

**DeSoto County
Beef Newsletter**
2150 NE Roan Street
Arcadia, FL 34266

September 2009 / Volume 31 Number 9



CALENDAR OF EVENTS

FCA Bred Replacement Heifer Sale

September

25 FCA Bred Replacement Heifer Sale, Arcadia Stockyards, 1:00 PM, Arcadia, FL

29 UF/IFAS Ona Weed Field Day, Ona Range Cattle Research Center, Ona, FL

October

2 Mo Brangus/Hines Cattle Co./ Express Ranches, Brangus & Angus Sale, Arcadia Stockyards, 1:00 PM, Arcadia, FL

14-15 Grazing Management School, Polk County Ag-Center, John Brenneman Auditorium, Bartow, FL

22 DeSoto County Cattlemen's Association Fall Meeting, Turner Center Exhibit Hall, 7:00 PM

DOANE: CORN PRICES LOWER, CATTLE SHOULD MAKE GAINS

Big crops tend to get bigger, and Marty Foreman, and economist with Doane Advisory Service, told *Drovers* and food360 reporters today that corn prices are likely to remain low or drift lower into the harvest season. Foreman says the USDA probably will increase its estimate of the U.S. corn harvest when it releases its Crop Progress report this Friday, probably to around 13 billion bushels. That would represent an increase of 250 million bushels from the August estimate, and would result in a carryover of about 1.8 billion bushels. Foreman says there has been some concern over the crop's slow development leaving some areas susceptible to an early freeze. Recent warm weather, however, has helped crop maturity, and current weather forecasts do not indicate any chance of frost in corn-growing areas over the next couple weeks. Prices might rebound slightly in the short term, but Foreman expects a general trend toward lower prices through harvest. Lower corn prices are contributing to some optimism in the cattle markets, Foreman says. Supplies of market-ready cattle remain tight, and prices should improve marginally through this fall. We need some improvement in consumer demand to drive wholesale beef prices higher before packers will pay much more for cattle though. Last week brought some improvement, with an \$85 market developing late Friday. Foreman says early indications are that Labor Day shoppers did a good job of clearing out beef supplies at supermarkets, so demand from retailers should be good in the coming weeks. Foreman expects that fed-cattle prices should push into the upper \$80s to \$90 this fall, but could come under some downward pressure during the first quarter of 2010. Feedyards recently have been placing significant numbers cattle in the heavier weight classes, he explains, which typically means heavier cattle going to slaughter and larger beef production. In the longer term, he says, as the economy recovers and beef demand improves, prices should strengthen. Also, as producers anticipate higher prices they are likely to retain more heifers for breeding, further reducing supplies of feeder and fed cattle. Foreman expects that some herd expansion could begin next year, if the economy provides the right signals. **Source—Drovers Alert, September 10, 2009, | Volume 9, Issue 36.**

"Do You Know"

- 720,000 Number of deer-vehicle collisions per year in the U.S...
- 2 Hours for Bob white eggs to hatch & chicks to emerge.
- 283 Average Gestation Period in days for beef cattle.
- 7 DeSoto County's ranking in Florida as a Beef Producing County.



MARKET INFORMATION—September 8, 2009

	9/8/09	Last Week	Last Year
5 AREA WEEKLY WEIGHTED CATTLE PRICE			
Live Steer	83.74	84.41	98.54
Live Heifer	83.96	84.38	98.78
Dressed Steer	129.91	131.67	154.43
Dressed Heifer	130.04	132.07	155.01

http://www.ams.usda.gov/mnreports/lm_ct150.txt

	9/8/09 (Estimate)	Last Week (Estimate)	Last Year (Actual)
BEEF PRODUCTION			
Slaughter	655,000	654,000	596,000
Live Weights	1296	1293	1289
Dressed Weights	790	788	787
Beef Production (M. of Pounds)	515.8	514.2	467.5

http://www.ams.usda.gov/mnreports/SJ_LS712.txt

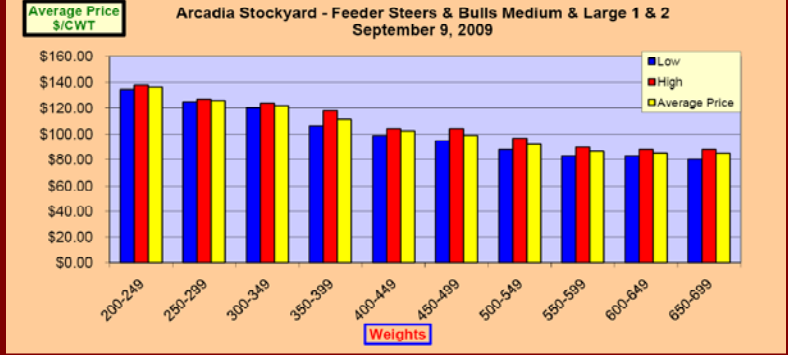
	8/23/09	Last Week	Last Year
National Grading Percent			
Prime	2.62%	2.63%	2.51%
Choice	58.61%	59.28%	58.07%
Select	32.20%	31.97%	33.30%

http://www.ams.usda.gov/mnreports/NW_LS196.txt



Choice/Select Spread
9/08/09
\$7.92/cwt

http://marketnews.usda.gov/gear/browseby/txt/LM_XB403.TXT



The summary below reflects the week ending September 8, 2009 for Medium and Large 1 & 2- 500- to 550-lb., 600- to 650-lb., and 700- to 750-lb. heifers and steers. **Source: USDA National Feeder and Stocker Summary-SJ_LS850.**

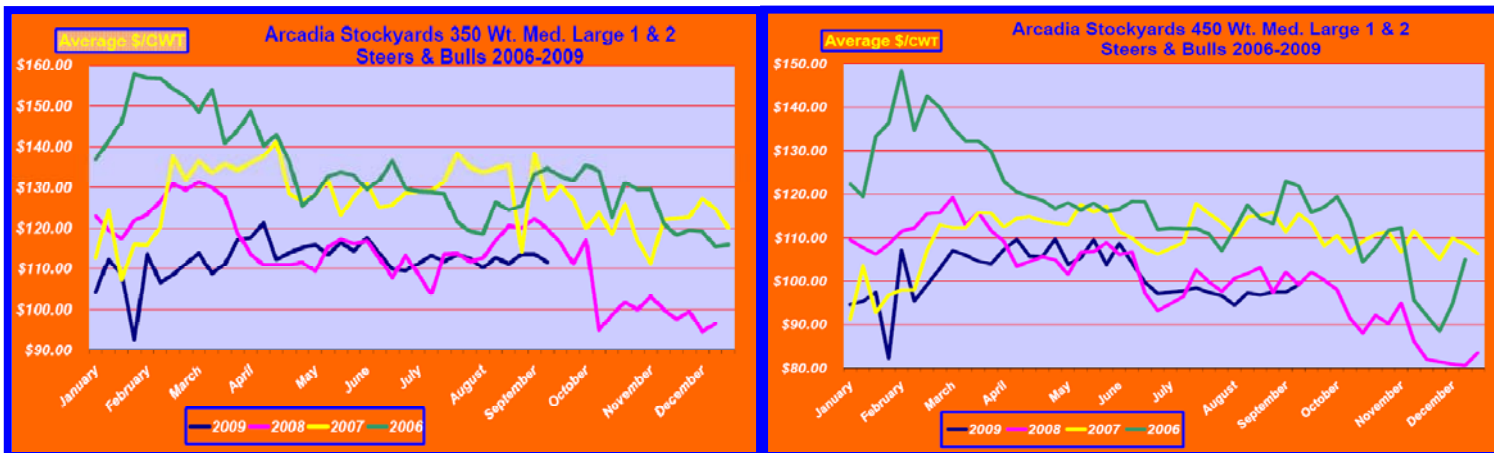
State	Volume	Steers			Heifers		
		500-550 lbs.	600-650 lbs.	700-750 lbs.	500-550 lbs.	600-650 lbs.	700-750 lbs.
TX	34,400	\$107.29	\$92.64	No Report	\$88.20	\$82.96	\$77.65
AL	14,200	\$96.06	\$91.49	\$86.79	\$88.20	\$82.96	\$77.65
TN	7,600	\$99.13	\$92.84	\$88.90	\$89.11	\$83.56	\$79.16
FL	9,400	\$85-96	\$75-90	\$75-84	\$77-86	\$74-85	No Report
GA	6,800	\$88-105	\$85-96	\$80-90	\$75-95	\$77-92	\$79-80
KY	17,300	\$99.84	\$94.67	\$94.73	\$92.36	\$87.81	\$87.44
OK	25,000	\$105.56	\$103.21	\$98.91	\$96.09	\$96.79	\$90.96
MO	28,600	\$103.57	\$100.72	\$97.30	\$95.18	\$91.35	\$89.61

Alabama reported only Med. Large 1

No report indicates that no sales were reported for that weight & Grade.

CORN:

Kansas City US No 2 rail White Corn was 6 to 15 cents lower from 3.16-3.25 per bushel. Kansas City US No 2 truck Yellow Corn was 7 to 10 cents lower at 3.01 per bushel. Omaha US No 2 truck Yellow Corn was steady to 4 cents lower from 3.09-3.16 per bushel. Chicago US No 2 Yellow Corn was 4 ¼ to 11 ¼ cents lower from 2.86 ¾-3.45 ¾ per bushel. Toledo US No 2 rail Yellow corn was 6 ¼ to 12 ¼ cents lower from 3.20 ¾-3.30 ¾ per bushel. Minneapolis US No 2 Yellow Corn rail was 15 ¼ cents lower at 2.98 ¾ per bushel. **Source: USDA Weekly National Grain Market Review, Thursday, September 4, 2009** http://www.ams.usda.gov/mnreports/SJ_GR851.txt



FAWN—DESOTO COUNTY ANNUAL RAINFALL—2009 HTTP://DESOTO.IFAS.UFL.EDU/													
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JULY	AUG	SEPT	OCT	NOV	DEC	Total
2009	0.32"	0.37"	1.83"	0.62"	6.24"	3.96"	13.88"	8.43"	"	"	"	"	35.65"
2008	1.87"	1.51"	2.52"	3.33"	2.55"	7.09"	6.79"	8.42"	2.69"	2.12"	0.27"	1.14"	40.30"
2007	1.93"	2.09"	0.81"	2.80"	2.28"	5.04"	5.42"	5.57"	4.56"	1.46"	0.05"	0.78"	32.79"
2006	0.32"	3.26"	0.97"	0.14"	2.07"	2.71"	5.84"	9.30"	4.15"	1.36"	0.81"	2.13"	33.06"
2005						9.71"	8.73"	5.86"	4.03"	8.78"	3.78"	0.11"	NA
FAWN—DESOTO COUNTY HIGH & LOW TEMPERATURES (2 METERS) AT THE EXTENSION OFFICE													
HIGH	82.8°	85.5°	87.9°	89.7°	96.0°	95.9°	95.0°	94.4°	°	°	°	°	NA
LOW	26.0°	26.2°	34.8°	42.1°	55.4°	62.5°	67.4°	71.9°	°	°	°	°	NA
Rainfall for 2009 is 1.57 inches ahead of 2008—2.23" behind 108 Year Average													

REGULATORY CHANGE COMING

The United States produce industry, the entire food production system, in fact, can look for increased emphasis on food safety from the Food and Drug Administration and the USDA with a focus on handlers. "Regulatory change is likely from FDA within two years," said Robert Keeney, with USDA. "A food safety initiative will be in play in the Obama administration." Keeney, speaking on a Town Hall Meeting panel at the recent Texas Produce Association Conference in Austin, said mandatory regulations on leafy greens and other commodities will be coming and that USDA will work closely with FDA to develop the process. **Source: Crop News Weekly, September 4, 2009. Ron Smith, Farm Press Editorial Staff.**

USDA SEEKS TRADE ADJUSTMENT

Agriculture Secretary Tom Vilsack has announced that the U.S. Department of Agriculture is requesting comments on a proposed rule that would establish the procedures and eligibility criteria for receiving assistance under the Trade Adjustment Assistance (TAA) for Farmers Program. "Helping American producers adjust to a changing and unpredictable economic environment is critical during these challenging times," said Vilsack. "The TAA for Farmers program can provide technical assistance and cash benefits to eligible producers who have been hurt by import competition." Reauthorized by the American Recovery and Reinvestment Act of 2009, the TAA for Farmers Program applies to producers of raw agricultural commodities and fishermen who must show a greater than 15 percent decrease in the national average price, the quantity of production, value of production, or cash receipts compared to the average of the three preceding marketing years. **Source: Crop News Weekly, September 4, 2009.**

WHEAT POTENTIAL IS THE BEST IN YEARS

Thanks to lower wheat prices and plentiful moisture, some calf prices are getting an early boost from wheat-pasture prospects. "The contrast in market indications and producer expectations for winter wheat grazing in the Southern Plains could not be more dramatic than 2009 compared to last year," says Derrell Peel, Oklahoma State University Extension livestock marketing specialist. Peel says wheat prices last year – as well as expensive seed and fertilizer – kept some wheat producers from making wheat pasture available. Research in Oklahoma indicates wheat grazing decreases subsequent wheat production 5-6 bu./acre on average. Plus, planting early for wheat pasture increases the risk of crop failure. **Source: Beef Stocker Trends, September 8, 2009.**

Beef Management Calendar

September/October

Control Smutgrass in September with Velpar if there is adequate soil moisture.	Check dustbags, oilers, etc.
September-Last month to plant Sorghum-Sudan Grass.	Plant warm season perennial pastures.
Check mineral feeder. Use at least 8% phosphorus in mineral and not over 2 ½ to 1 calcium to phosphorus.	Check pastures and hay fields for grubs, mole crickets, spittlebugs and armyworms.
Get heifers vaccinated for brucellosis if not already done.	Implant calves at 90 to 120 days with growth stimulant.
Watch for evidence of pinkeye and treat.	Pregnancy check cows.
ATTEND WEED FIELD DAY AT ONA RANGE CATTLE STATION	

GRAZING MANAGEMENT 101--Cancelled

Due to a lack of enrollment, Pasture Management 101 has been cancelled. In the spring of 2010, "Growing Grass on Small Acreages" will be offered as a replacement program for small farms and ranches.

JBS VERSUS JDB?

Brazilian beef giant JBS SA is set to announce as soon as next week the acquisition of Texas-based Pilgrim's Pride Corp. for a price of roughly \$2.5 billion, say people familiar with the matter. The deal would pull the second-largest chicken company in the U.S. out of bankruptcy court and shake up the global meat business. If the JBS deal for Pilgrim's Pride advances, the new company would create a stronger rival to Tyson Foods. Above, the Brazil company called itself 'The world's largest meat producer' after it acquired Swift & Co. in 2007. The deal was in the final stages of negotiation Wednesday and could fall apart. But if it moves ahead as expected, it would create a new U.S. rival to Tyson Foods Inc., the biggest U.S. meat company that produces beef, chicken and pork. Combined, Pilgrim's Pride and JBS's U.S. unit -- which includes sales at the JBS business in Australia -- would have posted about \$20 billion in revenue last year. Tyson's fiscal 2008 revenue was \$27 billion. **Source: Beef Daily, September 8, 2009.**

DESOTO COUNTY CATTLEMEN'S ASSOCIATION ANNUAL FALL MEETING

Let's have the biggest turnout ever!! The 2009 DeSoto County Cattlemen's Association Annual Meeting will be held at 7:00 p.m., Thursday, October 22, 2009 at the Turner Center Exhibit Hall. All members, along with their family, are invited to attend. Members are asked to bring a covered dish. You may bring one guest to the steak dinner. Members bringing more than one guest will be asked to pay \$10.00 per each additional guest. Not only will you be able to enjoy an excellent steak dinner by attending, you will also hear excellent information concerning beef cattle production and most of all, you will have a great time socializing with your friends.

BEEF MARKET REBOUND EXPECTED LATE NEXT YEAR

The pain of recent record losses in the U.S. cattle feeding industry will not diminish soon, but tightening supplies could lead to a modest rebound in late 2010, according to agricultural economist James Mintert. Speaking at Kansas State University's Risk and Profit Conference, Mintert said that consumers have responded to the U.S. economic downturn by saving more and spending less. Not a bad thing on the face of it, but what consumers are saving means that they're spending less on some foods, such as beef. Mintert, who recently became the assistant director of Extension at Purdue University, said, "historically, beef demand has benefited from growth in the U.S. economy and a low (consumer) savings rate." In 2009 and into 2010, however, he expects weak consumer expenditures to hold back beef demand. That demand slowdown is partly responsible for the record losses realized by cattle feeders during 2008 and 2009. For example, Iowa State University's estimated livestock returns indicate that cattle feeders lost an average of \$120 and \$100 per head during 2008 and the first 7 months of 2009, respectively. Mintert noted that the U.S. cattle industry was "a picture of a healthy industry" from 1925 to 1975 as the industry grew over time in response to growing aggregate demand for beef. Since the mid-1970s, however, the industry has responded to a lack of profitability among cow-calf operators by shrinking its numbers — from more than 130 million head in 1975 to about 94 million today — a reduction of about 28 percent. "Domestic beef demand is still suffering from a long-term decline," he said. "In 1998, domestic beef demand was about half what it was in 1980. Unfortunately, the uptick in demand from the late 1990s through 2004 is starting to look like it was just a blip in the long-term decline in demand." In addition to demand issues, the cost to

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produce beef calves, including feed costs and returns to owned assets, has jumped 30 percent since 2005, which has made even a break-even situation beyond the reach of most producers in the last couple of years. Breakeven prices for calves in Kansas have jumped from just over \$100 per hundredweight (cwt) in 2006, to more than \$140 per cwt this year when producers factor in all of their costs, he said. While the costs of production were rising, prices paid for calves were dropping. **Source: Southeast Farm Daily, September 10, 2009 Volume 4, Issue 20.**

STERLING PROFIT TRACKER: FEEDER, PACKER MARGINS LOWER

Cattle feeding margins declined more than \$34 per head last week, despite an improved cash fed cattle market. Packer margins declined more than \$14 per head at the same time. The Sterling Profit Quotient also declined more than 100 points from the previous week.

The Sterling Beef Profit Tracker is calculated using actual weekly prices for Choice fed steers, feeder steers, feed costs, boxed beef-cutout prices, hide and offal values, and other factors that influence profit margins.

The Sterling Beef Profit Tracker for the week ending 9/4/09:

- Average feedyard margins: -\$18.95 per head.
- Average packer margins: -\$24.41 per head.
- Sterling Profit Quotient: -63.4

Source—Drovers Alert, September 10, 2009, | Volume 9, Issue 36.

FARMING NOW ACCOUNTS FOR HALF OF FISH, BUT IS IT SUSTAINABLE?

New research shows that aquaculture now accounts for half of the fish consumed globally, but the production system relies largely on feed made from wild fish harvested from the sea.

The study, reported in the Proceedings of the National Academy of Sciences, finds that inclusion rates of fishmeal and fish oil from wild sources in feeds has declined, but overall use is up due to increased aquaculture production and demand for fish high in long-chain omega-3 oils, such as salmon. The report notes that various plant- and animal-based alternatives are now used or available for industrial aquafeeds, depending on relative prices and consumer acceptance, and the outlook for single-cell organisms to replace fish oil is promising. With appropriate economic and regulatory incentives, the transition toward alternative feedstuffs could accelerate, paving the way for a consensus that aquaculture is aiding the ocean, not depleting it. **Source—Drovers, September 10, 2009.**

FEDS LAUNCH NEW CONSUMER SAFETY WEBSITE

Health and Human Services (HHS) and USDA have unveiled a new food safety consumer web site at www.foodsafety.gov, featuring the latest food safety and recall information from across the government

The site is designed to help consumers and families get all the latest information on food safety and food recalls in one convenient place.

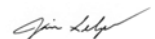
The new site will feature information from all the agencies across the federal government that deal with critical food and food safety information, including preventive tips about how to handle food safely, alerts on life-saving food recalls, and the latest news from the key agencies.

Consumers can sign up in one easy place to receive email and RSS alerts on recalled or potentially unsafe food and hear from the top scientific experts across the government on food safety. Later phases of the site to be launched will include recall feeds for texting and mobile phones. The site will also feature a widget that the public and the media are encouraged to download and promote on their Web sites and social networking sites. The widget will instantly update viewers with the latest food safety recalls and will be a valuable public health and safety tool.

Leaders from HHS and USDA praised the new site and said it would be a valuable tool in their efforts to keep our food supply safe and consumers healthy. **Source—Drovers, September 10, 2009.**

NEWSLETTER STATUS AND EXTENSION LIVESTOCK POSITION

Although I am retired from Extension, I do plan to maintain the newsletter until the position that I have retired from is filled. Should you need a ranch or farm visit, a weed identified or any of the other myriad of things that I have typically done, contact the office and schedule an appointment or call me on my cell phone to make arrangements for us to meet. I greatly appreciate all the kind words and cards during this recent time that you made or sent to me. Thank you!! **Jim!**



James F. Selph
Extension Agent Emeritus

“No occupation is so delightful to me as the culture of the earth, and no culture comparable to that of the garden”. Thomas Jefferson



Pasture Weed Field Day 2009

Tuesday, September 29

8:30 AM

\$20 Pre-Registration by September 11th

\$50 On-site registration

We will need to know how many people we will be serving for lunch. Please contact Toni Wood at (863) 735-1314 or email her at flstroll@ufl.edu. The registration fee, should be made payable to The South Florida Beef Forage Program and may be sent directly to Toni Wood, 3401 Experiment Station, Ona, FL 33865. As long as you are preregistered, you may bring your payment with you to the field day. If you are not pre-registered, on-site registration is \$50.

HARD TO CONTROL WEEDS

Are you battling soft rush or sedges? How can we control wax myrtle? What herbicides are available for pasture weed control? What's the difference between cut-stump and basal applications? What is the best method to calibrate a sprayer?

These are all questions we ask.

Every year we are challenged with new questions, problems, and sometimes, new weeds. It is our goal to help you find an economical approach to weed control in your pastures.

We will be holding concurrent sessions, which is different from the past few years. One session will include sprayer calibration, where attendees will learn the basics of sprayer calibration in a classroom setting. This will be followed by hands-on-training. The other session will consist of a tour of some of our most recent research findings.

WHO SHOULD ATTEND?

- Ranchers
- Herbicide Applicators
- Extension Educators
- Anyone who wants to learn more about weed control in pastures

PROGRAM

8:30 Arrive at Ona (See Map)
9:00 Opening Welcome & Address
9:10 Concurrent Sessions
• Sprayer Caqlibration
• Weed Tour

10:40 Break

11:00 Concurrent Sessions

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- Sprayer Caqlibration
- Weed Tour

12:00 Lunch at Range Cattle REC

CEU CREDITS

We are currently applying for CEU's. Those needing such credits will be asked to sign in when arriving at the pasture and sign out at the end of the program.

TOUR SPEAKERS

[Dr. Brent Sellers](#), Extension Weed Specialist and Asst. Professor, University of Florida-IFAS Range Cattle REC and Dept. of Agronomy

[Dr. Jason Ferrell](#), Weed Scientist and Asst. Professor, University of Florida-IFAS Department of Agronomy

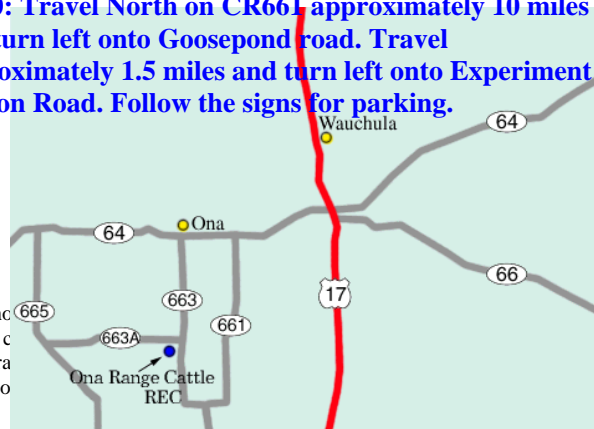
[Mr. Brandon Fast](#), Graduate Research Assistant, University of Florida-IFAS Department of Agronomy

[Ms. Neha Rana](#), Graduate Research Assistant, University of Florida-IFAS Range Cattle REC & Department of Agronomy

[Ms. Courtney Stokes](#), Graduate Research Assistant, University of Florida-IFAS Department of Agronomy

DIRECTIONS

From SR64: Travel South on CR663 approximately 5 miles and turn right onto Goosepond road. Travel approximately 1.5 miles and turn left onto Experiment Station Road. Follow the signs for parking. From SR70: Travel North on CR661 approximately 10 miles and turn left onto Goosepond road. Travel approximately 1.5 miles and turn left onto Experiment Station Road. Follow the signs for parking.



Grazing Management School
October 14-15, 2009
Polk County Ag Center
Bartow, FL

This course is sponsored by The South Florida Beef-Forage Program of the University of Florida, Cooperative Extension Service. It is conducted with the volunteer assistance of area livestock producers and Allied Industries. It represents separation of the original Forage and Pasture Management School into subject components that can be taught in a couple of days. It is part of a continuing multi-County education effort to help South-Central Florida producers raise and market high quality beef cattle, per cow, per acre, profitably. Grazing management is the manipulation of livestock grazing to obtain defined outputs of livestock products. It involves careful management of both pasture and livestock resources to meet desired objectives. This new course is offered in a two day sessions. The theories of grazing management concepts and methods are discussed in a classroom setting during the first day, and concepts taught are supported by practical applications in the field during the second day tour to selected ranches in the area. This is the third annual "Grazing Management School" and we encourage you and your personnel to attend. Registration fee for this school is \$ 30.00 if returned by September 25, 2009, and \$ 50.00 if returned after September 25, 2009. Registration forms can be obtained at one of the Extension offices in The South Florida Beef-Forage Program area, or by contacting one of the participating Extension Agents listed on the back of this brochure. Registrations should be returned to, and checks made payable to: South Florida Beef-Forage Program, c/o Christa L. Carlson-Kirby, 1303 17th St W., Palmetto, FL 34221.

Agenda

Wednesday, October 14, 2009

8:15am	Introduction – Sonja Crawford	1:10pm	Grazing Management Systems & Winter Forages – Dr. Joao Vendramini
8:30am	Soil Fertility for Forages, Pasture and Hay – Dr. Maria Silveira	2:00pm	Afternoon Break
9:15am	Forage Varieties for Grazing Systems – Pat Hogue	2:10pm	Native Range in Grazing Systems – Dr. Mimi Williams
9:50am	Morning Break	3:00pm	Understanding Forage Based Nutrition & Deficits in Forage Quantity & Quality – Bridgett Carlisle
10:00am	Pasture Establishment and Renovation – Christa Kirby	3: 40pm	Open Discussion with Presenters
10:45am	Weed Control in Varying Grazing Systems – Dr. Brent Sellers & Lindsey Wiggins	<u>Thursday, October 15, 2009</u>	
11:30pm	Lunch	8:30am	Arrive at Polk County Ag Center
12:30pm	Conserved Forage Options, Nutritive Value & Dry Matter Loss – Jim Selph & Randy Gornto	8:45am	Leave on morning ranch tours
		12:30pm	Lunch
		1:30pm	Afternoon tours

Sponsored By:
The South Florida Beef-Forage Program
University of Florida
IFAS Extension



Chemical Control Recommendations for Pastures - 2009

Trade Name (Common Name)	Ib active ingredient/acre	Formulation/acre	Min Days To Harvest and Restrictions
APHIDS			
Malathion 57 EC (malathion)	0.94-1.25	1.5-2.0 PINTS	0
ARMYWORMS, GRASS LOOPERS AND OTHER CATERPILLARS			
Several Brands (<i>Bacillus thuringiensis</i>)	See individual brand labels		
Dimilin 2L (diflubenzuron)	0.0313	2.0 OUNCES	1-hay For early instars (2nd or 3rd instars).
Intrepid 2F (methoxyfenozide)	0.06 – 0.12	4.0 – 8.0 FLUID OUNCES	Do not Harvest Hay within 7 days of application; Livestock can enter and graze treated area immediately after application. Do not apply more than 32 ounces of Intrepid 2F per acre per year.
Lannate 2.4 LV (methomyl)	0.23 - 0.9	0.75-3.0 PINTS	7-grazing; 3-hay For Bermudagrass pasture application only. Remove livestock prior to application.
Malathion 57 EC (malathion)	1.25	2.0 PINTS	0
Mustang Max (s-cyano)	0.25	4 FLUID OUNCES	0 – Forage and Hay
Sevin 80 S (carbaryl)	1 – 1.5	1.25 – 1.87 POUNDS	14
Sevin XLR or 4F (carbaryl)	1 – 1.5	1.0 – 1.5 QUARTS	14
Tracer (spinosad)	0.031 - 0.062	1.0 – 2.0 FLUID OUNCES	3 Hay or Fodder: No pre-harvest interval for Forage.
CHINCH BUGS			
Sevin 80 S (carbaryl)	1 – 1.5	1.25 – 1.87 POUNDS	14
Sevin XLR or 4F (carbaryl)	1 – 1.5	1.0 – 1.5 QUARTS	14
GRASSHOPPERS			
Dimilin 2L (diflubenzuron)	0.0156 - 0.0313	1.0 – 2.0 OUNCES	1-hay For early instars (2nd-4th instar).
Malathion 57 EC (malathion)	0.94-1.25	1.5-2.0 PINTS	0
Sevin 4F (carbaryl)	0.5-1.0	0.5-1.0 QUARTS	0 – For use on Rangeland.
Sevin XLR or 4F (carbaryl)	1.0 – 1.5	1.0 – 1.5 QUARTS	14