So) Bizarre Bovine Behaviors . . . and What They Mean	331
Eating Old, Brown Grass When Fresh Forage Is Available.	331
Squirting Projectile Manure	332
Not Drinking from the Water Trough	332
Galloping around the Pasture	333

Pacing along the Fence.....	334
Balking at Shadows or Holes.....	334
Bawling Frantically.....	335
Rubbing and Scratching.....	335
Curling Their Lips.....	336
INDEX.....	337