Workbook



Livestock and Horses

Introducing Florida's Livestock and Horse Industries



SART Training Media







Livestock and Horses Module

Introducing Florida's Livestock and Horse IndustriesWorkbook

Prepared by: Rick Sapp, PhD, Florida SART Technical Writer Elizabeth Wang, DOACS Florida SART Coordinator

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SART Training Media are available for download from the Florida SART web site at www.flsart.org

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About Florida SART

SART, the Florida State Agricultural Response Team, is a multi-agency coordinating group consisting of governmental and private entities dedicated to all-hazard disaster preparedness, planning, response and recovery for the animal and agriculture sectors in Florida.

SART operates at the local level through county SART organizations.

SART utilizes the skills and resources of many agencies, organizations and individuals with its multi-agency coordination group structure.

SART supports the county, regional and state emergency management efforts and incident management teams.

SART Mission

 Empower Floridians with training and resources to enhance animal and agricultural disaster response.

SART Goals

- Promote the establishment of a coordinator in each county responsible for all agriculturally related incidents.
- Provide assistance in the development and writing of ESF 17 plans.
- Promote the establishment of a county SART in each county to serve as a multi-agency group to support emergency management and incident management teams.
- Provide annual training for all SART and agriculturally related personnel.
- Identify county resources available for an emergency or disaster.
- Promote county cooperation at a regional level for mutual aid.

SUBJECT: Introduce participants to Florida's livestock and horse

industries.

GOAL: To empower SART team members with background knowledge

of the breadth, characteristics and composition of the livestock

and horse industries in the state.

LEARNING OBJECTIVES

At the end of this training unit, participants will be able to:

- 1. Briefly describe why livestock and horses create viable industries in Florida.
- 2. Name locations of industry concentration.
- 3. List and discuss some of the characteristics of Florida's livestock and horse industries.
- 4. Name the agencies involved with livestock and horses and describe their roles.
- 5. Identify key resources available for more information.

Slides 1-3



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Introducing Florida's Livestock & Horse Industries Prepared by

Elizabeth Wang
Florida SART Coordinator
Florida Department of Agriculture and Consumer Services
Division of Animal Industry
Rick Sapp, PhD
Florida Department of Agriculture and Consumer Services
Florida SART Technical Writer

State Agricultural Response Team

Slides 4-6

Acknowledgements · Photographs and diagrams - Florida Dept. of Agriculture & Consumer Services - Institute of Food & Agricultural Sciences, University of Florida · Elizabeth Wang, FDACS, Florida SART Coordinator - Rick Sapp, PhD - United States Department of Agriculture - United States Food & Drug Administration - United States Geological Survey - National Weather Service State Agricultural Response Team **Learning Objectives** Describe why livestock and horses are viable industries · List and discuss characteristics of the Florida livestock and horse industries · Name the stakeholders involved with livestock and horses and describe their roles · Identify key resources used to produce this unit that participants can easily access for more information State Agricultural Response Team **Livestock and Horses in Florida** · 26 million poultry 1.5 million beef cattle • 350,000 horses 140,000 dairy cattle • 100,000 swine • 30,000 goats • 10,000 sheep State Agricultural Response Team

Slides 7-9

Livestock and Horses in Florida • Additionally, there are thousands of exotic species (zebra, wildebeest, red deer, etc.) and millions of rabbits and companion animals: dogs, cats, ferrets, hamsters, birds, fish, exotic snakes and spiders and so on.

Livestock and Horses in Florida

 Sales of livestock: more than\$1.48 billion

State Agricultural Response Team

- About 22% of cash receipts for farms and ranches
- Florida's horse industry generates \$2.2 billion
- The total horse industry impact is \$7 billion



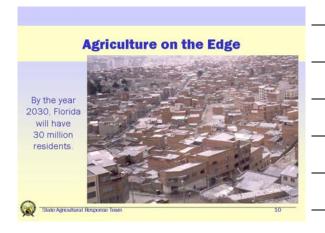


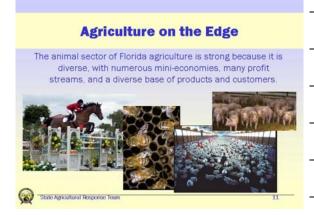
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About Statistics and Statisticians



Slides 10-12







Slides 13-15

Farm Size and Land Use

- 44,000 commercial farms using 10,414,877 acres (30.1% percent of the state's total acreage)
- · Range and pastureland use another 3,400,193 acres
- Improved pastureland comprises 813,694 acres
- · Some land that horses are kept on may be classified as residential





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Florida's Climate is Ideal

- A long state: 700 miles, Pensacola-Key West
- Average highest temperature: Naples 85°
- Average lowest temperature: Gainesville 58°
- Annual rainfall: Highest in Panhandle and on SE Coast
- A humid state: No point is more than 60 miles from salt water or higher than 345' above sea level







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Location of Farms and Ranches

Throughout the state, but concentrated in Horses: Marion County Dairy: Suwannee River Valley, Okeechobee

Area Cattle: South Central Area



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Slides 16-18

Farm Size and Land Use

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The Farm and Ranch Workforce

A total of 800,000 people are in the farm-and-ranch workforce in Florida: full- and part-time, seasonal and migrant.





Livestock Product Values

Sales of more than \$1.2 billion in 2003

- \$356 million for dairy products
- \$333 million from beef
- \$324 million from poultry
- More than \$166 million from miscellaneous other livestock products like hogs, honey, sheep and lamb's wool and others









Slides 19-21

 920,000 calves born in 2003, 662,000 of which were marketed

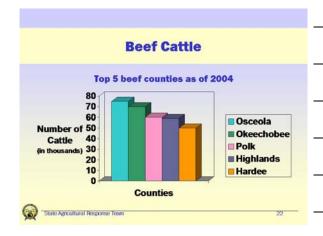
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herds have less than 50 head

· Large-scale beef producers not the norm: 80% of

Dairy Cattle • 189 dairy farms • 142,000 dairy cows - 1st in Southeast for number of cows, 16th nationally - Okeechobee county has the most dairy cattle. 30,000 head in 2004 · Farmers milk an average of 750 cows per farm State Agricultural Response Team **Dairy Cattle** · Per cow milk production 15,218 pounds (about 5 gallons/day/cow) - All dairies collectively produced 2.16 billion pounds of milk · Ice cream production is about 43 million gallons - Other frozen foods production about 47 million gallons State Agricultural Response Team **Beef Cattle** • 15,800 beef operations in Florida with 950,000 head as of 2004 Ranked 12th in beef cows nationally and 3rd east of Mississippi River

Slides 22-24





Poultry



- Florida is 12th in number of chickens on farms (2003)
- 10.8 million layers produced 2.8 billion eggs and \$145 million in sales
- 91.3 million broilers produced 511.3 million pounds of meat and \$179 million in sales

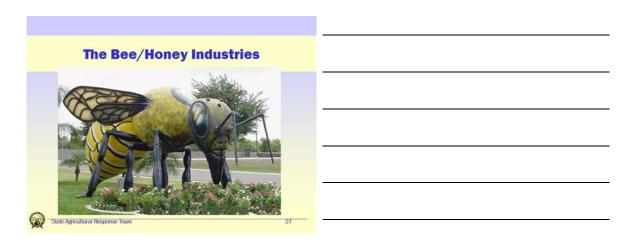


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Slides 25-27

The Swine Industries • Swine - Commercial hog slaughter of 108,200 - Average live weight was 176 pounds - Value \$5.27 million - A traditional source of farm income (apparently downsizing now in Florida)





Slides 28-30



Slides 31-33

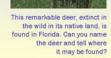
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Stakeholder Involvement in the **Livestock and Horse Industries** · State Florida Department of Agriculture and Consumer Services (FDACS), Divisions of Animal Industry and Dairy Federal United States Department of Agriculture, Animal and Plant Health Inspection Service (USDA-APHIS) Academia - University of Florida, Institute of Food & Agricultural Sciences Private - Producers - Hobbyists - Suppliers State Agricultural Response Team Stakeholder: FDACS . FDACS: "Serves the animals and citizens of Florida by preventing, controlling and eradicating certain infectious or communicable diseases of livestock and other domestic animals. · Animal ID program · Animal movement monitoring · Processing of health certificates · Livestock hauler permitting · Marks and brands program State Agricultural Response Team Stakeholder: FDACS, Division of Animal Industry - Poultry Disease Control Unit - Conducts inspections, takes samples, monitors for Al and END • Cattle - Inspected at markets - Monitoring and testing for brucellosis, tuberculosis, TSEs, Johne's Disease and CWD · Goats and Sheep - Scrapie-free Flock Certification Program (SFCP)

Slides 34-36

Stakeholder: FDACS, Division of Animal Industry • Equine - CEM, EIA, EP, arboviruses, EEE, WNV monitoring Swine - Swine brucellosis, pseudo-rabies and garbage feeding operation

- monitoring • Other
 - Cervidae
 - Reptiles and amphibians
 - Companion animal and other small animals





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Stakeholder: FDACS, Division of Dairy

Bureau of Dairy Inspection

Bureau of Dairy Compliance Monitoring

- · Issues permits and performs inspections of dairy facilities, transport tankers and bulk milk haulers
- · Also collect samples to test for bacteria, antibiotics, water and other impurities
- Weight checking conducted for past 17 years

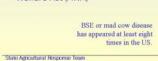




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Stakeholder: US Department of **Agriculture, APHIS**

- · BSE testing and monitoring
- · Animal and animal product import permits and enforcement of export requirements
- Licensing and registration associated with the Animal Welfare Act (AWA)









Slides 37-39

Stakeholder: UF, IFAS and College of Agriculture Research Teaching Extension State Agricultural Response from 37

Stakeholder: The Private Sector Producers Beef cow-calf and dairy cows Thoroughbred and horse breeders Poultry, swine, sheep, goats and others Hobbyists "Hobby farms," horse show participants Racing spectators

Vunited States Dept. of Agriculture (USDA) - www.usda.gov Florida Dept. of Agriculture & Consumer Services (FDACS) - www.doacs.state.fl.us FDACS Division of Animal Industry - www.doacs.state.fl.us/ai/ FDACS Division of Dairy - www.doacs.state.fl.us/dairy/ Sunshine State Horse Council - www.sshc.org

Slides 40-42

			Key Resources	
•			Industry" (an FDACS brock	
			com/pubs/pubform/pdf/Florida_Horse	_Industry_Brochure.pdf
•		www.florida-	ture Statistical Directory"	
			pubform/pdf/Florida_Agriculture_Statis	
•			nt of Agriculture Annual Re e.com/pubs/pubform/pdf/FDACS_Ann	
			Marketing and Developme	
			on to agribusinesses and the	ne general public
		ut Florida agric www.florida-agricult		
_		www.nonua-agricuit	ture.com	
	State	e Agricultural Response Te	com	40
			Vov Bosouross	
			Key Resources	
	•	USDA-APHIS Na	ational Center for Import ar	nd Export
		(NCIE) www.aphis.u	usda gov/vs/noie/	
		United States D	Dept. of Health & Human Se	ervices,
		Centers for Dis	ease Control (CDC) www.odo.g	pv
		American Veter	rinary Medical Assn. www.avm	a.org
			northwest of the control of the state of the	
50	State	e Agricultural Response Te	eam	41
		Now 7	Toet Your Knowle	oddo
			Test Your Knowle	
		and	Awareness (1 of	4)
	1.	(circle the best	answer) The largest agricultural	sector of
		Florida's econor	Control of the Contro	
		a. Citrus	b. Cattle	
		C. Forestry	d. Chickens	anto nomeno esta
	2.	the difficulties of	Florida's humid sub-tropical clim of maintaining viable economic s and dairy cattle and horses.	
(circle the best answer) What fraction best represents the total land devoted to farms and ranches (not, however, including tree				
		farms or forests a. 1/3	b. 1/4	
		c. 1/10	d. 2/3	
0				
(3)	State Agricultural Response Team 42			

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Test continued (2 of 4) 4. Which one of the following is not considered livestock in Florida? a. exotic imported animals such as zebras b. Poland China hogs c. honeybees d. Siamese cats e, all of the above can be considered livestock 5. (fill in the blank) The Florida county with the greatest concentration of horses in the US is (True or False) The heart of Florida's beef cattle industry lies below the Tampa-Orlando-Cape Canaveral growth belt. State Agricultural Response Team Test continued (3 of 4) (circle the best answer) The honeybee, a beneficial, but exotic import into the early American colonies, is now threatened by: a. a combination of killer mites and Africanized bees b. a decline in the public's interest in honey c. artificial methods of pollination d. none of the above is important in the future of the honeybee 8. (circle the best answer) What does it mean that a person, a corporation or an agency of government has "stakeholder involvement" in the horse and livestock industries? a. Those entities have placed legitimate bets either at an authorized racetrack or are wagering on the futures market. b. Those entities have an interest in the viability of the economic sector. c. "Stakeholder" is a short-hand term for the person who holds the reins of a winning racehorse once a course has been run. State Agricultural Response Team Test continued (4 of 4) Which of the following is not a role of the Florida Department of Agriculture and Consumer Services, Division of Animal Industry. a. monitoring for brucellosis in hogs and pigs b. maintaining an alert status for avian influenza c. periodically surveying cattle for "mad cow" disease d. the quarantine of mink coats to halt mink-flea wart spread e, controlling exotic deer transport to prevent chronic wasting (circle the best answer or answers from your point of view) This is an opinion sampler, not a test question. Please give us your most thoughtful reply. Florida's livestock and horse industries: a. have a bright future b. are threatened by the growth of Florida's human population c. have a limited future d, will not be viable in our children's adult lifetimes State Agricultural Response Team

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	Test Answer Key			
	1. (c) Forestry 2. False			
	3. (a) 1/3			
	(e) all of the above can be considered livestock Marion			
	6. True			
	(a) a combination of killer mites and Africanized bees (b) That those entities have an interest in the viability of that			
	economic sector.			
	(d) the quarantine of mink coats to halt mink-flea wart spread This question asks for your opinion. There is no "right" answer and			
	arguments can be made for every answer. What do you think?			
(State Agricultural Response Team 46			
had				
	Classery			
	Glossary			
	Brucellosis: A highly contagious bacterial disease of cattle, goats, sheep and			
	swine that can be transmitted to humans as undulant fever. Chronic wasting disease: A wildlife disease (akin to bovine spongiform			
	encephalitis or "mad cow") that affects deer and elk, but is not believed to be transmissible to humans.			
	Exotic: Not native, introduced from abroad.			
-	 Killer bees: A strain of honeybees that originated in Brazil in the 1950s as a cross between an aggressive African bee and a European honeybee. These 			
	bees retain most of the traits of the African bee: highly aggressive, relatively			
	poor pollinators and relatively poor honey producers. • Relative humidity: Ratio of the actual water vapor pressure at a given time to			
	the vapor pressure that would occur if the air were saturated at the same ambient temperature.			
1	 SART: The Florida State Agricultural Response Team. A multi-agency coordinating group consisting of governmental and private entities dedicated 			
_	to all-hazard disaster preparedness, planning, response and recovery.			
0	State Agricultural Response Team 47			
	Glossary			
	Giocodiy			
	Spongform encephalopathies: A group of diseases characterized by long			
	incubation and fatal progressive courses with characteristic spongiform degeneration of the brain (Creutzfeldt Jakob and "mad cow" disease.)			
	Stakeholder. An individual or group with an interest in the success of an organization in delivering intended results and maintaining the viability of the			
	organization's products and services. Stakeholders influence programs, products, and services.			
	Tracheal mite (Acarapis woodi): A minute arachnid that is parasitic on honeybees, clogging their breathing tubes and eventually killing them.			
	Tuberculosis: An infectious disease caused by the tubercle bacillus affecting			
	primarily the lungs of humans and animals, more common in urban areas, treatable with antibiotics (though resistant strains are appearing).			
•	West Nile virus: A virus of the genus Flavivirus antigenically that is transmitted by Culex mosquitoes, with wild birds serving as the reservoir. It occurs widely in			
	Africa, Europe, the Middle East and Asia, and has recently been reported in the United States. Symptoms may be mild or severe, resulting in death.			
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Introducing Florida's Livestock & Horse Industries
That concludes our "Introduction to the Florida Livestock and Horse Industries." Thank you for attending and for participating!
State Agricultural Response Team 49

RESOURCES

This publication and other materials for SART training programs are available on the World Wide Web at www.flsart.org, the web site of the Florida State Agricultural Response Team. As new modules become available, they will be posted on the web site.

The following are sources of additional information about the agencies, their missions and roles, especially relating to horses and livestock that are mentioned in this module. Others listed, but not mentioned, may be helpful resources as well.

United States Department of Agriculture (USDA, www.usda.gov)

Florida Department of Agriculture and Consumer Services

FDACS (www.doacs.state.fl.us)

FDACS Division of Animal Industry (www.doacs.state.fl.us/ai/)

FDACS Division of Dairy (www.doacs.state.fl.us/dairy)

The Florida Horse Industry, a brochure from FDACS is available at: www.florida-agriculture.com/pubs/pubform/pdf/Florida-Horse-Industry-Brochure.pdf

Florida Agriculture Statistical Directory 2004 can be downloaded from: (www.floridaagriculture.com/pubs/pubform/pdf/Florida_Agriculture_Statistical_Directory_2004.pdf)

Florida Department of Agriculture Annual Report 2004 is available at: (www.floridaagriculture.com/pubs/pubform/pdf/FDACS Annual Report 2004.pdf

FDACS' Division of Marketing and Development Web site provides information to agribusinesses and the general public about Florida agriculture. Brochures, classified ads, fair and exposition information and even recipes are available there. (www.florida-agriculture.com)